



**NEMO|etc.**

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ENGINEER

TEST

CONSULT

**P.E. EVALUATION REPORT (PEER)**

**Carlisle SynTec Systems**

P.O. Box 7000  
Carlisle, PA 17013  
**(717) 245-7264**

**PEER-CRL-003.A.R32**

**FL14083-R31 (NON-HVHZ)**

Date of Issuance: 09/08/2010

**Revision 32: 02/23/2024**

**SCOPE:**

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **8<sup>th</sup> Edition (2023) Florida Building Code** [sections noted herein](#).

**DESCRIPTION: Carlisle Sure-Weld TPO Roof Systems (NON-HVHZ)**

**LABELING:** Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

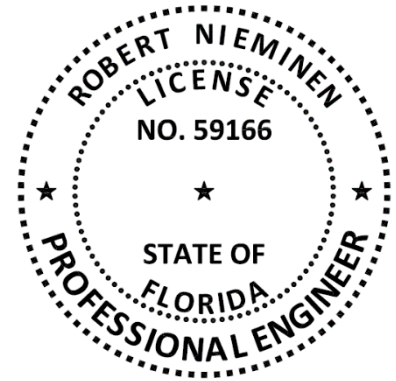
**CONTINUED COMPLIANCE:** This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

**INSPECTION:** Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 5, plus 106-pages of Appendix.

**Prepared by:**



**CERTIFICATION OF INDEPENDENCE:**

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

**ROOFING SYSTEMS EVALUATION:**
**1. SCOPE:**

**Product Category:** Roofing  
**Sub-Category:** Single Ply Roof Systems  
**Product Approval Method:** Method 1, Option D – Codified Material, Evaluation by Engineer  
**Compliance Statement:** Carlisle Sure-Weld TPO Roof Systems, as produced by Carlisle SynTec Systems, have demonstrated compliance with the following sections of the 8<sup>th</sup> Edition (2023) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

**2. STANDARDS:**

SECTION	PROPERTY	STANDARD
1504.3.1	Wind resistance	FM 4474
1504.3.1	Wind resistance	UL 1897
1504.6	Physical properties	ASTM G155
1504.7	Impact resistance	FM 4470
1507.11.2	Material standard	ASTM D6163
1507.11.2	Material standard	ASTM D6164
1507.12.2	Material standard	ASTM D6878

**3. REFERENCES:**

ENTITY	EXAM	REFERENCE	DATE	ENTITY	EXAM	REFERENCE	DATE
ERD (TST 6049)	D6878	C46470.07.14-1A	07/16/14	FM (TST1867)	FM 4474	3033217	12/08/08
NEMO (TST 6049)	D6878 (PA)	4-CRL-18-002.04.18-1	04/03/18	FM (TST1867)	FM 4474	3034985	12/15/08
NEMO (TST 6049)	D6878 (MS)	4-CRL-18-002.04.18-2A	04/03/18	FM (TST1867)	FM 4474	3034066	04/14/09
NEMO (TST 6049)	D6878 (MS)	4r-CRL-19-SSTHP-01.A	07/16/20	FM (TST1867)	FM 4474	3034776	08/07/09
NEMO (TST 6049)	D6878 (UT)	4r-CRL-19-SSTHP-02.A	08/23/19	FM (TST1867)	FM 4474	3037400	09/02/09
NEMO (TST 6049)	D6878 (UT)	4r-CRL-20-SSTHP-02.A	04/27/21	FM (TST1867)	FM 4474	3033356	10/09/09
NEMO (TST 6049)	D6878 (MS)	4r-CRL-20-SSTHP-02.B-R1	05/02/21	FM (TST1867)	FM 4474	3034297	11/13/09
NEMO (TST 6049)	D6878 (UT)	4r-CRL-20-SSTHP-02.C	04/27/21	FM (TST1867)	Criticality	3037608	08/18/10
NEMO (TST 6049)	D6878 (MS)	4r-CRL-20-SSTHP-02.D	04/27/21	FM (TST1867)	FM 4474	3036762	03/08/11
NEMO (TST 6049)	D6878 (UT)	4r-CRL-20-SSTHP-03.A	04/27/21	FM (TST1867)	FM 4474	3041535	06/08/11
NEMO (TST 6049)	D6878 (UT)	4r-CRL-20-SSTHP-03.B	04/27/21	FM (TST1867)	FM 4474	3039340	06/24/11
PRI CMT(TST5878)	ASTM D6163	1655T0009	01/21/22	FM (TST1867)	FM 4474	3043858	08/25/11
PRI CMT(TST5878)	ASTM D6164	165560010	01/21/22	FM (TST1867)	FM 4474	3041797	10/13/11
ACRC (TST4671)	Wind	07-051	08/29/07	FM (TST1867)	FM 4474	3039073	11/22/11
ACRC (TST4671)	Wind	07-059	10/15/07	FM (TST1867)	FM 4470	1X9A4.AM	12/06/11
ACRC (TST4671)	Wind	10-009	05/19/10	FM (TST1867)	FM 4470	3000919	12/06/11
ACRC (TST4671)	Wind	10-018	08/25/10	FM (TST1867)	FM 4470	3044748	12/06/11
ACRC (TST4671)	Wind	10-019	08/25/10	FM (TST1867)	FM 4474	3040260	02/27/12
ACRC (TST4671)	Wind	11-034	06/28/11	FM (TST1867)	FM 4474	3041799	03/29/12
ACRC (TST4671)	Wind	11-035	06/28/11	FM (TST1867)	FM 4474	3043824	04/06/12
ACRC (TST4671)	Wind	11-036	06/29/11	FM (TST1867)	FM 4474	3039762	09/07/12
ACRC (TST4671)	Wind	11-037	06/29/11	FM (TST1867)	FM 4474	3047327	09/13/12
ACRC (TST4671)	Wind	15-002	03/30/15	FM (TST1867)	FM 4474	3040639	09/18/12
ACRC (TST4671)	Wind	15-008	04/02/15	FM (TST1867)	FM 4474	3043858	09/25/12
ACRC (TST4671)	Wind	15-009	04/06/15	FM (TST1867)	Criticality	3047012	10/22/12
ACRC (TST4671)	Wind	15-011	07/07/15	FM (TST1867)	FM 4474	3042075	10/23/12
ACRC (TST4671)	Wind	15-012	07/07/15	FM (TST1867)	FM 4474	3045953	02/13/13
ACRC (TST4671)	Wind	15-015	07/09/15	FM (TST1867)	FM 4474	797 (ribbon HP-NB)	04/25/13
ACRC (TST4671)	Wind	15-016	07/09/15	FM (TST1867)	FM 4451	3049232	09/11/13
ACRC (TST4671)	Wind	15-018	07/10/15	FM (TST1867)	FM 4474	3049189	03/11/14
ACRC (TST4671)	Wind	15-019	07/14/15	FM (TST1867)	FM 4474	3048753	09/16/14
ACRC (TST4671)	Wind	15-020	07/14/15	FM (TST1867)	FM 4474	3051392 (data)	10/15/14
ACRC (TST4671)	Wind	15-021	07/15/15	FM (TST1867)	FM 4474	3054838	02/13/15
ACRC (TST4671)	Wind	15-037	12/28/15	FM (TST1867)	FM 4474	3055462	04/01/15
ACRC (TST4671)	Wind	15-038	12/28/15	FM (TST1867)	FM 4474	3055227	05/21/15
ACRC (TST4671)	Wind	15-041	12/30/15	FM (TST1867)	FM 4474	3053933	06/30/15
ACRC (TST4671)	Wind	15-043	01/04/16	FM (TST1867)	FM 4451	3054498	11/30/15
ACRC (TST4671)	Wind	15-045	01/11/16	FM (TST1867)	FM 4474	3050229	01/25/16
ACRC (TST4671)	Wind	15-046	01/11/16	FM (TST1867)	FM 4474	3058125	02/04/16
ACRC (TST4671)	Wind	15-047	01/12/16	FM (TST1867)	FM 4474	3055167	02/10/16

ENTITY	EXAM	REFERENCE	DATE	ENTITY	EXAM	REFERENCE	DATE
ATI (TST1588)	FM 4470	01-37050.01	03/13/00	FM (TST1867)	FM 4474	3055824	05/31/16
ATI (TST1588)	FM 4470	01-39152.01	03/28/01	FM (TST1867)	FM 4474	3056745	09/28/16
ATI (TST1588)	FM 4470	63524.01-111-47	03/16/06	FM (TST1867)	FM 4474	3058058	11/04/16
ATI (TST1588)	FM 4470	76506.01-111-47	09/06/07	FM (TST1867)	FM 4474	3058125	12/06/16
ATI (TST1588)	FM 4470	77891.01-111-47	10/26/07	FM (TST1867)	FM 4474	3062422 (data)	05/25/17
ATI (TST1588)	FM 4474	C1141.01-109-18	09/13/12	FM (TST1867)	FM 4474	3062422 (data)	01/05/18
ATI (TST1588)	TAS 114	D7772.01-109-18	07/09/14	FM (TST1867)	FM 4474	PR449852 (data)	03/29/18
ATI (TST1588)	TAS 114	D7772.02-109-18	07/14/14	FM (TST1867)	FM 4474	3058463	05/22/18
ATI (TST1588)	TAS 114	E4981.01-109-18	02/26/15	FM (TST1867)	FM 4470	3063373	07/23/18
CTL (TST1577)	FM 4474	CTLA-105R	10/13/08	FM (TST1867)	FM 4474	PR451012 (data)	09/11/18
CTL (TST1577)	FM 4474	CTLA-105R-1	10/13/08	FM (TST1867)	FM 4474	PR449651	09/25/18
CTL (TST1577)	FM 4474	CTLA-105R-2	10/13/08	FM (TST1867)	FM 4474	RR206411	09/26/18
CTL (TST1577)	FM 4474	CTLA-106R	10/16/08	FM (TST1867)	FM 4474	3063085	10/05/18
CTL (TST1577)	FM 4474	CTLA-106R-1	10/16/08	FM (TST1867)	FM 4474	PR451012 (data)	10/11/18
CTL (TST1577)	FM 4474	CTLA-106R-2	10/16/08	FM (TST1867)	FM 4474	PR452297 (data)	12/05/18
CTL (TST1577)	FM 4474	CTLA-106R-3	10/16/08	FM (TST1867)	FM 4474	PR452297 (data)	12/06/18
CTL (TST1577)	FM 4474	CTLA-106R-4	10/16/08	FM (TST1867)	FM 4474	PR451012 (data)	12/13/18
CTL (TST1577)	TAS 117	CTLA 111R	01/13/09	FM (TST1867)	FM 4474	PR452773 (data)	01/30/19
ERD (TST 11294)	FM 4474	13380.01.17	01/27/17	FM (TST1867)	FM 4474	PR452773 (data)	02/01/19
ERD (TST 11294)	FM 4474	CLT16160.08.17-1	08/28/17	FM (TST1867)	FM 4474	PR451012 (data)	02/01/19
ERD (TST 11294)	FM 4474	CLT16160.08.17-2	08/28/17	FM (TST1867)	FM 4474	3059662	02/05/19
ERD (TST 6049)	FM 4470	E9490.03.08	03/25/08	FM (TST1867)	FM 4474	PR451520 (data)	05/02/19
ERD (TST 6049)	Criticality	A35880.04.12-R1	10/26/12	FM (TST1867)	FM 4474	PR453044	05/30/19
ERD (TST 6049)	FM 4474	SC10010.02.16	02/29/16	FM (TST1867)	FM 4474	PR453924(data)	06/19/19
ERD (TST 6049)	FM 4474	CRL-SC13450.01.17	01/31/17	FM (TST1867)	FM 4474	3060914	06/20/19
ERD (TST 6049)	Criticality	SFS-SC12250.10.17	10/23/17	FM (TST1867)	FM 4474	PR453922	08/08/19
FM (QUA1840)	Traceability	3056620	10/12/15	FM (TST1867)	FM 4474	PR452049	08/27/19
FM (TST1867)	FM 4470	1T3A3.AM	11/26/91	FM (TST1867)	FM 4474	PR460398 (data)	01/29/20
FM (TST1867)	FM 4470	0V7A4.AM	06/10/92	FM (TST1867)	FM 4474	PR453353	01/31/20
FM (TST1867)	FM 4470	1V9A5.AM	09/16/92	FM (TST1867)	FM 4474	PR453923	02/02/20
FM (TST1867)	FM 4470	1T2A6.AM	02/22/93	FM (TST1867)	FM 4474	PR451812	04/24/20
FM (TST1867)	FM 4470	1X6A7.AM	08/16/93	FM (TST1867)	FM 4474	RR223958	06/10/20
FM (TST1867)	FM 4470	3Z9A1.AM	10/15/97	FM (TST1867)	FM 4474	RR224173	06/30/20
FM (TST1867)	FM 4470	3001580	11/16/98	FM (TST1867)	FM 4474	PR460398 (data)	06/23/21
FM (TST1867)	FM 4470	3001522	03/26/99	FM (TST1867)	FM 4474	PR456208 (data)	09/28/21
FM (TST1867)	FM 4470	3003393	03/30/99	FM (TST1867)	FM 4474	PR459293	09/29/21
FM (TST1867)	FM 4470	3003337	06/11/99	FM (TST1867)	FM 4474	PR453924 (data)	11/10/21
FM (TST1867)	FM 4470	3006110	06/13/01	FM (TST1867)	FM 4474	PR453924 (data)	12/08/21
FM (TST1867)	FM 4470	3011329	06/10/02	FM (TST1867)	FM 4474	PR465894 (data)	04/12/23
FM (TST1867)	FM 4470	3012879	04/04/03	FM (TST1867)	FM 4474	PR467995 (data)	01/04/24
FM (TST1867)	FM 4470	3013584	06/27/03	M-D (CER1592)	TAS 114	21-1229.06	02/24/22
FM (TST1867)	FM 4470	3014692	08/05/03	M-D (CER1592)	TAS 114	23-0817.05	09/14/23
FM (TST1867)	FM 4470	3016355	09/15/03	M-D (CER1592)	TAS 114	23-0718.06	10/12/23
FM (TST1867)	FM 4470	3019890	12/16/04	NEMO (TST 6049)	FM 4474	4-CRL-18-003.05.18	05/15/18
FM (TST1867)	FM 4474	3017662	06/07/05	NEMO (TST 6049)	FM 4474	CRL-SC16815.06.18	06/07/18
FM (TST1867)	FM 4474	3023032	07/20/05	NEMO (TST 6049)	FM 4474	4L-CEL-18-001.12.18	12/14/18
FM (TST1867)	FM 4474	3018631	11/03/05	NEMO (TST 6049)	Criticality	4S-CRL-18-005.11.18-R1	01/17/19
FM (TST1867)	FM 4474	3023999	11/08/05	NEMO (TST 6049)	FM 4474	4L-CRL-18-003.12.18	01/14/20
FM (TST1867)	FM 4474	3020845	01/25/06	NEMO (TST 6049)	FM 4474	4a-CRL-19-LSWUS-01.A	01/14/20
FM (TST1867)	FM 4474	3021941	03/20/06	NEMO (TST 6049)	FM 4474	4a-CRL-19-LSWUS-02.A	03/05/20
FM (TST1867)	FM 4474	3023340	03/20/06	NEMO (TST 11294)	FM 4474	2-CRL-18-002.04.18	05/15/18
FM (TST1867)	FM 4474	3023458	07/18/06	NEMO (TST 11294)	FM 4474	2a-CRL-19-LWWUS-01.A	05/13/19
FM (TST1867)	FM 4474	3024593	07/27/06	NEMO (TST 11294)	FM 4474	2a-CRL-19-LWWUS-02.A	01/14/20
FM (TST1867)	FM 4474	3022174	09/25/06	NEMO (TST 11294)	FM 4474	2-CRL-18-002.10.18-2-R1	01/23/20
FM (TST1867)	FM 4474	3021235	06/01/07	NEMO (TST 11294)	FM 4474	2a-CRL-22-LSWUS-01.A	07/18/22
FM (TST1867)	FM 4474	3026964	07/25/07	NEMO (TST11294)	FM 4474	2a-CRL-23-LSWUS-01.A	04/12/23
FM (TST1867)	FM 4470	3030926	08/07/07	PRI CMT(TST5878)	FM 4474	CST-016-02-01	05/04/11
FM (TST1867)	FM 4474	3028438	08/22/07	PRI CMT(TST5878)	FM 4474	CST-016-02-01	05/05/11
FM (TST1867)	FM 4474	3031350	09/27/07	UL, LLC. (TST9628)	UL 1897	08CA15815	10/22/08
FM (TST1867)	FM 4474	3030536	10/09/07	NEMO	Data Release	NE-FRM-0025-USG	02/17/21
FM (TST1867)	FM 4474	3028655	11/09/07	NEMO	Data Release	NE-FRM-0025-SFS	11/29/21
FM (TST1867)	FM 4474	3026951	01/21/08	NEMO	Data Release	NE-FRM-0025-OMG	11/30/21
FM (TST1867)	FM 4474	3031349	05/13/08	NEMO	Data Release	NE-FRM-0025-OMG	11/19/23
FM (TST1867)	FM 4474	3031765	07/21/08	NEMO	Traceability	FBC PCL-USP	10/14/22
FM (TST1867)	FM 4474	3029840	09/08/08	UL, LLC. (QUA9625)	QA	Service Confirmation	07/06/22
				UL, LLC. (QUA9625)	QA	Florida BCIS	Current

#### 4. PRODUCT DESCRIPTION:

This PEER covers **Sure-Weld TPO Roof Systems** installed in accordance with **Carlisle SynTec Systems** published installation instructions and the [Limitations of Use](#) herein.

