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FL #	FL20663-R4												
Application Type	Revision												
Code Version	2017												
Application Status	Approved												
Comments													
Archived	<input type="checkbox"/>												
Product Manufacturer	GAF												
Address/Phone/Email	1 Campus Drive Parisppany, NJ 07054 (800) 766-3411 mstieh@gaf.com												
Authorized Signature	Robert Nieminen lreith@nemoetc.com												
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Quality Assurance Representative													
Address/Phone/Email													
Category	Roofing												
Subcategory	Liquid Applied Roof Systems												
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received												
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen												
Florida License	PE-59166												
Quality Assurance Entity	UL LLC												
Quality Assurance Contract Expiration Date	12/17/2021												
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received												
Certificate of Independence	<a href="#">FL20663_R4_COI_2019_01_COI_NIEMINEN.pdf</a>												
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>ASTM D6083</td> <td>2005</td> </tr> <tr> <td>ASTM D6163</td> <td>2008</td> </tr> <tr> <td>ASTM D6164</td> <td>2011</td> </tr> <tr> <td>FM 4470</td> <td>2012</td> </tr> <tr> <td>FM 4474</td> <td>2011</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ASTM D6083	2005	ASTM D6163	2008	ASTM D6164	2011	FM 4470	2012	FM 4474	2011
<b>Standard</b>	<b>Year</b>												
ASTM D6083	2005												
ASTM D6163	2008												
ASTM D6164	2011												
FM 4470	2012												
FM 4474	2011												
Equivalence of Product Standards Certified By													
Sections from the Code													





**NEMO|etc.**

Certificate of Authorization #32455  
353 Christian Street, Unit #13  
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(203) 262-9245

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**EVALUATION REPORT**

**GAF**

1 Campus Drive  
Parsippany, NJ 07054  
**(800) 766-3411**

**Evaluation Report 10795.06.16-R4**

**FL20663-R4**

**Date of Issuance: 06/13/2016**

**Revision 4: 08/12/2019**

**SCOPE:**

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **6<sup>th</sup> Edition (2017) Florida Building Code** sections noted herein.

**DESCRIPTION: GAF Liquid Applied Roof Systems**

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

**CONTINUED COMPLIANCE:** This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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

This Evaluation Report consists of pages 1 through 5, plus a 16-page Appendix.

**Prepared by:**

**Robert J.M. Nieminen, P.E.**

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 08/12/2019. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

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

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

**Product Category:** Roofing  
**Sub-Category:** Liquid Applied Roof Systems  
**Compliance Statement:** **GAF Liquid Applied Roof Systems**, as produced by **GAF**, has demonstrated compliance with the following sections of the **6<sup>th</sup> Edition (2017) Florida Building Code** through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	FM 4474	2011
1504.7	Impact	FM 4470	2012
1507.11.2	Physicals	ASTM D6163	2008
1507.11.2	Physicals	ASTM D6164	2011
1507.15.2	Physical Properties	ASTM D6083	2005

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ACRC (TST4671)	Wind	09-018	10/27/2009
ACRC (TST4671)	Wind	09-019	10/27/2009
ACRC (TST4671)	Wind	09-020	10/28/2009
ACRC (TST4671)	Wind	09-021	10/28/2009
ACRC (TST4671)	Wind	09-022	10/29/2009
ACRC (TST4671)	Wind	09-023	10/29/2009
ACRC (TST4671)	Wind	10-001	02/10/2010
ACRC (TST4671)	Wind	12-020	05/08/2012
ACRC (TST4671)	Wind	16-003	03/04/2016
ERD (TST6049)	Wind	4696-04-97-1	07/11/1997
ERD (TST6049)	Wind	4697-12-00-1	12/07/2000
ERD (TST6049)	Physical Properties	G31360.03.10	03/31/2010
ERD (TST6049)	Physical Properties	G33470.01.11	01/13/2011
ERD (TST6049)	Physical Properties	G34140.04.11-2	04/25/2011
ERD (TST6049)	Physical Properties	G40630.01.14-1	01/06/2014
ERD (TST6049)	Physical Properties	G40630.01.14-2A	01/07/2014
ERD (TST6049)	Physical Properties	G34140.04.11-5-R3	06/04/2015
ERD (TST6049)	Wind	GAF-SC10845.04.16	04/26/2016
FM (TST 1867)	FM 4470	3000150	09/01/1999
FM (TST 1867)	FM 4470	3023606	10/18/2006
FM (TST 1867)	FM 4470	3031350	09/27/2007
FM (TST 1867)	FM 4470	3044541	04/02/2012
FM (TST 1867)	FM 4470	3046328	09/13/2012
FM (TST 1867)	FM 4470	3048496	12/19/2013
FM (TST 1867)	FM 4470	RR204674	04/06/2016
FM (TST 1867)	FM 4470	RR204740	04/13/2016
FM (TST 1867)	FM 4470	RR204846	05/09/2016
FM (TST 1867)	FM 4470	RR204845	05/09/2016
FM (TST 1867)	FM 4470	RR206245	09/30/2016
FM (TST 1867)	FM 4470	3055491	12/05/2016
FM (TST 1867)	FM 4470	3058483	12/09/2016
FM (TST 1867)	FM 4470 / 4474	3060374	03/03/2018
PRI (TST 5878)	ASTM D6083, FIN-B (SC)	HSI-007-02-01	03/25/2011
PRI (TST 5878)	ASTM D6083, FIN-B (AZ)	HSI-009-02-01	03/25/2011
PRI (TST 5878)	ASTM D6083, FOU-D-A (AZ)	HSI-010-02-01	03/25/2011
PRI (TST 5878)	ASTM D6083, FOU-D-A (SC)	HSI-011-02-01	03/25/2011
PRI (TST 5878)	Wind	GAF-457-02-04	02/05/2014

