



**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-002.B.R18**

**FL14165-R21 (HVHZ)**

Date of Issuance: 06/27/2013

**Revision 18: 02/21/2024**

**SCOPE:**

This P.E. Evaluation Report (henceforth 'PEER') is issued under [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, High Velocity Hurricane Zone (HVHZ)** [sections noted herein](#).

**DESCRIPTION: Sure-Flex Roof Systems (HVHZ)**

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

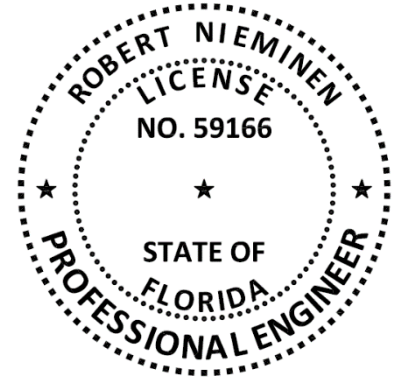
**CONTINUED COMPLIANCE:** This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify 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 83-page 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:** **Sure-Flex 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, High Velocity Hurricane Zone (HVHZ)** 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
TAS 110	Resistance to Foot Traffic	TAS 114, Section 8.9
TAS 110	Wind resistance	TAS 114, Appendix C, D or J
TAS 110	Susceptibility to Hail Damage	TAS 114, Appendix F
TAS 110	Susceptibility to Leakage	TAS 114, Appendix G
TAS 110	Material standard	ASTM D6163
TAS 110	Material standard	ASTM D6164
TAS 110	Material standard	ASTM D4434

**3. REFERENCES:**

ENTITY	EXAM	REFERENCE	DATE	ENTITY	EXAM	REFERENCE	DATE
ERD (TST 6049)	ASTM D4434	CRL-SC12065.06.17-1-R1	07/11/17	FM (TST1867)	FM 4474	3039344	06/14/12
NEMO (TST 6049)	ASTM D4434	CRL-SC14245.02.18	02/16/18	FM (TST1867)	FM 4474	3047327	09/13/12
NEMO (TST 6049)	ASTM D4434	4S-CRL-18-001.10.18-1A-R2	10/29/18	FM (TST1867)	FM 4474	3040639	09/18/12
NEMO (TST 6049)	ASTM D4434	4S-CRL-18-001.10.18-2A-R1	10/29/18	FM (TST1867)	FM 4474	3040449	10/02/12
NEMO (TST 6049)	ASTM D4434	4r-CRL-19-SSTHP-03.A	08/23/19	FM (TST1867)	Criticality	3047012	10/22/12
NEMO (TST 6049)	ASTM D4434	4r-CRL-20-SSTHP-01.A	02/23/21	FM (TST1867)	FM 4474	3042075	10/23/12
NEMO (TST 6049)	ASTM D4434	4r-CRL-20-SSTHP-01.B	02/23/21	FM (TST1867)	FM 4474	3047218	11/20/12
NEMO (TST 6049)	ASTM D4434	4r-CRL-22-SSTHP-01.A	11/14/23	FM (TST1867)	FM 4474	3048585	02/07/13
NEMO (TST 6049)	ASTM D4434	4r-CRL-22-SSTHP-01.B	12/20/23	FM (TST1867)	FM 4474	3047474	07/25/13
NEMO (TST 6049)	ASTM D4434	4r-CRL-22-SSTHP-01.C	12/20/23	FM (TST1867)	FM 4451	3049232	09/11/13
PRI CMT(TST5878)	ASTM D6163	1655T0009	01/21/22	FM (TST1867)	FM 4474	3051593	01/21/14
PRI CMT(TST5878)	ASTM D6164	165560010	01/21/22	FM (TST1867)	FM 4474	3051602	01/28/14
ACRC (TST4671)	TAS 114	07-052	08/30/07	FM (TST1867)	FM 4474	797-08172-267	02/25/14
ACRC (TST4671)	TAS 114	10-008	04/23/10	FM (TST1867)	FM 4474	3048639	08/24/14
ACRC (TST4671)	TAS 114	11-037	06/29/11	FM (TST1867)	FM 4474	3048753	09/16/14
ACRC (TST4671)	TAS 114	15-007	04/01/15	FM (TST1867)	FM 4474	3053933	06/30/15
ACRC (TST4671)	TAS 114	15-044	01/04/16	FM (TST1867)	FM 4474	3053649	09/09/15
ATI (TST1558)	TAS 114	91340.01-111-47	05/06/09	FM (QUA1840)	Traceability	3056620	10/12/15
ATI (TST1558)	TAS 114	C1141.01-109-18	09/11/12	FM (TST1867)	FM 4451	3054498	11/30/15
CTL (TST 1577)	TAS 114	CTLA-105R	10/13/08	FM (TST1867)	FM 4474	3057736 (data)	01/08/16
CTL (TST 1577)	TAS 114	CTLA-105R-1	10/13/08	FM (TST1867)	FM 4474	3050229	01/25/16
CTL (TST 1577)	TAS 114	CTLA-105R-2	10/13/08	FM (TST1867)	FM 4474	3055167	02/10/16
CTL (TST 1577)	TAS 114	CTLA-106R	10/16/08	FM (TST1867)	FM 4474	3056017	06/20/16
CTL (TST 1577)	TAS 114	CTLA-106R-1	10/16/08	FM (TST1867)	FM 4474	RR206411	09/26/16
CTL (TST 1577)	TAS 114	CTLA-106R-2	10/16/08	FM (TST1867)	FM 4474	3056745	09/28/16
CTL (TST 1577)	TAS 114	CTLA-106R-3	10/16/08	FM (TST1867)	FM 4474	3058058	11/04/16
CTL (TST 1577)	TAS 114	CTLA-106R-4	10/16/08	FM (TST1867)	Criticality	PR451012	09/11/18
CTL (TST 1577)	TAS 117	CTLA 111R	01/13/09	FM (TST1867)	FM 4474	PR449651	09/25/18
ERD (TST 11294)	FM 4474	CTL13380.01.17	01/27/17	FM (TST1867)	FM 4474	RR215829	10/03/18
ERD (TST 11294)	FM 4474	CTL16160.08.17-1	08/28/17	FM (TST1867)	FM 4474	3063085	10/05/18
ERD (TST 11294)	FM 4474	CTL16160.08.17-2	08/28/17	FM (TST1867)	FM 4474	PR451012 (data)	10/11/18
ERD (TST 6049)	FM 4474	SFS-SC10010.02.16	02/29/16	FM (TST1867)	Criticality	PR451012	12/13/18
FM (TST1867)	FM 4470	0V7A4.AM	06/10/92	FM (TST1867)	FM 4474	PR452297 (data)	12/19/18
FM (TST1867)	FM 4470	1D7A4.AM	11/09/98	FM (TST1867)	FM 4474	PR452773 (data)	01/31/19
FM (TST1867)	FM 4470	3000066	06/23/99	FM (TST1867)	FM 4474	PR451012 (data)	02/01/19
FM (TST1867)	FM 4470	3013584	06/27/03	FM (TST1867)	Criticality	PR452369 (data)	04/19/19
FM (TST1867)	FM 4470	3014692	08/05/03	FM (TST1867)	FM 4474	PR451520 (data)	05/02/19
FM (TST1867)	FM 4474	3019897	10/07/05	FM (TST1867)	FM 4474	PR453044	05/30/19
FM (TST1867)	FM 4474	3021764	01/11/06	FM (TST1867)	FM 4474	PR453924(data)	06/19/19
FM (TST1867)	FM 4474	3021941	03/20/06	FM (TST1867)	FM 4474	3060914	06/20/19