TABLE 1: EVALUATED MEMBRANES						
TYPE	PRODUCT		MATERIAL STANDARD			PLANT(S)
			REFERENCE	TYPE	GRADE	
ROOF COVER OR CAP PLY	Sure-Weld	45, 60-mil	ASTM D6878	N/A	N/A	MS, PA, UT
	Sure-Weld EXTRA	72, 80-mil	ASTM D6878	N/A	N/A	MS, PA, UT
	Sure-Weld HS	60, 80-mil	ASTM D6878	N/A	N/A	MS
	Sure-Weld FleeceBACK FR	60-mil	ASTM D6878	N/A	N/A	UT
	Sure-Weld FleeceBACK 100, 115 or 135	45, 60, 80-mil	ASTM D6878	N/A	N/A	MS
	Sure-Weld FleeceBACK 115	60-mil	ASTM D6878	N/A	N/A	UT
	Sure-Weld AFX 120, AFX 135 or AFX 155	45, 60, 80-mil	ASTM D6878	N/A	N/A	MS
	Sure-Weld SAT-TPO	60, 80-mil	ASTM D6878	N/A	N/A	UT
	Sure-Weld FleeceBACK® RL™ with RapidLock Technology	60-mil	ASTM D6878	N/A	N/A	MS
BASE PLY OR VAPOR BARRIER MEMBRANES	SureMB 90 Base		ASTM D6163	I	S	TX
	SureMB 90TG Base		ASTM D6163	I	S	TX
	SureMB 120TG Base		ASTM D6163	I	S	TX
	SureMB 90 Poly Base		ASTM D6164	I	S	TX
	SureMB 120 Poly Base		ASTM D6164	I	S	TX

#### 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This PEER does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This PEER does not include evaluation of roof edge termination. Refer to **FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.
- 5.6 Refer to **FBC 1511** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard TAS 105](#).

- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with [ANSI/SPRI IA-1](#), [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#) shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#).
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.
- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per [FBC 1504.9](#) has already been applied). Refer to [FBC 1609](#) for determination of design wind loads.
- 5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with [FBC Chapter 16](#). Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI WD1](#), [FM Loss Prevention Data Sheet 1-29](#), [Roofing Application Standard RAS 117](#) or [RAS 137](#). Assemblies marked with an asterisk\* carry the limitations set forth in [Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 \(February 2020\)](#) for Zone 2/3 enhancements.
- 5.7.3 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with [FBC Chapter 16](#). No rational analysis is permitted for these systems.
- 5.8 All components in the roof assembly shall have quality assurance audit in accordance with [F.A.C. Rule 61G20-3](#). Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on [Page 1](#) of this PEER.

## 6. INSTALLATION:

**Carlisle Sure-Weld TPO Roof Systems** shall be installed in accordance with **Carlisle SynTec Systems** published installation instructions, subject to the [Limitations of Use](#) noted herein.

## 7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

## 8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by [F.A.C. Rule 61G20-3](#) QA requirements. Refer to [Section 4](#) herein for products and production locations having met codified material standards.

## 9. QUALITY ASSURANCE ENTITY:

[UL LLC – QUA9625](#); (360) 817-5512; [bsai.inspections@ul.com](mailto:bsai.inspections@ul.com)

- THE 106-PAGES THAT FOLLOW FORM PART OF THIS PEER -

**APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
<a href="#">1A</a>	Wood	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	6
<a href="#">1B</a>	Wood	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	7
<a href="#">1C</a>	Wood	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Base Ply, Bonded Roof Cover	9
<a href="#">1D</a>	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	10
<a href="#">1E</a>	Wood	New, Reroof (Tear-Off), Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	12
<a href="#">1F</a>	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	13
<a href="#">1G</a>	Wood	New, Reroof (Tear-Off), Recover	D-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	14
<a href="#">1H</a>	Wood	New, Reroof (Tear-Off), Recover	E-1	Non-Insulated, Mechanically Attached Roof Cover	14
<a href="#">1I</a>	Wood	New, Reroof (Tear-Off), Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	15
<a href="#">1J</a>	Wood	New, Reroof (Tear-Off), Recover	G	Optional Insulation, Loose-Laid Roof Cover, Pressure Equalizing Vent	15
<a href="#">2A</a>	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	16
<a href="#">2B</a>	Steel or structural concrete	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	18
<a href="#">2C</a>	Steel or structural concrete	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Base Ply, Bonded Roof Cover	27
<a href="#">2D</a>	Steel	New, Reroof (Tear-Off), Recover	B-2	Mechanically Attached Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	28
<a href="#">2E</a>	Steel or structural concrete	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	31
<a href="#">2F</a>	Steel or structural concrete	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Base Ply, Bonded Roof Cover	43
<a href="#">2G</a>	Steel	New, Reroof (Tear-Off), Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	43
<a href="#">2H</a>	Steel or structural concrete	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover (Stress Plate)	47
<a href="#">2I</a>	Steel or structural concrete	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover (RUSS Strips)	54
<a href="#">2J</a>	Steel	New, Reroof (Tear-Off), Recover	D-3	Insulated, Mechanically Attached and Induction Welded Roof Cover	54
<a href="#">3A</a>	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	55
<a href="#">3B</a>	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	71
<a href="#">3C</a>	Structural concrete	New, Reroof (Tear-Off), Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	72
<a href="#">3D</a>	Structural concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	74
<a href="#">3E</a>	Structural concrete	New, Reroof (Tear-Off), Recover	G	Optional Insulation, Loose-Laid Roof Cover, Pressure Equalizing Vent	74
<a href="#">4A</a>	Deck with Lightweight concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	75
<a href="#">4B</a>	Deck with Lightweight concrete	New, Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	78
<a href="#">4C</a>	Deck with Lightweight concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	78
<a href="#">4D</a>	Deck with Lightweight concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	81
<a href="#">5A</a>	Cementitious wood fiber	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	83
<a href="#">5B</a>	Cementitious wood fiber	New, Reroof (Tear-Off), Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	85
<a href="#">5C</a>	Cementitious wood fiber	New, Recover	F	Non-Insulated, Bonded Roof Cover	85
<a href="#">6A</a>	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	86
<a href="#">6B</a>	Existing gypsum	Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	88
<a href="#">6C</a>	Existing gypsum	Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	89
<a href="#">6D</a>	Existing gypsum	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	90
<a href="#">7A</a>	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	91
<a href="#">7B</a>	Various	Recover	A-1	Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	97
<a href="#">7C</a>	Steel	Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	99
<a href="#">7D</a>	Steel	Recover	D-1	Insulated, Mechanically Attached Roof Cover	100
<a href="#">7E</a>	Steel	Recover	D-2	Insulated, Mechanically Attached Roof Cover (RUSS Strips)	101
<a href="#">7F</a>	Various	Recover	E-1	Non-Insulated, Mechanically Attached Roof Cover	102
<a href="#">7G</a>	Various	Recover	F-1	Non-Insulated, Bonded Roof Cover	103
<a href="#">7H</a>	Various	Recover	F-2	New LWC over Existing Roof, Bonded Roof Cover	104
<a href="#">8A/8B</a>	Guidance / Limitations for use of Hilti fasteners in Type B steel deck securement beneath Carlisle SynTec roof systems				106

The following notes apply to the systems outlined herein:

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
  - As-tested roof cover performance in accordance with FM 4474 and TAS 114, Appendix J indicates min. 22 ga., Type B, Grade 40 steel deck at max. 6 ft spans attached with 5/8-inch diameter puddle welds spaced 6" o.c., with deck side laps secured max. 24" o.c. w/ ¼"-14x1" long self-tapping hex-head screws, may be used for roof assemblies over steel deck up to a maximum design pressure of -60.0 psf. This does not preclude Note 1 above.
  - Tables 8A and 8B provide guidance / limitations associated with use of fasteners from Hilti, Inc. to secure steel decking to structural members.

- 2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fastener shall be of sufficient length for the following engagements:

FASTENER/PLATE OPTIONS				
DECK TYPE	BY	FBC FILE NO.	PARTS	MINIMUM ENGAGEMENT
Wood	Carlisle SynTec	N/A	Carlisle HP Fastener with Carlisle Insulation Fastening Plate	Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment
Steel	Carlisle SynTec	N/A	Carlisle HP Fastener with Carlisle Insulation Fastening Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
Structural Concrete	Carlisle SynTec	N/A	Carlisle HD 14-10 Fastener, Carlisle CD-10 or HP Concrete Spike (1/4) with Carlisle Insulation Fastening Plate	Minimum 1-inch embedment. Fastener installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions

- 3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- 5 Preliminary insulation attachment: Unless otherwise noted, use FBC Approved roofing fasteners and plates and refer to Section 2.2.10.1.3 of [FM Loss Prevention Data Sheet 1-29](#). For systems where a vapor barrier is installed, refer to Table 6 of [FM Loss Prevention Data Sheet 1-29](#). For systems where no vapor barrier is installed, Carlisle InsulFast may be used in place of Carlisle HP Fastener for preliminary attachment purposes over wood and steel deck.
- 6 Unless otherwise noted, insulation adhesive application rates are as follows.
  - Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
  - When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
  - The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.
  - "FULL" or "SPATTER" applications may be used wherever "RIBBON" is referenced for insulation securement.

INSULATION ADHESIVE REFERENCES			
ADHESIVE	METHOD	REFERENCE	MINIMUM RATE
Flexible FAST	full-coverage	Flexible FAST (FULL)	Continuous ribbons, 4-inch o.c. or spray-applied at 1 gal./square
Flexible FAST	splatter-applied	Flexible FAST (SPATTER)	Splatter-applied at 0.5 gal/square (wet) = 4.7 lb/square (dry)
Flexible FAST	ribbon-applied	Flexible FAST (RIBBON)	Continuous ribbons, 12-inch o.c.
Flexible FAST Dual-Tank	full-coverage	Flexible FAST DT (FULL)	Continuous ribbons, 4-inch o.c. or spray-applied at 1 gal./square
Flexible FAST Dual-Tank	splatter-applied	Flexible FAST DT (SPATTER)	Splatter-applied at 0.4 gal/square (wet) = 3.7 lb/square (dry)
Flexible FAST Dual-Tank	ribbon-applied	Flexible FAST DT (RIBBON)	Continuous ribbons, 12-inch o.c.
Carlisle OlyBond 500 BA	ribbon-applied	OB500	Continuous 0.75-inch wide ribbons, 12-inch o.c. (PaceCart, SpotShot or Canister)

- 7 Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to ‘increase’ the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS				
ADHESIVE	INSULATION		MIN. TAPERED THICKNESS (IN)	MDP (psf)
	LISTED PRODUCT	FBC FILE		
Flexible FAST	Any polyisocyanurate listed with adhesive herein	Various	0.5	-157.5
OB500	Any polyisocyanurate listed with adhesive herein	Various	0.5	-187.5

- 8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet](#) 1-29.
- 9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI WD1](#), [FM Loss Prevention Data Sheet](#) 1-29, [Roofing Application Standard](#) RAS 117 and RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of [FM Loss Prevention Data Sheet](#) 1-29 for Zone 2/3 enhancements.
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard](#) TAS 105.
- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, [FM Loss Prevention Data Sheet](#) 1-52 or [Testing Application Standard](#) TAS 124.
- 13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation ([Note 5](#)). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.



15 For bonded membrane applications, unless otherwise noted, refer to the following.

MEMBRANE / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	APPLICATION	RATE
Sure-Weld or Sure-Weld HS	Aqua Base 120 Bonding Adhesive (Aqua Base 120)	Contact (both sides)	0.42 gal/square per surface [0.84 gal/square (120 ft <sup>2</sup> /gal) finish]
Sure-Weld	CAV-GRIP III Adhesive/Primer (CAV-GRIP III AP)	Contact (both sides)	0.225 gal/square per surface [0.45 gal/square (222 ft <sup>2</sup> /gal) finish]
Sure-Weld or Sure-Weld HS	Low VOC Bonding Adhesive (LVOC BA)	Contact (both sides)	0.83 gal/square per surface [(1.66 gal/square (60 ft <sup>2</sup> /gal) finish]
Sure-Weld or Sure-Weld HS	Sure-Seal 90-8-30A Bonding Adhesive	Contact (both sides)	0.83 gal/square per surface [1.66 gal/square (60 ft <sup>2</sup> /gal) finish]
Sure-Weld or Sure-Weld HS	Sure-Weld Bonding Adhesive	Contact (both sides)	0.83 gal/square per surface [(1.66 gal/square (60 ft <sup>2</sup> /gal) finish]
Sure-Weld FleeceBACK	Aqua Base 120 Bonding Adhesive	Wet lay (substrate)	0.83 gal/square (120 ft <sup>2</sup> /gal)
Sure-Weld FleeceBACK	HydroBond Water-Based Adhesive (HydroBond WB)	Wet lay (substrate)	0.75 to 1 gal/square (100 to 133 ft <sup>2</sup> /gal)
Sure-Weld FleeceBACK	Flexible FAST	Wet lay (substrate)	RIBBON spaced as noted herein or FULL Coverage = 1 gal/square or continuous ribbons, maximum 4-inch o.c. or splatter-applied at 0.5 gal/square (wet) = 4.7 lb/square (dry)
Sure-Weld FleeceBACK	Flexible FAST Dual-Tank (Flexible FAST DT)	Wet lay (substrate)	RIBBON spaced as noted herein or FULL Coverage = 1 gal/square, continuous ribbons, maximum 4-inch o.c. or splatter-applied at 0.4 gal/square (wet) = 3.7 lb/square (dry)
Sure-Weld AFX	Carlisle Cold Applied Adhesive (C-CAA)	Wet lay (substrate)	1.5 gal/square
Sure-Weld AFX	Hot asphalt	Wet lay (substrate)	25 lbs/square
Sure-Weld FleeceBACK® RL™	VELCRO® Brand Securable Solutions	Only for use over InsulBase RL or SecurShield HD RL substrates. Roof cover is broomed into place and rolled with 150 lb roller to establish contact.	

15A For single-ply membranes in System Type D-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.

15B For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates.

15C For System Types A-1, A-2, B-1, B-2 or C-1 involving Sure-Weld adhered in CAV-GRIP III Adhesive/Primer over SecurShield, SecurShield HD, SecurShield HD Plus, G-P Gypsum “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”, the top insulation layer may be optionally primed with Detec Systems “TruGround Conductive Primer”, roller-applied at 0.4 gal/square prior to membrane installation.

15D For System Types C-2, D-1 or D-2, the top insulation layer may be optionally primed with Detec Systems “TruGround Conductive Primer”, roller-applied at 0.4 gal/square prior to membrane installation. For System Type C-2, do not contaminate the induction weld stress plate with primer.

**16 Thermal Barrier and/or Vapor Barrier Options:**

16A Structural Concrete Decks: The lesser of the MDP listings below vs. that for the selected assembly applies.