<b>Entity</b>	<b>Examination</b>	<b>Reference</b>	<b>Date</b>
PRI (TST 5878)	Small-Scale Performance	GAF-559-02-03	10/16/2014
PRI (TST 5878)	Wind	QCP-018-02-01	11/14/2014
PRI (TST 5878)	Wind	GAF-654-02-01	05/17/2016
PRI (TST 5878)	ASTM D6083, FIN (SC)	GAF-777-02-01	09/15/2017
UL, LLC. (QUA9625)	Quality Control	Inspection Report, R6935 (SC)	04/25/2018

#### 4. PRODUCT DESCRIPTION:

This Evaluation Report covers the **GAF Liquid Applied Roof Systems** applied to Approved substrates as outlined in the Limitations / Conditions of Use herein. The following products make up the subject roof covers.

##### 4.1 LIQUID APPLIED MEMBRANE COMPONENTS:

<b>Product</b>	<b>Description</b>	<b>Specification</b>
HydroStop® PremiumCoat® Foundation Coat	Acrylic elastomeric waterproofing compound used as a base layer in the HydroStop® PremiumCoat® System	ASTM D6083
HydroStop® PremiumCoat® Finish Coat	Acrylic elastomeric waterproofing compound used as a top layer in the HydroStop® PremiumCoat® System	ASTM D6083
HydroStop® PremiumCoat® Fabric	Reinforcing fabric for the HydroStop® PremiumCoat® System and/or HydroStop® BarrierGuard® Waterproofing	Proprietary
United Coatings™ Diathon® Base Coat	Acrylic elastomeric base coat for use in United Coatings™ Diathon® System	Proprietary
United Coatings™ Diathon® Roof Coating	Acrylic elastomeric top coat for use in United Coatings™ Diathon® System	ASTM D6083

##### 4.2 PRIMERS:

<b>Product</b>	<b>Description</b>
FireOut™ Fire Barrier Coating	Water-based, fire-resistive coating
HydroStop® BarrierGuard® Waterproofing	Priming and waterproofing compound for masonry surfaces
SureBond Primer	Acrylic primer used for sealing masonry, metal and chalky surfaces

##### 4.3 SURFACING:

<b>Product</b>	<b>Description</b>
HydroStop® TrafficCoat Deck Coating	Acrylic elastomeric waterproofing compound used as a non-skid surfacing layer over the HydroStop® PremiumCoat® System

##### 4.4 BASE SHEETS:

<b>Product</b>	<b>Description</b>	<b>Specification</b>
GAFGLAS® Stratavent® Nailable Venting Base Sheet	Fiberglass reinforced, asphalt coated, granule-bottom-surfaced, nailable base sheet	ASTM D4897, Type II