ENTITY	EXAM	REFERENCE	DATE	ENTITY	EXAM	REFERENCE	DATE
FM (TST1867)	FM 4474	3025919	03/20/06	FM (TST1867)	FM 4474	PR453922	08/08/19
FM (TST1867)	FM 4474	3023458	07/18/06	FM (TST1867)	FM 4474	PR452049	08/27/19
FM (TST1867)	FM 4474	3040639	09/18/12	FM (TST1867)	FM 4474	PR460398 (data)	01/29/20
FM (TST1867)	FM 4474	3028478	01/05/07	FM (TST1867)	FM 4474	PR453353	01/31/20
FM (TST1867)	FM 4474	3026964	07/25/07	FM (TST1867)	FM 4474	PR453923	02/02/20
FM (TST1867)	FM 4470	3030926	08/07/07	FM (TST1867)	FM 4474	PR451812	04/24/20
FM (TST1867)	FM 4474	3028438	08/22/07	FM (TST1867)	FM 4474	RR223958	06/10/20
FM (TST1867)	FM 4474	3031350	09/27/07	FM (TST1867)	FM 4474	RR224173	06/30/20
FM (TST1867)	FM 4474	3028154	11/16/07	FM (TST1867)	FM 4474	PR460398 (data)	06/23/21
FM (TST1867)	FM 4474	3026951	01/21/08	FM (TST1867)	FM 4474	PR456208 (data)	09/28/21
FM (TST1867)	FM 4474	3031349	05/13/08	FM (TST1867)	FM 4474	PR453924 (data)	11/10/21
FM (TST1867)	FM 4474	3034985	12/15/08	FM (TST1867)	FM 4474	PR453924 (data)	12/08/21
FM (TST1867)	FM 4474	3034066	04/14/09	FM (TST1867)	FM 4474	PR456395	02/14/22
FM (TST1867)	FM 4474	3037400	09/08/09	M-D (CER1592)	TAS 114	21-1229.06	02/24/22
FM (TST1867)	FM 4474	3034297	11/13/09	M-D (CER1592)	TAS 114	18-0208.03	08/09/18
FM (TST1867)	FM 4474	3039344	07/13/10	NEMO	Data Release	NE-FRM-0025-USG	02/17/21
FM (TST1867)	FM 4474	3039344	07/14/10	NEMO	Data Release	NE-FRM-0025-SFS	11/29/21
FM (TST1867)	FM 4474	3040449	07/15/10	NEMO	Data Release	NE-FRM-0025-OMG	11/30/21
FM (TST1867)	FM 4474	3038140	08/04/10	NEMO (TST 6049)	FM 4474	4-CRL-18-003.05.18	05/15/18
FM (TST1867)	FM 4474	3040639	08/11/10	NEMO (TST 6049)	FM 4474	CRL-SC16815.06.18	06/07/18
FM (TST1867)	FM 4474	3040639	08/13/10	NEMO (TST 6049)	Criticality	4S-CRL-18-005.11.18	11/06/18
FM (TST1867)	Criticality	3037608	08/18/10	NEMO (TST 6049)	FM 4474	4L-CEL-18-001.12.18	12/14/18
FM (TST1867)	FM 4474	3040639	10/06/10	NEMO (TST 6049)	FM 4474	4L-CRL-18-003.12.18	01/14/20
FM (TST1867)	FM 4474	3040639	10/17/10	NEMO (TST 6049)	FM 4474	2a-CRL-19-LWWUS-02.A	01/14/20
FM (TST1867)	FM 4474	3039344	04/07/11	NEMO (TST 6049)	FM 4474	4a-CRL-19-LSWUS-01.A	01/14/20
FM (TST1867)	FM 4474	3043437	06/03/11	NEMO (TST 6049)	FM 4474	4a-CRL-19-LSWUS-02.A	03/05/20
FM (TST1867)	FM 4474	3041535	06/08/11	NEMO (TST 11294)	FM 4474	2-CRL-18-002.04.18	05/15/18
FM (TST1867)	FM 4474	3043858	08/23/11	NEMO (TST 11294)	FM 4474	2a-CRL-19-LSWUS-01A	05/13/19
FM (TST1867)	FM 4474	3043859	08/23/11	NEMO (TST 11294)	FM 4474	2-CRL-18-002.10.18-2-R1	01/23/20
FM (TST1867)	FM 4474	3043858	08/25/11	NEMO (TST 11294)	FM 4474	2a-CRL-20-LSWUS-01.A	04/13/20
FM (TST1867)	FM 4474	3041797	10/13/11	NEMO (TST 11294)	FM 4474	2a-CRL-22-LSWUS-02.A	03/29/22
FM (TST1867)	FM 4474	3039073	11/22/11	NEMO (TST 11294)	FM 4474	2a-CRL-22-LSWUS-01.A	07/18/22
FM (TST1867)	FM 4474	3043427	12/01/11	NEMO (TST11294)	FM 4474	2a-CRL-23-LSWUS-01.A	04/12/23
FM (TST1867)	FM 4474	3043859	12/16/11	NEMO	Traceability	FBC PCL-USP	10/14/22
FM (TST1867)	FM 4474	3040260	02/27/12	UL, LLC (QUA9625)	QA	Service Confirmation	07/06/22
FM (TST1867)	FM 4474	3043859	03/19/12	UL, LLC. (QUA9625)	QA	Florida BCIS	Current

#### 4. PRODUCT DESCRIPTION:

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

TYPE	PRODUCT		MATERIAL STANDARD			PLANT(S)
			REFERENCE	TYPE	GRADE	
ROOF COVER OR CAP PLY	Sure-Flex PVC	50, 60, 80-mil	ASTM D4434	III	N/A	IL
	Sure-Flex PVC FRS	60, 80-mil	ASTM D4434	II	N/A	IL, NJ
	Sure-Flex KEE HP	50, 60, 80-mil	ASTM D4434	III	N/A	IL
	Sure-Flex PVC FleeceBACK	60, 80-mil	ASTM D4434	III	N/A	IL
	Sure-Flex PVC FRS FleeceBACK	60, 80-mil	ASTM D4434	III	N/A	NJ
	Sure-Flex KEE HP FleeceBACK	50, 60, 80-mil	ASTM D4434	III	N/A	IL
	Sure-Flex KEE HP FRS FleeceBACK	50, 60, 80-mil	ASTM D4434	III	N/A	NJ
	Sure-Flex FleeceBACK RL	60-mil	ASTM D4434	III	N/A	IL
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 exclusively for use in High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 The evaluation herein pertains to above-deck roof components; deck-attachment details pertain to ‘as-tested’ conditions under [Testing Application Standard TAS 114, Appendix J](#). Roof decks shall be in accordance with **FBC HVHZ** requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This PEER does not include evaluation of fire classification. Refer to **FBC HVHZ 1516** 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 [Roofing Application Standard RAS 111](#) for requirements and limitations regarding edge securement for low-slope roofs.
- 5.6 Refer to **FBC HVHZ 1521** 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 [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 [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 [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 [Testing Application Standard TAS 114](#) has already been applied). Refer to **FBC HVHZ 1620** and [Roofing Application Standard RAS 128](#) for determination of design wind loads.
- 5.7.2 For mechanically attached components, 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 HVHZ 1620** or [Roofing Application Standard RAS 128](#). Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Analysis shall be in accordance with [Roofing Application Standard RAS 117](#) or **RAS 137**. *\*This extrapolation is not permitted for systems marked with an asterisk\*.*
- 5.7.3 For tables and/or assemblies marked with an asterisk\*, the maximum design pressure (MDP) limitation shall be applicable to all roof pressure zones. Rational analysis is not permitted.
- 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:**

**Sure-Flex 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 83-PAGES THAT FOLLOW FORM PART OF THIS PEER -**

FBC HVHZ

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

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
<a href="#">1A</a>	Wood	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top 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 Base Ply, Bonded Roof Cover	7
<a href="#">1C</a>	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	8
<a href="#">1D</a>	Wood	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	11
<a href="#">1E</a>	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	12
<a href="#">2A</a>	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	13
<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	15
<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	25
<a href="#">2D</a>	Steel	New, Reroof (Tear-Off), Recover	B-2	Mechanically Attached Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	26
<a href="#">2E</a>	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	29
<a href="#">2F</a>	Steel	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	41
<a href="#">2G</a>	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	43
<a href="#">3A</a>	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	46
<a href="#">3B</a>	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	56
<a href="#">3C</a>	Structural concrete	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	57
<a href="#">3D</a>	Structural concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	57
<a href="#">4A</a>	Deck with Lightweight concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	58
<a href="#">4B</a>	Deck with Lightweight concrete	New, Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	64
<a href="#">4C</a>	Deck with Lightweight concrete	New, Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	66
<a href="#">5A</a>	Cementitious wood fiber	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	68
<a href="#">5B</a>	Cementitious wood fiber	New, Recover	F	Non-Insulated, Bonded Roof Cover	70
<a href="#">6A</a>	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	71
<a href="#">6B</a>	Existing gypsum	Reroof (Tear-Off)	F	None-Insulated, Bonded Roof Cover	73
<a href="#">7A</a>	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	74
<a href="#">7B</a>	Various	Recover	A-1	Bonded Insulation, Bonded Base Ply, Bonded Roof Cover	79
<a href="#">7C</a>	Steel	Recover	C-2	Induction Welded Roof Cover	80
<a href="#">7D</a>	Steel	Recover	D-1	Insulated, Mechanically Attached Roof Cover	81
<a href="#">7E</a>	Various	Recover	F	Non-Insulated, Bonded Roof Cover	82
<a href="#">8A/8B</a>	Guidance / Limitations for use of Hilti fasteners in Type B steel deck securement beneath Carlisle roof systems				83