STRUCTURAL CONCRETE DECK: VAPOR BARRIER FOLLOWED BY ADHESIVE-APPLIED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 3A OR 3B (NOTES 6,7&8)	MDP (PSF)*
		TYPE	APPLICATION		
C-VB-1.	702 Primer, 702 LV Primer, CAV-GRIP Primer or CAV-GRIP III LVOC-AP	VapAir Seal 725TR	Self-adhering	Flexible FAST (RIBBON)	-157.5
C-VB-2.	702 Primer, 702 LV Primer, CAV-GRIP Primer or CAV-GRIP III LVOC-AP	VapAir Seal 725TR	Self-adhering	Flexible FAST DT (RIBBON)	-172.5
C-VB-3.	702 Primer, 702 LV Primer, CAV-GRIP Primer or CAV-GRIP III LVOC-AP	VapAir Seal 725TR	Self-adhering	Flexible FAST (RIBBON, 6-inch o.c. or SPLATTER) or Flexible FAST DT (RIBBON, 6-inch o.c. or SPLATTER)	-270.0
C-VB-4.	CAV-GRIP Primer or CAV-GRIP III LVOC-AP	VapAir Seal 725TR	Self-adhering	Flexible FAST (FULL COVERAGE, 1 gal/square), Flexible FAST (SPLATTER) or Flexible FAST DT (SPLATTER)	-427.5
C-VB-5.	ASTM D41	SureMB 90 Base, SureMB 90 Poly Base or SureMB 120 Poly Base	Hot-asphalt	Hot asphalt at 25 lbs/square	-172.5

STRUCTURAL CONCRETE DECK: VAPOR BARRIER FOLLOWED BY ADHESIVE-APPLIED INSULATION						
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 3A OR 3B (NOTES 6,7&8)	MDP (PSF)*	
		TYPE	APPLICATION			
C-VB-6.	ASTM D41	SureMB 90TG or 120TG Base		Torch-applied	Hot asphalt at 25 lbs/square	-180.0
C-VB-7.	None	SureMB 90 Base, SureMB 90 Poly Base or SureMB 120 Poly Base		Carlisle Cold Applied Adhesive, 1-inch ribbons, 12-inch o.c.	Flexible FAST (RIBBON) or Flexible FAST DT (RIBBON)	-180.0
C-VB-8.	None	SureMB 90 Base, SureMB 90 Poly Base or SureMB 120 Poly Base		Carlisle Cold Applied Adhesive, 1-inch ribbons, 6-inch o.c.	Flexible FAST (RIBBON, 6-inch o.c. or SPLATTER) or Flexible FAST DT (RIBBON, 6-inch o.c. or SPLATTER)	-255.0
C-VB-9.	ASTM D41	SureMB 90TG or 120TG Base		Torch-applied	Flexible FAST (RIBBON) or Flexible FAST DT (RIBBON)	-307.5
C-VB-10.	ASTM D41	SureMB 90TG or 120TG Base		Torch-applied	Flexible FAST (RIBBON, 6-inch o.c. or SPLATTER) or Flexible FAST DT (RIBBON, 6-inch o.c. or SPLATTER)	-495.0

16B Tectum Decks: The lesser of the MDP listings below vs. that for the selected assembly applies.

TECTUM PLANK DECK: VAPOR BARRIER FOLLOWED BY ADHESIVE-APPLIED INSULATION						
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 5A (NOTES 6,7&8)	MDP (PSF)	
		TYPE	APPLICATION			
CWF-VB-1.	CAV-GRIP III Adhesive/Primer at 0.33 gal/square	SureMB 70 SA Base Ply or VapAir Seal 725TR		Self-adhering	Flexible FAST (FULL or SPLATTER) or Flexible FAST Dual-Tank (FULL or SPLATER)	-350.0

17 For System Types B-1, B-2, C-1, C-2, D-1 or D-2, VapAir Seal 725TR or VapAir Seal MD may be installed atop the roof deck prior to installation of the insulation and roof cover. Refer to [FM Loss Prevention Data Sheet 1-29](#) for design and installation limitations.

18 The following products are interchangeable within the scope of this Evaluation Report:

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	BY	LISTED PRODUCT HEREIN	ALTERNATE	FBC FILE
MEMBRANE	Carlisle SynTec	Sure-Weld	Sure-Weld EXTRA and Sure-Weld HS	FL14083
		Sure-Weld FleeceBACK	Includes 100, 115 and 135	
		Sure-Weld AFX	Includes AFX 120, AFX 135 and AFX 155	
ADHESIVES	Carlisle SynTec	OB500	OMG OlyBond 500 Adhesive Fastener	FL1608
ROOFING INSULATION	Carlisle SynTec	InsulBase	InsulBase NH, H-Shield, H-Shield NH	FL5968
		SecurShield	SecurShield NH, H-Shield CG, H-Shield CG NH	
		SecurShield HD	SecurShield HD NH, H-Shield HD, H-Shield HD NH	
		SecurShield HD Plus	SecurShield HD Plus NH, H-Shield HD90, H-Shield HD90 NH	
		SecurShield HD Composite	H-Shield HD Composite	
		StormBase	H-Shield NB	
	Georgia-Pacific Gypsum, LLC	DensDeck Prime	DensDeck StormX Prime Roof Board	FL1250

19 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads. ([Note 9](#) and [Note 10](#))

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Membrane	Application	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>									
W-1.	7/16-inch APA rated OSB; 2 ft spans	None	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
W-2.	7/16-inch APA rated OSB; 2 ft spans	None	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
W-3.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-67.5
W-4.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-67.5
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>									
W-5.	7/16-inch APA rated OSB; 2 ft spans	None	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-6.	7/16-inch APA rated OSB; 2 ft spans	None	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-7.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>	
			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Membrane	Application		
W-8.	Min. 15/32-inch APR rated CDX plywood; 2 ft spans	None	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase		Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>	
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>			
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>									
W-9.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Additional layer(s), min. 1.5-inch base insulation		Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5
W-10.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase		Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5
W-11.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Additional layer(s), min. 1.5-inch base insulation		Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-60.0
W-12.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase		Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-60.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>									
W-13.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Additional layer(s), min. 1.5-inch base insulation		Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
W-14.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5
W-15.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-60.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
W-16.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Additional layer(s), min. 1.5-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-37.5
W-17.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-37.5
W-18.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Additional layer(s), min. 1.5-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
W-19.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH, min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>								
W-20.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s), min. 1.5-inch base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD RL or min. 1.5-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™	-37.5

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
W-21.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s), min. 1.5-inch base insulation Coverboard: Min. 0.5-inch SecurShield HD RL or min. 1.5-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™	-60.0

**TABLE 1c: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>	Base Ply	Cap Ply	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>									
W-22.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s), min. 1.5-inch base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5
W-23.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s), min. 1.5-inch base insulation Coverboard: Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-60.0
<b>SURE-WELD AFX MEMBRANE APPLICATIONS:</b>									
W-24.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s), min. 1.5-inch base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt, Flexible FAST (RIBBON) or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-37.5
W-25.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	Min. 2-inch InsulBase, H-Shield, SecurShield or H-Shield CG	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s), min. 1.5-inch base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt, Flexible FAST (RIBBON) or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-60.0

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>							
W-26.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Carlisle InsulFast with SecurFast Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-30.0
W-27.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch InsulBase, H-Shield, SecurShield, H-Shield CG, SecurShield HD Composite or H-Shield HD Composite	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-37.5
W-28.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-37.5
W-29.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Carlisle InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-45.0*
W-30.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-45.0
W-31.	Min. 23/32-inch plywood; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or LVOG BA	-45.0*
W-32.	Min. 19/32-inch plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, InsulBase, SecurShield or ENRGY 3	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-45.0*
W-33.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch InsulBase, H-Shield, SecurShield, H-Shield CG, SecurShield HD Composite or H-Shield HD Composite	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-60.0
W-34.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-60.0
W-35.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 1.8 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-67.5
W-36.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOG BA or Sure-Weld BA	-75.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>							
W-37.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Carlisle InsulFast with SecurFast Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-30.0

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
W-38.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch InsulBase, H-Shield, SecurShield, H-Shield CG, SecurShield HD Composite or H-Shield HD Composite	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-37.5
W-39.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-37.5
W-40.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Carlisle InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-41.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0
W-42.	Min. 23/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-43.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 2-inch InsulBase, H-Shield, SecurShield, H-Shield CG, SecurShield HD Composite or H-Shield HD Composite	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
W-44.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
W-45.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 1.8 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
W-46.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0



**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
<b>RHINO BOND SYSTEMS:</b>						
W-47.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 6 ft <sup>2</sup> (2 x 3 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-22.5*
W-48.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
W-49.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-37.5*
W-50.	Min. 19/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 6 ft <sup>2</sup> (2 x 3 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-45.0*
W-51.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 2.7 ft <sup>2</sup> (12 parts per 4x8 ft board)	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
W-52.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	6-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
W-53.	Min. 19/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 2.7 ft <sup>2</sup> (12 parts per 4x8 ft board)	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
<b>ISOWELD INDUCTION WELDING SYSTEM:</b>						
W-54.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 6 ft <sup>2</sup> (2 x 3 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-22.5*
W-55.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-30.0
W-56.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-37.5*
W-57.	Min. 19/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 6 ft <sup>2</sup> (2 x 3 ft grid pattern)	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-45.0*

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
W-58.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 2.7 ft <sup>2</sup> (12 parts per 4x8 ft board)	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-45.0
W-59.	Min. 15/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	6-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-60.0
W-60.	Min. 19/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 2.7 ft <sup>2</sup> (12 parts per 4x8 ft board)	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-67.5

**TABLE 1F: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>		Roof Cover <a href="#">(Note 15)</a>						MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
W-61.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	One or more layers, any combination	Prelim. Attach	Sure-Weld, min. 60-mil or Sure-Weld FleeceBACK FR	Carlisle HP-X Fastener and Piranha Plate	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-22.5
W-62.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	One or more layers, any combination	Prelim. Attach	Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-37.5
W-63.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	One or more layers, any combination	Prelim. Attach	Sure-Weld, min. 60-mil or Sure-Weld FleeceBACK FR	Carlisle HP-X Fastener and Piranha Plate	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-45.0
W-64.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	One or more layers, any combination	Prelim. attach	Sure-Weld, min. 60-mil	Carlisle HP-Xtra Fastener and Piranha XTRA Plate	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-45.0
W-65.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	One or more layers, any combination	Prelim. attach	Sure-Weld FleeceBACK FR	Carlisle HP-Xtra Fastener and Piranha XTRA Plate	6-inch o.c.	5.5-inch	54.5-inch o.c.	1.5-inch outside	-45.0
W-66.	Min. 19/32-inch plywood or wood plank; 2-ft spans	One or more layers, any combination	Prelim. attach	Sure-Weld	Carlisle HP-X Fastener and Piranha Plate or #15 Roofgrip with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-52.5
W-67.	Min. 19/32-inch plywood or wood plank; 2-ft spans	One or more layers, any combination	Prelim. attach	Sure-Weld	Carlisle HP-X Fastener and Piranha Plate or #15 Roofgrip with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	66.5-inch o.c.	1.5-inch outside	-67.5

**TABLE 1G: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation <a href="#">(Note 3, Note 13)</a>		Base Sheet			Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach	Base Sheet	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Membrane	Adhesive	
W-68.	Min. 19/32-inch plywood; 2-ft spans	One or more layers, any combination	Loose-laid	Atlas Summit Synthetic Underlayment	Carlisle #12 InsulFast and Sure-Seal Seam Fastening Plate	12-inch o.c. at the 4-inch laps and 12-inch o.c. at three, equally spaced rows in the center of the sheet.	Sure-Weld SAT-TPO	Self-adhered	-120.0

**TABLE 1H: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Thermal Barrier		Roof Cover <a href="#">(Note 15)</a>						MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
W-69.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	(Optional) Any approved thermal barrier	Prelim. Attach	Sure-Weld, min. 60-mil or Sure-Weld FleeceBACK FR	Carlisle HP-X Fastener and Piranha Plate	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-22.5
W-70.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	(Optional) Any approved thermal barrier	Prelim. Attach	Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-37.5
W-71.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	(Optional) Any approved thermal barrier	Prelim. Attach	Sure-Weld, min. 60-mil or Sure-Weld FleeceBACK FR	Carlisle HP-X Fastener and Piranha Plate	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-45.0
W-72.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans	(Optional) Any approved thermal barrier	Prelim. Attach	Sure-Weld, min. 60-mil	Carlisle HP-Xtra Fastener and Piranha XTRA Plate	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-45.0
W-73.	Min. 19/32-inch CDX plywood or wood plank; 2 ft spans	(Optional) Any approved thermal barrier	Prelim. Attach	Sure-Weld FleeceBACK FR	Carlisle HP-Xtra Fastener and Piranha XTRA Plate	6-inch o.c.	5.5-inch	54.5-inch o.c.	1.5-inch outside	-45.0
W-74.	Code compliant sheathing over nominal No. 2 wood trusses; 2 ft span	(Optional) Any approved thermal barrier	Prelim. Attach	Sure-Weld or Sure-Weld FleeceBACK FR	Carlisle HP-X Fastener and Piranha Plate or #15 Roofgrip with 2-3/8" Eyehook Seam Plate (AccuSeam) installed through wood sheathing to engage structural members	6-inch o.c.	5.5-inch	48-inch o.c. (over structural members)	1.5-inch outside	-75.0

**TABLE 1I: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Thermal Barrier		Base Sheet			Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach	Base Sheet	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Membrane	Adhesive	
W-75.	Min. 19/32-inch plywood; 2-ft spans	(Optional) Any approved thermal barrier	Loose-laid	Atlas Summit Synthetic Underlayment	Carlisle #12 InsulFast and Sure-Seal Seam Fastening Plate	12-inch o.c. at the 4-inch laps and 12-inch o.c. at three, equally spaced rows in the center of the sheet.	Sure-Weld SAT-TPO	Self-adhered	-120.0

**TABLE 1J: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE G: OPTIONAL INSULATION, LOOSE-LAID ROOF COVER, PRESSURE EQUALIZING VENT**

System No.	Deck <a href="#">(Note 1)</a>	Air Barrier	Insulation	Underlayment	Roof Cover		MDP <a href="#">(psf)</a>
					Type	Attach	
W-76.	Min. 15/32-inch, Type B-C plywood	All joints and penetrations sealed with VapAir Seal 725TR in accordance with Carlisle requirements.	(Optional) Any fire classified roof insulation and/or coverboard combination, any thickness, loose-laid with staggered joints	12-inch wide strips of polypropylene, air permeable filter fabric, loose laid in a crossing pattern, connecting the VacuSeal Vents	Sure-Weld or Sure-Weld HS	VacuSeal Vent installed in accordance with Carlisle instructions, spaced maximum 50 ft o.c.	-97.5

**TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Vapor Barrier	Base Insulation Layer		Top Insulation Layer		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Membrane	Application	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>									
SC-1	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-52.5
SC-2	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-75.0
SC-3	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield, SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA or Sure-Weld BA	-82.5
SC-4	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase, SecurShield and/or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-82.5
SC-5	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-82.5
SC-6	Min. 22 ga., type B, Grade 33 steel	None	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	None	N/A	Sure-Weld	CAV-GRIP III AP or Sure-Weld BA	-105.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>									
SC-7	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase, SecurShield and/or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-82.5

**TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Vapor Barrier	Base Insulation Layer		Top Insulation Layer		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Membrane	Application	
SC-8	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase, SecurShield and/or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-82.5
SC-9	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-82.5
SC-10	Min. 22 ga., type B, Grade 33 steel	None	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-105.0
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>									
SC-11	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	None	N/A	Sure-Weld FleeceBACK® RL™		-82.5
SC-12	Min. 22 ga., type B, Grade 33 steel	(Optional) VapAir Seal MD, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD RL or min. 1.5-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™		-82.5
SC-13	Min. 22 ga., type B, Grade 33 steel	None	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c. @ every deck flange)	Min. 0.5-inch SecurShield HD RL	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK® RL™		-105.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>								
SC-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.7 ft <sup>2</sup>	Min. 1.5-inch Insulam (OSB)	Flexible FAST (RIBBON, 6-inch o.c.)	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-37.5*
SC-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	Flexible FAST (RIBBON)	Sure-Weld / Sure-Weld BA	-37.5*
SC-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 2.0-inch Insulfoam HD Composite	Flexible FAST (RIBBON, 6-inch o.c.)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-45.0
SC-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-52.5
SC-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Seal 90-8-30A BA	-52.5
SC-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-60.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-60.0
SC-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-67.5
SC-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-75.0
SC-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld / Sure-Seal 90-8-30A BA	-75.0
SC-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-82.5
SC-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-82.5
SC-28	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-82.5