##### 4.5 BASE PLY MEMBRANES:

<b>Product</b>	<b>Description</b>	<b>Specification</b>
Ruberoid® 20 Smooth	Fiberglass reinforced, SBS modified bitumen	ASTM D6163, Type I, Grade S
Ruberoid® Mop Smooth 1.5	Polyester reinforced, SBS modified bitumen	ASTM D6164, Type I, Grade S
Ruberoid® Mop Smooth	Polyester reinforced, SBS modified bitumen	ASTM D6164, Type I, Grade S
Ruberoid® Mop Plus Smooth	Polyester reinforced, SBS modified bitumen	ASTM D6164, Type II, Grade S
Ruberoid® HW 25 Smooth	Fiberglass reinforced, SBS modified bitumen	ASTM D6163, Type I, Grade S
Ruberoid® HW Smooth	Polyester reinforced, SBS modified bitumen	ASTM D6164, Type I, Grade S

## 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in HVHZ jurisdictions.
- 5.3 Refer to a current UL Roofing Materials Directory for fire ratings of this product.
- 5.4 For steel deck installations, foam plastic insulation shall be separated from the building interior in accordance with **FBC 2603.4** unless the exceptions stated in **FBC 2603.4.1** and **2603.6** apply.
- 5.5 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. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- 5.6 For recover installations, the existing roof shall be examined in accordance with **FBC 1511**.
- 5.7 For mechanically attached insulation or membrane or strip-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 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 **Roofing Application Standard 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 (January 2016)** for Zone 2/3 enhancements.
- 5.8 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.
- 5.9 For mechanically attached insulation or membrane over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.
- 5.10 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1**, **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.
- 5.11 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.
- 5.12 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with **ANSI/SPRI ES-1** or **Roofing Application Standard RAS 111**, except the basic wind speed shall be determined from **FBC Figure 1609.3(1)**, **1609.3(2)** or **1609.3(3)**.
- 5.13 All products in the roof assembly shall have quality assurance in accordance with **FAC Rule 61G20-3**. For non-GAF components listed within wind uplift rated assemblies in Appendix 1, refer to the Product Approval of the component manufacturer.

## 6. INSTALLATION:

- 6.1 **GAF Liquid Applied Roof Systems** shall be installed in accordance with **GAF** current, published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 System attachment requirements for wind load resistance are set forth in Appendix 1. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.

## 7. BUILDING PERMIT REQUIREMENTS:

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

## 8. MANUFACTURING PLANTS:

Contact the named QA entity for information on plants covered under **F.A.C. Rule 61G20-3** QA requirements.

## 9. QUALITY ASSURANCE ENTITY:

UL, LLC. – QUA9625; (847) 664-3281

**- THE 15-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -**

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

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Liquid Applied Roof System	5
1B	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Base Ply, Liquid Applied Roof System	5
1C	Wood	New or Reroof (Tear-Off)	E	Non-Insulated, Mechanically Attached Base Sheet, Liquid Applied Roof System	5
2A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, SPUF, Liquid Applied Roof System	6
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Base Ply, Liquid Applied Roof System	6
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Liquid Applied Roof System	7
2D	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Base Ply, Liquid Applied Roof System	7-8
3A	Structural concrete	New or Reroof (Tear-Off)	A	Bonded Insulation, Liquid Applied Roof System	9
3B	Structural concrete	New or Reroof (Tear-Off)	A	Bonded Insulation, SPUF, Liquid Applied Roof System	10
3C	Structural concrete	New or Reroof (Tear-Off)	A	Bonded Insulation, Bonded Base Ply, Liquid Applied Roof System	10-11
3D	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Liquid Applied Roof System	11
4A	LWIC	New, Reroof (Tear-Off)	E	LWC to Deck, Mechanically Attached Base Sheet, Liquid Applied Roof System	12
4B	LWIC	New	F	LWC to Deck, Non-Insulated, Liquid Applied Roof System	12
5A	Various	Recover	A	Bonded Insulation, Liquid Applied Roof System	13-14
5B	Various	Recover	A	Bonded Insulation, Bonded Base Ply, Liquid Applied Roof System	14-16
5C	Various	Recover	F	Non-Insulated, Liquid Applied Roof System	16

