

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

| TABLE              | DECK                           | APPLICATION                       | TYPE | DESCRIPTION  | PAGE |
|--------------------|--------------------------------|-----------------------------------|------|--|------|
| <a href="#">1A</a> | Wood                           | New, Reroof (Tear-Off) or Recover | B-1  | Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover                    | 6    |
| <a href="#">1B</a> | Wood                           | New or Reroof (Tear-Off)          | B-3  | Mechanically Attached Anchor Sheet (nails & caps), Bonded Insulation, Bonded Roof Cover            | 6    |
| <a href="#">1C</a> | Wood                           | New, Reroof (Tear-Off) or Recover | B-3  | Mechanically Attached Anchor Sheet (screws & plates), Bonded Insulation, Bonded Roof Cover         | 8    |
| <a href="#">1D</a> | Wood                           | New, Reroof (Tear-Off) or Recover | C-1  | Mechanically Attached Insulation, Bonded Roof Cover  | 9    |
| <a href="#">1E</a> | Wood                           | New, Reroof (Tear-Off) or Recover | D-2  | Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                     | 10   |
| <a href="#">1F</a> | Wood                           | New or Reroof (Tear-Off)          | E-2  | Non-Insulated, Mechanically Attached Base Sheet (nails & caps), Bonded Roof Cover                  | 10   |
| <a href="#">1G</a> | Wood                           | New, Reroof (Tear-Off) or Recover | E-2  | Non-Insulated, Mechanically Attached Base Sheet (screws & plates), Bonded Roof Cover               | 11   |
| <a href="#">2A</a> | Steel                          | New, Reroof (Tear-Off)            | A-1  | Bonded Insulation, Bonded Roof Cover   | 12   |
| <a href="#">2B</a> | Steel or Structural Concrete   | New, Reroof (Tear-Off) or Recover | B-1  | Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover                    | 12   |
| <a href="#">2C</a> | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover   | B-2  | Mechanically Attached Thermal Barrier, Bonded Vapor Retarder, Bonded Insulation, Bonded Roof Cover | 12   |
| <a href="#">2D</a> | Steel or Structural Concrete   | New, Reroof (Tear-Off) or Recover | C-1  | Mechanically Attached Insulation, Bonded Roof Cover  | 14   |
| <a href="#">2E</a> | Steel or Structural Concrete   | New, Reroof (Tear-Off) or Recover | D-2  | Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                     | 15   |
| <a href="#">3A</a> | Structural Concrete            | New or Reroof (Tear-Off)          | A-1  | Bonded Insulation, Bonded Roof Cover   | 18   |
| <a href="#">3B</a> | Structural Concrete            | New or Reroof (Tear-Off)          | F    | Non-Insulated, Bonded Roof Cover   | 20   |
| <a href="#">4A</a> | Deck with Lightweight concrete | New or Reroof (Tear-Off)          | A-1  | Bonded Insulation, Bonded Roof Cover   | 21   |
| <a href="#">4B</a> | Deck with Lightweight concrete | New or Reroof (Tear-Off)          | B-3  | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                           | 21   |
| <a href="#">4C</a> | Deck with Lightweight concrete | New or Reroof (Tear-Off)          | E-2  | Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                 | 23   |
| <a href="#">4D</a> | Deck with Lightweight concrete | New or Reroof (Tear-Off)          | F    | Non-Insulated, Bonded Roof Cover   | 23   |
| <a href="#">5A</a> | Cementitious wood fiber        | Reroof (Tear-Off) or Recover      | B-1  | Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover                    | 24   |
| <a href="#">5B</a> | Cementitious wood fiber        | Reroof (Tear-Off) or Recover      | B-3  | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                           | 25   |
| <a href="#">5C</a> | Cementitious wood fiber        | Reroof (Tear-Off) or Recover      | C-1  | Mechanically Attached Insulation, Bonded Roof Cover  | 26   |
| <a href="#">5D</a> | Cementitious wood fiber        | Reroof (Tear-Off) or Recover      | D-2  | Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                     | 26   |
| <a href="#">5E</a> | Cementitious wood fiber        | Reroof (Tear-Off) or Recover      | E-2  | Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                 | 27   |
| <a href="#">6A</a> | Existing gypsum                | Reroof (Tear-Off)                 | B-1  | Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover                    | 28   |
| <a href="#">6B</a> | Existing gypsum                | Reroof (Tear-Off)                 | B-3  | Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover                           | 29   |
| <a href="#">6C</a> | Existing gypsum                | Reroof (Tear-Off)                 | C-1  | Mechanically Attached Insulation, Bonded Roof Cover  | 30   |
| <a href="#">6D</a> | Existing gypsum                | Reroof (Tear-Off)                 | D-2  | Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                     | 31   |
| <a href="#">6E</a> | Existing gypsum                | Reroof (Tear-Off)                 | E-2  | Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover                                 | 31   |
| <a href="#">7A</a> | Various                        | Recover                           | A-1  | Bonded Insulation, Bonded Roof Cover   | 32   |
| <a href="#">7B</a> | Various                        | Recover                           | F    | Non-Insulated, Bonded Roof Cover   | 34   |

The following notes apply to the systems outlined herein:

- The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 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                | GAF   | Drill-Tec #12 Fastener, Drill-Tec #12 DP Fastener, Drill-Tec #12 DPH Fastener, Drill-Tec #14 Fastener or Drill-Tec #14 HD Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate, Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate; Drill-Tec ASAP 3S; Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate; Drill-Tec 3" ASAP Flat or Drill-Tec 3" ASAP Recessed  | Minimum ¼-inch plywood penetration or minimum 1-inch wood plank embedment   |
| Steel               | GAF   | Drill-Tec #12 Fastener, Drill-Tec #12 DP Fastener, Drill-Tec #12 DPH Fastener, Drill-Tec #14 Fastener, Drill-Tec #14 HD Fastener, Drill-Tec XHD Fastener or Drill-Tec #15 EHD Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate; Drill-Tec ASAP 3S; Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate; Drill-Tec Extra Heavy Duty ASAP Roofing Fastener – Insulation; ; Drill-Tec 3" ASAP Flat or Drill-Tec 3" ASAP Recessed | Minimum ¼-inch steel penetration and engage the top flute of the steel deck   |
|                     | Note: | Unless otherwise noted, Drill Tec #12 DF Fastener or Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board to steel deck, up to a maximum allowable design pressure (MDP) of -120.0 psf.  |   |
|                     | Note: | Unless otherwise noted, Drill Tec #12 DF Fastener or Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure min. 0.5-inch thick Structodek High Density Fiberboard Roof Insulation, 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra Polyiso Insulation to steel deck.   |   |
|                     | Note: | Unless otherwise noted, Drill Tec #12 DF Fastener or Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure GAFGLAS #75 Base Sheet to steel deck   |   |
| Structural Concrete | GAF   | Drill-Tec #14 Fastener, Drill-Tec #14 HD Fastener or Drill-Tec CD-10 with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate; Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate or Drill-Tec 3" ASAP Flat (#14 only)  | Minimum 1-inch embedment. Fastener installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions |
|                     | Note: | Unless otherwise noted, Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board to structural concrete deck, up to a maximum allowable design pressure (MDP) of -120.0 psf.   |   |
|                     | Note: | Unless otherwise noted, Drill Tec #14 DF Fastener with Drill Tec 3" DF Steel Insulation Plate may be used in place of Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate when used to secure min. 0.5-inch thick Structodek High Density Fiberboard Roof Insulation, 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or min. 1.5-inch EnergyGuard POLYISO INSULATION or EnergyGuard Ultra Polyiso Insulation to structural concrete deck.  |   |

- Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- Minimum 200 psi, minimum 2-inch thick FBC 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.
- Preliminary insulation attachment: Unless otherwise noted, use FBC Approved roofing fasteners and plates and refer to Section 2.2.10.1.3 of [FM Loss Prevention Data Sheet 1-29](#).

- 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.
  - If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer.
  - 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.

| INSULATION ADHESIVE REFERENCES |                                       |                  |                 |  |
|--------------------------------|---------------------------------------|------------------|-----------------|--|
| By                             | ADHESIVE                              | REFERENCE        | FBC FILE OR NOA | MINIMUM RATE   |
| GAF                            | GAF LRF Adhesive M                    | 'LRF-M'          | N/A             | Continuous 0.75 to 1-inch ribbons, 12-inch o.c.                                  |
| GAF                            | GAF LRF Adhesive M Canister           | 'LRF-M Canister' | N/A             | Continuous 1 to 1.5-inch ribbons, 12-inch o.c.                                   |
| GAF                            | GAF LRF Adhesive XF                   | 'LRF-XF'         | N/A             | Continuous 0.75 to 1-inch ribbons, 12-inch o.c.                                  |
| H.B. Fuller Company            | Millennium One Step Foamable Adhesive | 'M-OSFA'         | FL1800          | Continuous 0.25 to 0.5-inch wide ribbons, 12-inch o.c.                           |
| OMG, Inc.                      | OlyBond 500 Adhesive Fastener         | 'OB500'          | FL1608          | Continuous 0.75-inch wide ribbons, 12-inch o.c. (PaceCart, SpotShot or Canister) |
| Generic, ASTM D312, Type IV    | hot asphalt                           | N/A              | N/A             | Full coverage at 25-30 lbs/square  |

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

| MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS |  |                 |                             |           |
|--|--|-----------------|-----------------------------|-----------|
| ADHESIVE   | INSULATION   |                 | MIN. TAPERED THICKNESS (IN) | MDP (psf) |
|  | LISTED PRODUCT   | FBC FILE OR NOA |                             |           |
| LRF-M  | EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation | FL16311         | 0.5                         | -232.5    |
| LRF-XF   | EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation | FL16311         | 0.5                         | -292.5    |
| LRF-XF   | EnergyGuard RA   | NOA 23-0130.03  | 0.5                         | -487.5    |
| M-OSFA   | Any EnergyGuard polyisocyanurate listed with adhesive herein         | various         | 0.5                         | -157.5    |
| OB500  | EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation | FL16311         | 0.5                         | -292.5    |
| OB500  | EnergyGuard RH   | NOA 19-1017.09  | 0.5                         | -315.0    |
| OB500  | EnergyGuard RN   | NOA 18-1126.10  | 0.5                         | -315.0    |
| OB500  | EnergyGuard RA   | NOA 23-0130.03  | 0.5                         | -487.5    |
| Hot asphalt  | Any EnergyGuard polyisocyanurate listed with adhesive herein         | Various         | 0.5                         | -240.0    |

- 8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet 1-29](#).
- 9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI WD1](#), [FM Loss Prevention Data Sheet 1-29](#), [Roofing Application Standard RAS 117](#) and [RAS 137](#). Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of [FM Loss Prevention Data Sheet 1-29](#) for Zone 2/3 enhancements.
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard TAS 105](#).



- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, [FM Loss Prevention Data Sheet](#) 1-52 or [Testing Application Standard](#) TAS 124.
- 13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation ([Note 5](#)). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.
- 15 For bonded membrane applications, unless otherwise noted, refer to the following.

| MEMBRANE / ADHESIVE COMBINATIONS    |   |             |
|-------------------------------------|---|-------------|
| REFERENCE                           | TYPE  | APPLICATION |
| Base Sheet (BS)                     | Optional base sheet of GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet or GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M | Hot asphalt |
| Venting Base Sheet (V-BS)           | GAFGLAS Stratavent Perforated Venting Base Sheet  | Loose-laid  |
| Ply Sheet (PS)                      | Two or more plies of GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet or GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M  | Hot asphalt |
| Ply Sheet, Modified Bitumen (PS-MB) | One or two plies of GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5   | Hot asphalt |
| Cap Sheet (CS)                      | Optional cap sheet of GAFGLAS Mineral-Surfaced Cap Sheet, Tri-Ply BUR Granule Cap Sheet or GAFGLAS EnergyCap Mineral-Surfaced Cap Sheet   | Hot asphalt |

*Note: Systems without a cap sheet shall be surfaced in accordance with GAF requirements, meeting the fire resistance requirements of FBC Section 1505. Refer to FBC Section 1504.8 for limitations in the use of aggregate surfacing.*

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 ADHERED INSULATION |  |   |                     |  |           |
|--|--|---|---------------------|--|-----------|
| OPTION #   | PRIMER   | VAPOR BARRIER ( <a href="#">Note 15</a> )   |                     | INSULATION ADHESIVE PER <a href="#">TABLE 3A</a> | MDP (PSF) |
|  |  | TYPE  | APPLICATION         |  |           |
| C-VB-1.  | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid Torch Granule  | Torch-applied       | Hot asphalt                                      | -225.0    |
| C-VB-2.  | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | BP-AA   | Hot asphalt applied | Hot asphalt                                      | -360.0    |
| C-VB-3.  | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | One or two plies, GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6 or GAFGLAS FlexPly 6 M or SBS-AA | Hot asphalt applied | Hot asphalt                                      | -495.0    |
| C-VB-4.  | None   | GAF SA Vapor Retarder XL  | Self-adhering       | LRF-M, 12-inch o.c.                              | -112.5    |
| C-VB-5.  | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | SBS-TA  | Torch-applied       | LRF-M, 12-inch o.c.                              | -180.0    |
| C-VB-6.  | GAF SA Primer  | GAF SA Vapor Retarder   | Self-adhering       | LRF-M, 12-inch o.c.                              | -202.5    |
| C-VB-7.  | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | BP-AA or one or two plies GAFGLAS Ply 4, GAFGLAS Ply 4 M, GAFGLAS FlexPly 6 or GAFGLAS Flex Ply 6 M or SBS-AA                 | Hot asphalt applied | LRF-M, 12-inch o.c.                              | -495.0    |
| C-VB-8.  | None   | GAF SA Vapor Retarder XL  | Self-adhering       | LRF-XF 12-inch o.c.                              | -112.5    |
| C-VB-9.  | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid Torch Granule  | Torch-applied       | LRF-XF, 12-inch o.c.                             | -169.0    |
| C-VB-10.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | SBS-TA  | Torch-applied       | LRF-XF, 12-inch o.c.                             | -180.0    |

| STRUCTURAL CONCRETE DECK: VAPOR BARRIER FOLLOWED BY ADHERED INSULATION |  |   |             |  |                           |
|--|--|---|-------------|--|---------------------------|
| OPTION #   | PRIMER   | VAPOR BARRIER <a href="#">(Note 15)</a>   |             | INSULATION ADHESIVE PER <a href="#">TABLE 3A</a> | MDP <a href="#">(PSF)</a> |
|  |  | TYPE  | APPLICATION |  |                           |
| C-VB-11.   | GAF SA Primer  | GAF SA Vapor Retarder   |             | LRF-XF, 12-inch o.c.                             | -202.5                    |
| C-VB-12.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | SBS-SA  |             | LRF-XF, 12-inch o.c.                             | -250.0                    |
| C-VB-13.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | BP-AA or one or two plies GAFGLAS Ply 4, GAFGLAS Ply 4 M, GAFGLAS FlexPly 6 or GAFGLAS Flex Ply 6 M or SBS-AA |             | LRF-XF, 12-inch o.c.                             | -262.5                    |
| C-VB-14.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid 30   |             | LRF-XF, 12-inch o.c.                             | -270.0                    |
| C-VB-15.   | None   | GAF SA Vapor Retarder XL  |             | OlyBond 500, 12-inch o.c.                        | -127.5                    |
| C-VB-16.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid Torch Smooth   |             | OB500, 12-inch o.c.                              | -165.0                    |
| C-VB-17.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid HW 25 Smooth   |             | OB500, 12-inch o.c.                              | -180.0                    |
| C-VB-18.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | SBS-SA  |             | OB500, 12-inch o.c.                              | -187.5                    |
| C-VB-19.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid 20 Smooth  |             | OB500, 12-inch o.c.                              | -202.5                    |
| C-VB-20.   | GAF SA Primer  | GAF SA Vapor Retarder   |             | OB500, 12-inch o.c.                              | -202.5                    |
| C-VB-21.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid Torch Granule  |             | OB500, 12-inch o.c.                              | -225.0                    |
| C-VB-22.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | Ruberoid HW Smooth  |             | OB500, 12-inch o.c.                              | -232.5                    |
| C-VB-23.   | Matrix 307 Premium Asphalt Primer or ASTM D41 primer | BP-AA or one or two plies GAFGLAS Ply 4, GAFGLAS Ply 4 M, GAFGLAS FlexPly 6 or GAFGLAS Flex Ply 6 M or SBS-AA |             | OB500, 12-inch o.c.                              | -352.5                    |

- 17 Fire barriers of FireOut™ Fire Barrier Coating, VersaShield® Solo™ Fire-Resistant Slip Sheet, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board are optional in all wood deck assemblies where overlying components are mechanically fastened.
- 18 For System Types B-1, B-2, C-1, C-2, D-1 or Type D-2, GAF SA Vapor Retarder or GAF SA Vapor Retarder XL may be installed atop the roof deck, or to a loose-laid thermal barrier of DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, prior to installation of the insulation and roof cover. When adhering GAF SA Vapor Retarder to structural concrete, the substrate shall be primed with GAF SA Primer. When adhering GAF SA Vapor Retarder to DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, the substrate shall be primed with GAF SA Primer or Matrix 307 Premium Asphalt Primer. Refer to [FM Loss Prevention Data Sheet 1-29](#) for design and installation limitations.
- 19 The following products are interchangeable within the scope of this PEER:

| ACCEPTABLE ALTERNATES |                             |                 |                                      |   |
|-----------------------|-----------------------------|-----------------|--------------------------------------|---|
| SUB-CATEGORY          | MANUFACTURER                | FBC FILE OR NOA | LISTED PRODUCT HEREIN                | ALTERNATE                               |
| ROOFING INSULATION    | GAF                         | FL16311         | EnergyGuard Polyiso Insulation       | EnergyGuard NH Polyiso Insulation       |
|                       |                             |                 | EnergyGuard Ultra Polyiso Insulation | EnergyGuard NH Ultra Polyiso Insulation |
|                       | Georgia-Pacific Gypsum, LLC | FL1250          | DensDeck Prime                       | DensDeck StormX Prime Roof Board        |
| VAPOR BARRIER         | GAF                         | N/A             | GAF SA Vapor Retarder XL             | GAF SA Vapor Retarder XL40              |

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

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

| System No. | Deck <a href="#">(Note 1)</a>                | Base Insulation Layer   |                                    |                           | Top Insulation Layer  |                                      | Roof Cover <a href="#">(Note 15)</a> | MDP <a href="#">(psf)</a> |
|------------|--|---|------------------------------------|---------------------------|---|--------------------------------------|--------------------------------------|---------------------------|
|            |  | Type  | Fastener <a href="#">(Note 11)</a> | Attach                    | Type  | Attach <a href="#">(Notes 6,7,8)</a> |                                      |                           |
| W-1.       | Min. 19/32-inch plywood at max. 24-inch span | One or more layers Min. 1.3-inch EnergyGuard RA or RN                             | <a href="#">Note 2</a>             | 1 per 3.0 ft <sup>2</sup> | Optional one or more layers Min. 1.3-inch EnergyGuard RA or RN followed by Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | hot asphalt                          | GAF BUR. Note 15.                    | -45.0*                    |
| W-2.       | Min. 19/32-inch plywood at max. 24-inch span | One or more layers Min. 1.5-inch EnergyGuard Composite                            | <a href="#">Note 2</a>             | 1 per 3.0 ft <sup>2</sup> | Optional one or more layers Min. 1.3-inch EnergyGuard RA or RN followed by Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | hot asphalt                          | GAF BUR. Note 15.                    | -45.0*                    |
| W-3.       | Min. 19/32-inch plywood at max. 24-inch span | One or more layers Min. 1-inch Structodek High Density Fiberboard Roof Insulation | <a href="#">Note 2</a>             | 1 per 4.0 ft <sup>2</sup> | Optional one or more layers Min. 1.3-inch EnergyGuard RA or RN followed by Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | hot asphalt                          | GAF BUR. Note 15.                    | -45.0*                    |

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET (NAILS & CAPS), BONDED INSULATION, BONDED ROOF COVER**

| System No.                   | Deck <a href="#">(Note 1)</a>                | Anchor Sheet   |   |   | Insulation   |                                      | Roof Cover <a href="#">(Note 15)</a> | MDP <a href="#">(psf)</a> |
|------------------------------|--|--|---|---|--|--------------------------------------|--------------------------------------|---------------------------|
|                              |  | Type   | Fastener <a href="#">(Note 11)</a>  | Attach  | Type   | Attach <a href="#">(Notes 6,7,8)</a> |                                      |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |  |  |   |   |  |                                      |                                      |                           |
| W-4.                         | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails     | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                          | GAF BUR. Note 15.                    | -45.0                     |
| W-5.                         | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, Ruberoid 20 Smooth | 32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two staggered center rows                   | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                          | GAF BUR. Note 15.                    | -45.0                     |



**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET (NAILS & CAPS), BONDED INSULATION, BONDED ROOF COVER**

| System No.              | Deck<br><a href="#">(Note 1)</a>             | Anchor Sheet  |   |   | Insulation   |   | Roof Cover<br><a href="#">(Note 15)</a> | MDP<br><a href="#">(psf)</a> |
|-------------------------|--|---|---|---|--|---|---|------------------------------|
|                         |  | Type  | Fastener<br><a href="#">(Note 11)</a>   | Attach  | Type   | Attach<br><a href="#">(Notes 6,7,8)</a> |   |                              |
| W-6.                    | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | 32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails                 | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows                    | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                             | GAF BUR. Note 15.                       | -52.5                        |
| W-7.                    | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth   | Approved 1.25-inch annular ring shank nails and inverted Drill-Tec 3-inch Galvalume Plate | 9-inch o.c. at the 4-inch lap and 9-inch o.c. in two staggered center rows                    | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                             | GAF BUR. Note 15.                       | -60.0                        |
| <b>VENTING SYSTEMS:</b> |  |   |   |   |  |   |   |                              |
| W-8.                    | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails                     | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso   | hot asphalt                             | V-BS followed by GAF BUR Note 15.       | -45.0                        |
| W-9.                    | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | 32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails                 | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows                    | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso   | hot asphalt                             | V-BS followed by GAF BUR Note 15.       | -52.5                        |