**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-29	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-90.0
SC-30	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-112.5
SC-31	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld (min. 60-mil) / CAV-GRIP III AP or Sure-Weld BA	-135.0
SC-32	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck or DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3 followed by Min. 0.25-inch DensDeck Prime	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-37.5*
SC-33	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5*
SC-34	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 2.0 ft <sup>2</sup>	Additional layers of base insulation	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-45.0*
SC-35	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 2.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 1.5-inch SecurShield HD Composite	OB500	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-36	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 2.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck, DensDeck Prime	OB500	Sure-Weld / Aqua Base 120 or Sure-Weld BA	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-37	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 2.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	OB500	Sure-Weld / CAV-GRIP III AP	-45.0*
SC-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck or DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-45.0*
SC-39	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 4.0 ft <sup>2</sup>	Additional layers of base insulation	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-45.0*
SC-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 4.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 1.5-inch SecurShield HD Composite	OB500	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 4.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck, DensDeck Prime	OB500	Sure-Weld / Aqua Base 120 or Sure-Weld BA	-45.0*
SC-42	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 4.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	OB500	Sure-Weld / CAV-GRIP III AP	-45.0*
SC-43	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-44	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 2.7 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-45	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-60.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
SC-46	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.7 ft <sup>2</sup>	Min. 1.5-inch Insulam (OSB)	Flexible FAST (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-37.5*
SC-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3, or AC Foam II	Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5*
SC-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck or DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch Kingspan GreenGuard Extruded Polystyrene followed by min. 0.25-inch DensDeck Prime	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5*
SC-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3, or AC Foam II	Note 2	1 per 2.0 ft <sup>2</sup>	Additional layers of base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-50	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	Min. 1.5-inch additional layers of base insulation or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	Min. 1-inch additional layers of base insulation or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-52	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-53	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-54	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.7 ft <sup>2</sup>	Min. 1.5-inch Insulam (OSB)	Flexible FAST (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / AquaBase 120 or Flexible FAST or Flexible FAST DT (FULL)	-37.5*
SC-55	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch DensDeck followed by min. 2.0-inch Insulfoam VIII	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 2.0-inch Insulfoam HD Composite	Flexible FAST (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL).	-45.0*
SC-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch InsulBase, SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-60	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch InsulBase, SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0
SC-62	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-63	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
SC-64	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-60.0
SC-65	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
SC-66	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-67.5
SC-67	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0
SC-68	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 1.0-inch base insulation or minimum 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-82.5
SC-69	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-82.5
SC-70	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-82.5

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-71	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-82.5
SC-72	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-82.5
SC-73	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-90.0
SC-74	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime, SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-112.5
SC-75	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5
SC-76	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-135.0
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>								
SC-77	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD RL	Flexible FAST or Flexible FAST DT (FULL or SPLATTER)	Sure-Weld FleeceBACK® RL™	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-78	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD RL	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK® RL™	-52.5
SC-79	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD RL	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK® RL™	-82.5
SC-80	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD RL	Flexible FAST or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK® RL™	-112.5

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>	Base Ply	Top Ply	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>									
SC-81	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90 Base, SureMB 90 Poly Base or SureMB 120 Poly Base / US Ply Duraflex 901 Premium SBS Modified Adhesive	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-82	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-83	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-75.0
<b>SURE-WELD AFX MEMBRANE APPLICATIONS:</b>									
SC-84	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-45.0*
SC-85	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-60.0
SC-86	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-45.0*
SC-87	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-45.0*



**TABLE 2c: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Fastener (Note 2, Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Top Ply	
SC-88	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-45.0*
SC-89	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-45.0*
SC-90	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, 6-inch o.c.	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-60.0

**TABLE 2d: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Primer	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 2, Note 11)	Attach			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>												
SC-91	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	CAV-GRIP Primer	VapAir Seal 725TR, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-92	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layers base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-45.0*
SC-93	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	CAV-GRIP Primer	VapAir Seal 725TR, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST (RIBBON)	(Optional) Additional layers base insulation	Flexible FAST (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-52.5

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Thermal Barrier			Primer	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fasten <a href="#">(Note 2, Note 11)</a>	Attach			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-94	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 1.6 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-67.5
SC-95	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 1.6 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-67.5
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>												
SC-96	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	CAV-GRIP Primer	VapAir Seal 725TR, self-adhering	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-97	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	CAV-GRIP Primer	VapAir Seal 725TR, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-45.0*
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>												
SC-98	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	CAV-GRIP Primer	VapAir Seal 725TR, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Thermal Barrier			Primer	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fasten <a href="#">(Note 2, Note 11)</a>	Attach			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-99	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layers base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-100	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	CAV-GRIP Primer	VapAir Seal 725TR, self-adhering	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-52.5
SC-101	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 1.6 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
SC-102	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 1.6 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>												
SC-103	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 1.6 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld FleeceBACK® RL™	-67.5

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Thermal Barrier			Primer	Vapor Barrier	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
		Type	Fasten <a href="#">(Note 2, Note 11)</a>	Attach			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>		
SC-104	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	InsulFast with Insulation Fastening Plate	1 per 1.6 ft <sup>2</sup>	None	SureMB 90TG or SureMB 120TG, torch-applied	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD RL or min. 1.5-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™	-67.5

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>							
SC-105	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.25-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-30.0*
SC-106	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 5.3 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-30.0*
SC-107	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Steel: InsulFast with ACCUTRAC Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with ACCUTRAC Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-30.0*
SC-108	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Trufast SIP LD Fastener	1 per 3.2 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-37.5*
SC-109	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch ACFoam II or ENRGY 3	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / Aqua Base 120 or Sure-Weld BA	-37.5*
SC-110	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or LVOC BA	-37.5*
SC-111	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 2.7 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
SC-112	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5*
SC-113	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch thick, one or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	InsulFAST Fastener with SecurFAST Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-37.5*
SC-114	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 5.3 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5*
SC-115	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.625-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 5.3 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5*
SC-116	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.625-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	OMG #12 Standard, OMG #14 Heavy Duty, OMG XHD, OMG #12 Roofgrip, OMG #14 Roofgrip or OMG #15 Roofgrip with OMG 3 in. Galvalume Steel Plate	1 per 5.3 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-45.0*
SC-117	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	InsulFAST Fastener with SecurFAST Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-45.0*
SC-118	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 3.2 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-119	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	OMG #12 Standard, OMG #14 Heavy Duty, OMG XHD, OMG #12 Roofgrip, OMG #14 Roofgrip or OMG #15 Roofgrip with OMG 3 in. Galvalume Steel Plate	1 per 3.2 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-45.0*
SC-120	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	HP Fastener with Insulation Fastening Plate	1 per 3.2 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-45.0*
SC-121	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
SC-122	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-123	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-124	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.50-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-125	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 5.3 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-126	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-127	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Trufast SIP LD Fastener	1 per 2.7 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-45.0*
SC-128	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 3.6 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP or Sure-Weld BA	-45.0*
SC-129	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, or Sure-Weld BA	-45.0*
SC-130	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, or Sure-Weld BA	-45.0*
SC-131	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 3.2 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
SC-132	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch SecurShield HD Composite	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-133	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, or Sure-Weld BA	-45.0*
SC-134	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch SecurShield HD Composite	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-135	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-45.0
SC-136	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Steel: InsulFast with ACCUTRAC Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with ACCUTRAC Fastening Plate	1 per 2.9 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-45.0*
SC-137	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-138	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
SC-139	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.25-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-52.5
SC-140	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Weld / Aqua Base 120	-52.5
SC-141	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-60.0
SC-142	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-60.0

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
SC-143	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 1.0 ft <sup>2</sup>	Sure-Weld / Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-60.0
SC-144	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-67.5
SC-145	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	OMG #12 Standard, OMG #14 Heavy Duty, OMG XHD, OMG #12 Roofgrip, OMG #14 Roofgrip or OMG #15 Roofgrip with OMG 3 in. Galvalume Steel Plate	1 per 1.3 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-67.5
SC-146	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-75.0
SC-147	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 2.0-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-75.0
SC-148	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 2.0-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP	-75.0
SC-149	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch SecurShield HD Composite	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-75.0
SC-150	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-75.0
SC-151	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or LVOC BA	-75.0
SC-152	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-82.5
SC-153	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP	-82.5



**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
SC-154	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	HP Fastener with Insulation Fastening Plate	1 per 1.0 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-97.5
SC-155	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / Sure-Weld BA	-97.5
SC-156	Min. 20 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-112.5
SC-157	Min. 18 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-112.5
SC-158	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA or LVOC BA	-112.5
SC-159	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, ENRGY 3, Polyiso HP-N, ACFoam II or Polyiso HP-W	Min. 2-inch SecurShield HD Composite	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-112.5
SC-160	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 2.0-inch SecurShield HD Composite	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-112.5
SC-161	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 2-inch SecurShield	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-120.0
SC-162	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or LVOC BA	-127.5
SC-163	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-127.5
SC-164	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, ENRGY 3, Polyiso HP-N, ACFoam II or Polyiso HP-W	Min. 2-inch InsulBase or SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or Sure-Weld BA	-127.5

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
SC-165	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, ENRGY 3, Polyiso HP-N, ACFoam II or Polyiso HP-W	Min. 2-inch SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / LVOC BA	-127.5
SC-166	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 2.0-inch SecurShield	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP or LVOC BA	-127.5
SC-167	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, ENRGY 3, Polyiso HP-N, ACFoam II or Polyiso HP-W	Min. 2.5-inch SecurShield HD Composite	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-150.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>							
SC-168	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-169	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch InsulBase, SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-170	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch SecurShield HD Composite	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-171	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>							
SC-172	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.25-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-30.0*
SC-173	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 5.3 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-30.0*
SC-174	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Steel: InsulFast with ACCUTRAC Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with ACCUTRAC Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-30.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
SC-175	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 5.3 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-37.5*
SC-176	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 2.7 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-37.5*
SC-177	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch InsulBase, SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-178	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch InsulBase, SecurShield	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 3.2 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-179	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch InsulBase	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0
SC-180	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-181	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch SecurShield HD Composite	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-182	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch SecurShield HD Composite	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-183	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-184	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 3.2 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
SC-185	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-186	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 5.3 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-187	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-188	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Steel: InsulFast with ACCUTRAC Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with ACCUTRAC Fastening Plate	1 per 2.9 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-189	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-190	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.25-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
SC-191	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
SC-192	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / FAST DT or Flexible FAST DT (FULL)	-60.0
SC-193	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-60.0
SC-194	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
SC-195	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 2.0-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-75.0
SC-196	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch SecurShield HD Composite	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-75.0
SC-197	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0
SC-198	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-75.0
SC-199	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-75.0
SC-200	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-82.5
SC-201	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 15/32-inch OSB	Note 2	1 per 1.9 ft <sup>2</sup> (Carlisle A-27F)	Sure-Weld FleeceBACK / Aqua Base 120, HydroBond WB	-82.5
SC-202	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	0.5-inch EcoStorm VSH	Steel: InsulFast Fastener and Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-82.5
SC-203	Min. 20 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5
SC-204	Min. 18 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5
SC-205	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch InsulBase, HP-N or HP-W, SecurShield, ENRGY 3 or AC Foam II	Min. 0.5-inch SecurShield HD Plus or EcoStorm VSH	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 2, Note 11)	Attach		
SC-206	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, ENRGY 3, Polyiso HP-N, ACFoam II or Polyiso HP-W	Min. 2-inch SecurShield HD Composite	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5
SC-207	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-127.5
SC-208	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, ENRGY 3, Polyiso HP-N, ACFoam II or Polyiso HP-W	Min. 2-inch InsulBase or SecurShield	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-127.5
SC-209	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 2-inch SecurShield	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-135.0
SC-210	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-135.0
SC-211	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-135.0
SC-212	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	0.5-inch EcoStorm VSH	Steel: InsulFast Fastener and Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK (min. 60-mil) / Flexible FAST or Flexible FAST DT (FULL)	-135.0
SC-213	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, ENRGY 3, Polyiso HP-N, ACFoam II or Polyiso HP-W	Min. 2.5-inch SecurShield HD Composite	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-150.0
SC-214	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch SecurShield HD Composite	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK / Flexible FAST DT (FULL)	-157.5
<b>SURE-WELD SAT-TPO MEMBRANE APPLICATIONS:</b>							
SC-215	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 2-inch Insulfoam SP	Note 2	1 per 2.7 ft <sup>2</sup>	Sure-Weld SAT-TPO, self-adhered	-30.0*
SC-216	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 2-inch Insulfoam SP	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld SAT-TPO, self-adhered	-45.0*

**TABLE 2E: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
SC-217	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min 7/16-inch APA or TECO rated OSB	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld SAT-TPO, self-adhered	-45.0*
SC-218	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld SAT-TPO, self-adhered	-45.0*
SC-219	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 2.0-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld SAT-TPO, self-adhered	-60.0
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>							
SC-220	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch InsulBase RL	Steel: InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Weld FleeceBACK® RL™	-45.0*
SC-221	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min., 1.5-inch InsulBase, SecurShield, loose-laid	Min. 0.5-inch SecurShield HD RL	Steel: InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Weld FleeceBACK® RL™	-45.0*
SC-222	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch InsulBase RL	Steel: InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Weld FleeceBACK® RL™	-75.0

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer <a href="#">(Note 3, Note 13)</a>	Top Insulation Layer			Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach	Base Ply	Top Ply	
<b>SURE-WELD AFX MEMBRANE APPLICATIONS:</b>								
SC-223	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-67.5
SC-224	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-75.0
SC-225	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-75.0
SC-226	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-120.0

**TABLE 2G: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
<b>RHINO BOND SYSTEMS:</b>						
SC-227	Min. 22 ga., type B, Grade 33 steel	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note B</a>	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
SC-228	Min. 22 ga., type B, Grade 33 steel, 7 ft span, HILTI X-HSN 24, 6" o.c. Side laps HILTI S-SLC 01 M HWH, 24" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-229	Min. 22 ga., type B, Grade 33 steel, 7 ft span, 5/8" puddle welds, 6" o.c. Side laps ITW HWH #12 Teks 1, 24" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5



**TABLE 2G: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
SC-230	Min. 22 ga., type B, Grade 33 steel	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note B</a>	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-231	Min. 22 ga., type B, Grade 40 steel; 6 ft spans; 5/8" puddle welds 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-232	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 3.2 ft <sup>2</sup> (10 parts per 4 x 8 ft board)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-233	Min. 22 ga., type B, Grade 80 steel	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note B</a>	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
SC-234	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 2.7 ft <sup>2</sup> (12 parts per 4 x 8 ft board)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
SC-235	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 2.0 ft <sup>2</sup> (16 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-97.5
SC-236	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	18-inch o.c. in rows 60-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
SC-237	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	12-inch o.c. in rows 120-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
SC-238	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	6-inch o.c. in rows 120-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-37.5
SC-239	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	12-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-37.5

**TABLE 2G: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
SC-240	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	12-inch o.c. in rows 60-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
SC-241	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	6-inch o.c. in rows 120-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
SC-242	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Carlisle HP-X Fastener or Dekfast DF-#15-PH3 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	6-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
<b>ISOWELD INDUCTION WELDING SYSTEM:</b>						
SC-243	Min. 22 ga., type B, Grade 33 steel	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note B</a>	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-45.0
SC-244	Min. 22 ga., type B, Grade 33 steel, 7 ft span, HILTI X-HSN 24, 6" o.c. Side laps HILTI S-SLC 01 M HWH, 24" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-52.5
SC-245	Min. 22 ga., type B, Grade 33 steel, 7 ft span, 5/8" puddle welds, 6" o.c. Side laps ITW HWH #12 Tekes 1, 24" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-52.5
SC-246	Min. 22 ga., type B, Grade 33 steel	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note B</a>	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-52.5
SC-247	Min. 22 ga., type B, Grade 40 steel; 6 ft spans; 5/8" puddle welds 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-52.5
SC-248	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 6 ft <sup>2</sup> 2x3-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-52.5