**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. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Unless otherwise noted, insulation / base sheet fasteners shall be the following with the noted minimum fastener engagement for each deck type.
  - Wood: Drill-Tec™ #12 Fastener or Drill-Tec™ #14 Fastener with Drill-Tec™ 3" Standard Steel Plate, Drill-Tec™ 3" Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume Plates (Flat), Drill-Tec™ AccuTrac® Flat Plate or Drill-Tec™ AccuTrac® Recessed Plate (insulation only) or Drill-Tec™ ASAP 3S or Drill-Tec™ Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate. Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
  - Steel: Drill-Tec™ #12 Fastener, Drill-Tec™ #14 Fastener or Drill-Tec™ XHD Fastener with Drill-Tec™ 3" Standard Steel Plate, Drill-Tec™ 3" Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume Plates (Flat), Drill-Tec™ AccuTrac® Flat Plate or Drill-Tec™ AccuTrac® Recessed Plate (insulation only) or Drill-Tec™ ASAP 3S or Drill-Tec™ Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate; Drill-Tec™ Extra Heavy Duty ASAP Roofing Fastener - Insulation. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
  - Structural concrete: Drill-Tec™ #14 Fastener or Drill-Tec™ CD-10 with Drill-Tec™ 3" Standard Steel Plate, Drill-Tec™ 3" Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume Plates (Flat), Drill-Tec™ AccuTrac® Flat Plate or Drill-Tec™ AccuTrac® Recessed Plate (insulation only) or Drill-Tec™ Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate. Minimum 1-inch embedment into pilot hole in accordance with the fastener manufacturer's published installation instructions.
- Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, gypsum-based roof board or mineral wool roof board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover. GAF FireOut™ Fire Barrier Coating or VersaShield® Solo® Fire-Resistant Slip Sheet, installed in accordance with GAF published installation instructions and fire resistance certification listings, may be used as a non-load-bearing, fire-barrier / slip-sheet component within any system outlined herein.



4. 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:
- Hot asphalt (HA): Full coverage at 25-30 lbs/square.
  - GAF 2-Part Roofing Adhesive (GAF 2-Part): Continuous 2.5 to 3.5-inch wide ribbons, 12-inch o.c.
  - LRF Adhesive M (LRF-M): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
  - OlyBond 500® (OB500): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c. using PaceCart or SpotShot. *Note: OlyBond 500® Green may be used in place of OlyBond 500®.*
  - *Note: When multiple layer(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.*
  - *Note: 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.*
5. 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:
- Hot Asphalt: MDP = -240.0 psf (Min. 0.5-inch thick)
  - GAF 2-Part Roofing Adhesive (GAF 2-Part): MDP = -117.5 psf (Min. 1.0-inch thick)
  - LRF Adhesive M (LRF-M): MDP = -232.5 psf (Min. 0.5-inch thick EnergyGuard™ Polyiso Insulation, EnergyGuard™ NH Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ NH Ultra Polyiso Insulation)
  - OlyBond 500® (OB500): MDP = -292.5 psf (Min. 0.5-inch thick EnergyGuard™ Polyiso Insulation, EnergyGuard™ NH Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ NH Ultra Polyiso Insulation)
  - OlyBond 500® (OB500): MDP = -315.0 psf (Min. 0.5-inch thick EnergyGuard™ RH or RN)
  - OlyBond 500® (OB500): MDP = -487.5 psf (Min. 0.5-inch thick EnergyGuard™ RA)
6. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
7. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 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 and Roofing Application Standard RAS 117. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements for Zone 2/3 enhancements.
8. For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
9. 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.
10. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.
11. 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). Unless otherwise noted, 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.

12. Unless otherwise noted, modified bitumen membrane references herein are as follows:

MODIFIED BITUMEN BASE PLY REFERENCES:			
REFERENCE	LAYER	MATERIAL	APPLICATION
SBS-CA1	Base Ply:	Ruberoid® 20 Smooth, Ruberoid® Mop Smooth 1.5	Matrix® 101 Premium SBS Membrane Adhesive at 1.5 – 2.0 gal/square. 3-inch wide side laps are torched or hot air welded.
SBS-CA2	Base Ply:	Ruberoid® 20 Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth	GAF 2-Part Roofing Adhesive, spatter applied at 3.75 lbs/square. 3-inch wide side laps are torched or hot air welded.
SBS-TA	Base Ply:	Ruberoid® HW Smooth or Ruberoid® HW 25 Smooth	Torch-applied. 3-inch wide side laps are torched or hot air welded.