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 HVHZ requirements to the satisfaction of the Authority Having Jurisdiction. Deck-attachment details pertain to 'as-tested' conditions under [Testing Application Standard](#) TAS 114, Appendix J.
  - 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 span 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	PARTS	MINIMUM ENGAGEMENT
Wood	Carlisle SynTec	HP Fastener with Insulation Fastening Plate	Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment
Steel	Carlisle SynTec	HP Fastener with Insulation Fastening Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
Structural Concrete	Carlisle SynTec	HD 14-10 Fastener, CD-10 or HP Concrete Spike (1/4) with Insulation Fastening Plate	Minimum 1.25-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 HVHZ 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 Minimum 200 psi, minimum 2-inch thick FBC HVHZ Approved lightweight insulating concrete may be substituted for, or installed below, 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. If mechanical attachment to the structural deck through lightweight insulating concrete is proposed, field withdrawal resistance testing shall be performed to confirm equivalent or determine enhanced fastening patterns and density. All testing and fastening design shall be in compliance with [Testing Application Standard](#) TAS 105 and [Roofing Application Standard](#) RAS 117 and/or RAS 137. Calculations shall be prepared, signed and sealed by a qualified design professional.
- 5 Preliminary insulation attachment: Unless otherwise noted, use FBC HVHZ Approved roofing fasteners and plates; minimum four per 4 x 8 ft board or minimum two per 4 x 4 ft board. 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 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 OR NOA		
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 Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
- 9 For mechanically attached components, 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 HVHZ 1620 or [Roofing Application Standard](#) RAS 128. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria in accordance with [Roofing Application Standard](#) RAS 117 or RAS 137. \*This extrapolation is not permitted for systems marked with an asterisk\*
- 10 For assemblies marked with an asterisk\*, 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 in accordance with [Testing Application Standard](#) TAS 105. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Should the fastener resistance be less than that required, a revised fastener spacing – prepared, signed and sealed by a qualified design professional in accordance with [Roofing Application Standard](#) RAS 117 or RAS 137 – may be submitted to the Building Official for review and acceptance.
- 12 Refer to FBC HVHZ 1521 for requirements and limitations regarding recover installations. 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 in accordance with [Testing Application Standard](#) TAS 124.
- 13 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 HVHZ 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 HVHZ 1516 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 FBC HVHZ 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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Carlisle Low VOC PVC Bonding Adhesive	Contact (both sides)	0.83 gal/square per surface [(1.66 gal/square (60 ft <sup>2</sup> /gal) finish]
Sure-Flex PVC or Sure-Flex PVC FRS	Carlisle Aqua Base 120 Bonding Adhesive	Contact (both sides)	0.42 to 0.5 gal/square per surface [(0.83 to 1.0 gal/square (100 to 120 ft <sup>2</sup> /gal) finish]
Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond Water-Based PVC BA (HydroBond WB)	Wet lay (substrate)	0.75 to 1 gal/square (100 to 133 ft <sup>2</sup> /gal)
Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	Contact (both sides)	3.0 lb/square per surface (~800 ft <sup>2</sup> /standard cylinder per finished surface)
	<i>Note:</i>	<i>CAV-GRIP PVC Adhesive is an acceptable alternate to Low VOC PVC Bonding Adhesive when used to fully adhere Sure-Flex PVC and Sure-Flex PVC FRS to DensDeck Prime, EcoStorm VSH, Insulbase, SecurShield, SecurShield HD, SecurShield HD Plus, SecurShield HD Composite, SECUROCK Gypsum-Fiber Roof Board or StormBase. CAV-GRIP PVC Adhesive is not for use with Detec Systems "TruGround Conductive Primer".</i>	
Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Carlisle Aqua Base 120 Bonding Adhesive	Wet lay (substrate)	0.83 gal/square (120 ft <sup>2</sup> /gal)
Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST, FAST Dual-Tank (DT)	Wet lay (substrate)	RIBBON spaced as noted herein or FULL = 1 gal/square or continuous ribbons, maximum 4-inch o.c.
Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST Dual-Tank (DT)	Wet lay (substrate)	RIBBON spaced as noted herein or FULL Coverage = 1 gal/square; continuous ribbons, max. 4-inch o.c. or splatter-applied at 0.4 gal/square (wet) = 3.7 lb/square (dry)
Sure-Flex 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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP adhered in Carlisle Low VOC PVC Bonding Adhesive over InsulBase, SecurShield, SecurShield HD or SecurShield HD Plus, 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 <a href="#">3A</a> OR <a href="#">3B</a> (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
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 <a href="#">TABLE 5A</a> (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 SPLATTER)	-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 PEER.

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	BY	LISTED PRODUCT HEREIN	ALTERNATE	FBC OR NOA
ADHESIVES	Carlisle SynTec	OB500	OMG OlyBond 500 Adhesive Fastener	NOA 22-0519.04
ROOFING INSULATION	Carlisle SynTec	InsulBase	InsulBase NH, H-Shield, H-Shield NH	NOA 19-0521.04
		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	NOA 22-1223.04

19 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC (HVHZ) 1620 and Roofing Application Standard RAS 128 for determination of design wind loads. (Notes 9 and 10)

TABLE 1A: 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 (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)		
<b>BAREBACK APPLICATIONS:</b>								
W-1.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6" o.c.	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-Flex PVC or Sure-Flex PVC FRS in CAV-GRIP PVC Adhesive, HydroBond WB or Low VOC PVC BA or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
W-2.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6" o.c.	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-Flex PVC or Sure-Flex PVC FRS in CAV-GRIP PVC Adhesive, HydroBond WB or Low VOC PVC BA or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
W-3.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6" o.c.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-60.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								

**TABLE 1A: 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-4.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6" o.c.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
W-5.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6" o.c.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
<b>SURE-FLEX FLEECEBACK RL APPLICATIONS:</b>								
W-6.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6" o.c.	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 RL or min. 1.5-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex FleeceBACK RL	-60.0

**TABLE 1B: 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>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>									
W-7.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6" o.c.	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 DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	SureMB 90TG or 120TG / torch-applied	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-60.0

**TABLE 1c: 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>	<a href="#">MDP (psf)</a>
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach		
<b>BAREBACK APPLICATIONS:</b>							
W-8.	Min. 19/32-inch CDX plywood or wood plank; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Carlisle InsulFast with SecurFast Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-30.0
W-9.	Min. 19/32-inch CDX plywood or wood plank; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-37.5
W-10.	Min. 19/32-inch CDX plywood or wood plank; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
W-11.	Min. 19/32-inch CDX plywood or wood plank; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
W-12.	Min. 19/32-inch CDX plywood or wood plank; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0
W-13.	Min. 23/32-inch plywood; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
W-14.	Min. 23/32-inch plywood; 24-inch span; 8d ring shank nails, 6-inch o.c.	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACfoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
W-15.	Min. 23/32-inch plywood; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers	Min. 1-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
W-16.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-60.0
W-17.	Min. 19/32-inch CDX plywood or wood plank; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-60.0

**TABLE 1c: 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-18.	Min. 19/32-inch CDX plywood or wood plank; 24-inch span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-67.5
W-19.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
W-20.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
W-21.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0
W-22.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.7 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP in Low VOC PVC BA	-45.0
W-23.	Min. 23/32-inch plywood; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
W-24.	Min. 23/32-inch plywood; 2-ft span; 8d ring shank nails, 6-inch o.c.	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch HP Recovery Board	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / Low VOC PVC BA	-45.0*
W-25.	Min. 23/32-inch plywood; 2-ft span; 8d ring shank nails, 6-inch o.c.	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
W-26.	Min. 23/32-inch plywood; 2-ft span; 8d ring shank nails, 6-inch o.c.	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / Aquabase 120 Water Based BA	-45.0*
W-27.	Min. 23/32-inch plywood; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers	Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
W-28.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-60.0



**TABLE 1c: 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-29.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
W-30.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
W-31.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-67.5
W-32.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Carlisle InsulFast with Insulation Fastening Plate	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP in Low VOC PVC BA	-67.5
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>							
W-33.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST (FULL), Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-34.	Min. 23/32-inch plywood	(Optional) One or more layers	Min. 1-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST (FULL), Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-35.	Min. 23/32-inch plywood	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST (FULL), Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-36.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-37.	Min. 23/32-inch plywood; 2-ft span; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
W-38.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0
W-39.	Min. 19/32-inch CDX plywood or wood plank; 2-ft spans; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0

**TABLE 1c: 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-40.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(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 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
W-41.	Min. 19/32-inch CDX plywood or wood plank; 2-ft span; 8d ring shank nails, 6-inch o.c.	(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 1.8 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
W-42.	Min. 19/32-inch CDX plywood or wood plank at max. 2-ft span; 8d ring shank nails, 6-inch o.c.	(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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0

**TABLE 1d: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Insulation Layer(s) <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 / Pattern		
<b>RHINO BOND SYSTEMS:</b>						
W-43.	Min. 19/32-inch plywood; 2-ft span	(Optional) One or more layers, any thickness or combination	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board)	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	- 45.0*
W-44.	Min. 19/32-inch plywood; 2-ft span	(Optional) One or more layers, any thickness or combination	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	- 45.0*
W-45.	Min. 19/32-inch (for new construction) or min. 15/32-inch (for re-roof or recover) plywood; 2-ft span; 8d ring shank nails 6-inch o.c.	(Optional) One or more layers, any thickness or combination	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 2.7 ft <sup>2</sup> (12 parts per 4 x 8 ft board)	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-45.0
W-46.	Min. 19/32-inch (for new construction) or min. 15/32-inch (for re-roof or recover) plywood; 2-ft span; 8d ring shank nails 6-inch o.c.	(Optional) One or more layers, any thickness or combination	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	Max. 6" o.c. in rows max. 60" o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-60.0
W-47.	Min. 19/32-inch plywood; 2-ft span; 8d ring shank nails 6-inch o.c.	(Optional) One or more layers, any thickness or combination	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 2.7 ft <sup>2</sup> (12 parts per 4 x 8 ft board)	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-67.5

**TABLE 1E: 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						MDP <a href="#">(psf)</a>
		Type	Attach <a href="#">(Note 5)</a>	Membrane	Fastener	Fastener Spacing (inch o.c.)	Lap Width (inch)	Lap Spacing (inch o.c.)	Seam Weld (inch)	
W-48.	Min. 19/32-inch APA rated CDX plywood at max. 24-inch span; 8d ring shank nails, 6" o.c.	One or more layers, any combination	prelim attach	Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener with Piranha Plate	6	5.5	114.5	1.5	-45.0
W-49.	Min. 23/32-inch plywood or wood plank at max. 2-ft span attached using Trufast Spax 8x1-½, Spax 8x2, Spax 10x1½, Spax 10x2 fasteners or OMG Fasten-Master GuardDog 1-5/8 in. or 2 in. screws spaced 6-inch o.c. in the field and spaced 3-inch o.c. at the panel ends.	One or more layers, any combination	prelim. attach	Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener with Piranha Plate	6	5.5	75.5	1.5	-52.5
W-50.	Min. 19/32-inch plywood or wood plank at max. 2-ft span attached using 8d ring shank nails spaced 6-inch o.c. in the field and #10 ring shank nails spaced 4-inch o.c. at the perimeter	One or more layers, any combination	prelim. attach	Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener with Piranha Plate	6	5.5	75.5	1.5	-60.0