**TABLE 2G: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
SC-249	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Carlisle InsulFAST Fasteners or SFS Dekfast DF-#12-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 6 ft <sup>2</sup> 2x3-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-52.5
SC-250	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> 2x2-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-60.0
SC-251	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Carlisle InsulFAST Fasteners or SFS Dekfast DF-#12-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> 2x2-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-60.0
SC-252	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 3.0 ft <sup>2</sup> 1.5 x 2-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-82.5
SC-253	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Carlisle InsulFAST Fastener or SFS Dekfast DF-#12-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 3.0 ft <sup>2</sup> 1.5 x 2-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-82.5
SC-254	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, 4x8 ft dimension, one or more layers, any combination	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 2.25 ft <sup>2</sup> 1.5 x 1.5-ft grid (first row of fasteners spaced 0.5 ft from long edges and 1 ft from the short edge)	Sure-Weld or Sure-Weld EXTRA bonded to SFS <i>isoweld</i> ® TPO Plate with SFS <i>isoweld</i> ® 3000 stand-up tool.	-97.5
SC-255	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 2.0 ft <sup>2</sup> (16 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-97.5
SC-256	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	12-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-37.5
SC-257	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Carlisle InsulFAST Fastener or SFS Dekfast DF-#12-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	12-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-37.5
SC-258	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	6-inch o.c. in rows 120-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-37.5
SC-259	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	12-inch o.c. in rows 60-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-45.0
SC-260	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	6-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-90.0

**TABLE 2G: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density		
SC-261	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Carlisle InsulFAST Fastener or SFS Dekfast DF-#12-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	6-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-90.0
Notes:	<p>A. For these assemblies, the 8 ft insulation board length is placed perpendicular to the steel deck ribs.</p> <p>B. The plate/fastener combination offset 12 inch from adjacent rows.</p> <p>C. For these assemblies, the 8 ft insulation board length is placed perpendicular to the steel deck ribs and each row of insulation is staggered by 1 foot.</p>					

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)		Roof Cover (Note 15A)						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
<b>BARE-BACK MEMBRANE APPLICATIONS:</b>										
SC-262	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA, Sure-Weld HS	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-30.0
SC-263	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-30.0
SC-264	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-30.0
SC-265	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ ¼"-14x1" long self-tapping hex-head screw	Min. 1-inch, one or more layers, any combination (optional for recover) followed by 3/8-inch Insulfoam R-Tech EPS or Fan-Fold	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-Xtra Fastener and Piranha Xtra Plate	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-30.0
SC-266	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	18-inch o.c.	5.5-inch	66.5-inch o.c.	1.5-inch outside	-30.0

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>		Roof Cover <a href="#">(Note 15A)</a>						MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-267	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener and Piranha Plate	12-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-37.5
SC-268	Min. 22 ga., type B, Grade 40 steel; 6 ft spans; 5/8" puddle welds 6" o.c. or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-37.5
SC-269	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld HS	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-37.5
SC-270	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-37.5
SC-271	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-37.5
SC-272	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld HS	Carlisle HP-Xtra Fastener and Piranha Xtra Plate (steel only) or Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-37.5
SC-273	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	12-inch o.c.	5-inch	91-inch o.c.	1.5-inch outside	-37.5
SC-274	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ 1/4"-14x1" long self-tapping hex-head screw	Min. 1-inch, one or more layers, any combination	Prelim. Attach	Sure-Weld (min. nominal 60-mil) or Sure-Weld EXTRA	Carlisle HP-Xtra Fastener and Piranha Xtra Plate	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-37.5
SC-275	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c.	5.5-inch	66.5-inch o.c.	1.5-inch outside	-37.5

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)		Roof Cover (Note 15A)						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-276	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ 1/4"-14x1" long self-tapping hex-head screw or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-45.0
SC-277	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-Xtra Fastener and Piranha Xtra Plate (steel only) or Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-45.0
SC-278	Min. 18 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-45.0
SC-279	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-45.0
SC-280	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ 1/4"-14x1" long self-tapping hex-head screw or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. nominal 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-45.0
SC-281	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-45.0
SC-282	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-Xtra Fastener and Piranha Xtra Plate	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-45.0
SC-283	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-45.0
SC-284	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-45.0

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)		Roof Cover (Note 15A)						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-285	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	12-inch o.c.	5-inch	67-inch o.c.	1.5-inch outside	-45.0
SC-286	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ ¼"-14x1" long self-tapping hex-head screw or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	66.5-inch o.c.	1.5-inch outside	-45.0
SC-287	Min. 22 ga., type B, Grade 33 steel, 7 ft span, HILTI X-HSN 24, 6" o.c. Side laps HILTI S-SLC 01 M HWH, 24" o.c.	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. nominal 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener and Piranha Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-52.5
SC-288	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-52.5
SC-289	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-52.5
SC-290	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ ¼"-14x1" long self-tapping hex-head screw	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. nominal 60-mil) or Sure-Weld EXTRA	Carlisle HP-Xtra Fastener and Piranha Xtra Plate	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-52.5
SC-291	Min. 22 ga., type B, Grade 40 steel; 6 ft spans; 5/8" puddle welds 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-52.5
SC-292	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ ¼"-14x1" long self-tapping hex-head screw or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination (optional for recover) followed by 3/8-inch Insulfoam R-Tech EPS or Fan-Fold	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-52.5

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)		Roof Cover (Note 15A)						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-293	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-52.5
SC-294	Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ 1/4"-14x1" long self-tapping hex-head screw or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-52.5
SC-295	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	42.5-inch o.c.	1.5-inch outside	-52.5
SC-296	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c.	5.5-inch	42.5-inch o.c.	1.5-inch outside	-52.5
SC-297	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	Prelim. Attach	Sure-Weld (min. 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	6-inch o.c.	5.5-inch	139.5-inch o.c.	1.5-inch outside	-60.0
SC-298	Min. 22 ga., type B, Grade 33 steel, 7 ft span, 5/8" puddle welds, 6" o.c. Side laps ITW HWH #12 Tekes 1, 24" o.c. or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. nominal 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0
SC-299	Recover only: Min. 22 ga., type B, Grade 33 steel, 6 ft span, 5/8" diameter puddle welds 6" o.c., side laps secured 24" o.c. w/ 1/4"-14x1" long self-tapping hex-head screw or min. 2,500 psi structural concrete	3/8-inch Insulfoam R-Tech EPS or Fan-Fold	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0
SC-300	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-Xtra Fastener and Piranha Xtra Plate (steel only) or Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0



**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)		Roof Cover (Note 15A)						MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-301	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0
SC-302	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0
SC-303	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-60.0
SC-304	Recover only: Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	3/8-inch Insulfoam R-Tech EPS or Fan-Fold	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-60.0
SC-305	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld HS	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-60.0
SC-306	Min. 22 ga., type B, 55 ksi steel, 6 ft span, 5/8" puddle welds 6" o.c. or min. 2,500 psi structural concrete	Min. 300 psi, min 2-inch thick cellular lightweight concrete	N/A	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only) or Carlisle HD 14-10 (concrete only) and Piranha Plate (through to engage structural deck)	6-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-67.5
SC-307	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-67.5
SC-308	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-67.5
SC-309	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	9-inch o.c.	5.5-inch	54.5-inch o.c.	1.5-inch outside	-75.0

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>		Roof Cover <a href="#">(Note 15A)</a>						MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-310	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	42.5-inch o.c.	1.5-inch outside	-82.5
SC-311	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c.	5.5-inch	42.5-inch o.c.	1.5-inch outside	-82.5
SC-312	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	54.5-inch o.c.	1.5-inch outside	-90.0
SC-313	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Trufast #15 EHD Fastener (steel only), Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c.	5.5-inch	42.5-inch o.c.	1.5-inch outside	-112.5
<b>SURE-WELD FLEECEBACK APPLICATIONS:</b>										
SC-314	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld FleeceBACK	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-30.0
SC-315	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld FleeceBACK	Carlisle HP-Xtra Fastener and Piranha Xtra Plate (steel only) or Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	-37.5
SC-316	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld FleeceBACK	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-37.5
SC-317	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld FleeceBACK	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate or #15 Roofgrip (steel only) with 2-3/8" Eyehook Seam Plate (AccuSeam)	6-inch o.c.	5.5-inch	90.5-inch o.c.	1.5-inch outside	-60.0

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER (RUSS STRIPS)**

System No.	Deck (Note 1)	Insulation		Roof Cover (Note 15A)			MDP (psf)
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	Attachment	
SC-318	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 138-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming with TPO Primer at the strip location, then rolling into place with a hand roller.	-30.0
SC-319	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 114-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming with TPO Primer at the strip location, then rolling into place with a hand roller.	-45.0
SC-320	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 90-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming with TPO Primer at the strip location, then rolling into place with a hand roller.	-52.5
SC-321	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 120-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming with HP-250 Primer at the strip location, then rolling into place with a hand roller.	-60.0
SC-322	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP-X Fastener (steel only), Carlisle HD 14-10 (concrete only) or CD-10 (concrete only) Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 60-inch o.c. The plates are centered over each strip and fastened 12-inch o.c. Roof cover adhered to each strip by first priming with HP-250 Primer at the strip location, then rolling into place with a hand roller.	-60.0

**TABLE 2J: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-3: INSULATED, MECHANICALLY ATTACHED AND INDUCTION WELDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)		Roof Cover (Note 15A, Note 15B)									MDP (psf)	
		Type	Attach (Note 5)	Membrane	Fastener (Note 11)	In-Lap Fastening					Induction Weld Fastening			
						Stress Plate	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	Stress Plate	Spacing		Roof Cover Securement
SC-323	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, one or more layers, any combination	Prelim. attach	Sure-Weld (min. 60-mil) or Sure-Weld EXTRA	Carlisle HP-X Fastener	Piranha Plate	12-inch o.c.	5.5-inch	114.5-inch o.c.	1.5-inch outside	RhinoBond Plate-TPO	One (1) row beneath the roof cover and between the laps, 12-inch o.c.	induction welded with RhinoBond tool	-45.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Membrane	Application	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>								
C-1.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Aqua Base 120 BA	-45.0
C-2.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Aqua Base 120 BA	-45.0
C-3.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Aqua Base 120 BA	-157.5
C-4.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Aqua Base 120 BA	-45.0
C-5.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Aqua Base 120 BA	-45.0
C-6.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-157.5
C-7.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST (RIBBON)	Sure-Weld	CAV-GRIP III AP	-352.5
C-8.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-277.5
C-9.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (FULL)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (FULL)	Sure-Weld	CAV-GRIP III AP	-352.5
C-10.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-157.5
C-11.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-232.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Membrane	Application	
C-12.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-157.5
C-13.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-157.5
C-14.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-187.5
C-15.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-127.5
C-16.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	Sure-Weld	CAV-GRIP III AP	-397.5
C-17.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-157.5
C-18.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld	CAV-GRIP III AP	-397.5
C-19.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-277.5
C-20.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld	CAV-GRIP III AP	-397.5
C-21.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld	CAV-GRIP III AP	-390.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-22.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-157.5
C-23.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld	CAV-GRIP III AP	-352.5
C-24.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-277.5
C-25.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld	CAV-GRIP III AP	-352.5
C-26.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-157.5
C-27.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP	-187.5
C-28.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-157.5
C-29.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-157.5
C-30.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-127.5
C-31.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-157.5
C-32.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-127.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-33.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation</u> : Min. 1.6-inch Optim-R <u>Coverboard</u> : Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	Sure-Weld	LVOC BA	-397.5
C-34.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-157.5
C-35.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld	LVOC BA	-397.5
C-36.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-277.5
C-37.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld	LVOC BA	-397.5
C-38.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld	LVOC BA	-390.0
C-39.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-157.5
C-40.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld	LVOC BA	-352.5
C-41.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-277.5
C-42.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld	LVOC BA	-352.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-43.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	LVOC BA	-157.5
C-44.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-45.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST (RIBBON)	Sure-Weld	Sure-Weld BA	-352.5
C-46.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-277.5
C-47.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (FULL)	(Optional) Additional layer(s) base insulation	Flexible FAST (FULL)	Sure-Weld	Sure-Weld BA	-352.5
C-48.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-49.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-232.5
C-50.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	Flexible FAST (RIBBON)	Sure-Weld	Sure-Weld BA	-67.5
C-51.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-52.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-53.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-187.5
C-54.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Insulation: Min. 1.6-inch Optim-R Coverboard: Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-127.5



**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Membrane	Application	
C-55.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation</u> : Min. 1.6-inch Optim-R <u>Coverboard</u> : Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	Sure-Weld	Sure-Weld BA	-397.5
C-56.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-57.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld	Sure-Weld BA	-397.5
C-58.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-277.5
C-59.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld	Sure-Weld BA	-397.5
C-60.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld	Sure-Weld BA	-390.0
C-61.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-62.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld	Sure-Weld BA	-352.5
C-63.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-277.5
C-64.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld	Sure-Weld BA	-352.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-65.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-66.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-157.5
C-67.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-187.5
C-68.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Sure-Weld BA	-187.5
C-69.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	OB500	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Weld	CAV-GRIP III AP, Sure-Weld BA, LVOC BA	-120.0
C-70.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Weld	Aqua Base 120	-127.5
C-71.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck or DensDeck Prime	OB500	Sure-Weld	Aqua Base 120	-127.5
C-72.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Weld	Sure-Weld BA	-150.0
C-73.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Weld	CAV-GRIP III AP	-150.0
C-74.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck or DensDeck Prime	OB500	Sure-Weld	Sure-Weld BA	-150.0
C-75.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime	OB500	Sure-Weld	CAV-GRIP III AP	-150.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-76.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	OB500	(Optional) Min. 0.5-inch base insulation	OB500	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-157.5
C-77.	Min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Weld	CAV-GRIP III AP, Sure-Weld BA or Aqua Base 120	-247.5
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
C-78.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
C-79.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
C-80.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-90.0
C-81.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-90.0
C-82.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
C-83.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-157.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-84.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-397.5
C-85.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-277.5
C-86.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (FULL)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-397.5
C-87.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (SPLATTER)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-390.0
C-88.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-157.5
C-89.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-397.5
C-90.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-277.5
C-91.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-397.5
C-92.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-390.0
C-93.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-127.5
C-94.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-157.5
C-95.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-397.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-96.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-277.5
C-97.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-397.5
C-98.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-390.0
C-99.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-127.5
C-100.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-390.0
C-101.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-157.5
C-102.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-157.5
C-103.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-352.5
C-104.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-277.5
C-105.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-352.5
C-106.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-112.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-107.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-157.5
C-108.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-187.5
C-109.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-157.5
C-110.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-111.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-277.5
C-112.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (FULL)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-113.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (SPLATTER)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-390.0
C-114.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-157.5
C-115.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-116.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-277.5
C-117.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-118.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-390.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Membrane	Application	
C-119.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-157.5
C-120.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-187.5
C-121.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-157.5
C-122.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-123.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-277.5
C-124.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-125.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-390.0
C-126.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-127.5
C-127.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-390.0
C-128.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-157.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-129.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-130.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-277.5
C-131.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-397.5
C-132.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-390.0
C-133.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-157.5
C-134.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-352.5
C-135.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-277.5
C-136.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-352.5
C-137.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-112.5