13. Unless otherwise noted, application rates of the components are as follows:

COMPONENTS & APPLICATION RATES:	
PRODUCT	APPLICATION
HydroStop® BarrierGuard® Waterproofing	Two (2) coats at 0.67 gal/square per coat
SureBond Primer	0.5 gal/square
HydroStop® PremiumCoat® Insulation Joint Treatment:	<u>Top Insulation Layer if no Base Ply is installed:</u> HydroStop® PremiumCoat® Foundation Coat is brush applied over all top-layer insulation joints at 6-inch width at a rate of 1.25 gal./square, centered about each joint. 6-inch wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/square.
HydroStop PremiumCoat Base Sheet or Base Ply Lap Treatment:	<u>(OPTIONAL) For use over Base Sheet or Base Ply only:</u> HydroStop® PremiumCoat® Foundation Coat is brush applied over all base sheet or base ply laps at 6-inch width at a rate of 1.25 gal./square, centered about each lap. 6-inch wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/square.
HydroStop® PremiumCoat® System:	HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./square. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat with 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./square. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./square per coat.
HydroStop® TrafficCoat Deck Coating:	Per GAF published instructions
United Coatings Diathon Base Coat	1.75 gal/sq.
United Coatings Diathon Roof Coating	1.75 gal/sq.

14. Vapor barrier options for over **structural concrete deck** with adhered insulation carry the following Maximum Design Pressure (MDP) limitations. The **lesser** of the MDP listings below vs. those in **Table 3A, 3B or 3C** applies:

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; ADHERED INSULATION PER TABLES 3A, 3B OR 3C						
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)	
		TYPE	ATTACH			
VB-1.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6		Hot asphalt applied	Hot asphalt	-360.0
VB-2.	GAF SA Primer	Ruberoid SA Universal Base		Self-adhering	GAF 2-Part, 12-inch o.c.	-157.5
VB-3.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Granule		Torch-applied	GAF 2-Part, 12-inch o.c.	-169.0
VB-4.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth		Torch-applied	GAF 2-Part, 12-inch o.c.	-180.0
VB-5.	GAF SA Primer	GAF SA Vapor Retarder		Self-adhering	GAF 2-Part, 12-inch o.c.	-202.5
VB-6.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Liberty SBS Self-Adhering Cap Sheet		Self-adhering	GAF 2-Part, 12-inch o.c.	-250.0
VB-7.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6		Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-262.5
VB-8.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 30		Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-270.0

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; ADHERED INSULATION PER TABLES 3A, 3B OR 3C					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	ATTACH		
VB-9.	GAF SA Primer	Ruberoid SA Universal Base Sheet	Self-adhering	LRF-M, 12-inch o.c.	-157.5
VB-10.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth	Torch-applied	LRF-M, 12-inch o.c.	-180.0
VB-11.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	LRF-M, 12-inch o.c.	-202.5
VB-12.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	LRF-M, 12-inch o.c.	-495.0
VB-13.	GAF SA Primer	Ruberoid SA Universal Base Sheet	Self-adhering	OlyBond 500, 12-inch o.c.	-157.5
VB-14.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Liberty SBS Self-Adhering Cap Sheet	Self-adhering	OlyBond 500, 12-inch o.c.	-187.5
VB-15.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-165.0
VB-16.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-180.0
VB-17.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 20 Smooth	Matrix 102 SBS Membrane Adhesive at 1.5 gal/square	OlyBond 500, 12-inch o.c.	-202.5
VB-18.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	OlyBond 500, 12-inch o.c.	-202.5
VB-19.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-232.5
VB-20.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	OlyBond 500, 12-inch o.c.	-352.5

15. HydroStop® TrafficCoat Deck Coating may be applied to the final HydroStop® PremiumCoat® Finish Coat surface with no adverse affect on system wind uplift performance.
16. The following insulations are interchangeable within the scope of this Evaluation Report:
  - EnergyGuard Polyiso Insulation ⇔ EnergyGuard NH Polyiso Insulation;
  - EnergyGuard Ultra Polyiso Insulation ⇔ EnergyGuard NH Ultra Polyiso Insulation.
17. "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.