**TABLE 1c: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET (SCREWS & PLATES), BONDED INSULATION, BONDED ROOF COVER**

| System No.                   | Deck<br><a href="#">(Note 1)</a>             | Anchor Sheet   |                                       |  | Insulation   |   | Roof Cover<br><a href="#">(Note 15)</a> | MDP<br><a href="#">(psf)</a> |
|------------------------------|--|--|---------------------------------------|--|--|---|---|------------------------------|
|                              |  | Type   | Fastener<br><a href="#">(Note 11)</a> | Attach   | Type   | Attach<br><a href="#">(Notes 6,7,8)</a> |   |                              |
| <b>CONVENTIONAL SYSTEMS:</b> |  |  |                                       |  |  |   |   |                              |
| W-10.                        | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, Ruberoid 20 Smooth | <a href="#">Note 2</a>                | 12-inch o.c. at the 2-inch lap and 12-inch o.c. in two center staggered center rows                | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                             | GAF BUR. Note 15.                       | -45.0                        |
| W-11.                        | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | <a href="#">Note 2</a> (#14 ONLY)     | 16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                             | GAF BUR. Note 15.                       | -52.5                        |
| W-12.                        | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | <a href="#">Note 2</a> (#14 ONLY)     | 12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                             | GAF BUR. Note 15.                       | -60.0                        |
| W-13.                        | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | <a href="#">Note 2</a>                | 12-inch o.c. at the 2-inch lap and 12-inch o.c. in three staggered center rows                     | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                             | GAF BUR. Note 15.                       | -60.0                        |
| W-14.                        | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | <a href="#">Note 2</a> (#14 ONLY)     | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows                       | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | hot asphalt                             | GAF BUR. Note 15.                       | -75.0*                       |
| <b>VENTING SYSTEMS:</b>      |  |  |                                       |  |  |   |   |                              |



| TABLE 1c: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER                                       |  |   |                                       |  |  |   |   |                              |
|---|--|---|---------------------------------------|--|--|---|---|------------------------------|
| SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET (SCREWS & PLATES), BONDED INSULATION, BONDED ROOF COVER |  |   |                                       |  |  |   |   |                              |
| System No.  | Deck<br><a href="#">(Note 1)</a>             | Anchor Sheet  |                                       |  | Insulation   |   | Roof Cover<br><a href="#">(Note 15)</a> | MDP<br><a href="#">(psf)</a> |
|   |  | Type  | Fastener<br><a href="#">(Note 11)</a> | Attach   | Type   | Attach<br><a href="#">(Notes 6,7,8)</a> |   |                              |
| W-15.   | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | <a href="#">Note 2</a><br>(#14 ONLY)  | 16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | hot asphalt                             | V-BS followed by GAF BUR<br>Note 15.    | -52.5                        |
| W-16.   | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | <a href="#">Note 2</a><br>(#14 ONLY)  | 12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | hot asphalt                             | V-BS followed by GAF BUR<br>Note 15.    | -60.0                        |
| W-17.   | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth | <a href="#">Note 2</a><br>(#14 ONLY)  | 8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows                       | Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso | hot asphalt                             | V-BS followed by GAF BUR<br>Note 15.    | -82.5*                       |

| TABLE 1d: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER |                                       |  |   |                                    |                           |                                      |                      |        |                              |
|---|---------------------------------------|--|---|------------------------------------|---------------------------|--------------------------------------|----------------------|--------|------------------------------|
| SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER  |                                       |  |   |                                    |                           |                                      |                      |        |                              |
| System No.  | Deck<br><a href="#">(Note 1)</a>      | Base Insulation Layer<br><a href="#">(Note 13)</a>         | Top Insulation Layer  |                                    |                           | Roof Cover <a href="#">(Note 15)</a> |                      |        | MDP<br><a href="#">(psf)</a> |
|   |                                       |  | Type  | Fastener <a href="#">(Note 11)</a> | Attach                    | Base                                 | Ply                  | Cap    |                              |
| <b>CONVENTIONAL SYSTEMS:</b>  |                                       |  |   |                                    |                           |                                      |                      |        |                              |
| W-18.   | Min. 19/32-inch plywood or wood plank | (Optional) One or more layers, any combination, loose-laid | One or more layers Min. 1.5-inch EnergyGuard Composite (wood fiber)               | <a href="#">Note 2</a>             | 1 per 3.0 ft <sup>2</sup> | BS                                   | GAF BUR.<br>Note 15. | -45.0* |                              |
| W-19.   | Min. 19/32-inch plywood or wood plank | (Optional) One or more layers, any combination, loose-laid | One or more layers Min. 1.5-inch EnergyGuard Composite (perlite)                  | <a href="#">Note 2</a>             | 1 per 3.0 ft <sup>2</sup> | BS                                   | GAF BUR.<br>Note 15. | -45.0* |                              |
| W-20.   | Min. 19/32-inch plywood or wood plank | (Optional) One or more layers, any combination, loose-laid | One or more layers min. 1-inch Structodek High Density Fiberboard Roof Insulation | <a href="#">Note 2</a>             | 1 per 4.0 ft <sup>2</sup> | BS                                   | GAF BUR.<br>Note 15. | -45.0* |                              |
| W-21.   | Min. 19/32-inch plywood or wood plank | (Optional) One or more layers, any combination, loose-laid | Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board                                   | <a href="#">Note 2</a> (#14 only)  | 1 per 1.8 ft <sup>2</sup> | BS                                   | GAF BUR.<br>Note 15. | -60.0  |                              |
| <b>VENTING BASE SYSTEMS:</b>  |                                       |  |   |                                    |                           |                                      |                      |        |                              |
| W-22.   | Min. 19/32-inch plywood or wood plank | (Optional) One or more layers, any combination, loose-laid | One or more layers Min. 1.5-inch EnergyGuard Composite (wood fiber)               | <a href="#">Note 2</a>             | 1 per 3.0 ft <sup>2</sup> | V-BS                                 | GAF BUR.<br>Note 15. | -45.0* |                              |

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

| System No. | Deck <a href="#">(Note 1)</a>                | Base Insulation Layer <a href="#">(Note 13)</a>            | Top Insulation Layer   |                                    |                           | Roof Cover <a href="#">(Note 15)</a> |                                   |        | MDP <a href="#">(psf)</a> |
|------------|--|--|--|------------------------------------|---------------------------|--------------------------------------|-----------------------------------|--------|---------------------------|
|            |  |  | Type   | Fastener <a href="#">(Note 11)</a> | Attach                    | Base                                 | Ply                               | Cap    |                           |
| W-23.      | Min. 19/32-inch plywood or wood plank        | (Optional) One or more layers, any combination, loose-laid | One or more layers<br>Min. 1-inch Structodek High Density Fiberboard Roof Insulation | <a href="#">Note 2</a>             | 1 per 4.0 ft <sup>2</sup> | V-BS                                 | GAF BUR. <a href="#">Note 15.</a> | -45.0* |                           |
| W-24.      | Min. 15/32-inch plywood at max. 24-inch span | (Optional) One or more layers, any combination, loose laid | Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra                    | <a href="#">Note 2</a>             | 1 per 1.3 ft <sup>2</sup> | V-BS                                 | GAF BUR <a href="#">Note 15.</a>  | -60.0* |                           |

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

| System No. | Deck <a href="#">(Note 1)</a>                | Insulation Layer(s) <a href="#">(Note 13)</a> |            | Base Sheet  |                                    |   | Roof Cover <a href="#">(Note 15)</a>           | MDP <a href="#">(psf)</a> |
|------------|--|---|------------|---|------------------------------------|---|--|---------------------------|
|            |  | Type  | Attach     | Base  | Fastener <a href="#">(Note 11)</a> | Attach  |  |                           |
| W-25.      | Min. 19/32-inch plywood at max. 24-inch span | One or more layers, any combination           | Loose Laid | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a>             | 12-inch o.c. at the 2-inch lap and 12-inch o.c. in two equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -45.0                     |
| W-26.      | Min. 23/32-inch plywood at max. 24-inch span | One or more layers, any combination           | Loose Laid | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth                        | <a href="#">Note 2</a> (#14 only)  | 9-inch o.c. at the 2-inch lap and 9-inch o.c. in three equally spaced staggered center rows   | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -52.5                     |
| W-27.      | Min. 19/32-inch plywood at max. 24-inch span | One or more layers, any combination           | Loose Laid | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a>             | 12-inch o.c. at the 2-inch lap and 12-inch o.c. in three equally spaced staggered center rows | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -60.0                     |
| W-28.      | Min. 19/32-inch plywood at max. 24-inch span | One or more layers, any combination           | Loose Laid | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a>             | 8-inch o.c. at the 2-inch lap and 8-inch o.c. in three equally spaced staggered center rows   | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -75.0                     |

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

| System No. | Deck <a href="#">(Note 1)</a>                | Base Sheet   |   |   | Roof Cover <a href="#">(Note 15)</a>           | MDP <a href="#">(psf)</a> |
|------------|--|--|---|---|--|---------------------------|
|            |  | Type   | Fastener <a href="#">(Note 11)</a>                                    | Attach  |  |                           |
| W-29.      | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth          | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -45.0                     |
| W-30.      | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two staggered center rows                   | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -45.0                     |

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

| System No. | Deck <a href="#">(Note 1)</a>                | Base Sheet  |   |  | Roof Cover <a href="#">(Note 15)</a>           | MDP <a href="#">(psf)</a> |
|------------|--|---|---|--|--|---------------------------|
|            |  | Type  | Fastener <a href="#">(Note 11)</a>  | Attach   |  |                           |
| W-31.      | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, Ruberoid 20 Smooth | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails                     | 9-inch o.c. at the 4-inch lap and 9-inch o.c. in two staggered center rows                         | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -52.5                     |
| W-32.      | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth   | Approved 1.25-inch annular ring shank nails and inverted Drill-Tec 3-inch Galvalume Plate | 9-inch o.c. at the 4-inch lap and 9-inch o.c. in two staggered center rows                         | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -60.0                     |
| W-33.      | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #80 Ultima Base Sheet   | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails                     | 7-inch o.c. at min. 4-inch laps and 7-inch o.c. in three, equally spaced, staggered center rows    | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -82.5                     |
| W-34.      | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth                                 | 32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails                     | 4-inch o.c. at min. 2-inch laps and 4-inch o.c. in four (4), equally spaced, staggered center rows | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -97.5                     |

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

| System No. | Deck <a href="#">(Note 1)</a>                | Base Sheet   |                                    |  | Roof Cover <a href="#">(Note 15)</a>           | MDP <a href="#">(psf)</a> |
|------------|--|--|------------------------------------|--|--|---------------------------|
|            |  | Type   | Fastener <a href="#">(Note 11)</a> | Attach   |  |                           |
| W-35.      | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, Ruberoid 20 Smooth | <a href="#">Note 2</a>             | 12-inch o.c. at the 2-inch lap and 12-inch o.c. in two center staggered center rows        | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -45.0                     |
| W-36.      | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | <a href="#">Note 2</a> (#14 ONLY)  | 16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -52.5                     |
| W-37.      | Min. 15/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | <a href="#">Note 2</a> (#14 ONLY)  | 12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -60.0                     |
| W-38.      | Min. 19/32-inch plywood at max. 24-inch span | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth  | <a href="#">Note 2</a>             | 8-inch o.c. at the 2-inch lap and 8-inch o.c. in three staggered center rows               | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) | -75.0                     |

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

| System No.                   | Deck<br><a href="#">(Note 1)</a>    | Base Insulation Layer                        |   | Top Insulation Layer  |   | Roof Cover <a href="#">(Note 15)</a>            |     |         | MDP<br><a href="#">(psf)</a> |
|------------------------------|-------------------------------------|--|---|---|---|---|-----|---------|------------------------------|
|                              |                                     | Type   | Attach<br><a href="#">(Notes 6,7,8)</a> | Type  | Attach<br><a href="#">(Notes 6,7,8)</a> | Base Ply  | Ply | Cap Ply |                              |
| <b>CONVENTIONAL SYSTEMS:</b> |                                     |  |   |   |   |   |     |         |                              |
| S-1.                         | Min. 22 ga., type B, Grade 40 steel | Min. 1.5-inch EnergyGuard Polyiso Insulation | LRF-M or OB500, 6-inch o.c.             | Optional additional layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation or EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | LRF-M or OB500                          | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |         | -60.0                        |