**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-138.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-157.5
C-139.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-187.5
C-140.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-157.5
C-141.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-280.0
C-142.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-277.5
C-143.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST DT (FULL)	(Optional) Additional layer(s) base insulation	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	HydroBond WB	-280.0
C-144.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	HydroBond WB	-280.0
C-145.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-157.5
C-146.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-157.5
C-147.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-395.0
C-148.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-277.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-149.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	HydroBond WB	-395.0
C-150.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	HydroBond WB	-390.0
C-151.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-127.5
C-152.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Optim-R <u>Coverboard:</u> Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	HydroBond WB	-397.5
C-153.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-157.5
C-154.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-397.5
C-155.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-277.5
C-156.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	HydroBond WB	-397.5
C-157.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (SPLATTER)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (SPLATTER)	Sure-Weld FleeceBACK	HydroBond WB	-390.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck ( <a href="#">Note 1</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Membrane	Application	
C-158.	Min. 2,500 psi structural concrete	Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-157.5
C-159.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-352.5
C-160.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-277.5
C-161.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	HydroBond WB	-352.5
C-162.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-112.5
<b>SURE-WELD AFX MEMBRANE APPLICATIONS:</b>								
C-163.	Min. 2,500 psi structural concrete	Min. 0.5-inch HP Recovery Board	HA	None	HA	Sure-Weld AFX	Hot Asphalt	-150.0
C-164.	Min. 2,500 psi structural concrete	One or more layers min. 1.5-inch InsulBase, Polyiso HP-N, Polyiso HP-W, ACfoam II, SecurShield, ENRGY 3 or ISO 95+ GL	HA	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch HP Recovery Board	HA	Sure-Weld AFX	Hot Asphalt	-150.0
<b>SURE-WELD SAT-TPO MEMBRANE APPLICATIONS:</b>								
C-165.	Min. 2,500 psi structural concrete	(Optional) One or more layers, min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch Insulfoam SP	Flexible FAST (FULL)	Sure-Weld SAT-TPO	Self-adhered	-315.0
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>								
C-166.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or min. 1-inch Insulfoam I, II, IX, VIII, XIV or XV	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2.0-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™		-142.5

**TABLE 3B: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**  
 REFER TO [NOTE 16](#) FOR VAPOR BARRIER OPTIONS

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Base Ply	Top Ply	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
C-167.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0
<b>SURE-WELD AFX MEMBRANE APPLICATIONS:</b>								
C-168.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-157.5
C-169.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-202.5
C-170.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield or min. 2-inch Insulfoam I or VIII	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-105.0
C-171.	Min. 2,500 psi structural concrete	Min. 2-inch Insulfoam I or VIII	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-120.0
C-172.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-150.0
C-173.	Min. 2,500 psi structural concrete	Min. 2-inch InsulBase	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-202.5

**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
<b>RHINOBOND SYSTEMS:</b>						
C-174.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note A</a>	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
C-175.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note A</a>	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
C-176.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note B.</a>	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 3.2 ft <sup>2</sup> (10 parts per 4 x 8 ft board)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
C-177.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note A</a>	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-60.0
C-178.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note B.</a>	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 2.7 ft <sup>2</sup> (12 parts per 4 x 8 ft board)	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
C-179.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note B.</a>	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	1 per 2.0 ft <sup>2</sup> (16 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-97.5
C-180.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	18-inch o.c. in rows 60-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
C-181.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	HD 14-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	12-inch o.c. in rows 120-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
C-182.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	6-inch o.c. in rows 120-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-37.5
C-183.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	12-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-37.5

**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 3, Note 13)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Density		
C-184.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	12-inch o.c. in rows 60-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
C-185.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	6-inch o.c. in rows 120-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
C-186.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	HD 14-10 or CD-10 and RhinoBond Plate-TPO or RhinoBond Treadsafe Plate-TPO	6-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
<b>ISOWELD INDUCTION WELDING SYSTEM:</b>						
C-187.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29; <a href="#">Note A</a>	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> <sup>®</sup> 3000 stand-up tool.	-45.0
C-188.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 6 ft <sup>2</sup> 2x3-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> <sup>®</sup> 3000 stand-up tool.	-52.5
C-189.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 4.0 ft <sup>2</sup> 2x2-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> <sup>®</sup> 3000 stand-up tool.	-60.0
C-190.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 3.0 ft <sup>2</sup> 1.5 x 2-ft grid, staggered	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> <sup>®</sup> 3000 stand-up tool.	-82.5
C-191.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, 4x8 ft dimension, one or more layers, any combination	Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 2.25 ft <sup>2</sup> 1.5 x 1.5-ft grid (first row of fasteners spaced 0.5 ft from long edges and 1 ft from the short edge)	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> <sup>®</sup> 3000 stand-up tool.	-97.5
C-192.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note B.</a>	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	1 per 2.0 ft <sup>2</sup> (16 parts per 4 x 8 ft board) Per FM Loss Prevention Data Sheet 1-29	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> <sup>®</sup> 3000 stand-up tool.	-97.5
C-193.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	12-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> <sup>®</sup> 3000 stand-up tool.	-37.5

**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density		
C-194.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	12-inch o.c. in rows 60-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-45.0
C-195.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch preliminarily attached	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate	6-inch o.c. in rows 60-inch o.c.	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-90.0
Notes:	A. The plate/fastener combination offset 12 inch from adjacent rows. B. For these assemblies each row of insulation is staggered by 1 foot.					

**TABLE 3D: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)		MDP (psf)
			Type	Attach	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>					
C-196.	Min. 2,500 psi structural concrete	None	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-495.0
C-197.	Min. 2,500 psi structural concrete	None	Sure-Weld FleeceBACK	Flexible FAST DT (SPLATTER at 3.5-4.0 lbs/sq)	-722.5
<b>SURE-WELD AFX MEMBRANE APPLICATIONS:</b>					
C-198.	Min. 2,500 psi structural concrete	None	Sure-Weld AFX	Hot Asphalt	-97.5
C-199.	Min. 2,500 psi structural concrete	CCW-702 or cut-back primer at 250-300 ft <sup>2</sup> /gal	Sure-Weld AFX	Hot Asphalt	-495.0
<b>SURE-WELD SAT-TPO MEMBRANE APPLICATIONS:</b>					
C-200.	Min. 2,500 psi structural concrete	None	Sure-Weld SAT-TPO	Self-adhered	-425.0

**TABLE 3E: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) OR RECOVER  
SYSTEM TYPE G: OPTIONAL INSULATION, LOOSE-LAID ROOF COVER, PRESSURE EQUALIZING VENT**

System No.	Deck (Note 1)	Air Barrier	Insulation	Underlayment	Roof Cover		MDP (psf)
					Type	Attach	
C-201.	Min. 2,500 psi structural concrete	VapAir Seal 725TR or SureMB 90TG or 120TG/torch-applied in accordance with Carlisle requirements.	(Optional) Any fire classified roof insulation and/or coverboard combination, any thickness, loose-laid with staggered joints	12-inch wide strips of polypropylene, air permeable filter fabric, loose laid in a crossing pattern, connecting the V2T vents	Sure-Weld or Sure-Weld HS	VacuSeal Vent installed in accordance with Carlisle instructions, spaced maximum 50 ft o.c.	-97.5

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>		
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>								
LWC-1	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-52.5
LWC-2	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-52.5
LWC-3	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-75.0
LWC-4	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-75.0
LWC-5	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-187.5



**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>		
LWC-6	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-350.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
LWC-7	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
LWC-8	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
LWC-9	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0
LWC-10	Min. 22 ga., Type BV, Grade 40 steel	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0
LWC-11	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) of base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-187.5

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>		
LWC-12	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-187.5
LWC-13	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-187.5
LWC-14	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) of base insulation	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-350.0
LWC-15	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch DensDeck Prime or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or or min. 1.5-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-350.0
LWC-16	Min. 2,500 psi structural concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-350.0

**TABLE 4b: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>	Anchor Sheet			Insulation			Roof Cover <a href="#">(Note 15)</a>	MDP <a href="#">(psf)</a>
			Type	Fastener <a href="#">(Note 11)</a>	Attach	Base Layer	Top Layer(s)	Attach <a href="#">(Notes 6,7,8)</a>		
LWC-17	Min. 22 ga., Type B, Grade 33 vented steel or structural concrete	ELASTIZELL (NOA 23-0817.05): Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC	JM Perma Ply 28	OMG CR Assembled Base Sheet Fastener	9-inch o.c. in the 3-inch side lap and 9-inch o.c. in two staggered rows in the center of the sheet	Min. 1.0-inch InsulBase, HP-N or HP-W, SecurShield, AC Foam II, or ENRGY 3	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 1.0-inch HP Recovery Board	Hot asphalt	Sure-Weld AFX / Hot asphalt	-45.0

**TABLE 4c: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR RE-ROOF (TEAR OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>				Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Surface Treatment	Supplemental Attachment		Type	Attach	
				Fastener	Attach			
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>								
LWC-18	Min. 24 ga., Type 1.0FDV Grade 80 steel at max. 6 ft spans; 5/8" puddle welds wth weld washers, 8-inch o.c.	CELCORE (FL2037): Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 370 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5
LWC-19	Min. 22 ga., Type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). <a href="#">Note A.</a>	None	None	N/A	Sure-Weld	Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-60.0
LWC-20	Min. 22 ga., Type B, Grade 33 steel at max. 4 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 38 pcf wet cast density, min. 200 psi, min. 1.625-inch thick Celcore MF Cellular Concrete followed by min. 1-inch EPS holey board with min. 2.0-inch thick top slurry coat. <a href="#">Note A.</a>	Celcore PVA	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-67.5
LWC-21	Min. 22 ga., Type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). <a href="#">Note A.</a>	None	Carlisle HP Fastener with Insulation Plate	1 per 9.0 ft <sup>2</sup>	Sure-Weld	Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-67.5 <i>Note B</i>
LWC-22	Min. 22 ga., Type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6-inch o.c.	CELCORE (FL2037): Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 310 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA	None	N/A	Sure-Weld	CAV-GRIP III AP	-82.5

**TABLE 4c: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR RE-ROOF (TEAR OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>				Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Surface Treatment	Supplemental Attachment		Type	Attach	
				Fastener	Attach			
LWC-23	Min. 22 ga., Type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). <a href="#">Note A.</a>	None	Carlisle HP Fastener with Insulation Plate	1 per 1.0 ft <sup>2</sup>	Sure-Weld	Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-120.0 <i>Note B</i>
LWC-24	Min. 22 ga., Type BV, Grade 80 steel; max. 5-ft spans; 5/8" puddle welds with weld-washers spaced 6-inch o.c.	CONCRECEL (FL5584 & FL10500): Deck primed with Concrecel Bonding Agent at 600 ft <sup>2</sup> /gallon. Min. 350 psi, min. 2-inch thick, Concrecel Lightweight Insulating Concrete (Minimum 1-inch thick, minimum 1.0 pcf EPS holey board required)	(Optional) Concrecel Curing Compound	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-97.5
LWC-25	Min. 22 ga., Type BV, Grade 80 steel; max. 6-ft spans; 5/8" puddle welds spaced 6-inch o.c.	CONCRECEL (FL5584 & FL10500): Min. 350 psi, min. 2-inch thick, Concrecel Lightweight Insulating Concrete (No EPS board)	None	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-105.0
LWC-26	Min. 22 ga., Type BV, Grade 80 steel; max. 6-ft spans; 5/8" puddle welds with weld-washers spaced 6-inch o.c.	CONCRECEL (FL5584 & FL10500): Min. 350 psi, min. 2-inch thick, Concrecel Lightweight Insulating Concrete (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-135.0
LWC-27	Min. 20 ga., Type BV, Grade 33 steel; max. 6-ft 3-inch spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	None	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-52.5
LWC-28	Min. 22 ga., Type BV, Grade 33 steel; max. 6-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-82.5
LWC-29	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 1-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-97.5
LWC-30	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-112.5
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
LWC-31	Min. 24 ga., Type 1.0FDV Grade 80 steel at max. 6 ft spans; 5/8" puddle welds with weld washers, 8-inch o.c.	CELCORE (FL2037): Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 370 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5

**TABLE 4c: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR RE-ROOF (TEAR OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>				Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Surface Treatment	Supplemental Attachment		Type	Attach	
				Fastener	Attach			
LWC-32	Min. 22 ga., Type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6-inch o.c.	CELCORE (FL2037): Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 310 psi, Min. 2-inch thick, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-82.5
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
LWC-33	Min. 22 ga., Type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). <a href="#">Note A.</a>	Celcore PVA	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-60.0
LWC-34	Min. 22 ga., Type B, Grade 33 steel at max. 4 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 38 pcf wet cast density, min. 200 psi, min. 1.625-inch thick Celcore MF Cellular Concrete followed by min. 1-inch EPS holey board with min. 2.0-inch thick top slurry coat. <a href="#">Note A.</a>	Celcore PVA	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-67.5
LWC-35	Min. 22 ga., Type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). <a href="#">Note A.</a>	Celcore PVA	Carlisle HP Fastener with Insulation Plate	1 per 9.0 ft <sup>2</sup>	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-67.5 <i>Note B</i>
LWC-36	Min. 22 ga., Type B, Grade 33 steel at max. 6 ft spans attached 6-inch o.c.	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (cast with or without min. 1-inch EPS holey board). <a href="#">Note A.</a>	Celcore PVA	Carlisle HP Fastener with Insulation Plate	1 per 1.0 ft <sup>2</sup>	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-120.0 <i>Note B</i>
LWC-37	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, Teks/5 screws, 6" o.c.	ELASTIZELL (NOA 23-0817.05): Min. 530 psi, min. 2-inch thick, Elastizell Range III LWIC	None	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-52.5
LWC-38	Min. 20 ga., Type BV, Grade 33 steel; max. 6-ft 3-inch spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	None	None	N/A	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-52.5
LWC-39	Min. 22 ga., Type BV, Grade 33 steel; max. 6-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-82.5
LWC-40	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 1-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-97.5
LWC-41	Min. 22 ga., Type BV, Grade 33 steel; max. 5-ft spans; 5/8" puddle welds or Tek/5 screws spaced 6-inch o.c.	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (Minimum 2-inch thick, minimum 1.0 pcf EPS holey board required)	None	None	N/A	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-112.5

**TABLE 4c: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR RE-ROOF (TEAR OFF)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>			Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>	
		Type	Surface Treatment	Supplemental Attachment		Type		Attach
				Fastener	Attach			
Notes:	<p>A.) If the type of LWC to be used on the project is unknown, as in a re-roof (tear-off) condition, compressive strength and fastener withdrawal resistance testing shall be conducted. Compressive strength testing shall be in accordance with ASTM C495 (for new pour) or ASTM C109 (for existing) and shall yield a minimum 200 psi result. Field withdrawal resistance testing in accordance with <a href="#">Note 11</a> shall yield an average withdrawal performance not less than 55 lbf with a Trufast FM-90 Base Sheet Fastener. If question exists as to the adhesion to the LWC surface, field testing in accordance with <a href="#">Note 12</a> is recommended. All testing shall be performed by an accredited testing agency acceptable to the Authority Having Jurisdiction.</p> <p>B.) Linear interpolation between supplemental attachment at 1 per 9 ft<sup>2</sup> for -67.5 psf and 1 per 1.0 ft<sup>2</sup> for -120.0 psf is permissible. Such interpolation shall be performed by a qualified design professional to the satisfaction of the Authority Having Jurisdiction.</p>							

**TABLE 4d: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE – NEW CONSTRUCTION OR RE-ROOF (TEAR-OFF)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>	Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
			Membrane	Application	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>					
LWC-42	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 300 psi, Min. 2-inch thick, Celcore Cellular Concrete (EPS board optional)	Sure-Weld	Aqua Base 120	-82.5
LWC-43	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 300 psi, Min. 2-inch thick, Celcore Cellular Concrete (EPS board optional)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-135.0
LWC-44	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional). <a href="#">Note A.</a>	Sure-Weld	Aqua Base 120	-217.5
LWC-45	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional). <a href="#">Note A.</a>	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-480.0
LWC-46	Min. 2,500 psi structural concrete	CONCRECEL (FL5584 & FL10500): Min. 350 psi, min. 2-inch thick, Concrecel Lightweight Insulating Concrete (EPS board optional)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-452.5
LWC-47	Min. 2,500 psi structural concrete	ELASTIZELL (NOA 23-0817.05): Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC	Sure-Weld	Aqua Base 120	-67.5
LWC-48	Min. 2,500 psi structural concrete	ELASTIZELL (NOA 23-0817.05): Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-240.0
LWC-49	Min. 2,500 psi structural concrete	ELASTIZELL (NOA 23-0817.05): Min. 300 psi, Min. 2-inch thick, Elastizell Range II LWIC (no EPS board)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-495.0
LWC-50	Min. 2,500 psi structural concrete	Min. 350 psi, pre-existent cellular lightweight insulating concrete; <b>Note: Fastener Withdrawal; OMG CR-R Assembled Base Sheet Fastener (1.7 in.) ≥ 101 lbf per <a href="#">Note 11</a>.</b>	Sure-Weld	Sure-Weld BA	-452.5
LWC-51	Min. 2,500 psi structural concrete	Min. 320 psi, pre-existent cellular lightweight insulating concrete; <b>Note: Fastener Withdrawal; OMG CR-R Assembled Base Sheet Fastener (1.7 in.) ≥ 148 lbf per <a href="#">Note 11</a>.</b>	Sure-Weld	Sure-Weld BA	-492.5