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

System No.	Deck (Note 1)	Base Insulation and/or Thermal Barrier Layer(s)	Top Insulation Layer			Roof Cover (Note 13)		MDP (psf)
			Type	Fasteners	Attach	Joint Treatment	LARS	
W-1.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck	Drill-Tec #12 or #14 Fastener with Drill-Tec 3" Standard Steel Plate	1 per 1.33 ft <sup>2</sup>	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-60.0
W-2.	Min. 15/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Drill-Tec #12 or #14 Fastener with Drill-Tec 3" Standard Steel Plate	1 per 1.33 ft <sup>2</sup>	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-67.5

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED BASE PLY, LIQUID APPLIED ROOF SYSTEM**

System No.	Deck (Note 1)	Base Insulation and/or Thermal Barrier Layer(s)	Top Insulation Layer			Roof Cover (Note 12 & 13)			MDP (psf)
			Type	Fasteners	Attach	Base Ply	Base Ply Treatment	LARS	
W-3.	Min. 15/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Drill-Tec #12 or #14 Fastener with Drill-Tec 3" Standard Steel Plate	1 per 1.33 ft <sup>2</sup>	SBS-CA2 or SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-67.5

**TABLE 1C: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, LIQUID APPLIED ROOF SYSTEM**

System No.	Deck (Note 1)	Slip Sheet	Base Sheet			Roof Cover (Note 13)	MDP (psf)
			Base	Fasteners	Spacing		
W-4.	Min. 19/32-inch plywood	(Optional) GAF FireOut Fire Barrier Coating or VersaShield Solo Fire-Resistant Slip Sheet	GAFGLAS Stratavent Nailable Venting Base	Min. 12 ga. annular ring shank nails and 1-5/8" diameter tin caps	7-inch o.c. at 4-inch wide laps and 7-inch o.c. at two (2) equally spaced, staggered center rows	HydroStop PremiumCoat System	-45.0

**TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, SPUF, LIQUID APPLIED ROOF SYSTEM**

System No.	Deck (Note 1)	Base Insulation			Spray Applied Polyurethane Foam	Roof Cover (Note 13)		MDP (psf)
		Type	Fasten	Attach		Base Coat	Top Coat	
S-1	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 4 ft <sup>2</sup>	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-30.0*
S-2	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 2.67 ft <sup>2</sup>	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-37.5*
S-3	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 2.9 ft <sup>2</sup>	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-45.0*
S-4	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.45 ft <sup>2</sup>	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-82.5

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

System No.	Deck (Note 1)	Base Insulation			Top Insulation		Roof Cover (Note 12 & 13)			MDP (psf)
		Type	Fasten	Attach	Type	Attach	Base Ply	Base Ply Treatment	LARS	
S-5	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M, OB500	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-37.5*
S-6	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M, OB500	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-45.0*
S-7	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M, OB500	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-45.0*

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, LIQUID APPLIED ROOF SYSTEM**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 13)		MDP (psf)
			Type	Fasten	Attach	Joint Treatment	LARS	
S-8	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-45.0*
S-9	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-45.0*
S-10	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2 (no Drill-Tec 3" Steel Plate)	1 per 1.45 ft <sup>2</sup>	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-67.5
S-11	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.45 ft <sup>2</sup>	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0
S-12	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (no Drill-Tec 3" Steel Plate)	1 per 1.45 ft <sup>2</sup>	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 12 & 13)			MDP (psf)
			Type	Fasten	Attach	Base Ply	Base Ply Treatment	LARS	
S-13	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	SBS-CA1, SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-45.0*
S-14	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 2.9 ft <sup>2</sup>	SBS-CA1, SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-45.0*
S-15	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	SBS-CA1, SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-45.0*
S-16	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-52.5
S-17	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2 (no Drill-Tec 3" Steel Plate)	1 per 1.45 ft <sup>2</sup>	SBS-CA2 or SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-67.5

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 12 & 13)			MDP (psf)
			Type	Fasten	Attach	Base Ply	Base Ply Treatment	LARS	
S-18	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.45 ft <sup>2</sup>	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-67.5
S-19	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	SBS-CA1, SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-67.5
S-20	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-67.5
S-21	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.45 ft <sup>2</sup>	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-75.0
S-22	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 ( <i>no Drill-Tec 3" Steel Plate</i> )	1 per 1.45 ft <sup>2</sup>	SBS-CA2 or SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-75.0

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

REFER TO NOTE 14 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 13)		MDP (psf)
		Type	Attach	Type	Attach	Joint/Lap Treatment	LARS	
C-1	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0
C-2	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-135.0
C-3	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
C-4	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
C-5	Structural concrete	Min. 1.5-inch ACFoam IV	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-287.5
C-6	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-335.0
C-7	Structural concrete	Min. 1.5-inch EnergyGuard RA Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-390.0
C-8	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0
C-9	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-135.0
C-10	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer(s) base insulation	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
C-11	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-335.0
C-12	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0
C-13	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-135.0
C-14	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
C-15	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
C-16	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-335.0