**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(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>BAREBACK APPLICATIONS:</b>										
SC-1.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-82.5	
SC-2.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-105.0	
SC-3.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-67.5	
SC-4.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(Optional) VapAir Seal MD, self-adhering	Min. 2-inch 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, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-82.5	
SC-5.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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>Additional Insulation Layer(s):</u> (Optional) 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 or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-82.5	
SC-6.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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)	Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-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(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		
SC-7.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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, min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-82.5	
SC-8.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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)	Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-82.5	
SC-9.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-105.0	
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>										
SC-10.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-82.5	
SC-11.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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)	Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-82.5	
SC-12.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-105.0	
<b>SURE-FLEX FLEECEBACK RL APPLICATIONS:</b>										

**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(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	
SC-13.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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-Flex FleeceBACK RL		-82.5
SC-14.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	(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-Flex FleeceBACK RL		-82.5
SC-15.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	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-Flex 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>BAREBACK APPLICATIONS:</b>								
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>	Min. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-17.	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>	Min. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-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	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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-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-19.	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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-20.	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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-21.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Teks 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-45.0
SC-22.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Teks 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-52.5
SC-23.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Teks 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-60.0
SC-24.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Teks 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-60.0
SC-25.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Teks 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-67.5

**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-26.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-67.5
SC-27.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-75.0
SC-28.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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 (RIBBON, 4-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-82.5
SC-29.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-82.5
SC-30.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-82.5
SC-31.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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 (RIBBON, 4-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-90.0

**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-32.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tekes 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-112.5
SC-33.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tekes 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or Sure-Flex PVC FRS (min. 60-mil) / CAV-GRIP PVC Adhesive	-135.0
SC-34.	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. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-35.	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>	Min. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-36.	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-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-37.	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-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-38.	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 IX	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 2.0-inch Insulfoam HD Composite (Type IX)	Flexible FAST (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-39.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tekes 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC 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-40.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-52.5
SC-41.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-60.0
SC-42.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
SC-43.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-67.5
SC-44.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. 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	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-67.5
SC-45.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-75.0
SC-46.	Min. 22 ga., type B, Grade 33 steel, 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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 (RIBBON, 4-inch o.c.)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP in Low VOC PVC 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-47.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-82.5
SC-48.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-82.5
SC-49.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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 (RIBBON, 4-inch o.c.)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP in Low VOC PVC BA	-90.0
SC-50.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-112.5
SC-51.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC (min. 60-mil) or FRS PVC (min. 60-mil) in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP (min. 60-mil) in Low VOC PVC BA	-135.0
SC-52.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACfoam II	Note 2	1 per 2.0 ft <sup>2</sup>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch HP Recovery Board	OB500	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC 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-53.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACfoam 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	OB500	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
SC-54.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACfoam II	Note 2	1 per 2.0 ft <sup>2</sup>	Additional layers of base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST (FULL)	-45.0*
SC-55.	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. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS 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 DensDeck or DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST (FULL)	-45.0*
SC-57.	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>	Min. 1.0-inch base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS 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. 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 or DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST (FULL)	-45.0*
SC-59.	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 IX	Note 2	1 per 2.0 ft <sup>2</sup>	Min. 2.0-inch Insulfoam HD Composite (Type IX)	Flexible FAST (RIBBON, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-60.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-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-61.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
SC-62.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
SC-63.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-60.0
SC-64.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
SC-65.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-67.5
SC-66.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5, 6" o.c. 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	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-67.5
SC-67.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0
SC-68.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-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 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-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-69.	Min. 22 ga., type B, Grade 33 steel, 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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 (RIBBON, 4-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-82.5
SC-70.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-82.5
SC-71.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-82.5
SC-72.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-82.5
SC-73.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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 (RIBBON, 4-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-90.0
SC-74.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-112.5
SC-75.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5

**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-76.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-135.0
SC-77.	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>	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min 0.25-inch SECUROCK Gypsum- Fiber Roof Board	OB500	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-78.	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 SECUROCK Gypsum- Fiber Roof Board	OB500	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-60.0
<b>SURE-FLEX FLEECEBACK RL APPLICATIONS:</b>								
SC-79.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex FleeceBACK RL	-45.0*
SC-80.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex FleeceBACK RL	-52.5
SC-81.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex FleeceBACK RL	-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-82.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex 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>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>									
SC-83.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-84.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-85.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 screws, 6" o.c. or min. 2,500 psi structural concrete	Min. 2-inch InsulBase, SecurShield	Steel: Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-75.0

**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		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	<a href="#">MDP (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>		
<b>BAREBACK APPLICATIONS:</b>												
SC-86.	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 or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS in CAV-GRIP PVC Adhesive, Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-87.	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)	(Optional) Additional layers base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS in CAV-GRIP PVC Adhesive, Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-88.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex PVC or Sure-Flex PVC FRS / HydroBond	-45.0*
SC-89.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / CAV-GRIP PVC Adhesive or Low VOC PVC BA	-45.0*
SC-90.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c.	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, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS in CAV-GRIP PVC Adhesive, Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC 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		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-91.	Min. 22 ga., type B, Grade 33 steel, #12 HWW Tek's 5, 6" o.c.	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex PVC or Sure-Flex PVC FRS in CAV-GRIP PVC Adhesive, Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-67.5
SC-92.	Min. 22 ga., type B, Grade 33 steel, #12 HWW Tek's 5, 6" o.c.	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex PVC or Sure-Flex PVC FRS in CAV-GRIP PVC Adhesive, Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-67.5
<b>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>												
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	(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	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-94.	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)	(Optional) Additional layers base insulation	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
SC-95.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWW Tek's 5, 6" o.c.	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, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-52.5
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>												



**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		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-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	Min. 1.5-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-97.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime	Carlisle InsulFast with Insulation Fastening Plate	1 per 4 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-98.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-52.5
SC-99.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
SC-100.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-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		Top Insulation Layer(s)		Roof Cover <a href="#">(Note 15)</a>	<a href="#">MDP (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>		
<b>SURE-FLEX FLEECEBACK RL APPLICATIONS:</b>												
SC-101.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH TekS 5, 6" o.c.	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex FleeceBACK RL	-67.5
SC-102.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH TekS 5, 6" o.c.	Min. 0.5-inch DensDeck Prime	Carlisle 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-Flex 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>	<a href="#">MDP (psf)</a>					
			Type	Fastener <a href="#">(Note 2, Note 11)</a>	Attach							
<b>BAREBACK APPLICATIONS:</b>												
SC-103.	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	Steel: Carlisle InsulFast with AccuTrac Plate Concrete: HD 14-10 Fastener, CD-10 or HP Concrete Spike (1/4) with AccuTrac Plate	1 per 2.9 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*					
SC-104.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*					
SC-105.	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: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*					
SC-106.	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 or min. 0.5-inch EcoStorm VSH	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-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-107.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch InsulBase or SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-108.	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 or EcoStorm VSH	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-109.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-110.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
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 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EcoStorm VSH	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-112.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch InsulBase, SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-113.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-45.0*
SC-114.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.25-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-52.5
SC-115.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-52.5
SC-116.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-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-117.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-60.0
SC-118.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-67.5
SC-119.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-67.5
SC-120.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-75.0
SC-121.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-82.5
SC-122.	Min. 22 ga., type B, Grade 33 steel; 6 ft span; two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid concrete	Min 0.5-inch EcoStorm VSH	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-82.5
SC-123.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-112.5
SC-124.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 2-inch SecurShield HD Composite	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-112.5
SC-125.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-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 <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-126.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-112.5
SC-127.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 2-inch SecurShield	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-112.5
SC-128.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid concrete	Min 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-127.5
SC-129.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 2-inch InsulBase or SecurShield	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-127.5
SC-130.	Min. 22 ga., type B, Grade 80 steel; 6 ft span; two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid concrete	Min 0.5-inch EcoStorm VSH	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-135.0
SC-131.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 2.5-inch SecurShield HD Composite	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-150.0
SC-132.	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	Steel: Carlisle InsulFast with AccuTrac Plate Concrete: HD 14-10 Fastener, CD-10 or HP Concrete Spike (1/4) with AccuTrac Plate	1 per 2.9 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / HydroBond	-45.0*
SC-133.	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	Steel: Carlisle InsulFast with AccuTrac Plate Concrete: HD 14-10 Fastener, CD-10 or HP Concrete Spike (1/4) with AccuTrac Plate	1 per 2.9 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-45.0*
SC-134.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC 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-135.	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: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC / Low VOC PVC BA or HydroBond WB	-45.0*
SC-136.	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	Carlisle InsulFast with SecurFast Insulation Fastening Plate	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC / Low VOC PVC 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 0.625-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EcoStorm VSH	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-138.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch InsulBase, SecurShield or SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-139.	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: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
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 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-141.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch SecurShield	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-142.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
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 or min. 0.5-inch EcoStorm VSH	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-144.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch HP Recovery Board	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-45.0*
SC-145.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-45.0*
SC-146.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / Aquabase 120 Water Based 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-147.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / Low VOC PVC BA or HydroBond WB	-45.0*
SC-148.	Min. 22 ga., type B, Grade 33 steel, 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.25-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-52.5
SC-149.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-52.5
SC-150.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 19/32-inch APA rated plywood	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Flex KEE HP in Low VOC PVC BA	-52.5
SC-151.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
SC-152.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 19/32-inch APA rated plywood	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in HydroBond WB	-60.0
SC-153.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.78 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
SC-154.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-60.0
SC-155.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in HydroBond WB	-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 (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-156.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch InsulBase, SecurShield	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex KEE HP in Low VOC PVC BA	-60.0
SC-157.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-67.5
SC-158.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 19/32-inch APA rated plywood	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-67.5
SC-159.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS / Low VOC PVC BA	-67.5
SC-160.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-75.0
SC-161.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex KEE HP / Low VOC PVC BA	-82.5
SC-162.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex KEE HP in Low VOC PVC BA	-82.5
SC-163.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-112.5
SC-164.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 2-inch SecurShield HD Composite	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-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-165.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or EcoStorm VSH	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex KEE HP / Low VOC PVC BA	-112.5
SC-166.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c.	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min 0.5-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	Carlisle InsulFast with SecurFast Insulation Fastening Plate	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC / Low VOC PVC BA	-112.5
SC-167.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex KEE HP / Low VOC PVC BA	-112.5
SC-168.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 2-inch SecurShield	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex KEE HP / Low VOC PVC BA	-112.5
SC-169.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid concrete	Min 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC or Sure-Flex PVC FRS in Low VOC PVC BA or HydroBond WB or Sure-Flex KEE HP in Low VOC PVC BA	-127.5
SC-170.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 2-inch InsulBase or SecurShield	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-127.5
SC-171.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 2.5-inch SecurShield HD Composite	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-150.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>							
SC-172.	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 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0*
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>							