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

| System No.                   | Deck<br><a href="#">(Note 1)</a>   | Base Insulation Layer  |                                       |                           | Top Insulation Layer   |   | Roof Cover <a href="#">(Note 15)</a>            |     |     | MDP<br><a href="#">(psf)</a> |
|------------------------------|--|--|---------------------------------------|---------------------------|--|---|---|-----|-----|------------------------------|
|                              |  | Type   | Fastener<br><a href="#">(Note 11)</a> | Attach                    | Type   | Attach<br><a href="#">(Notes 6,7,8)</a> | Base  | Ply | Cap |                              |
| <b>CONVENTIONAL SYSTEMS:</b> |  |  |                                       |                           |  |   |   |     |     |                              |
| S-2.                         | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation                     | <a href="#">Note 2</a>                | 1 per 4.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch EnergyGuard Perlite Roof Insulation   | hot asphalt                             | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -37.5*                       |
| S-3.                         | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | <a href="#">Note 2</a>                | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                             | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -45.0*                       |
| S-4.                         | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | <a href="#">Note 2</a>                | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 1.5-inch EnergyGuard Composite (perlite) | hot asphalt                             | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -45.0*                       |
| S-5.                         | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | <a href="#">Note 2</a>                | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                             | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -45.0*                       |
| S-6.                         | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | <a href="#">Note 2</a>                | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 1.5-inch EnergyGuard Composite (perlite) | hot asphalt                             | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -45.0*                       |
| S-7.                         | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation                     | <a href="#">Note 2</a>                | 1 per 2.7 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch EnergyGuard Perlite Roof Insulation   | hot asphalt                             | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -45.0*                       |
| S-8.                         | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation                     | <a href="#">Note 2</a>                | 1 per 4.0 ft <sup>2</sup> | Min. 0.5-inch EnergyGuard Perlite Recover Board or min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime                                       | hot asphalt                             | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -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<br><a href="#">(Note 1)</a>   | Base Insulation Layer  |   |                           | Top Insulation Layer   |   | Roof Cover <a href="#">(Note 15)</a>           |                                  |        | MDP<br><a href="#">(psf)</a> |
|-------------------------|--|--|---|---------------------------|--|---|--|----------------------------------|--------|------------------------------|
|                         |  | Type   | Fastener<br><a href="#">(Note 11)</a>               | Attach                    | Type   | Attach<br><a href="#">(Notes 6,7,8)</a> | Base   | Ply                              | Cap    |                              |
| S-9.                    | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard Polyiso Insulation                       | <a href="#">Note 2</a>                              | 1 per 4.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch EnergyGuard Perlite Roof Insulation                             | hot asphalt                             | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |                                  |        | -45.0*                       |
| S-10.                   | Min. 22 ga. type B, Grade 80 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA or RN                                 | <a href="#">Note 2</a><br>(#14 only for steel deck) | 1 per 1.3 ft <sup>2</sup> | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 0.5-inch EnergyGuard Fiberboard   | hot asphalt                             | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |                                  |        | -90.0                        |
| S-11.                   | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA                                       | <a href="#">Note 2</a>                              | 1 per 1.6 ft <sup>2</sup> | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board  | LRF-XF                                  | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |                                  |        | -60.0                        |
| S-12.                   | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA or RN                               | <a href="#">Note 2</a>                              | 1 per 2.0 ft <sup>2</sup> | Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, or Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | OB500                                   | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |                                  |        | -45.0*                       |
| S-13.                   | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 2-inch EnergyGuard RA or RN                                 | <a href="#">Note 2</a>                              | 1 per 1.6 ft <sup>2</sup> | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board  | OB500                                   | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |                                  |        | -60.0                        |
| <b>VENTING SYSTEMS:</b> |  |  |   |                           |  |   |  |                                  |        |                              |
| S-14.                   | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | <a href="#">Note 2</a>                              | 1 per 2.0 ft <sup>2</sup> | Min. 1.0-inch EnergyGuard RA or RN   | hot asphalt                             | V-BS   | GAF BUR. <a href="#">Note 15</a> | -45.0* |                              |
| S-15.                   | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Max. 48 x 48-inch x min. 1.5-inch EnergyGuard Polyiso Insulation | <a href="#">Note 2</a>                              | 1 per 4.0 ft <sup>2</sup> | Min. 1.5-inch EnergyGuard Polyiso Insulation   | hot asphalt                             | V-BS   | GAF BUR. <a href="#">Note 15</a> | -45.0* |                              |
| S-16.                   | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | <a href="#">Note 2</a>                              | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)                               | hot asphalt                             | V-BS   | GAF BUR. <a href="#">Note 15</a> | -45.0* |                              |
| S-17.                   | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | <a href="#">Note 2</a>                              | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)                               | hot asphalt                             | V-BS   | GAF BUR. <a href="#">Note 15</a> | -45.0* |                              |

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

| System No.                   | Deck <a href="#">(Note 1)</a>       | Thermal Barrier   |                                    |                           | Vapor Retarder  | Insulation Layer(s)  |                                      | Roof Cover <a href="#">(Note 15)</a> |                                  |     | MDP <a href="#">(psf)</a> |
|------------------------------|-------------------------------------|---|------------------------------------|---------------------------|---|--|--------------------------------------|--------------------------------------|----------------------------------|-----|---------------------------|
|                              |                                     | Type  | Fastener <a href="#">(Note 11)</a> | Attach                    |   | Type   | Attach <a href="#">(Notes 6,7,8)</a> | Base                                 | Ply                              | Cap |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |                                     |   |                                    |                           |   |  |                                      |                                      |                                  |     |                           |
| S-18.                        | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | <a href="#">Note 2</a>             | 1 per 2.0 ft <sup>2</sup> | GAF SA Vapor Retarder XL, self-adhering                                       | Base Layer: Min. 1-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra<br>Mid Layer(s): (Optional) Additional layer(s) base insulation, min. 1.5-inch thick<br>Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board            | LRF-M, LRF-XF or OB500               |                                      | GAF BUR. <a href="#">Note 15</a> |     | -45.0*                    |
| S-19.                        | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | <a href="#">Note 2</a>             | 1 per 2.0 ft <sup>2</sup> | Primer: GAF SA Primer<br>Vapor Retarder: GAF SA Vapor Retarder, self-adhering | Base Layer: Min. 1-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra<br>Mid Layer(s): (Optional) Additional layer(s) base insulation, min. 1.5-inch thick<br>Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board            | LRF-M, LRF-XF or OB500               |                                      | GAF BUR. <a href="#">Note 15</a> |     | -67.5                     |
| <b>VENTING SYSTEMS:</b>      |                                     |   |                                    |                           |   |  |                                      |                                      |                                  |     |                           |
| S-20.                        | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | <a href="#">Note 2</a>             | 1 per 2.0 ft <sup>2</sup> | Primer: GAF SA Primer<br>Vapor Retarder: GAF SA Vapor Retarder, self-adhering | Base Layer: Min. 1-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra<br>Top Layer(s): (Optional) Additional layer(s) base insulation, min. 1.5-inch thick   | LRF-M, LRF-XF or OB500               | V-BS                                 | GAF BUR. <a href="#">Note 15</a> |     | -45.0*                    |
| S-21.                        | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | <a href="#">Note 2</a>             | 1 per 2.0 ft <sup>2</sup> | GAF SA Vapor Retarder XL, self-adhering                                       | Base Layer: Min. 1-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra<br>Top Layer(s): (Optional) Additional layer(s) base insulation, min. 1.5-inch thick<br>Coverboard (Optional): Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M, LRF-XF or OB500               | V-BS                                 | GAF BUR. <a href="#">Note 15</a> |     | -45.0*                    |
| S-22.                        | Min. 22 ga., Type B, Grade 33 steel | 0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board | <a href="#">Note 2</a>             | 1 per 2.0 ft <sup>2</sup> | Primer: GAF SA Primer<br>Vapor Retarder: GAF SA Vapor Retarder, self-adhering | Base Layer: Min. 1-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra<br>Top Layer(s): (Optional) Additional layer(s) base insulation, min. 1.5-inch thick<br>Coverboard: Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board            | LRF-M, LRF-XF or OB500               | V-BS                                 | GAF BUR. <a href="#">Note 15</a> |     | -67.5                     |



**TABLE 2D: 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 13)</a> |            | Top Insulation Layer   |  |                           | Roof Cover <a href="#">(Note 15)</a> |   |     | MDP <a href="#">(psf)</a> |
|------------------------------|--|---|------------|--|--|---------------------------|--------------------------------------|---|-----|---------------------------|
|                              |  | Type  | Attach     | Type   | Fastener <a href="#">(Note 11)</a>   | Attach                    | Base                                 | Ply   | Cap |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |  |   |            |  |  |                           |                                      |   |     |                           |
| S-23.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Min. 1.5-inch EnergyGuard Composite (iso side down)              | <a href="#">Note 2</a>   | 1 per 4.0 ft <sup>2</sup> |                                      | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                    |
| S-24.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Min. 1-inch Structodek High Density Fiberboard Roof Insulation   | <a href="#">Note 2</a>   | 1 per 4.0 ft <sup>2</sup> |                                      | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                    |
| S-25.                        | 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. 0.5-inch Structodek High Density Fiberboard Roof Insulation | <a href="#">Note 2</a>   | 1 per 3.0 ft <sup>2</sup> |                                      | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                    |
| S-26.                        | 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. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | <a href="#">Note 2</a>   | 1 per 2.0 ft <sup>2</sup> |                                      | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                    |
| S-27.                        | 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. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                   | <a href="#">Note 2</a>   | 1 per 1.8 ft <sup>2</sup> |                                      | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -60.0                     |
| <b>VENTING SYSTEMS:</b>      |  |   |            |  |  |                           |                                      |   |     |                           |
| S-28.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Min. 2-inch EnergyGuard Polyiso Insulation                       | <a href="#">Note 2</a>   | 1 per 4.0 ft <sup>2</sup> | V-BS                                 | GAR BUR. <a href="#">Note 15</a> .              |     | -37.5*                    |
| S-29.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Min. 2-inch EnergyGuard Ultra                                    | <a href="#">Note 2</a> (no Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate) | 1 per 4.0 ft <sup>2</sup> | V-BS                                 | GAR BUR. <a href="#">Note 15</a> .              |     | -45.0*                    |
| S-30.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Min. 1.5-inch EnergyGuard RA or RN                               | <a href="#">Note 2</a>   | 1 per 3.0 ft <sup>2</sup> | V-BS                                 | GAF BUR. <a href="#">Note 15</a>                |     | -45.0*                    |
| S-31.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Min. 2-inch EnergyGuard RH                                       | <a href="#">Note 2</a>   | 1 per 2.9 ft <sup>2</sup> | V-BS                                 | GAR BUR. <a href="#">Note 15</a> .              |     | -45.0*                    |
| S-32.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Max. 48 x 48-inch x min. 2-inch EnergyGuard Polyiso Insulation   | <a href="#">Note 2</a>   | 1 per 3.2 ft <sup>2</sup> | V-BS                                 | GAR BUR. <a href="#">Note 15</a> .              |     | -45.0*                    |
| S-33.                        | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination  | Loose laid | Min. 1.5-inch EnergyGuard Polyiso Insulation                     | <a href="#">Note 2</a>   | 1 per 2.0 ft <sup>2</sup> | V-BS                                 | GAR BUR. <a href="#">Note 15</a> .              |     | -45.0*                    |

**TABLE 2D: 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<br><a href="#">(Note 1)</a>   | Base Insulation Layer <a href="#">(Note 13)</a>                      |            | Top Insulation Layer  |  |                            | Roof Cover <a href="#">(Note 15)</a> |                                     |     | MDP<br><a href="#">(psf)</a> |
|------------|--|--|------------|---|--|----------------------------|--------------------------------------|-------------------------------------|-----|------------------------------|
|            |  | Type   | Attach     | Type  | Fastener <a href="#">(Note 11)</a>   | Attach                     | Base                                 | Ply                                 | Cap |                              |
| S-34.      | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination                       | Loose laid | Min. 1.5-inch EnergyGuard RA or RN                                      | <a href="#">Note 2</a>   | 1 per 1.45 ft <sup>2</sup> | V-BS                                 | PS-MB                               | CS  | -60.0                        |
| S-35.      | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination                       | Loose laid | Min. 2-inch EnergyGuard RA or RN or EnergyGuard Composite (iso side up) | <a href="#">Note 2</a>   | 1 per 1.45 ft <sup>2</sup> | V-BS                                 | GAF BUR.<br><a href="#">Note 15</a> |     | -60.0                        |
| S-36.      | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | (Optional) One or more layers, any combination                       | Loose laid | Min. 2-inch EnergyGuard Ultra   | <a href="#">Note 2</a> (no Drill-Tec 3" Flat Steel Plate or Drill-Tec 3" Recessed Steel Plate) | 1 per 1.45 ft <sup>2</sup> | V-BS                                 | PS-MB                               | CS  | -75.0                        |
| S-37.      | Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Polyiso Insulation | Loose laid | Min. 0.25-inch Dens Deck  | <a href="#">Note 2</a>   | 1 per 1.0 ft <sup>2</sup>  | V-BS                                 | PS-MB                               | CS  | -82.5                        |
| S-38.      | 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. 3-inch EnergyGuard Polyiso Insulation                              | <a href="#">Note 2</a>   | 1 per 1.6 ft <sup>2</sup>  | V-BS                                 | GAF BUR.<br><a href="#">Note 15</a> |     | -82.5                        |