**TABLE 3B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A: BONDED INSULATION, SPRAY APPLIED POLYURETHANE FOAM, LIQUID APPLIED ROOF SYSTEM**

REFER TO NOTE 14 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Spray Applied Polyurethane Foam	Roof Cover (Note 13)		MDP (psf)
		Type	Attach		Base Coat	Top Coat	
C-17	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-285.0
C-18	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-232.5
C-19	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-285.0
C-20	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	BASF “ELASTOTITE G20140”, full coverage at 1 gal/sq. (Refer to FL22254)	1.5 – 6.0 in. thick BASF “ELASTOSPRAY 81285” applied at 2.85 lb./ft <sup>3</sup> or BASF “ELASTOSPRAY 81305” applied at 3.0 lb./ft <sup>3</sup> (Refer to FL1493)	United Coatings Diathon Base Coat or Diathon Roof Coating	United Coatings Diathon Roof Coating	-495.0

**TABLE 3C: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A: BONDED INSULATION, BONDED BASE PLY, LIQUID APPLIED ROOF SYSTEM**

REFER TO NOTE 14 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 12 & 13)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Base Ply Treatment	LARS	
C-21	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-60.0
C-22	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-CA1, SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-127.5
C-23	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-172.5
C-24	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
C-25	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
C-26	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-335.0
C-27	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer(s) base insulation	LRF-M	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-60.0
C-28	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-127.5

**TABLE 3C: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A: BONDED INSULATION, BONDED BASE PLY, LIQUID APPLIED ROOF SYSTEM**  
 REFER TO NOTE 14 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 12 & 13)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Base Ply Treatment	LARS	
C-29	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-172.5
C-30	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer(s) base insulation	LRF-M	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
C-31	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
C-32	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-335.0
C-33	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-60.0
C-34	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA1, SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-127.5
C-35	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-172.5
C-36	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
C-37	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
C-38	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-335.0

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

System No.	Deck (Note 1)	Primer	Roof Cover (Note 13)		MDP (psf)
			Base Ply	LARS	
C-39	Structural concrete	HydroStop BarrierGuard Waterproofing followed by SureBond Primer	None	HydroStop PremiumCoat System	-610.0

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, LIQUID APPLIED ROOF SYSTEM**

System No.	Deck (Note 1)	LWC (Note 11)	Base Sheet			Roof Cover (Note 13)		MDP (psf)
			Type	Fasten	Spacing	Base Ply Treatment	LARS	
LWC-1.	Min. 22 ga. type B, Grade 33 vented steel or structural concrete	Cellular lightweight concrete, min. 300 psi, min. 2-inch thick. <i>Note: To qualify the LWIC under this assembly, a Drill-Tec Base Sheet Fastener (1.7) or Drill-Tec Base Sheet Fastener E (1.7) shall achieve an average withdrawal of 60 lbf when tested per TAS 105 or ANSI/SPRI FX-1</i>	GAFGLAS Stratavent Nailable Venting Base	Drill-Tec Base Sheet Fastener (1.7) or Drill-Tec Base Sheet Fastener E (1.7)	7-inch o.c. at 4-inch wide laps and 7-inch o.c. at two (2) equally spaced, staggered center rows	(Optional) HydroStop PremiumCoat Base Sheet Lap Treatment	HydroStop PremiumCoat System	-45.0

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION  
SYSTEM TYPE F: NON-INSULATED, LIQUID APPLIED ROOF SYSTEM**

System No.	Deck (Note 1)	LWC (Note 11)	Primer (Note 13)	Roof Cover (Note 13)	MDP (psf)
LWC-2.	Min. 22 ga. type B, Grade 33 vented steel	Mearlcrete, min. 300 psi, min. 2-inch thick	HydroStop BarrierGuard Waterproofing followed by SureBond Primer	HydroStop PremiumCoat System	-52.5
LWC-3.	Structural concrete	Cellular lightweight concrete, min. 210 psi, min. 2-inch thick. <i>Note: To qualify the LWIC under this assembly, a Drill-Tec Base Sheet Fastener (1.7) or Drill-Tec Base Sheet Fastener E (1.7) shall achieve an average withdrawal of 89 lbf when tested per ANSI/SPRI FX-1 or a Minimum Characteristic Resistance Force (MCRF) of 78 lbf when tested per TAS 105.</i>	HydroStop BarrierGuard Waterproofing followed by SureBond Primer	HydroStop PremiumCoat System	-502.5