**TABLE 4D: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE – NEW CONSTRUCTION OR RE-ROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>	Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
			Membrane	Application	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>					
LWC-52	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 270 psi, Min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (EPS board optional) Surfacing: Celcore SBS (Sanded Bonding Surface) at 1 gal/square.	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-225.0
LWC-53	Min. 2,500 psi structural concrete	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional). <a href="#">Note A.</a>	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-232.5
LWC-54	Min. 2,500 psi structural concrete	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-240.0
LWC-55	Min. 2,500 psi structural concrete	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (no EPS board)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-250.0
LWC-56	Min. 2,500 psi structural concrete	Min. 320 psi, pre-existent cellular lightweight insulating concrete; <b>Note: Fastener Withdrawal; OMG CR-R Assembled Base Sheet Fastener (1.7 in.) <math>\geq</math> 148 lbf per <a href="#">Note 11.</a></b>	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-250.0
LWC-57	Min. 2,500 psi structural concrete	Min. 350 psi, pre-existent cellular lightweight insulating concrete; <b>Note: Fastener Withdrawal; OMG CR-R Assembled Base Sheet Fastener (1.7 in.) <math>\geq</math> 101 lbf per <a href="#">Note 11.</a></b>	Sure-Weld FleeceBACK	Flexible FAST DT (SPLATTER at 3.5-4.0 lbs/sq)	-345.0
<b>SURE-WELD SAT-TPO MEMBRANE APPLICATIONS:</b>					
LWC-58	Min. 3,000 psi structural concrete	ELASTIZELL (NOA 23-0817.05): Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC	Sure-Weld SAT-TPO	Self-adhered	-282.5
Notes:	A.) If the type of LWC to be used on the project is unknown, as in a re-roof (tear-off) condition, compressive strength and fastener withdrawal resistance testing shall be conducted. Compressive strength testing shall be in accordance with ASTM C495 (for new pour) or ASTM C109 (for existing) and shall yield a minimum 200 psi result. Field withdrawal resistance testing in accordance with <a href="#">Note 11</a> shall yield an average withdrawal performance not less than 55 lbf with a Trufast FM-90 Base Sheet Fastener. If question exists as to the adhesion to the LWC surface, field testing in accordance with <a href="#">Note 12</a> is recommended. All testing shall be performed by an accredited testing agency acceptable to the Authority Having Jurisdiction.				

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

REFER TO [NOTE 16a](#) FOR VAPOR BARRIER OPTIONS.

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Application	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>								
CWF-1	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	Aqua Base 120	-52.5
CWF-2	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP or Sure-Weld BA	-75.0
CWF-3	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC-BA or Sure-Weld BA	-82.5
CWF-4	Min. 2-inch Tectum Plank	Min. 1.5-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC-BA or Sure-Weld BA	-82.5
CWF-5	Min. 2-inch Tectum Plank	(Optional) Min. 1.0-inch InsulBase, SecurShield	Flexible FAST (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.625-inch DensDeck Prime	Flexible FAST (FULL)	Sure-Weld	CAV-GRIP III AP or Sure-Weld BA	-90.0
CWF-6	Min. 2-inch Tectum Plank	Min. 1-inch InsulBase or SecurShield	Flexible FAST (FULL) or Flexible FAST DT (FULL)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST (FULL) or Flexible FAST DT (FULL)	Sure-Weld	CAV-GRIP III AP, LVOC-BA or Sure-Weld BA	-277.5
CWF-7	Min. 2-inch Tectum Plank	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST (FULL) or Flexible FAST DT (FULL)	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC-BA or Sure-Weld BA	-277.5
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
CWF-8	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch SecurShield HD, SecurShield HD Plus or Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0



**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

REFER TO [NOTE 15B](#) FOR VAPOR BARRIER OPTIONS.

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP (psf)
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Application	
CWF-9	Min. 2-inch Tectum Plank	Min. 1.5-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
CWF-10	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-82.5
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
CWF-11	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	HydroBond WB	-52.5
CWF-12	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 7/16-inch APA rated OSB	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL)	-75.0
CWF-13	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-82.5
CWF-14	Min. 2-inch Tectum Plank	Min. 1.5-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-82.5
CWF-15	Min. 2-inch Tectum Plank	Min. 1.0-inch InsulBase, SecurShield	Flexible FAST (FULL)	(Optional) Min. 0.5-inch HP Recovery Board	Flexible FAST (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-90.0
CWF-16	Min. 2-inch Tectum Plank	Min. 1-inch Insulfoam SP	Flexible FAST (FULL)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-90.0
CWF-17	Min. 2-inch Tectum Plank	(Optional) Min. 1.0-inch InsulBase	Flexible FAST (FULL)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.625-inch DensDeck Prime	Flexible FAST (FULL)	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL)	-90.0
CWF-18	Min. 2-inch Tectum Plank	Min. 1-inch InsulBase or SecurShield	Flexible FAST (FULL) or Flexible FAST DT (FULL)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST (FULL) or Flexible FAST DT (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL) or Flexible FAST DT (FULL) or HydroBond WB	-277.5

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

REFER TO [NOTE 16B](#) FOR VAPOR BARRIER OPTIONS.

System No.	Deck <a href="#">(Note 1)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP (psf)
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Application	
CWF-19	Min. 2-inch Tectum Plank	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST (FULL) or Flexible FAST DT (FULL)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST (FULL) or Flexible FAST DT (FULL) or HydroBond WB	-277.5

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Anchor Sheet			Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	MDP (psf)
		Type	Fastener <a href="#">(Note 11)</a>	Attach	Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>		
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>										
CWF-20	Min. 2-inch Tectum Plank	SureMB G2 Base	Trufast Twin-Loc Nails, min. 1.4-inch embedment	9-inch o.c. in the 4-inch side laps and 18-inch o.c. in two staggered rows in the center of the sheet	Min. 1.5-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBONS, ~10.5-inch o.c., atop anchor sheet fastener rows)	(Optional) Additional layer(s) base insulation, min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC-BA or Sure-Weld BA	-30.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>										
CWF-21	Min. 2-inch Tectum Plank	SureMB G2 Base	Trufast Twin-Loc Nails, min. 1.4-inch embedment	9-inch o.c. in the 4-inch side laps and 18-inch o.c. in two staggered rows in the center of the sheet	Min. 1.5-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBONS, ~10.5-inch o.c., atop anchor sheet fastener rows)	(Optional) Additional layer(s) base insulation, min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-30.0

**TABLE 5c: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Primer	Roof Cover <a href="#">(Note 15)</a>		MDP (psf)
			Type	Attach	
CWF-22	Min. 2-inch Tectum Plank	None	Sure-Weld FleeceBACK	Flexible FAST (RIBBONS 12-inch o.c.) or Flexible FAST DT (RIBBONS 12-inch o.c.)	-105.0
CWF-23	Min. 2-inch Tectum Plank	None	Sure-Weld FleeceBACK	Flexible FAST (FULL) or Flexible FAST DT (FULL)	-601.5

**TABLE 6A: EXISTING GYPSUM DECKS – REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf)
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Application	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>								
G-1.	Existing gypsum deck	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-157.5
G-2.	Existing gypsum deck	Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld	CAV-GRIP III AP or Sure-Weld BA	-187.5
G-3.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-237.5
G-4.	Existing gypsum deck	Nominal 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-352.5
G-5.	Existing gypsum deck	Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-450.0
G-6.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-495.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
G-7.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
G-8.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
G-9.	Existing gypsum deck	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-90.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								

**TABLE 6A: EXISTING GYPSUM DECKS – REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1, Note 12)</a>	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Application	
G-10.	Existing gypsum deck	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5
G-11.	Existing gypsum deck	Min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-187.5
G-12.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-237.5
G-13.	Existing gypsum deck	(Optional) Min. 1-inch Insulfoam I, II, VIII, IX, XIV or XV	Flexible FAST (FULL)	Min. 1-inch Insulfoam SP	Flexible FAST (FULL)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-295.0
G-14.	Existing gypsum deck	Nominal 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-352.5
G-15.	Existing gypsum deck	Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-450.0
G-16.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-495.0

**TABLE 6B: GYPSUM DECKS - REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Min. Withdrawal (lbf)	Type	Attach (Notes 6,7,8)		
<b>SURE-WELD MEMBRANE APPLICATIONS:</b>									
G-17.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	Additional layer(s) min. 1-inch base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5*
G-18.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	Additional layer(s) min. 1-inch base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
G-19.	Existing gypsum deck	Min. 2-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	Additional layer(s) min. 1-inch base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>									
G-20.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	Additional layer(s) min. 1.5-inch base insulation and/or min. 0.25-inch DensDeck Prime or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5*
G-21.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	Additional layer(s) min. 1.5-inch base insulation and/or min. 0.25-inch DensDeck Prime or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
G-22.	Existing gypsum deck	Min. 2-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	Additional layer(s) min. 1.5-inch base insulation and/or min. 0.25-inch DensDeck Prime or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>									
G-23.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	Additional layer(s) min. 1-inch base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-37.5*
G-24.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	Additional layer(s) min. 1-inch base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-45.0*

TABLE 6B: GYPSUM DECKS - REROOF (TEAR-OFF) OR RECOVER									
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Min. Withdrawal (lbf)	Type	Attach (Notes 6,7,8)		
G-25.	Existing gypsum deck	Min. 2-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	Additional layer(s) min. 1-inch base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK / Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-45.0*
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>									
G-26.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD RL, min. 1.5-inch InsulBase RL or SecurShield RL or min. 2-inch SecurShield HD Composite RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™	-37.5*
G-27.	Existing gypsum deck	Min. 1.5-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD RL, min. 1.5-inch InsulBase RL or SecurShield RL or min. 2-inch SecurShield HD Composite RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™	-45.0*
G-28.	Existing gypsum deck	Min. 2-inch InsulBase, SecurShield	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD RL, min. 1.5-inch InsulBase RL or SecurShield RL or min. 2-inch SecurShield HD Composite RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™	-45.0*

TABLE 6c GYPSUM DECKS - REROOF (TEAR-OFF) OR RECOVER									
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer				Roof Cover (Note 15)	MDP (psf)	
			Type	Fastener (Note 11)	Attach	Min. Withdrawal (lbf)			
<b>SURE-WELD MEMBRANE APPLICATIONS:</b>									
G-29.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-37.5*	
G-30.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*	
G-31.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 2-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	Sure-Weld / CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-45.0*	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>									
G-32.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5*	

**TABLE 6c GYPSUM DECKS - REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer				Roof Cover (Note 15)	MDP (psf)
			Type	Fastener (Note 11)	Attach	Min. Withdrawal (lbf)		
G-33.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
G-34.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 2-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
G-35.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	Sure-Weld FleeceBACK / Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-37.5*
G-36.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	Sure-Weld FleeceBACK / Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-45.0*
G-37.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 2-inch InsulBase, SecurShield or SecurShield HD Composite	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	Sure-Weld FleeceBACK / Flexible FAST, Flexible FAST DT (FULL) or HydroBond WB	-45.0*
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>								
G-38.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase RL or SecurShield RL or min. 2-inch SecurShield HD Composite RL	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 3.2 ft <sup>2</sup>	240	Sure-Weld FleeceBACK® RL™	-37.5*
G-39.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 1.5-inch InsulBase RL or SecurShield RL or min. 2-inch SecurShield HD Composite RL	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 2.0 ft <sup>2</sup>	180	Sure-Weld FleeceBACK® RL™	-45.0*
G-40.	Existing gypsum deck	(Optional) One or more layers, any combination	Min. 2-inch InsulBase RL, SecurShield RL or SecurShield HD Composite RL	Gyptec Fastener with Gyptec Plate-3" or Lite Deck Fastener with Lite Deck Plate, min. 2-inch embed.	1 per 4.0 ft <sup>2</sup>	360	Sure-Weld FleeceBACK® RL™	-45.0*

**TABLE 6D: EXISTING GYPSUM DECKS – REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)		MDP (psf)
			Type	Attach	
G-41.	Existing gypsum deck	None	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-295.0
G-42.	Existing gypsum deck	None	Sure-Weld FleeceBACK	Flexible FAST DT (SPLATTER at 3.5-4.0 lbs/sq)	-717.5

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP ( <a href="#">psf</a> ) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Application	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>								
R-1	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-167.5
R-2	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-167.5
R-3	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen over structural concrete deck	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch StormBase or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-145.0
R-4	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2-inch StormBase or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-145.0
R-5	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2-inch StormBase or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-145.0



**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP ( <a href="#">psf</a> ) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Application	
R-6	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-302.5
R-7	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-302.5
R-8	Existing fully-adhered asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Weld	Aqua Base 120 or Sure-Weld BA	-120.0
R-9	Existing fully-adhered asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch InsulBase, SecurShield	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Weld	CAV-GRIP III AP	-120.0
R-10	Existing fully-adhered asphaltic BUR or mineral surface cap sheet	(Optional) Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck or DensDeck Prime	OB500	Sure-Weld	Aqua Base 120 or Sure-Weld BA	-120.0
R-11	Existing fully-adhered asphaltic BUR or mineral surface cap sheet	(Optional) Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime	OB500	Sure-Weld	CAV-GRIP III AP	-120.0
R-12	Existing fully-adhered asphaltic BUR or mineral surface cap sheet	(Optional) Min. 1.5-inch ACFoam II, InsulBase, SecurShield, ENRGY 3	OB500	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Weld	Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-120.0

**SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):**

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP ( <a href="#">psf</a> ) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Application	
R-13	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
R-14	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	(Optional) Additional layer(s) base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
R-15	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
R-16	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
R-17	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD or SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Application	
R-18	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-90.0
R-19	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-90.0
R-20	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-90.0
R-21	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
R-22	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
R-23	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1.5-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0

**SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):**

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP ( <a href="#">psf</a> ) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Application	
R-24	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-167.5
R-25	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-167.5
R-26	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-145.0
R-27	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 2-inch StormBase or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-145.0
R-28	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2-inch StormBase or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-145.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Application	
R-29	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-302.5
R-30	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-302.5
<b>SURE-WELD FLEECEBACK® RL™ APPLICATIONS:</b>								
R-31	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	(Optional) Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2.0-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™		-142.5
R-32	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 2.0-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Weld FleeceBACK® RL™		-142.5
R-33	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2.0-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Weld FleeceBACK® RL™		-142.5

**TABLE 7B: RECOVER APPLICATIONS**
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Base	Application	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
R-34	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	(Optional) Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0
R-35	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0
R-36	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>None</u>	N/A	SureMB 90TG or 120TG / torch-applied	Sure-Weld FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0
<b>SURE-WELD AFX MEMBRANE APPLICATIONS:</b>								
R-37	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-157.5
R-38	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-157.5
R-39	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>None</u>	N/A	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-157.5

**TABLE 7B: RECOVER APPLICATIONS**
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE PLY, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate ( <a href="#">Note 1</a> , <a href="#">Note 12</a> )	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover ( <a href="#">Note 15</a> )		MDP (psf) <sup>A</sup>
		Type	Attach ( <a href="#">Notes 6,7,8</a> )	Type	Attach ( <a href="#">Notes 6,7,8</a> )	Base	Application	
R-40	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-167.5
R-41	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-167.5
R-42	Existing fully-adhered granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-202.5
R-43	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-202.5
R-44	Existing fully-adhered asphaltic BUR	Min. 1.5-inch InsulBase, SecurShield or min. 2-inch Insulfoam I or VIII	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-105.0
R-45	Existing fully-adhered asphaltic BUR	Min. 1.5-inch InsulBase, SecurShield or min. 2-inch Insulfoam I or VIII	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	SureMB 90TG or 120TG / torch-applied	Sure-Weld AFX / C-CAA or hot asphalt	-120.0