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

| System No. | Deck<br><a href="#">(Note 1)</a>  | Insulation Layer(s)<br><a href="#">(Note 13)</a> | Base Sheet   |   |   | Roof Cover <a href="#">(Note 15)</a>            |     | MDP<br><a href="#">(psf)</a> |
|------------|---|--|--|---|---|---|-----|------------------------------|
|            |   |  | Base   | Fastener<br><a href="#">(Note 11)</a>   | Attach  | Ply   | Cap |                              |
| S-39.      | Min. 22 ga. type B, Grade 33 steel  | One or more layers, any combination              | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a>  | 18-inch o.c. at the 2-inch lap and 18-inch o.c. in three equally spaced staggered center rows     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                       |
| S-40.      | Min. 2,500 psi structural concrete  | One or more layers, any combination              | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a> (Drill-Tec #14 only)   | 18-inch o.c. at the 2-inch lap and 18-inch o.c. in three equally spaced staggered center rows     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                       |
| S-41.      | Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete | One or more layers, any combination              | GAFGLAS #80 Ultima Base Sheet  | Drill-Tec #12 DF Fastener (steel only) or Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate | 18-inch o.c. at min. 2-inch laps and 18-inch o.c. in three, equally spaced, staggered center rows | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                       |
| S-42.      | Min. 22 ga. type B, Grade 33 steel  | One or more layers, any combination              | Ruberoid Mop Smooth 1.5  | <a href="#">Note 2</a>  | 24-inch o.c. at the 3-inch lap and 24-inch o.c. in two equally spaced staggered center rows       | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                       |

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

| System No. | Deck<br><a href="#">(Note 1)</a>   | Insulation Layer(s)<br><a href="#">(Note 13)</a> | Base Sheet   |   |   | Roof Cover <a href="#">(Note 15)</a>            |     | MDP<br><a href="#">(psf)</a> |
|------------|------------------------------------|--|--|---|---|---|-----|------------------------------|
|            |                                    |  | Base   | Fastener<br><a href="#">(Note 11)</a>                                 | Attach  | Ply   | Cap |                              |
| S-43.      | Min. 2,500 psi structural concrete | One or more layers, any combination              | Ruberoid Mop Smooth 1.5  | <a href="#">Note 2</a> (Drill-Tec #14 only)                           | 24-inch o.c. at the 3-inch lap and 24-inch o.c. in two equally spaced staggered center rows | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0*                       |
| S-44.      | Min. 2,500 psi structural concrete | One or more layers, any combination              | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a> (Drill-Tec #14 only)                           | 9-inch o.c. at the 2-inch lap and 9-inch o.c. in two equally spaced staggered center rows   | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0                        |
| S-45.      | Min. 2,500 psi structural concrete | One or more layers, any combination              | GAFGLAS #80 Ultima Base Sheet  | Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate | 9-inch o.c. at the 2-inch lap and 9-inch o.c. in two equally spaced staggered center rows   | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0                        |
| S-46.      | Min. 22 ga. type B, Grade 33 steel | One or more layers, any combination              | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a>  | 6-inch o.c. at the 3-inch lap and 6-inch o.c. in two equally spaced staggered center rows   | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -75.0                        |
| S-47.      | Min. 2,500 psi structural concrete | One or more layers, any combination              | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | <a href="#">Note 2</a> (Drill-Tec #14 only)                           | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced staggered center rows   | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -75.0                        |
| S-48.      | Min. 2,500 psi structural concrete | One or more layers, any combination              | GAFGLAS #80 Ultima Base Sheet  | Drill-Tec #14 DF Fastener with Drill-Tec 3" DF Steel Insulation Plate | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced staggered center rows   | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -75.0                        |

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

SEE [NOTE 15](#) FOR VAPOR BARRIER OPTIONS

| System No.                   | Deck <a href="#">(Note 1)</a>      | Prime    | 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 | Cap |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |                                    |          |   |                                      |  |                                      |   |     |     |                           |
| C-1.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1.5-inch EnergyGuard RA or RN  | hot asphalt                          | Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board  | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -45.0                     |
| C-2.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)  | hot asphalt                          | None   | N/A                                  | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -137.0                    |
| C-3.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1.5-inch EnergyGuard Composite   | hot asphalt                          | None   | N/A                                  | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -140.0                    |
| C-4.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 0.5-inch EnergyGuard Polyiso Insulation  | hot asphalt                          | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, EnergyGuard Perlite Recover Board, min. 0.75-inch EnergyGuard Perlite Roof Insulation, min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck, Dens Deck Prime | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -150.0                    |
| C-5.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1.3-inch EnergyGuard RA or RN or Min. 1.5-inch EnergyGuard Composite   | hot asphalt                          | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)   | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -157.0                    |
| C-6.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1.3-inch EnergyGuard RA or RN or Min. 1.5-inch EnergyGuard Composite   | hot asphalt                          | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation   | N/A                                  | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -162.0                    |
| C-7.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | hot asphalt                          | None   | N/A                                  | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -270.0                    |
| C-8.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1.5-inch EnergyGuard RA or RN  | hot asphalt                          | Min. 1.5-inch EnergyGuard Composite  | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -270.0                    |
| C-9.                         | Min. 2,500 psi structural concrete | ASTM D41 | Min. 2-inch EnergyGuard RA or RN  | hot asphalt                          | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)   | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -322.5                    |
| C-10.                        | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1.5-inch EnergyGuard RA or RN  | hot asphalt                          | Min. 0.5-inch EnergyGuard Perlite Recover Board  | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -360.0                    |
| C-11.                        | Min. 2,500 psi structural concrete | None     | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra   | LRF-M                                | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board  | LRF-M                                | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -202.5                    |

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

SEE [TABLE 1.5](#) FOR VAPOR BARRIER OPTIONS

| System No.              | Deck <a href="#">(Note 1)</a>      | Prime    | 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                                | Cap    |                           |
| C-12.                   | Min. 2,500 psi structural concrete | None     | Min. 1.5-inch EnergyGuard Polyiso Insulation                      | LRF-M Canister                       | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M Canister                       | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |        | -202.5                    |
| C-13.                   | Min. 2,500 psi structural concrete | None     | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | LRF-XF                               | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                               | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |        | -202.5                    |
| C-14.                   | Min. 2,500 psi structural concrete | None     | (Optional) Min. 1.5-inch EnergyGuard                              | LRF-XF                               | Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board  | LRF-XF                               | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |        | -240.0                    |
| C-15.                   | Min. 2,500 psi structural concrete | None     | (Optional) Min. 1.5-inch EnergyGuard RA or RN                     | OB500                                | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation  | OB500                                | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |        | -165.0                    |
| C-16.                   | Min. 2,500 psi structural concrete | None     | Min. 1.5-inch EnergyGuard RA or RN                                | OB500                                | Min. 0.25-inch Dens Deck or Dens Deck Prime   | OB500                                | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |        | -150.0                    |
| C-17.                   | Min. 2,500 psi structural concrete | None     | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | OB500                                | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |        | -202.5                    |
| C-18.                   | Min. 2,500 psi structural concrete | None     | Min. 1.5-inch EnergyGuard RA or RN                                | OB500                                | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board   | OB500                                | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |        | -225.0                    |
| <b>VENTING SYSTEMS:</b> |                                    |          |   |                                      |   |                                      |   |                                    |        |                           |
| C-19.                   | Min. 2,500 psi structural concrete | ASTM D41 | Min. 0.5-inch EnergyGuard Polyiso Insulation                      | hot asphalt                          | (Optional) Additional layer(s) base insulation  | hot asphalt                          | V-BS  | GAF BUR. <a href="#">Note 15</a> . | -150.0 |                           |
| C-20.                   | Min. 2,500 psi structural concrete | ASTM D41 | Min. 1-inch EnergyGuard RN  | hot asphalt                          | (Optional) Additional layers base insulation  | hot asphalt                          | V-BS  | GAF BUR. <a href="#">Note 15</a> . | -292.5 |                           |
| C-21.                   | Min. 2,500 psi structural concrete | None     | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | LRF-M                                | Insulation: (Optional) Additional layer(s) base insulation.   | LRF-M                                | V-BS  | GAF BUR. <a href="#">Note 15</a> . | -150.0 |                           |
| C-22.                   | Min. 2,500 psi structural concrete | None     | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | LRF-M                                | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M                                | V-BS  | GAF BUR. <a href="#">Note 15</a> . | -202.5 |                           |
| C-23.                   | Min. 2,500 psi structural concrete | None     | Min. 1.5-inch EnergyGuard Polyiso Insulation                      | LRF-M Canister                       | Insulation: (Optional) Additional layer(s) base insulation.   | LRF-M Canister                       | V-BS  | GAF BUR. <a href="#">Note 15</a> . | -150.0 |                           |

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

SEE [TABLE 15](#) FOR VAPOR BARRIER OPTIONS

| System No. | Deck <a href="#">(Note 1)</a>      | Prime | 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                               | Cap |                           |
| C-24.      | Min. 2,500 psi structural concrete | None  | Min. 1.5-inch EnergyGuard Polyiso Insulation                      | LRF-M Canister                       | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-M Canister                       | V-BS                                 | GAF BUR. <a href="#">Note 15.</a> |     | -202.5                    |
| C-25.      | Min. 2,500 psi structural concrete | None  | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | LRF-XF                               | Insulation: (Optional) Additional layer(s) base insulation.   | LRF-XF                               | V-BS                                 | GAF BUR. <a href="#">Note 15.</a> |     | -150.0                    |
| C-26.      | Min. 2,500 psi structural concrete | None  | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | LRF-XF                               | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | LRF-XF                               | V-BS                                 | GAF BUR. <a href="#">Note 15.</a> |     | -202.5                    |
| C-27.      | Min. 2,500 psi structural concrete | None  | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | OB500                                | Insulation: (Optional) Additional layer(s) base insulation.   | OB500                                | V-BS                                 | GAF BUR. <a href="#">Note 15.</a> |     | -150.0                    |
| C-28.      | Min. 2,500 psi structural concrete | None  | Min. 1.0-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra | OB500                                | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                | V-BS                                 | GAF BUR. <a href="#">Note 15.</a> |     | -202.5                    |

**TABLE 3B: 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>      | Primer                            | Roof Cover <a href="#">(Note 15)</a>        |                                   |     | MDP <a href="#">(psf)</a> |
|------------|------------------------------------|-----------------------------------|---|-----------------------------------|-----|---------------------------|
|            |                                    |                                   | Base  | Ply                               | Cap |                           |
| C-29.      | Min. 2,500 psi structural concrete | ASTM D41                          | V-BS  | GAF BUR. <a href="#">Note 15.</a> |     | -90.0                     |
| C-30.      | Min. 2,500 psi structural concrete | Matrix 307 Premium Asphalt Primer | V-BS  | GAF BUR. <a href="#">Note 15.</a> |     | -185.0                    |
| C-31.      | Min. 2,500 psi structural concrete | ASTM D41                          | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |                                   |     | -457.5                    |