**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-173.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1-inch InsulBase or SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-174.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 1.5-inch InsulBase or SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-175.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2-inch InsulBase or SecurShield	Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-176.	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	Steel: Carlisle InsulFast with AccuTrac Plate Concrete: HD 14-10 Fastener, CD-10 or HP Concrete Spike (1/4) with AccuTrac Plate	1 per 2.9 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-177.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS 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	Min. 1.0-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 0.25-inch DensDeck Prime	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-179.	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 concrete	Min 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-180.	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 concrete	Min 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-45.0*
SC-181.	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 concrete	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-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-182.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-45.0*
SC-183.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.25-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
SC-184.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
SC-185.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch SecurShield	Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
SC-186.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch InsulBase, SecurShield	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-60.0
SC-187.	Min. 22 ga., type B, Grade 33 steel, 6 ft span, #12 HWH Tek 5, 6" o.c. or structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.78 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-60.0
SC-188.	Min. 22 ga., type B, Grade 33 steel, 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. 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: Carlisle InsulFast with SecurFast Insulation Fastening Plate Concrete: HD 14-10 Fastener, CD-10 or HP Concrete Spike (1/4) with SecurFast Insulation Fastening Plate	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / FAST DT Flexible FAST or Flexible FAST DT (FULL)	-60.0
SC-189.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-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 (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-190.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers	Min. 2.0-inch InsulBase, SecurShield	Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-67.5
SC-191.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.8 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-67.5
SC-192.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-75.0
SC-193.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid concrete	Min. 19/32-inch APA rated plywood	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-75.0
SC-194.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-82.5
SC-195.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 15/32-inch plywood	Note 2	1 per 1.9 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Aqua Base 120 BA	-82.5
SC-196.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield	Min. 2-inch SecurShield	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5
SC-197.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5
SC-198.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	Min. 2-inch SecurShield HD Composite	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.3 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS 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 <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-199.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-112.5
SC-200.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid concrete	Min 0.5-inch DensDeck Prime	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-127.5
SC-201.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 2-inch InsulBase or SecurShield	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-127.5
SC-202.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 19/32-inch APA rated plywood	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-135.0
SC-203.	Min. 22 ga., type B, Grade 33 steel, 6 ft span, #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min 2-inch SecurShield HD Composite	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-135.0
SC-204.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, two (2) #12 HWH Tekes 5, 6" o.c. 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 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST DT (FULL)	-150.0
SC-205.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, two (2) #12 Tekes 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) Min. 1-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or ACFoam II	Min. 2.5-inch SecurShield HD Composite	Steel: Carlisle InsulFast with Insulation Fastening Plate Concrete: Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-150.0
<b>SURE-FLEX FLEECEBACK RL APPLICATIONS:</b>							
SC-206.	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: Carlisle InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 4.0 ft <sup>2</sup>	Sure-Flex FleeceBACK RL	-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-207.	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: Carlisle InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 2.0 ft <sup>2</sup>	Sure-Flex FleeceBACK RL	-45.0*
SC-208.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch InsulBase RL	Steel: Carlisle InsulFast with Insulation Fastening Plate or SecurFast Insulation Fastening Plate Concrete: Note 2	1 per 1.6 ft <sup>2</sup>	Sure-Flex FleeceBACK RL	-75.0

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-2: INDUCTION WELDED 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 / Pattern		
<b>RHINO BOND SYSTEMS:</b>						
SC-209.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	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-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-45.0
SC-210.	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>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Flex PVC (min. 60-mil) or Sure-Flex KEE HP (min. 60-mil) induction welded with RhinoBond tool per manufacturer's instructions	-52.5
SC-211.	Min. 22 ga., type B, Grade 33 steel, 7 ft span, 5/8" puddle welds, 6" o.c. Side laps ITW HWH #12 Tek 1, 24" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note C.</a>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Flex PVC (min. 60-mil) or Sure-Flex KEE HP (min. 60-mil) induction welded with RhinoBond tool per manufacturer's instructions	-52.5
SC-212.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	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-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-52.5
SC-213.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 5/8" puddle welds 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination.	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 4.0 ft <sup>2</sup> (2 x 2 ft grid pattern)	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-52.5
SC-214.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 1-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	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-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-60.0

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: INDUCTION WELDED 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 / Pattern		
SC-215.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination. <a href="#">Note A.</a>	HP-Xtra Fastener with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) 2 x 2 ft grid pattern	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-67.5
SC-216.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached <a href="#">(Note 5)</a>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	12-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-52.5
SC-217.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached <a href="#">(Note 5)</a>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	6-inch o.c. in rows max. 120-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-60.0
SC-218.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached <a href="#">(Note 5)</a>	HP-X Fastener or Dekfast DF-#15-PH3 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	6-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-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>					
<b>ISOWELD INDUCTION WELDING SYSTEMS:</b>						
SC-219.	Min. 22 ga., type B, Grade 40 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch, preliminarily attached <a href="#">(Note 5)</a>	Dekfast DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	12-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-45.0
SC-220.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch, preliminarily attached <a href="#">(Note 5)</a>	Dekfast DF-#12-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	12-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-45.0
SC-221.	Min. 22 ga., type B, Grade 40 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	1 per 4.0 ft <sup>2</sup> 2 x 2-ft grid, staggered	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-52.5
SC-222.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	1 per 4.0 ft <sup>2</sup> 2 x 2-ft grid, staggered	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-52.5
SC-223.	Min. 22 ga., type B, Grade 40 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	1 per 3.0 ft <sup>2</sup> 1.5 x 2-ft grid, staggered	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-82.5

**TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: INDUCTION WELDED 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 / Pattern		
SC-224.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	1 per 3.0 ft <sup>2</sup> 1.5 x 2-ft grid, staggered	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-82.5
SC-225.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch, preliminarily attached <a href="#">(Note 5)</a>	Dekfast DF-#12-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	6-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-90.0

**TABLE 2G: 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 (inch o.c.)	Lap Width (inch)	Lap Spacing (inch o.c.)	Seam Weld (inch)	
SC-226.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	12	5.5	75.5	1.5	-45.0
SC-227.	Min. 22 ga., type B, Grade 80 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC	Trufast #15 EHD (steel only) or Trufast Fluted Concrete Nail (concrete only) and Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	12	5.5	75.5	1.5	-45.0
SC-228.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex KEE HP	HP-Xtra Fastener and Piranha Xtra Plate (steel only) or HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	12	5.5	75.5	1.5	-45.0
SC-229.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	12	5.5	54.5	1.5	-45.0

**TABLE 2G: 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 (inch o.c.)	Lap Width (inch)	Lap Spacing (inch o.c.)	Seam Weld (inch)	
SC-230.	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. or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	prelim. attach	Min. 60-mil Sure-Flex PVC, Sure-Flex PVC FleeceBACK or min. 50-mil Sure-Flex KEE HP, Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	114.5	1.5	-45.0
SC-231.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Dekfast PLT-O2-3/4-12	6	6	114	1.5	-45.0
SC-232.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex PVC FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	12	5.5	35.5	1.5	-52.5
SC-233.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex PVC FleeceBACK	Trufast #15 EHD (steel only), Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) and Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	12	5.5	35.5	1.5	-52.5
SC-234.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5 with 3/4" washers, 6" o.c. or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC FleeceBACK or Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	114.5	1.5	-52.5
SC-235.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, 5/8" puddle welds or #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination (optional for recover) followed by 3/8-inch Insulfoam R- Tech EPS or Fan-Fold	Loose laid	Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	75.5	1.5	-52.5
SC-236.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex PVC FleeceBACK	Trufast #15 EHD (steel only), Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) and Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	6	5.5	75.5	1.5	-52.5