**TABLE 7c: STEEL - RECOVER  
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

*All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin*

System No.	Substrate <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 5)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Spacing		
<b>RHINO BOND SYSTEMS:</b>						
R-46	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Carlisle HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-TPO are fastened through to purlins	18-inch o.c. in rows 60-inch o.c.	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
R-47	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced <b>max. 120-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Carlisle HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-TPO are fastened through to purlins	12-inch o.c. along purlins	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-30.0
R-48	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced <b>max. 120-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Carlisle HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-TPO are fastened through to purlins	6-inch o.c. along purlins	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-37.5
R-49	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Carlisle HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-TPO are fastened through to purlins	12-inch o.c. along purlins	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-37.5
R-50	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Carlisle HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-TPO are fastened through to purlins	12-inch o.c. along purlins	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-45.0
R-51	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced <b>max. 120-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Carlisle HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-TPO are fastened through to purlins	6-inch o.c. along purlins	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-52.5
R-52	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Carlisle HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-TPO are fastened through to purlins	6-inch o.c. along purlins	Sure-Weld or Sure-Weld EXTRA induction welded with RhinoBond tool per manufacturer's instructions.	-67.5
<b>ISOWELD INDUCTION WELDING SYSTEM:</b>						
R-53	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate are fastened through to purlins	12-inch o.c. along purlins	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-37.5



**TABLE 7c: STEEL - RECOVER**
**SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**
*All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin*

System No.	Substrate <a href="#">(Note 1)</a>	Insulation Layer <a href="#">(Note 5)</a>	Attachment		Roof Cover <a href="#">(Note 15B)</a>	MDP <a href="#">(psf)</a>
			Fastener <a href="#">(Note 11)</a>	Spacing		
R-54	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced <b>max. 120-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate are fastened through to purlins	6-inch o.c. along purlins	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-37.5
R-55	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate are fastened through to purlins	12-inch o.c. along purlins	Sure-Weld (minimum 60-mil) or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-45.0
R-56	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ3 with Carlisle isoweld TPO Plate or SFS isoweld F1-P-6.8-TPO Plate are fastened through to purlins	6-inch o.c. along purlins	Sure-Weld or Sure-Weld EXTRA induction welded with SFS <i>isoweld</i> ® 3000 stand-up tool.	-90.0

**TABLE 7D: STEEL – RECOVER**
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**
*All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin*

System No.	Deck <a href="#">(Note 1)</a>	Insulation		Roof Cover <a href="#">(Note 15A)</a>			MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Attachment	
R-57	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 138.5-inch o.c.	One or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 138.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-30.0
R-58	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 115-inch o.c.	One or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 115-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-45.0
R-59	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 54.5-inch o.c.	One or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 54.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-60.0
R-60	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 138.5-inch o.c.	One or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 138.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-60.0
R-61	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 90.5-inch o.c.	One or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 90.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-67.5
R-62	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 54.5-inch o.c.	One or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	9-inch o.c. within 5.5-inch wide laps spaced max. 54.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-75.0

**TABLE 7D: STEEL – RECOVER**
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**
*All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin*

System No.	Deck <a href="#">(Note 1)</a>	Insulation		Roof Cover <a href="#">(Note 15A)</a>			MDP (psf)
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Attachment	
R-63	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 54.5-inch o.c.	One or more layers, any combination	Prelim. attach	Sure-Weld or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 54.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-90.0

**TABLE 7E: STEEL – RECOVER**
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER (RUSS STRIPS)**
*All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin*

System No.	Deck <a href="#">(Note 1)</a>	Insulation		Roof Cover <a href="#">(Note 15A)</a>			MDP (psf)
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Attachment	
R-64	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 138-inch o.c.	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 138-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. to engage the purlin. Roof cover adhered to each strip by first priming with TPO Primer at the strip location, then rolling into place with a hand roller.	-30.0
R-65	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 114-inch o.c.	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 114-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. to engage the purlin. Roof cover adhered to each strip by first priming with TPO Primer at the strip location, then rolling into place with a hand roller.	-45.0
R-66	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 90-inch o.c.	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 90-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. to engage the purlin. Roof cover adhered to each strip by first priming with TPO Primer at the strip location, then rolling into place with a hand roller.	-52.5
R-67	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 120-inch o.c.	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 120-inch o.c. The plates are centered over each strip and fastened 6-inch o.c. to engage the purlin. Roof cover adhered to each strip by first priming with HP-250 Primer at the strip location, then rolling into place with a hand roller.	-60.0

**TABLE 7E: STEEL – RECOVER**
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER (RUSS STRIPS)**
*All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin*

System No.	Deck <a href="#">(Note 1)</a>	Insulation		Roof Cover <a href="#">(Note 15A)</a>			MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener <a href="#">(Note 11)</a>	Attachment	
R-68	Existing standing seam or lap seam metal roof covers having min. 16 ga. (0.0598-inch) to max. 3/16-inch thick steel purlins spaced max. 60-inch o.c.	One or more layers, any combination	Prelim. attached	Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA	Carlisle HP Purlin Fastener or RetroDriller Fastener and Piranha Plate	Sure-Weld TPO 10-inch Pressure-Sensitive RUSS strips are applied over the insulation spaced 60-inch o.c. The plates are centered over each strip and fastened 12-inch o.c. to engage the purlin. Roof cover adhered to each strip by first priming with HP-250 Primer at the strip location, then rolling into place with a hand roller.	-60.0

**TABLE 7F: RECOVER APPLICATIONS**
**SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Roof Cover <a href="#">(Note 15)</a>						MDP <a href="#">(psf)</a>
		Membrane	Fastener <a href="#">(Note 11)</a>	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
R-69	Existing steel deck	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate installed through to engage existing deck	12-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-30.0
R-70	Existing steel deck	Sure-Weld AFX 155 or Sure-Weld FleeceBACK 135	Carlisle HP-Xtra Fastener and Piranha Xtra Plate installed through to engage existing deck	12-inch o.c.	5-inch	139-inch o.c.	1.5-inch outside	-30.0
R-71	Existing steel deck, min. Grade 80	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate installed through to engage existing deck	12-inch o.c.	5.5-inch	139-inch o.c.	1.5-inch outside	-30.0
R-72	Existing steel deck	Sure-Weld AFX 155 or Sure-Weld FleeceBACK 135	Carlisle HP-Xtra Fastener and Piranha Xtra Plate installed through to engage existing deck	6-inch o.c.	5-inch	139-inch o.c.	1.5-inch outside	-37.5
R-73	Existing steel deck, min. Grade 80	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate installed through to engage existing deck	6-inch o.c.	5.5-inch	139-inch o.c.	1.5-inch outside	-37.5
R-74	Existing steel deck	Sure-Weld AFX 155 or Sure-Weld FleeceBACK 135	Carlisle HP-Xtra Fastener and Piranha Xtra Plate installed through to engage existing deck	12-inch o.c.	5-inch	115-inch o.c.	1.5-inch outside	-37.5
R-75	Existing steel deck, min. Grade 80	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-Xtra Fastener and Piranha Xtra Plate installed through to engage existing deck	12-inch o.c.	5.5-inch	115-inch o.c.	1.5-inch outside	-37.5
R-76	Existing steel deck	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate installed through to engage existing deck	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-52.5
R-77	Existing steel deck	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-Xtra Fastener and Piranha Xtra Plate installed through to engage existing deck	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0
R-78	Existing steel deck, min. Grade 80	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate installed through to engage existing deck	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0
R-79	Existing steel deck, min. Grade 80	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HP-X Fastener and Piranha Plate installed through to engage existing deck	6-inch o.c.	5.5-inch	91-inch o.c.	1.5-inch outside	-60.0

**TABLE 7F: RECOVER APPLICATIONS**  
**SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Roof Cover <a href="#">(Note 15)</a>						MDP <a href="#">(psf)</a>
		Membrane	Fastener <a href="#">(Note 11)</a>	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
R-80	Existing steel deck, min. Grade 80	Sure-Weld AFX 155 or Sure-Weld FleeceBACK 135	Carlisle HP-Xtra Fastener and Piranha Xtra Plate installed through to engage existing deck	12-inch o.c.	5-inch	91-inch o.c.	1.5-inch outside	-60.0
R-81	Existing structural concrete	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HD 14-10 Fastener and Piranha Plate installed through to engage existing deck	12-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-30.0
R-82	Existing structural concrete	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HD 14-10 or CD-10 Fastener and Piranha Plate installed through to engage existing deck Plate	6-inch o.c.	5.5-inch	139-inch o.c.	1.5-inch outside	-37.5
R-83	Existing structural concrete	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HD 14-10 Fastener and Piranha Plate installed through to engage existing deck	12-inch o.c.	5.5-inch	115-inch o.c.	1.5-inch outside	-37.5
R-84	Existing structural concrete	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HD 14-10 Fastener and Piranha Plate installed through to engage existing deck	6-inch o.c.	5.5-inch	138.5-inch o.c.	1.5-inch outside	-60.0
R-85	Existing structural concrete	Sure-Weld AFX or Sure-Weld FleeceBACK	Carlisle HD 14-10 or CD-10 Fastener and Piranha Plate installed through to engage existing deck	6-inch o.c.	5.5-inch	91-inch o.c.	1.5-inch outside	-60.0

**TABLE 7G: RECOVER APPLICATIONS**  
**SYSTEM TYPE F-1: NON-INSULATED, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate <a href="#">(Note 1, Note 12)</a>	Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a> <sup>A</sup>
		Type	Attach	
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>				
R-86	Existing, fully-adhered EPDM	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12)	-30.0
R-87	Existing, fully-adhered EPDM	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6)	-75.0
R-88	Existing fully adhered, granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-177.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>				
R-89	Existing fully adhered, granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-177.0
R-90	Existing fully adhered TPO single ply	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-270.0
R-91	Existing, fully-adhered EPDM	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-315.0
R-92	Existing fully adhered, granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR) or granule-surfaced modified bitumen	Sure-Weld AFX	Hot Asphalt	-367.5

**TABLE 7G: RECOVER APPLICATIONS**
**SYSTEM TYPE F-1: NON-INSULATED, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Note 1, Note 12)	Roof Cover (Note 15)		MDP (psf) <sup>A</sup>
		Type	Attach	
R-93	Existing fully adhered, granule-surfaced asphalt built-up roof (BUR), smooth-surfaced asphalt built-up roof (BUR), granule-surfaced APP or SBS modified bitumen or smooth-surfaced SBS modified bitumen	Sure-Weld FleeceBACK	Flexible FAST DT (FULL)	-635.0

**TABLE 7H: RECOVER APPLICATIONS**
**SYSTEM TYPE F-2: NEW LIGHTWEIGHT CONCRETE OVER EXISTING ROOF, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new LWC and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Note 1, Note 12)	Lightweight Concrete	Roof Cover (Note 15)		MDP (psf) <sup>A</sup>
			Type	Attach	
<b>SURE-WELD OR SURE-WELD HS MEMBRANE APPLICATIONS:</b>					
R-94	Existing gravel surface BUR	CELCORE (FL2037): Min. 300 psi, Min. 2-inch thick, Celcore Cellular Concrete or Celcore MF Cellular Concrete (EPS board optional)	Sure-Weld	Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-75.0
R-95	Existing mineral surface cap sheet, smooth surface BUR or smooth surface modified cap sheet	CELCORE (FL2037): Min. 300 psi, Min. 2-inch thick, Celcore Cellular Concrete (EPS board optional)	Sure-Weld	Aqua Base 120	-82.5
R-96	Existing mineral surface cap sheet, smooth surface BUR or smooth surface modified cap sheet	CELCORE (FL2037): Min. 300 psi, Min. 2-inch thick, Celcore Cellular Concrete (EPS board optional)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-135.0
R-97	Existing mineral surface cap sheet	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional).	Sure-Weld	Aqua Base 120, CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-135.0
R-98	Existing smooth surface BUR or smooth surface modified cap sheet	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional).	Sure-Weld	Aqua Base 120	-217.5
R-99	Existing smooth surface BUR or smooth surface modified cap sheet	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional).	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-262.5
R-100	Existing asphalt BUR	CONCRECEL (FL5584 & FL10500): Min. 350 psi, min. 2-inch thick, Concrecel Lightweight Insulating Concrete (EPS board optional)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-375.0
R-101	Existing asphalt BUR or smooth- or granule-surface SBS modified bitumen	ELASTIZELL (NOA 23-0817.05): Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	Sure-Weld	Aqua Base 120	-67.5
R-102	Existing asphalt BUR or granule-surface SBS modified bitumen	ELASTIZELL (NOA 23-0817.05): Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-302.5
R-103	Existing asphalt BUR or smooth-surface SBS modified bitumen	ELASTIZELL (NOA 23-0817.05): Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	Sure-Weld	CAV-GRIP III AP, LVOC BA or Sure-Weld BA	-342.0
<b>SURE-WELD FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>					

**TABLE 7H: RECOVER APPLICATIONS**
**SYSTEM TYPE F-2: NEW LIGHTWEIGHT CONCRETE OVER EXISTING ROOF, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new LWC and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Note 1, Note 12)	Lightweight Concrete	Roof Cover (Note 15)		MDP (psf) <sup>A</sup>
			Type	Attach	
R-104	Existing gravel surface BUR	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional).	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-75.0
R-105	Existing mineral surface cap sheet	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional).	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-135.0
R-106	Existing smooth surface BUR or smooth surface modified cap sheet	CELCORE (FL2037): Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete (EPS board optional).	Sure-Weld FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-232.5
R-107	Existing asphalt BUR or smooth- or granule-surface SBS modified bitumen	ELASTIZELL (NOA 23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS optional board)	Sure-Weld FleeceBACK	Flexible FAST (FULL)	-250.0

**TABLE 8A: HILTI PART / SUPPORT THICKNESS LIMITATIONS<sup>1</sup>**

HILTI PART	STEEL SUPPORTING MEMBER THICKNESS (INCH)
X-ENP-19 L15, X-ENP-19 L15MX or X-ENP-19 L15MXR	$t \geq 0.25$
X-EDN19 THQ12 or X-EDN19 THQ12M	$0.25 \leq t \leq 0.375$
X-EDNK22 THQ12 or X-EDNK22 THQ12M	$t = 0.25$
X-HSN 24	$0.125 \leq t \leq 0.375$
S-MD 12-24 x 1-5/8 M HWH5	$0.125 < t \leq 0.25$

**TABLE 8B: HILTI PART / TYPE B STEEL DECK ATTACHMENT-SPAN LIMITATIONS<sup>1</sup>**

HILTI PART	MAX. SPACING (INCH O.C.)	MAX. ALLOWABLE DESIGN PRESSURE (PSF)	MAX. SPAN (INCHES)					
			Min. 22 ga. steel		Min. 20 ga. steel		Min. 18 ga. steel	
			Min. 33 ksi	Min. 80 ksi	Min. 33 ksi	Min. 80 ksi	Min. 33 ksi	Min. 80 ksi
X-ENP-19 L15 X-ENP-19 L15MX X-ENP-19 L15MXR X-EDN19 THQ12 X-EDN19 THQ12M X-EDNK22 THQ12 X-EDNK22 THQ12M X-HSN 24 or S-MD 12-24 x 1-5/8 M HWH5	12	-45.0	72	72	72	72	72	72
	6	-82.5*	72	72	72	72	72	72
	6	-90.0*	68	72	72	72	72	72
	6	-97.5*	63	72	72	72	72	72
	6	-105.0*	59	72	72	72	72	72
	6	-112.5*	55	72	67	72	72	72
	6	-120.0*	51	72	63	72	72	72
	6	-127.5*	48	72	59	72	72	72
	6	-135.0*	45	72	56	72	72	72
	6	-142.5*	43	72	53	72	72	72
	6	-150.0*	41	72	50	72	69	72
	6	-157.5*	39	71	48	72	65	72
	6	-165.0*	37	68	46	72	62	72
	6	-165.0*	35	65	44	72	60	71
	6	-172.5*	34	62	42	72	57	68
	6	-180.0*	33	60	40	72	55	65
	6	-187.5*	31	57	39	71	53	62
6	-195.0*	30	55	37	68	51	60	
6	-202.5*	29	53	36	66	49	58	
6	-210.0*	28	51	36	63	47	56	
6	-217.5*	27	50	33	61	46	54	
6	-225.0*	26	48	32	59	44	52	

\*Limited to fully or partially adhered roof coverings.

<sup>1</sup> Information is provided as guidance for use at the discretion of the Designer or Record and Authority Having Jurisdiction. Neither NEMO|etc. nor Robert Nieminen, P.E. purport to evaluate Hilti fasteners for compliance with the Florida Building Code.