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

| System No.                  | Deck <a href="#">(Note 1)</a>      | LWC <a href="#">(Note 14)</a>                           | Base Insulation Layer  |                                      | Coverboard  |                                      | 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 | Cap |                           |
| <b>CELCORE, FL2037:</b>     |                                    |   |  |                                      |   |                                      |                                      |     |     |                           |
| LWC-1.                      | Min. 2,500 psi structural concrete | Min. 300 psi Celcore Cellular Concrete                  | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard RA Polyiso, EnergyGuard RH Polyiso, EnergyGuard RN Polyiso | OB500                                | Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                | GAF BUR. <a href="#">Note 15.</a>    |     |     | -150.0                    |
| <b>ELASTIZELL, FL4994:</b>  |                                    |   |  |                                      |   |                                      |                                      |     |     |                           |
| LWC-2.                      | Min. 2,500 psi structural concrete | Min. 300 psi Elastizell Lightweight Insulating Concrete | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard RA Polyiso, EnergyGuard RH Polyiso, EnergyGuard RN Polyiso | OB500                                | Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                | GAF BUR. <a href="#">Note 15.</a>    |     |     | -150.0                    |
| <b>MEARLCRETE, FL13492:</b> |                                    |   |  |                                      |   |                                      |                                      |     |     |                           |
| LWC-3.                      | Min. 2,500 psi structural concrete | Min. 300 psi Mearlcrete                                 | Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard RA Polyiso, EnergyGuard RH Polyiso, EnergyGuard RN Polyiso | OB500                                | Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | OB500                                | GAF BUR. <a href="#">Note 15.</a>    |     |     | -150.0                    |

**TABLE 4B: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.  | Deck <a href="#">(Note 1)</a>  | LWC <a href="#">(Note 14)</a>                         | Anchor Sheet  |  |   | Insulation   |                                      | Roof Cover <a href="#">(Note 15)</a>        |     |       | MDP <a href="#">(psf)</a> |
|---|--|---|---|--|---|--|--------------------------------------|---|-----|-------|---------------------------|
|   |  |   | Type  | Fastener <a href="#">(Note 11)</a>                           | Attach  | Type   | Attach <a href="#">(Notes 6,7,8)</a> | Base  | Ply | Cap   |                           |
| <b>PRE-EXISTENT LIGHTWEIGHT CONCRETE <a href="#">(Note 14)</a>:</b> |  |   |   |  |   |  |                                      |   |     |       |                           |
| <b>CONVENTIONAL SYSTEMS:</b>  |  |   |   |  |   |  |                                      |   |     |       |                           |
| LWC-4.  | Min. 22 ga., Type B vented steel or min. 2,500 psi structural concrete | Min. 250 psi pre-existent cellular or aggregate LWIC. | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 70 lbf) | 9-inch o.c. at the 2-inch lap and 9-inch o.c. in two equally spaced, staggered center rows    | One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite, Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | hot asphalt                          | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0 |                           |
| LWC-5.  | Min. 22 ga., Type B vented steel or min. 2,500 psi structural concrete | Min. 250 psi pre-existent cellular or aggregate LWIC. | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 56 lbf) | 12-inch o.c. at the 2-inch lap and 9-inch o.c. in three equally spaced, staggered center rows | One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite, Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | hot asphalt                          | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0 |                           |

**TABLE 4B: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.              | Deck <a href="#">(Note 1)</a>  | LWC <a href="#">(Note 14)</a>                         | Anchor Sheet  |  |   | Insulation   |                                      | Roof Cover <a href="#">(Note 15)</a> |   |     | MDP <a href="#">(psf)</a> |
|-------------------------|--|---|---|--|---|--|--------------------------------------|--------------------------------------|---|-----|---------------------------|
|                         |  |   | Type  | Fastener <a href="#">(Note 11)</a>                           | Attach  | Type   | Attach <a href="#">(Notes 6,7,8)</a> | Base                                 | Ply   | Cap |                           |
| LWC-6.                  | Min. 22 ga., Type B vented steel or min. 2,500 psi structural concrete | Min. 300 psi pre-existent cellular LWIC.              | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet                       | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 88 lbf) | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows    | One or more layers, any combination, Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso, followed by Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | hot asphalt                          |                                      | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -75.0                     |
| <b>VENTING SYSTEMS:</b> |  |   |   |  |   |  |                                      |                                      |   |     |                           |
| LWC-7.                  | Min. 22 ga., Type B vented steel or min. 2,500 psi structural concrete | Min. 250 psi pre-existent cellular or aggregate LWIC. | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 70 lbf) | 9-inch o.c. at the 2-inch lap and 9-inch o.c. in two equally spaced, staggered center rows    | One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite (fiberboard), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board   | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15.</a>           |     | -45.0                     |
| LWC-8.                  | Min. 22 ga., Type B vented steel or min. 2,500 psi structural concrete | Min. 250 psi pre-existent cellular or aggregate LWIC. | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 56 lbf) | 12-inch o.c. at the 2-inch lap and 9-inch o.c. in three equally spaced, staggered center rows | One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite (fiberboard), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board   | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15.</a>           |     | -45.0                     |
| LWC-9.                  | Min. 22 ga., Type B vented steel or min. 2,500 psi structural concrete | Min. 300 psi pre-existent cellular LWIC.              | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet               | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 88 lbf) | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows    | One or more layers, any combination, Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board   | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15.</a>           |     | -75.0                     |

**TABLE 4c: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No.  | Deck <a href="#">(Note 1)</a>  | LWC <a href="#">(Note 14)</a>                           | Base Sheet  |   |   | Roof Cover <a href="#">(Note 15)</a>            |     | MDP <a href="#">(psf)</a> |
|---|--|---|---|---|---|---|-----|---------------------------|
|   |  |   | Type  | Fastener <a href="#">(Note 11)</a>                            | Attach  | Ply   | Cap |                           |
| <b>PRE-EXISTENT LIGHTWEIGHT CONCRETE <a href="#">(Note 14)</a>:</b> |  |   |   |   |   |   |     |                           |
| LWC-10.   | Min. 22 ga., type B, Grade 33 vented steel or min. 2,500 psi structural concrete | Min. 250 psi pre-existent cellular LWIC.                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 70 lbf)  | 9-inch o.c. at the 2-inch lap and 9-inch o.c. in two equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0                     |
| LWC-11.   | Min. 22 ga., type B, Grade 33 vented steel or min. 2,500 psi structural concrete | Min. 250 psi pre-existent cellular LWIC.                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 56 lbf)  | 12-inch o.c. at the 2-inch lap and 9-inch o.c. in three equally spaced, staggered center rows   | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -45.0                     |
| LWC-12.   | Min. 22 ga., type B, Grade 33 vented steel or min. 2,500 psi structural concrete | Min. 300 psi pre-existent cellular LWIC.                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or Stratavent Nailable Venting Base Sheet | Drill-Tec Locking Impact Nail (1.8-inch) (Field W/D ≥ 88 lbf) | 9-inch o.c. at the 4-inch lap and 9-inch o.c. in two equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -60.0                     |
| LWC-13.   | Min. 22 ga., type B, Grade 33 vented steel or min. 2,500 psi structural concrete | Min. 300 psi pre-existent cellular LWIC.                | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or Stratavent Nailable Venting Base Sheet | Drill-Tec Base Sheet Fastener (1.7 in.) (Field W/D ≥ 88 lbf)  | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     | -75.0                     |
| <b>ELASTIZELL, FL4994:</b>  |  |   |   |   |   |   |     |                           |
| LWC-14.   | Min. 22 ga., type B, Grade 33 vented steel or min. 2,500 psi structural concrete | Min. 300 psi Elastizell Lightweight Insulating Concrete | GAFGLAS #80 Ultima Base Sheet   | Drill-Tec Base Sheet Fastener (1.7 in.)                       | 7-inch o.c. at the 3-inch lap and 7-inch o.c. in two equally spaced, staggered center rows  | PS-MB with optional additional layer(s) PS      | CS  | -82.5                     |
| LWC-15.   | Min. 22 ga., type B, Grade 33 vented steel or min. 2,500 psi structural concrete | Min. 300 psi Elastizell Lightweight Insulating Concrete | Ruberoid Mop Smooth, Ruberoid Mop Granule, Ruberoid HW Smooth or Ruberoid HW Granule (granule side down)                | <a href="#">Note 2</a> (fastening to structural deck)         | <b>Fasten to engage structural deck:</b> 12-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows | PS-MB with optional additional layer(s) PS      | CS  | -97.5                     |

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

| System No.                 | Deck <a href="#">(Note 1)</a>                                | LWC <a href="#">(Note 14)</a>   |  | Primer   | Roof Cover <a href="#">(Note 15)</a> |                                    |     | MDP <a href="#">(psf)</a> |
|----------------------------|--|---|--|----------|--------------------------------------|------------------------------------|-----|---------------------------|
|                            |  | Type  | Treatment  |          | Base                                 | Ply                                | Cap |                           |
| <b>ELASTIZELL, FL4994:</b> |  |   |  |          |                                      |                                    |     |                           |
| LWC-16.                    | Min. 22 ga., type BV, Grade 33, G90 steel at max. 5 ft spans | Min. 350 psi Elastizell Cellular/Hybrid LWIC with Zell-crete Fibers cast at 54 pcf wet-cast density with min. 1-inch thick Holey Board and min. 2-inch thick top coat | Elastizell Zell-erator Sealer at 200 ft <sup>2</sup> /gal. | ASTM D41 | V-BS                                 | GAF BUR. <a href="#">Note 15</a> . |     | -112.5                    |

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – 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   |                                      | Roof Cover <a href="#">(Note 15)</a> |   |     | MDP <a href="#">(psf)</a> |
|------------------------------|-------------------------------|--|--|---------------------------|--|--------------------------------------|--------------------------------------|---|-----|---------------------------|
|                              |                               | Type   | Fastener <a href="#">(Note 11)</a>                               | Attach                    | Type   | Attach <a href="#">(Notes 6,7,8)</a> | Base                                 | Ply   | Cap |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |                               |  |  |                           |  |                                      |                                      |   |     |                           |
| CWF-1.                       | Existing Tectum               | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                          |                                      | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0*                    |
| CWF-2.                       | Existing Tectum               | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 1.5-inch EnergyGuard Composite (perlite) | hot asphalt                          |                                      | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0*                    |
| CWF-3.                       | Existing Tectum               | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                          |                                      | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0*                    |
| CWF-4.                       | Existing Tectum               | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 1.5-inch EnergyGuard Composite (perlite) | hot asphalt                          |                                      | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0*                    |
| <b>VENTING SYSTEMS:</b>      |                               |  |  |                           |  |                                      |                                      |   |     |                           |
| CWF-5.                       | Existing Tectum               | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15</a>            |     | -45.0*                    |
| CWF-6.                       | Existing Tectum               | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 2.0 ft <sup>2</sup> | Min. 1.0-inch EnergyGuard RA or RN   | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15</a>            |     | -45.0*                    |
| CWF-7.                       | Existing Tectum               | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15</a>            |     | -45.0*                    |

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-3: MECHANICALLY FASTENED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.                   | Deck <a href="#">(Note 1)</a> | Anchor Sheet  |   |   | Insulation  |   |                                      | Roof Cover <a href="#">(Note 15)</a> |   |     | MDP <a href="#">(psf)</a> |
|------------------------------|-------------------------------|---|---|---|---|---|--------------------------------------|--------------------------------------|---|-----|---------------------------|
|                              |                               | Type  | Fastener <a href="#">(Note 11)</a>                              | Attach  | Base  | Top   | Attach <a href="#">(Notes 6,7,8)</a> | Base                                 | Ply   | Cap |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |                               |   |   |   |   |   |                                      |                                      |   |     |                           |
| CWF-8.                       | Existing Tectum               | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Polymer Gyptec Fastener and Drill-Tec 3" Gyptec Plate | 6-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard Composite (wood fiber), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 0.25-inch Dens Deck, Dens Deck Prime   | hot asphalt                          |                                      | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0*                    |
| CWF-9.                       | Existing Tectum               | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Polymer Gyptec Fastener and Drill-Tec 3" Gyptec Plate | 6-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard Composite (perlite), Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous), Min. 0.5-inch EnergyGuard Perlite Recover Board or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board | hot asphalt                          |                                      | GAF BUR. <a href="#">Note 15.</a> (No V-BS) |     | -45.0*                    |
| <b>VENTING SYSTEMS:</b>      |                               |   |   |   |   |   |                                      |                                      |   |     |                           |
| CWF-10.                      | Existing Tectum               | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Polymer Gyptec Fastener and Drill-Tec 3" Gyptec Plate | 6-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard RA or RN  | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15</a>            |     | -45.0*                    |
| CWF-11.                      | Existing Tectum               | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Polymer Gyptec Fastener and Drill-Tec 3" Gyptec Plate | 6-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard Composite (wood fiber), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 0.25-inch Dens Deck, Dens Deck Prime   | hot asphalt                          | V-BS                                 | GAF BUR. <a href="#">Note 15</a>            |     | -45.0*                    |