**TABLE 2G: 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 (inch o.c.)	Lap Width (inch)	Lap Spacing (inch o.c.)	Seam Weld (inch)	
SC-237.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex PVC FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	12	5.5	35	1.5	-60.0
SC-238.	Min. 22 ga., type B, Grade 33 steel, 7 ft span, 5/8" puddle welds, 6" o.c. Side laps ITW HWH #12 Tek 1, 24" o.c. or min. 2,500 psi structural concrete	Min. 1-inch, one or more layers, any combination	prelim. attach	Min. 60-mil Sure-Flex PVC or min. 50-mil Sure-Flex KEE HP	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	114.5	1.5	-60.0
SC-239.	Min. 22 ga., type B, Grade 40 steel; 6 ft span; 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	Min. 60-mil Sure-Flex PVC or min. 50-mil Sure-Flex KEE HP	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	114.5	1.5	-60.0
SC-240.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex PVC FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	75.5	1.5	-60.0
SC-241.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	54.5	1.5	-67.5
SC-242.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Min. 60-mil Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	54.5	1.5	-75.0
SC-243.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC, Sure-Flex PVC FleeceBACK, Sure-Flex KEE HP or Sure-Flex KEE HP FleeceBACK	HP-X Fastener (steel only), HD 14-10 Fastener (concrete only) or CD-10 (concrete only) with Piranha Plate	6	5.5	35	1.5	-82.5
SC-244.	Min. 22 ga., type B, Grade 33 steel; 6 ft span, #12 HWH Tek 5, 6" o.c. or min. 2,500 psi structural concrete	Min. 1.5-inch, one or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex PVC FleeceBACK	Trufast #15 EHD (steel only), Trufast #14 HD (concrete only) or Trufast Fluted Concrete Nail (concrete only) and Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	6	5.5	35.5	1.5	-82.5



**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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>BAREBACK 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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-157.5
C-2.	Min. 2,500 psi structural concrete	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-225.0
C-3.	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-157.5
C-4.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-315.0
C-5.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-277.5
C-6.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-315.0
C-7.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-112.5
C-8.	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	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-157.5
C-9.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-397.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-10.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-277.5
C-11.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (FULL)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-397.5
C-12.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	Insulation: Min. 1.6-inch Kingspan (Pembridge) "Optim-R" Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-127.5
C-13.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	Insulation: Min. 1.6-inch Kingspan (Pembridge) "Optim-R" Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (FULL)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-397.5
C-14.	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. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-157.5
C-15.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch EcoStorm VSH	Flexible FAST (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-352.5
C-16.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-277.5
C-17.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch EcoStorm VSH	Flexible FAST DT (FULL)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-352.5
C-18.	Min. 2,500 psi structural concrete	Min. 0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (FULL)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-495.0

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-19.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-112.5
C-20.	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-60.0
C-21.	Min. 2,500 psi structural concrete	(Optional) 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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-60.0
C-22.	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-157.5
C-23.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-180.0
C-24.	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. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-157.5
C-25.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-397.5
C-26.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-277.5
C-27.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (FULL)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (FULL)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-397.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-28.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-127.5
C-29.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (FULL)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-397.5
C-30.	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-157.5
C-31.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-352.5
C-32.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-277.5
C-33.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-352.5
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. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-157.5
C-35.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-180.0
C-36.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-112.5
C-37.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-157.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-38.	Min. 2,500 psi structural concrete	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-225.0
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. 0.25-inch DensDeck Prime	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-157.5
C-40.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-315.0
C-41.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-277.5
C-42.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-315.0
C-43.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-112.5
C-44.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST (RIBBON)	<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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-67.5
C-45.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-157.5
C-46.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-180.0
C-47.	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	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-157.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-48.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-397.5
C-49.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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 DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-277.5
C-50.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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	Flexible FAST DT (FULL)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-397.5
C-51.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-127.5
C-52.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (FULL)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-397.5
C-53.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-157.5
C-54.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-352.5
C-55.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-277.5
C-56.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-352.5



**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-57.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-157.5
C-58.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-180.0
C-59.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-112.5
C-60.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-60.0
C-61.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-N, HP-W, ENRGY 3 or AC Foam II	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-60.0
C-62.	Min. 2,500 psi structural concrete	Min. 1.5-inch HP-N or ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Flex PVC or Sure-Flex PVC FRS	Low VOC PVC BA	-127.5
C-63.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulBase, SecurShield, HP-W or AC Foam II	OB500	(Optional) Additional layers of base insulation	OB500	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-150.0
C-64.	Min. 2,500 psi structural concrete	Min. 1.5-inch HP-N or ENRGY 3	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-127.5
C-65.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield, HP-W or AC Foam II	OB500	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime	OB500	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-150.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
C-66.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-37.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
C-67.	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	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-157.5
C-68.	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 SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-157.5
C-69.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-157.5
C-70.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-397.5
C-71.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-277.5
C-72.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-397.5
C-73.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-127.5
C-74.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (FULL)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	HydroBond WB	-397.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-75.	Min. 2,500 psi structural concrete	(Optional) 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5
C-76.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5
C-77.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-397.5
C-78.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-277.5
C-79.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-457.5
C-80.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5
C-81.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-187.5
C-82.	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 or min. 15/32-inch APA rated plywood	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-83.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB or min. 15/32-inch APA rated plywood	Flexible FAST (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-322.5
C-84.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (RIBBON)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB or min. 15/32-inch APA rated plywood	Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-277.5
C-85.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	Flexible FAST DT (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 7/16-inch APA rated OSB or min. 15/32-inch APA rated plywood	Flexible FAST DT (FULL)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-322.5
C-86.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5
C-87.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-397.5
C-88.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-277.5
C-89.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-397.5
C-90.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (RIBBON)	<u>Insulation:</u> Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard:</u> Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-127.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER\***

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

Sys. 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-91.	Min. 2,500 psi structural concrete	Min. 0.5-inch SecurShield HD	Flexible FAST DT (FULL)	<u>Insulation</u> : Min. 1.6-inch Kingspan (Pembridge) "Optim-R" <u>Coverboard</u> : Min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST DT (FULL)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-397.5
C-92.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5
C-93.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-187.5
C-94.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or Min. 1-inch Insulfoam IX	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-112.5
<b>SURE-FLEX FLEECEBACK RL APPLICATIONS:</b>								
C-95.	Min. 2,500 psi structural concrete	(Optional) Min. 0.5-inch InsulBase, SecurShield or min. 1-inch Insulfoam IX	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-Flex 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>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
C-96.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0



**TABLE 3c: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: INDUCTION WELDED 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 / Pattern		
<b>RHINOBOND SYSTEMS:</b>						
C-97.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	HD 14-10 Fastener or CD-10 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	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-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-45.0
C-98.	Min. 2,500 psi structural concrete	Min. 1-inch thick, one or more layers, any combination.	HD 14-10 Fastener or CD-10 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	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-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-60.0
C-99.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination.	HD 14-10 Fastener or CD-10 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	1 per 4.0 ft <sup>2</sup> (8 parts per 4 x 8 ft board) 2 x 2 ft grid pattern	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-67.5
C-100.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached <a href="#">(Note 5)</a>	HD 14-10 Fastener or CD-10 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	Max. 12-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-52.5
C-101.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached <a href="#">(Note 5)</a>	HD 14-10 Fastener or CD-10 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	Max. 6-inch o.c. in rows max. 120-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-60.0
C-102.	Min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, preliminarily attached <a href="#">(Note 5)</a>	HD 14-10 Fastener or CD-10 with RhinoBond Plate-PVC or RhinoBond Treadsafe Plate-PVC	Max. 6-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-90.0
<i>Notes: A. The plate/fastener combination offset 12 inch from adjacent rows.</i>						
<b>ISOWELD INDUCTION WELDING SYSTEMS:</b>						
C-103.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, preliminarily attached <a href="#">(Note 5)</a>	Dekfast DF-#14-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	Max. 12-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-45.0
C-104.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	1 per 4.0 ft <sup>2</sup> 2 x 2-ft grid, staggered	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-52.5
C-105.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	1 per 3.0 ft <sup>2</sup> 1.5 x 2-ft grid, staggered	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-82.5
C-106.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, preliminarily attached <a href="#">(Note 5)</a>	Dekfast DF-#14-PH3 or DF-#15-PH3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate	Max. 6-inch o.c. in rows max. 60-inch o.c.	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-90.0

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

System No.	Deck <a href="#">(Note 1)</a>	Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)</a>
		Type	Attach	
C-107.	Structural concrete	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-495.0



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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	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)		
<b>BAREBACK MEMBRANE APPLICATIONS:</b>								
LWC-1	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-52.5
LWC-2	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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. 2-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-52.5
LWC-3	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-75.0
LWC-4	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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. 2-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-75.0
LWC-5	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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-187.5
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)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 0.25-inch DensDeck Prime or min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-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-7	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 SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-187.5
LWC-8	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-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-350.0
LWC-9	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 min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-350.0
LWC-10	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 SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / CAV-GRIP PVC Adhesive	-350.0
LWC-11	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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-Flex PVC or Sure-Flex PVC FRS / HydroBond WB	-52.5
LWC-12	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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 min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS / HydroBond WB	-52.5
LWC-13	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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-Flex PVC or Sure-Flex PVC FRS / HydroBond WB	-75.0

**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-14	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH TekS 5, 6" o.c.	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 min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / HydroBond WB	-75.0
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)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS / HydroBond WB	-187.5
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.)	<u>Insulation</u> : (Optional) Additional layer(s) base insulation <u>Coverboard</u> : Min. 0.25-inch DensDeck Prime or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC or Sure-Flex PVC FRS / HydroBond WB	-350.0
LWC-17	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH TekS 5, 6" o.c.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-52.5
LWC-18	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH TekS 5, 6" o.c.	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. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-52.5
LWC-19	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH TekS 5, 6" o.c.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-75.0