**TABLE 5A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A: BONDED INSULATION, LIQUID APPLIED ROOF SYSTEM**

System No.	Substrate (Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 13)		MDP (psf)
		Type	Attach	Type	Attach	Joint Treatment	LARS	
R-1	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0
R-2	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-135.0
R-3	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 1.5-inch EnergyGuard RA Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-160.0
R-4	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
R-5	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
R-6	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	None	N/A	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-257.5
R-7	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 1.5-inch ACFoam IV	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-257.5
R-8	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0
R-9	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-135.0
R-10	Existing smooth-surface BUR over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer(s) base insulation	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-157.5
R-11	Existing smooth-surface BUR over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-157.5
R-12	Existing granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer(s) base insulation	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
R-13	Existing granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-225.0

**TABLE 5A: RECOVER APPLICATIONS**
**SYSTEM TYPE A: BONDED INSULATION, LIQUID APPLIED ROOF SYSTEM**

System No.	Substrate (Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 13)		MDP (psf)
		Type	Attach	Type	Attach	Joint Treatment	LARS	
R-14	Existing smooth-surface asphaltic roof cover or granule-surface BUR or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-75.0
R-15	Existing smooth-surface asphaltic roof cover	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-120.0
R-16	Existing smooth-surface asphaltic roof cover	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-120.0
R-17	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-222.5
R-18	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime	OB500	HydroStop PremiumCoat Insulation Joint Treatment	HydroStop PremiumCoat System	-225.0

**TABLE 5B: RECOVER APPLICATIONS**
**SYSTEM TYPE A: BONDED INSULATION, BONDED BASE PLY, LIQUID APPLIED ROOF SYSTEM**

System No.	Substrate (Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 12 & 13)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Base Ply Treatment	LARS	
R-19	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-60.0
R-20	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-CA1, SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-127.5
R-21	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	(Optional) Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-172.5
R-22	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer(s) base insulation	GAF 2-Part	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
R-23	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	(Optional) Min. 1-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
R-24	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-257.5

**TABLE 5B: RECOVER APPLICATIONS**  
**SYSTEM TYPE A: BONDED INSULATION, BONDED BASE PLY, LIQUID APPLIED ROOF SYSTEM**

System No.	Substrate (Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 12 & 13)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Base Ply Treatment	LARS	
R-25	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer(s) base insulation	LRF-M	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-60.0
R-26	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Primer	LRF-M	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-127.5
R-27	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-172.5
R-28	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer(s) base insulation	LRF-M	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
R-29	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
R-30	Existing smooth- or granule-surface BUR or smooth- or granule-surface modified bitumen over concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-225.0
R-31	Existing smooth-surface asphaltic roof cover or granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-60.0
R-32	Existing smooth-surface asphaltic roof cover	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA1, SBS-CA2, SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-120.0
R-33	Existing smooth-surface asphaltic roof cover	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-120.0
R-34	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500.	Min. 0.25-inch Dens Deck Prime	OB500	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-127.5
R-35	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA1	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-172.5

**TABLE 5B: RECOVER APPLICATIONS**
**SYSTEM TYPE A: BONDED INSULATION, BONDED BASE PLY, LIQUID APPLIED ROOF SYSTEM**

System No.	Substrate (Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 12 & 13)			MDP (psf)
		Type	Attach	Type	Attach	Base Ply	Base Ply Treatment	LARS	
R-36	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer(s) base insulation	OB500	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
R-37	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA2	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-222.5
R-38	Existing granule-surface BUR or granule-surface modified bitumen over concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-TA	(Optional) HydroStop PremiumCoat Base Ply Lap Treatment	HydroStop PremiumCoat System	-225.0

**TABLE 5C: RECOVER APPLICATIONS**
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 10)	Primer	Roof Cover (Note 13)	MDP (psf)
R-39	Existing EPDM single ply over steel or concrete deck	Adhere-It II Primer or CleanAct Primer	HydroStop PremiumCoat System	-45.0
R-40	Existing smooth- or granule-surface BUR or SBS modified bitumen or granule-surface APP modified bitumen over steel or concrete deck	(Optional) HydroStop BarrierGuard Waterproofing at 0.5 gal/square.	HydroStop PremiumCoat System	-45.0
R-41	Existing spray polyurethane roof (SPUF) over concrete deck	None	HydroStop PremiumCoat System	-237.5