**TABLE 5c: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

| System No.                   | Deck (Note 1)   | Base Insulation Layer (Note 13)                |            | Top Insulation Layer   |  |                           | Roof Cover (Note 15) |                                  |     | MDP (psf) |
|------------------------------|-----------------|--|------------|--|--|---------------------------|----------------------|----------------------------------|-----|-----------|
|                              |                 | Type   | Attach     | Type   | Fastener (Note 11)   | Attach                    | Base                 | Ply                              | Cap |           |
| <b>CONVENTIONAL SYSTEMS:</b> |                 |  |            |  |  |                           |                      |                                  |     |           |
| CWF-12.                      | Existing Tectum | (Optional) One or more layers, any combination | Loose laid | Min. 1.5-inch EnergyGuard Composite (iso side down)              | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 4.0 ft <sup>2</sup> | GAF BUR. (No V-BS)   | <a href="#">Note 15.</a>         |     | -45.0*    |
| CWF-13.                      | Existing Tectum | (Optional) One or more layers, any combination | Loose laid | Min. 1-inch Structodek High Density Fiberboard Roof Insulation   | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 4.0 ft <sup>2</sup> | GAF BUR. (No V-BS)   | <a href="#">Note 15.</a>         |     | -45.0*    |
| CWF-14.                      | Existing Tectum | (Optional) One or more layers, any combination | Loose laid | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 3.0 ft <sup>2</sup> | GAF BUR. (No V-BS)   | <a href="#">Note 15.</a>         |     | -45.0*    |
| CWF-15.                      | Existing Tectum | (Optional) One or more layers, any combination | Loose laid | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 2.0 ft <sup>2</sup> | GAF BUR. (No V-BS)   | <a href="#">Note 15.</a>         |     | -45.0*    |
| <b>VENTING SYSTEMS:</b>      |                 |  |            |  |  |                           |                      |                                  |     |           |
| CWF-16.                      | Existing Tectum | (Optional) One or more layers, any combination | Loose laid | Min. 1.5-inch EnergyGuard RA or RN                               | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate | 1 per 3.0 ft <sup>2</sup> | V-BS                 | GAF BUR. <a href="#">Note 15</a> |     | -45.0*    |

**TABLE 5d: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No. | Deck (Note 1)   | Insulation Layer(s) (Note 13)       |            | Base Sheet   |   |  | Roof Cover (Note 15) |                          | MDP (psf) |
|------------|-----------------|-------------------------------------|------------|--|---|--|----------------------|--------------------------|-----------|
|            |                 | Type                                | Attach     | Base   | Fastener (Note 11)                                      | Attach   | Ply                  | Cap                      |           |
| CWF-17.    | Existing Tectum | One or more layers, any combination | Loose Laid | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Locking Impact Nail (min. 1.8-inch embedment) | 9-inch o.c. at the 2-inch lap and 18-inch o.c. in two equally spaced staggered center rows | GAF BUR. (No V-BS)   | <a href="#">Note 15.</a> | -45.0*    |



**TABLE 5E: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

| System No. | Deck <a href="#">(Note 1)</a> | Base Sheet   |   |  | Roof Cover <a href="#">(Note 15)</a>           |     | MDP <a href="#">(psf)</a> |
|------------|-------------------------------|--|---|--|--|-----|---------------------------|
|            |                               | Type   | Fastener <a href="#">(Note 11)</a>                              | Attach   | Ply  | Cap |                           |
| CWF-18.    | Existing Tectum               | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid Modified Base                       | Drill-Tec LD Fastener and Drill-Tec LD Plate                    | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |     | -30.0                     |
| CWF-19.    | Existing Tectum               | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth  | Drill-Tec Polymer Gyptec Fastener and Drill-Tec 3" Gyptec Plate | 6-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |     | -45.0*                    |
| CWF-20.    | Existing Tectum               | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid Modified Base or Ruberoid 20 Smooth | Drill-Tec LD Fastener and Drill-Tec LD Plate                    | 7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |     | -67.5                     |
| CWF-21.    | Existing Tectum               | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth  | Drill-Tec Locking Impact Nail (1.8-inch)                        | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15.</a><br>(No V-BS) |     | -82.5                     |

FBC NON-HVHZ

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

| System No.                   | Deck<br><a href="#">(Note 1)</a>      | Base Insulation Layer  |  |                           | Top Insulation Layer   |   | Roof Cover <a href="#">(Note 15)</a> |   |     | MDP<br><a href="#">(psf)</a> |
|------------------------------|---------------------------------------|--|--|---------------------------|--|---|--------------------------------------|---|-----|------------------------------|
|                              |                                       | Type   | Fastener <a href="#">(Note 11)</a>   | Attach                    | Type   | Attach<br><a href="#">(Notes 6,7,8)</a> | Base                                 | Ply   | Cap |                              |
| <b>CONVENTIONAL SYSTEMS:</b> |                                       |  |  |                           |  |   |                                      |   |     |                              |
| G-1.                         | Existing sound gypsum or gypsum plank | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 270 lbf) | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                             |                                      | GAF BUR.<br><a href="#">Note 15</a> (No V-BS) |     | -45.0*                       |
| G-2.                         | Existing sound gypsum or gypsum plank | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 270 lbf) | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 1.5-inch EnergyGuard Composite (perlite) | hot asphalt                             |                                      | GAF BUR.<br><a href="#">Note 15</a> (No V-BS) |     | -45.0*                       |
| G-3.                         | Existing sound gypsum or gypsum plank | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                             |                                      | GAF BUR.<br><a href="#">Note 15</a> (No V-BS) |     | -45.0*                       |
| G-4.                         | Existing sound gypsum or gypsum plank | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) or Min. 1.5-inch EnergyGuard Composite (perlite) | hot asphalt                             |                                      | GAF BUR.<br><a href="#">Note 15</a> (No V-BS) |     | -45.0*                       |
| <b>VENTING SYSTEMS:</b>      |                                       |  |  |                           |  |   |                                      |   |     |                              |
| G-5.                         | Existing sound gypsum or gypsum plank | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 270 lbf) | 1 per 3.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                             | V-BS                                 | GAF BUR.<br><a href="#">Note 15</a>           |     | -45.0*                       |
| G-6.                         | Existing sound gypsum or gypsum plank | Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite      | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | Min. 1.0-inch EnergyGuard RA or RN   | hot asphalt                             | V-BS                                 | GAF BUR.<br><a href="#">Note 15</a>           |     | -45.0*                       |
| G-7.                         | Existing sound gypsum or gypsum plank | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or Min. 1.5-inch EnergyGuard Composite (wood fiber)   | hot asphalt                             | V-BS                                 | GAF BUR.<br><a href="#">Note 15</a>           |     | -45.0*                       |

**TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-3: MECHANICALLY FASTENED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

| System No.                   | Deck <a href="#">(Note 1)</a>         | Anchor Sheet  |   |  | Insulation  |  |                                      | Roof Cover <a href="#">(Note 15)</a>         |                                  |     | MDP <a href="#">(psf)</a> |
|------------------------------|---------------------------------------|---|---|--|---|--|--------------------------------------|--|----------------------------------|-----|---------------------------|
|                              |                                       | Type  | Fastener <a href="#">(Note 11)</a>  | Attach   | Base  | Top  | Attach <a href="#">(Notes 6,7,8)</a> | Base   | Ply                              | Cap |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |                                       |   |   |  |   |  |                                      |  |                                  |     |                           |
| G-8.                         | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet               | Min. 1.8-inch Drill-Tec Locking Impact Nail or Drill-Tec Base Sheet Fastener (1.2 in) (Field W/D ≥ 105 lbf) | 9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows | Min. 1.5-inch EnergyGuard   | Min. 0.5-inch EnergyGuard Perlite Recover Board or min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)  | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> . (No V-BS) |                                  |     | -45.0*                    |
| G-9.                         | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec CR 1.2-inch Base Sheet fasteners (Field W/D ≥ 48 lbf)   | 7-inch o.c. at the 2-inch lap and 7-inch o.c. in three staggered center rows                 | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard Composite, Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board, or Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> . (No V-BS) |                                  |     | -52.5                     |
| G-10.                        | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Locking Impact Nail (1.8-inch) (Field W/D ≥ 140 lbf)  | 9-inch o.c. at the 2-inch lap and 12-inch o.c. in two staggered center rows                  | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard Composite, Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous), Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board, or Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board | hot asphalt                          | GAF BUR. <a href="#">Note 15</a> . (No V-BS) |                                  |     | -75.0                     |
| <b>VENTING SYSTEMS:</b>      |                                       |   |   |  |   |  |                                      |  |                                  |     |                           |
| G-11.                        | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec CR 1.2-inch Base Sheet fasteners (Field W/D ≥ 48 lbf)   | 7-inch o.c. at the 2-inch lap and 7-inch o.c. in three staggered center rows                 | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard RA or RN, EnergyGuard Ultra or min. 0.25-inch Dens Deck  | hot asphalt                          | V-BS   | GAF BUR. <a href="#">Note 15</a> |     | -52.5                     |

| TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF)  |                                       |   |  |   |   |   |                                      |                                      |     |                                  |                           |
|---|---------------------------------------|---|--|---|---|---|--------------------------------------|--------------------------------------|-----|----------------------------------|---------------------------|
| SYSTEM TYPE B-3: MECHANICALLY FASTENED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER |                                       |   |  |   |   |   |                                      |                                      |     |                                  |                           |
| System No.  | Deck <a href="#">(Note 1)</a>         | Anchor Sheet  |  |   | Insulation  |   |                                      | Roof Cover <a href="#">(Note 15)</a> |     |                                  | MDP <a href="#">(psf)</a> |
|   |                                       | Type  | Fastener <a href="#">(Note 11)</a>                             | Attach  | Base  | Top   | Attach <a href="#">(Notes 6,7,8)</a> | Base                                 | Ply | Cap                              |                           |
| G-12.   | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Locking Impact Nail (1.8-inch) (Field W/D ≥ 112 lbf) | 9-inch o.c. at the 2-inch lap and 12-inch o.c. in two staggered center rows | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard RA or RN                          | hot asphalt                          | V-BS                                 |     | GAF BUR. <a href="#">Note 15</a> | -60.0                     |
| G-13.   | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Locking Impact Nail (1.8-inch) (Field W/D ≥ 140 lbf) | 9-inch o.c. at the 2-inch lap and 12-inch o.c. in two staggered center rows | (Optional) One or more layers, any combination, Min. 1.5-inch EnergyGuard RA or RN or EnergyGuard Composite | Min. 1.5-inch EnergyGuard Ultra or min. 0.25-inch Dens Deck | hot asphalt                          | V-BS                                 |     | GAF BUR. <a href="#">Note 15</a> | -75.0                     |

| TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)                           |                                       |   |            |  |  |                           |  |     |                                  |                           |        |
|--|---------------------------------------|---|------------|--|--|---------------------------|--|-----|----------------------------------|---------------------------|--------|
| SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER |                                       |   |            |  |  |                           |  |     |                                  |                           |        |
| System No.   | Deck <a href="#">(Note 1)</a>         | Base Insulation Layer <a href="#">(Note 13)</a> |            | Top Insulation Layer   |  |                           | Roof Cover <a href="#">(Note 15)</a>         |     |                                  | MDP <a href="#">(psf)</a> |        |
|  |                                       | Type  | Attach     | Type   | Fastener <a href="#">(Note 11)</a>   | Attach                    | Base   | Ply | Cap                              |                           |        |
| <b>CONVENTIONAL SYSTEMS:</b>   |                                       |   |            |  |  |                           |  |     |                                  |                           |        |
| G-14.  | Existing sound gypsum or gypsum plank | (Optional) One or more layers, any combination  | Loose laid | Min. 1.5-inch EnergyGuard Composite (iso side down)              | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | GAF BUR. <a href="#">Note 15</a> . (No V-BS) |     |                                  |                           | -45.0* |
| G-15.  | Existing sound gypsum or gypsum plank | (Optional) One or more layers, any combination  | Loose laid | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | GAF BUR. <a href="#">Note 15</a> . (No V-BS) |     |                                  |                           | -45.0* |
| G-16.  | Existing sound gypsum or gypsum plank | (Optional) One or more layers, any combination  | Loose laid | Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous) | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | GAF BUR. <a href="#">Note 15</a> . (No V-BS) |     |                                  |                           | -45.0* |
| <b>VENTING SYSTEMS:</b>  |                                       |   |            |  |  |                           |  |     |                                  |                           |        |
| G-17.  | Existing sound gypsum or gypsum plank | (Optional) One or more layers, any combination  | Loose laid | Min. 1.5-inch EnergyGuard RA or RN                               | Drill-Tec Polymer Gyptec Fastener with Drill-Tec 3" Gyptec Plate (Field W/D ≥ 180 lbf) | 1 per 2.0 ft <sup>2</sup> | V-BS   |     | GAF BUR. <a href="#">Note 15</a> |                           | -45.0* |

| TABLE 6D: GYPSUM DECKS – REROOF (TEAR-OFF)                                      |                                       |   |            |  |  |  |  |        |                           |
|---|---------------------------------------|---|------------|--|--|--|--|--------|---------------------------|
| SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER |                                       |   |            |  |  |  |  |        |                           |
| System No.  | Deck <a href="#">(Note 1)</a>         | Insulation Layer(s) <a href="#">(Note 13)</a> |            | Base Sheet   |  |  | Roof Cover <a href="#">(Note 15)</a>         |        | MDP <a href="#">(psf)</a> |
|   |                                       | Type  | Attach     | Base   | Fastener <a href="#">(Note 11)</a>                       | Attach   | Ply  | Cap    |                           |
| G-18.   | Existing sound gypsum or gypsum plank | One or more layers, any combination           | Loose Laid | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth | Drill-Tec Locking Impact Nail (Field W/D $\geq$ 105 lbf) | 9-inch o.c. at the 2-inch lap and 18-inch o.c. in two equally spaced staggered center rows | GAF BUR. <a href="#">Note 15</a> . (No V-BS) | -45.0* |                           |

| TABLE 6E: GYPSUM DECKS – REROOF (TEAR-OFF)  |                                       |  |  |  |  |       |                           |  |
|---|---------------------------------------|--|--|--|--|-------|---------------------------|--|
| SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER |                                       |  |  |  |  |       |                           |  |
| System No.  | Deck <a href="#">(Note 1)</a>         | Base Sheet   |  |  | Roof Cover <a href="#">(Note 15)</a>         |       | MDP <a href="#">(psf)</a> |  |
|   |                                       | Type   | Fastener <a href="#">(Note 11)</a>                                     | Attach   | Ply  | Cap   |                           |  |
| G-19.   | Existing sound gypsum or gypsum plank | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid Modified Base                       | Drill-Tec LD Fastener and Drill-Tec LD Plate (Field W/D $\geq$ 53 lbf) | 9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows | GAF BUR. <a href="#">Note 15</a> . (No V-BS) | -30.0 |                           |  |
| G-20.   | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth  | Drill-Tec CR 1.2-inch Base Sheet fasteners (Field W/D $\geq$ 41 lbf)   | 7-inch o.c. at the 2-inch lap and 7-inch o.c. in three staggered center rows                 | GAF BUR. <a href="#">Note 15</a> . (No V-BS) | -45.0 |                           |  |
| G-21.   | Existing sound gypsum or gypsum plank | GAFGLAS Ply 4, GAFGLAS Ply 4 M, Tri-Ply Ply 4 Ply Sheet, GAFGLAS FlexPly 6, GAFGLAS FlexPly 6 M, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid Modified Base or Ruberoid 20 Smooth | Drill-Tec LD Fastener and Drill-Tec LD Plate (Field W/D $\geq$ 77 lbf) | 7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows  | GAF BUR. <a href="#">Note 15</a> . (No V-BS) | -67.5 |                           |  |
| G-22.   | Existing sound gypsum or gypsum plank | GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Stratavent Nailable Venting Base Sheet or Ruberoid 20 Smooth  | Drill-Tec Locking Impact Nail (1.8-inch) (Field W/D $\geq$ 140 lbf)    | 9-inch o.c. at the 2-inch lap and 12-inch o.c. in two staggered center rows                  | GAF BUR. <a href="#">Note 15</a> . (No V-BS) | -75.0 |                           |  |

**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 and roof cover when installed atop 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<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )   | Base Insulation Layer  |   | Top Insulation Layer   |   | Roof Cover ( <a href="#">Note 15</a> )          |     |     | MDP<br>(psf) <sup>A</sup> |
|------------------------------|---|--|---|--|---|---|-----|-----|---------------------------|
|                              |   | Type   | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type   | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base  | Ply | Cap |                           |
| <b>CONVENTIONAL SYSTEMS:</b> |   |  |   |  |   |   |     |     |                           |
| R-1.                         | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof; (Optional) ASTM D41 primer       | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation      | hot asphalt                               | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, EnergyGuard Perlite Recover Board, min. 0.75-inch EnergyGuard Perlite Roof Insulation, min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime | hot asphalt                               | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -150.0                    |
| R-2.                         | Existing smooth-surface asphaltic built-up roof   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation      | LRF-M                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, EnergyGuard Perlite Recover Board, min. 0.75-inch EnergyGuard Perlite Roof Insulation, min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime | hot asphalt                               | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -75.0                     |
| R-3.                         | Existing smooth-surface asphaltic built-up roof   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation      | LRF-M                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime  | LRF-M                                     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -75.0                     |
| R-4.                         | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof                                   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation      | LRF-M                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, EnergyGuard Perlite Recover Board, min. 0.75-inch EnergyGuard Perlite Roof Insulation, min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime | hot asphalt                               | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -150.0                    |
| R-5.                         | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof                                   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation      | LRF-M                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime  | LRF-M                                     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -150.0                    |
| R-6.                         | Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation                     | LRF-M<br>Canister                         | Insulation: (Optional) Additional layer(s) base insulation.<br>Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board  | LRF-M<br>Canister                         | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -202.5                    |
| R-7.                         | Existing asphaltic built-up roof  | (Optional) Min. 1.5-inch EnergyGuard RA                          | LRF-XF                                    | Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board  | LRF-XF                                    | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -240.0                    |
| R-8.                         | Existing asphaltic built-up roof  | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation | OB500                                     | None   | N/A                                       | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -120.0                    |
| R-9.                         | Existing asphaltic built-up roof  | Min. 1.5-inch EnergyGuard RA or RN                               | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation   | OB500                                     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -120.0                    |
| R-10.                        | Existing asphaltic built-up roof  | Min. 1.5-inch EnergyGuard RA or RN                               | OB500                                     | Min. 0.25-inch Dens Deck or Dens Deck Prime  | OB500                                     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |     |     | -120.0                    |



**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 and roof cover when installed atop 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<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )   | Base Insulation Layer                                       |   | Top Insulation Layer   |   | Roof Cover ( <a href="#">Note 15</a> )          |                                    |     | MDP<br>(psf) <sup>A</sup> |
|-------------------------|---|---|---|--|---|---|------------------------------------|-----|---------------------------|
|                         |   | Type  | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type   | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base  | Ply                                | Cap |                           |
| R-11.                   | Existing asphaltic built-up roof  | Min. 1.5-inch EnergyGuard RA or RN                          | OB500                                     | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board  | OB500                                     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |     | -120.0                    |
| R-12.                   | Existing sand-surface APP modified bitumen or asphaltic built-up roof   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, EnergyGuard Perlite Recover Board, min. 0.75-inch EnergyGuard Perlite Roof Insulation, min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime | hot asphalt                               | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |     | -150.0                    |
| R-13.                   | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof                                   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, EnergyGuard Perlite Recover Board, min. 0.75-inch EnergyGuard Perlite Roof Insulation, min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime | hot asphalt                               | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |     | -150.0                    |
| R-14.                   | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof                                   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime  | OB500                                     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |     | -150.0                    |
| R-15.                   | Existing sand-surface APP modified bitumen or asphaltic built-up roof   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | OB500                                     | Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch SECUROCK Gypsum Fiber Roof Board, Dens Deck, Dens Deck Prime  | OB500                                     | GAF BUR. <a href="#">Note 15</a> .<br>(No V-BS) |                                    |     | -150.0                    |
| <b>VENTING SYSTEMS:</b> |   |   |   |  |   |   |                                    |     |                           |
| R-16.                   | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof; (Optional) ASTM D41 primer       | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | hot asphalt                               | None   | N/A                                       | V-BS  | GAF BUR. <a href="#">Note 15</a> . |     | -150.0                    |
| R-17.                   | Existing smooth-surface asphaltic built-up roof   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | LRF-M                                     | None   | N/A                                       | V-BS  | GAF BUR. <a href="#">Note 15</a> . |     | -75.0                     |
| R-18.                   | Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation                | LRF-M Canister                            | Insulation: (Optional) Additional layer(s) base insulation.  | LRF-M Canister                            | V-BS  | GAF BUR. <a href="#">Note 15</a> . |     | -150.0                    |
| R-19.                   | Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen | Min. 1.5-inch EnergyGuard Polyiso Insulation                | LRF-M Canister                            | Insulation: (Optional) Additional layer(s) base insulation. Coverboard: Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board   | LRF-M Canister                            | V-BS  | GAF BUR. <a href="#">Note 15</a> . |     | -202.5                    |
| R-20.                   | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof                                   | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | LRF-M                                     | None   | N/A                                       | V-BS  | GAF BUR. <a href="#">Note 15</a> . |     | -225.0                    |

**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 and roof cover when installed atop 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<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> )           | Base Insulation Layer                                       |   | Top Insulation Layer |   |      | Roof Cover ( <a href="#">Note 15</a> ) |     |        | MDP<br>(psf) <sup>A</sup> |
|------------|---|---|---|----------------------|---|------|--|-----|--------|---------------------------|
|            |   | Type  | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Type                 | Attach<br>( <a href="#">Notes 6,7,8</a> ) | Base | Ply                                    | Cap |        |                           |
| R-21.      | Existing sand- or granule-surface modified bitumen or asphaltic built-up roof | Max. 48 x 48 x min. 0.5-inch EnergyGuard Polyiso Insulation | OB500                                     | None                 | N/A                                       | V-BS | GAF BUR.<br><a href="#">Note 15</a> .  |     | -225.0 |                           |

**TABLE 7B: 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<br>( <a href="#">Note 1</a> and <a href="#">Note 12</a> ) | Roof Cover ( <a href="#">Note 15</a> ) |                                    |     | MDP<br>(psf) <sup>A</sup> |
|------------|---|--|------------------------------------|-----|---------------------------|
|            |   | Base                                   | Ply                                | Cap |                           |
| R-22.      | Existing asphaltic built-up roof                                    | V-BS                                   | GAF BUR. <a href="#">Note 15</a> . |     | -60.0                     |