**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-20	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-75.0
LWC-21	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-187.5
LWC-22	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 min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-187.5
LWC-23	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 SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex KEE HP / Low VOC PVC BA	-187.5
LWC-24	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-Flex PVC or Sure-Flex PVC FRS / Low VOC PVC BA	-350.0
LWC-25	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 min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP / Low VOC PVC BA	-350.0
LWC-26	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 SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex KEE HP / Low VOC PVC BA	-350.0

**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>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
LWC-27	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
LWC-28	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-52.5
LWC-29	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0
LWC-30	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, #12 HWH Tek 5, 6" o.c.	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. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-75.0
LWC-31	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS 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-32	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 min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-187.5
LWC-33	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 SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-187.5
LWC-34	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-350.0
LWC-35	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 min. 0.5-inch SecurShield HD, SecurShield HD Plus or EcoStorm VSH or min. 2-inch SecurShield HD Composite or min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-350.0
LWC-36	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 SECUROCK Gypsum-Fiber Roof Board	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-350.0



**TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)		Supplemental Attachment		Roof Cover (Note 15)		MDP (psf)*
		Type	Treatment	Fastener	Density	Type	Attach	
<b>BAREBACK APPLICATIONS:</b>								
LWC-37	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span, ½-inch dia. puddle welds with weld-washers, 6-inch o.c.	CELCORE (18-0717.05): 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-Flex PVC	Low VOC PVC BA	-60.0
LWC-38	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span, ½-inch dia. puddle welds with weld-washers, 6-inch o.c.	CELCORE (18-0717.05): 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	Note 2	1 per 9.0 ft <sup>2</sup>	Sure-Flex PVC	Low VOC PVC BA	-67.5
LWC-39	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, 5/8" puddle welds, 6-inch o.c.	CELCORE (18-0717.05): 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	None	None	N/A	Sure-Flex PVC	Low VOC PVC BA	-82.5
LWC-40	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span, ½" puddle welds with weld-washers, 6-inch o.c.	CELCORE (18-0717.05): 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	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC	Low VOC PVC BA	-90.0
LWC-41	Min. 22 ga., Type BV, Grade 80 steel; 5 ft span; 5/8" puddle welds with weld washers, 6" o.c	CONCRECEL (21-1229.06): Concrecel Bonding Agent followed by min. 350 psi, min. 2.25-inch thick, Concrecel Lightweight Insulating Concrete (EPS holey board optional)	Concrecel Curing Compound	N/A	N/A	Sure-Flex KEE HP	Low VOC PVC BA	-97.5
LWC-42	Min. 20 ga., Type BV, Grade 33 steel; 6-ft 3-inch span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	None	None	N/A	Sure-Flex KEE HP	Low VOC PVC BA	-52.5
LWC-43	Min. 22 ga., Type BV, Grade 33 steel; 6-ft span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (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-Flex KEE HP	Low VOC PVC BA	-82.5
LWC-44	Min. 22 ga., Type BV, Grade 33 steel; 5-ft span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (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-Flex KEE HP	Low VOC PVC BA	-97.5
LWC-45	Min. 22 ga., Type BV, Grade 33 steel; 5-ft span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (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-Flex KEE HP	Low VOC PVC BA	-112.5
<b>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
LWC-46	Min. 22 ga., Type BV, Grade 40 steel; 6 ft span, 5/8" puddle welds, 6-inch o.c.	CELCORE (18-0717.05): 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-82.5
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								

**TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>		Supplemental Attachment		Roof Cover <a href="#">(Note 15)</a>		MDP (psf)*
		Type	Treatment	Fastener	Density	Type	Attach	
LWC-47	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span, ½” puddle welds with weld-washers, 6-inch o.c.	CELCORE (18-0717.05): 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-60.0
LWC-48	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span, ½” puddle welds with weld-washers, 6-inch o.c.	CELCORE (18-0717.05): 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	Note 2	1 per 9.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-67.5
LWC-49	Min. 22 ga., Type BV, Grade 33 steel; 4 ft span, puddle welds with 3/8-inch weld-washers, 6-inch o.c.	CELCORE (18-0717.05): Min. 38 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-67.5
LWC-50	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span, ½” puddle welds with weld-washers, 6-inch o.c.	CELCORE (18-0717.05): 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	Note 2	1 per 1.0 ft <sup>2</sup>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-120.0
LWC-51	Min. 22 ga., Type BV, Grade 80 steel; 5-ft span; 5/8” puddle welds with weld-washers, 6-inch o.c.	CONCRECEL (21-1229.06): 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST (FULL)	-97.5
LWC-52	Min. 22 ga., Type BV, Grade 80 steel; 6-ft span; 5/8” puddle welds, 6-inch o.c.	CONCRECEL (21-1229.06): Min. 350 psi, min. 2-inch thick, Concrecel Lightweight Insulating Concrete (No EPS board)	None	None	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST (FULL)	-105.0
LWC-53	Min. 22 ga., Type BV, Grade 80 steel; 6-ft span; 5/8” puddle welds with weld-washers, 6-inch o.c.	CONCRECEL (21-1229.06): 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST (FULL)	-135.0

**TABLE 4B: LIGHTWEIGHT CONCRETE OVER STEEL DECK - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck <a href="#">(Note 1)</a>	Lightweight Concrete <a href="#">(Note 14)</a>		Supplemental Attachment		Roof Cover <a href="#">(Note 15)</a>		MDP (psf)*
		Type	Treatment	Fastener	Density	Type	Attach	
LWC-54	Min. 20 ga., Type BV, Grade 33 steel; 6-ft 3-inch span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	None	None	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-52.5
LWC-55	Min. 22 ga., Type BV, Grade 33 steel; 6-ft span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-82.5
LWC-56	Min. 22 ga., Type BV, Grade 33 steel; 5-ft span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-97.5
LWC-57	Min. 22 ga., Type BV, Grade 33 steel; 5-ft span; 5/8" puddle welds or #12 HWH Tekes 5, 6-inch o.c.	ELASTIZELL (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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-112.5
Note:	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 a Minimum Characteristic Resistance Force (MCRF) 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 4c: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Roof Cover (Note 15)		MDP (psf)*
			Membrane	Application	
<b>BAREBACK APPLICATIONS:</b>					
LWC-58	Min. 2,500 psi structural concrete	CELCORE (18-0717.05): 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>	Sure-Flex PVC	Low VOC PVC BA	-90.0
LWC-59	Min. 2,500 psi structural concrete	CONCRECEL (21-1229.06): Min. 350 psi, min. 2.5-inch thick, Concrecel Lightweight Insulating Concrete (EPS board optional)	Sure-Flex KEE HP	Low VOC PVC BA	-330.0
LWC-60	Min. 2,500 psi structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC, an OMG CR-R Assembled Base Sheet Fastener (1.7 in.) shall achieve a MCRF $\geq 101$ lbf per <a href="#">Note 11.</a>	Sure-Flex KEE HP	Low VOC PVC BA	-330.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>					
LWC-61	Min. 2,500 psi structural concrete	CELCORE (18-0717.05): 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>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-232.5
LWC-62	Min. 2,500 psi structural concrete	CONCRECEL (21-1229.06): Min. 350 psi, min. 2-inch thick, Concrecel Lightweight Insulating Concrete (EPS board optional)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST (FULL)	-282.5
LWC-63	Min. 2,500 psi structural concrete	ELASTIZELL (23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (EPS board optional)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-240.0
LWC-64	Min. 2,500 psi structural concrete	ELASTIZELL (23-0817.05): Min. 320 psi, min. 2-inch thick, Elastizell Range II LWIC (no EPS board)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-250.0
LWC-65	Min. 2,500 psi structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC, an OMG CR-R Assembled Base Sheet Fastener (1.7 in.) shall achieve a MCRF $\geq 101$ lbf per <a href="#">Note 11.</a>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST (FULL)	-282.5
LWC-66	Min. 2,500 psi structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC, an OMG CR-R Assembled Base Sheet Fastener (1.7 in.) shall achieve a MCRF $\geq 101$ lbf per <a href="#">Note 11.</a>	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST DT (SPATTER at 3.5-4.0 lbs/sq)	-345.0
Note:	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 a Minimum Characteristic Resistance Force (MCRF) 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 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 <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>BAREBACK APPLICATIONS:</b>								
CFW-1	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	(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	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-82.5
CFW-2	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	Min. 1.5-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-82.5
CFW-3	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	(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 or Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond B-A	-82.5
CFW-4	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	Min. 1.5-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC or Sure-Flex PVC FRS	HydroBond B-A	-82.5
CFW-5	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	(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 or Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-82.5
CFW-6	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	Min. 1.5-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-82.5
CFW-7	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC BA	-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 <a href="#">(psf)*</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Application	
CWF-8	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-277.5
CWF-9	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-277.5
CWF-10	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC BA	-277.5
CWF-11	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-277.5
CWF-12	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-277.5
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
CWF-13	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	(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 or Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-82.5



**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 <a href="#">(psf)*</a>
		Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Attach <a href="#">(Notes 6,7,8)</a>	Type	Application	
CFW-14	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	Min. 1.5-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-82.5
CFW-15	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 Plus or EcoStorm VSH or min. 1.5-inch SecurShield HD Composite	Flexible FAST (FULL) or Flexible FAST DT (FULL)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-277.5
CFW-16	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-277.5

**TABLE 5B: 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 <a href="#">(psf)</a>
			Type	Attach	
CFW-17	Min. 2-inch Tectum Plank; 4 ft span, Trufast #12 Purlin Fastener with Trufast 2" Metal Seam Plate, 3 per joist	None	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (RIBBONS 12-inch o.c.) or Flexible FAST DT (RIBBONS 12-inch o.c.)	-105.0
CFW-18	Min. 2-inch Tectum Plank	None	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL) or Flexible FAST DT (FULL)	-601.5

**TABLE 6A: GYPSUM DECKS – 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	
<b>BAREBACK APPLICATIONS:</b>								
G-1.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-237.5
G-2.	Existing gypsum deck	0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-352.5
G-3.	Existing gypsum deck	Min. 0.5-inch SecurShield HD, SecurShield HD Plus, H- Shield HD	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-397.5
G-4.	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-495.0
G-5.	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 (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-157.5
G-6.	Existing gypsum deck	Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-180.0
G-7.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-237.5
G-8.	Existing gypsum deck	0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-352.5
G-9.	Existing gypsum deck	Min. 0.5-inch SecurShield HD, SecurShield HD Plus, H- Shield HD	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-397.5
G-10.	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-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-495.0

**TABLE 6A: GYPSUM DECKS – 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-11.	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 (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-157.5
G-12.	Existing gypsum deck	Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-180.0
G-13.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-237.5
G-14.	Existing gypsum deck	0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-352.5
G-15.	Existing gypsum deck	Min. 0.5-inch SecurShield HD, SecurShield HD Plus, H- Shield HD	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-397.5
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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-495.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>								
G-17.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST DT, Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
G-18.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch SecurShield HD, SecurShield HD Plus, H- Shield HD	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	FAST DT, Flexible FAST or Flexible FAST DT (RIBBON, 12-inch o.c.)	-45.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
G-19.	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 (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-157.5

**TABLE 6A: GYPSUM DECKS – 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-20.	Existing gypsum deck	Min. 2-inch StormBase (plywood top)	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-187.5
G-21.	Existing gypsum deck	Min. 1-inch InsulBase, SecurShield and/or min. 2-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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-237.5
G-22.	Existing gypsum deck	(Optional) Min. 1-inch Insulfoam IX	Flexible FAST (FULL)	<u>Insulation:</u> (Optional) Additional layer(s) base insulation <u>Coverboard:</u> Min. 1-inch Insulfoam SP (Type IX)	Flexible FAST (FULL)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-295.0
G-23.	Existing gypsum deck	0.5-inch EcoStorm VSH	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-352.5
G-24.	Existing gypsum deck	Min. 0.5-inch SecurShield HD, SecurShield HD Plus, H- Shield HD	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-397.5
G-25.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-495.0

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

System No.	Deck <a href="#">(Note 1, Note 12)</a>	Primer	Roof Cover <a href="#">(Note 15)</a>		MDP <a href="#">(psf)*</a>
			Type	Attach	
G-26.	Existing gypsum deck	None	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-295.0

**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	
<b>BAREBACK 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	(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 or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-145.0
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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-145.0
R-3.	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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-145.0
R-4.	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)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-167.0
R-5.	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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-167.0

**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-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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-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-Flex PVC or Sure-Flex PVC FRS	CAV-GRIP PVC Adhesive	-302.5
R-8.	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)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (Optional) Min. 0.25-inch DensDeck Prime or min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-167.0
R-9.	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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (Optional) Min. 0.25-inch DensDeck Prime or min. 0.5-inch SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-167.0
R-10.	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 min. SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-302.5
R-11.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 0.25-inch DensDeck Prime or min. SecurShield HD, SecurShield HD Plus	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Flex PVC or Sure-Flex PVC FRS	HydroBond WB	-302.5



**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 (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-12.	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)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase (plywood top) or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-145.0
R-13.	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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase (plywood top) or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-145.0
R-14.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2-inch StormBase (plywood top) or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-145.0
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	Min. 1-inch InsulBase, SecurShield	Flexible FAST or Flexible FAST DT (RIBBON)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-167.0
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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-167.0

**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-17.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-302.5
R-18.	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-Flex PVC, Sure-Flex PVC FRS or Sure-Flex KEE HP	Low VOC PVC BA	-302.5
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
R-19.	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)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase (plywood top) or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-145.0
R-20.	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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2-inch StormBase (plywood top) or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-145.0
R-21.	Existing fully-adhered asphalt built-up roof (BUR) with flood coat & gravel (loose gravel removed)	Min. 2-inch StormBase (plywood top) or SecurShield HD Composite	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	None	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS 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-22.	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)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-167.0
R-23.	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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: (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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-167.0
R-24.	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.)	<u>None</u>	N/A	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-167.0
R-25.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-302.5
R-26.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL) or HydroBond WB	-302.5

**SURE-FLEX FLEECEBACK RL APPLICATIONS:**

**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 (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) <sup>*A</sup>
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Type	Application	
R-27.	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)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2.0-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex FleeceBACK RL		-142.5
R-28.	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.)	Insulation: (Optional) Additional layer(s) base insulation Coverboard: Min. 2.0-inch InsulBase RL	Flexible FAST or Flexible FAST DT (RIBBON)	Sure-Flex FleeceBACK RL		-142.5
R-29.	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-Flex 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 (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) <sup>*A</sup>
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base	Application	
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>								
R-30.	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)	Insulation: (Optional) Additional layer(s) 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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0

**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 (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)		MDP (psf) <sup>*A</sup>
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base	Application	
R-31.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0
R-32.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK / Flexible FAST or Flexible FAST DT (FULL)	-165.0

**TABLE 7c: STEEL - RECOVER**  
**SYSTEM TYPE C-2: INDUCTION WELDED 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 (Note 1)	Insulation Layer (Note 5)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Spacing		
<b>RHINO BOND SYSTEMS:</b>						
R-33.	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	HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-PVC are fastened through to purlins	Max. 12-inch o.c. along purlins	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-52.5
R-34.	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	HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-PVC are fastened through to purlins	Max. 6-inch o.c. along purlins	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-60.0
R-35.	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	HP Purlin Fastener or RetroDriller Fastener and RhinoBond Plate-PVC are fastened through to purlins	Max. 6-inch o.c. along purlins	Sure-Flex PVC or Sure-Flex KEE HP induction welded with RhinoBond tool per manufacturer's instructions	-90.0
<b>ISOWELD INDUCTION WELDING SYSTEM:</b>						
R-36.	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	SFS DEKFAST DF-#12-PC-SQ3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate are fastened through to purlins	Max. 12-inch o.c. along purlins	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-45.0
R-37.	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	SFS DEKFAST DF-#12-PC-SQ3 with Carlisle isoweld PVC Plate or SFS isoweld F1-P-6.8-PVC Plate are fastened through to purlins	Max. 6-inch o.c. along purlins	Sure-Flex PVC or Sure-Flex KEE HP induction welded with SFS isoweld 3000 tool per manufacturer's instructions	-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-38.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 75.5-inch o.c.</b>	One or more layers, any combination	prelim. attach	Sure-Flex PVC	HP Purlin Fastener with Piranha Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 75.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-45.0
R-39.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 54.5-inch o.c.</b>	One or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex KEE HP	HP Purlin Fastener with 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.	-45.0
R-40.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 75.5-inch o.c.</b>	One or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex KEE HP	HP Purlin Fastener with Piranha Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 75.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-52.5
R-41.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 35.5-inch o.c.</b>	One or more layers, any combination	prelim. attach	Sure-Flex PVC	HP Purlin Fastener with Piranha Plate	12-inch o.c. within 5-inch wide laps spaced max. 35.5-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-52.5
R-42.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 35-inch o.c.</b>	One or more layers, any combination	prelim. attach	Sure-Flex PVC	HP Purlin Fastener with Piranha Plate	12-inch o.c. within 5.5-inch wide laps spaced max. 35-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-60.0
R-43.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 54.5-inch o.c.</b>	One or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex KEE HP	HP Purlin Fastener with 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.	-67.5
R-44.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 54.5-inch o.c.</b>	One or more layers, any combination	prelim. attach	Min. 60-mil Sure-Flex PVC or KEE HP	HP Purlin Fastener with 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.	-75.0
R-45.	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced <b>max. 35.5-inch o.c.</b>	One or more layers, any combination	prelim. attach	Sure-Flex PVC or Sure-Flex KEE HP	HP Purlin Fastener with Piranha Plate	6-inch o.c. within 5.5-inch wide laps spaced max. 35-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-82.5



**TABLE 7E: RECOVER APPLICATIONS**  
**SYSTEM TYPE F: 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	
<b>FLEECEBACK MEMBRANE APPLICATIONS (PARTIAL BOND):</b>				
R-46.	Existing, fully-adhered EPDM	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6)	-75.0
R-47.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (RIBBON, 6-inch o.c.)	-177.0
<b>FLEECEBACK MEMBRANE APPLICATIONS (FULL BOND):</b>				
R-48.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST (FULL)	-177.0
R-49.	Existing, fully-adhered EPDM	Sure-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST or Flexible FAST DT (FULL)	-315.0
R-50.	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-Flex PVC FleeceBACK, Sure-Flex PVC FRS FleeceBACK, Sure-Flex KEE HP FleeceBACK or Sure-Flex KEE HP FRS FleeceBACK	Flexible FAST DT (FULL)	-635.0

**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.