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**EVALUATION REPORT**

**GenFlex Roofing Systems, LLC**  
 250 West 96<sup>th</sup> Street, Suite 150  
 Indianapolis, IN 46260

**Evaluation Report 8063.06.06-R3**  
**FL6943-R3**  
**Date of Issuance: 06/19/2006**  
**Revision 3: 12/09/2011**

**SCOPE:**

This Evaluation Report is issued under Rule 9N-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 designed to comply with the 2010 Florida Building Code.

**DESCRIPTION: GenFlex TPO Single Ply Roof Systems**

**LABELING:** Each unit shall bear labeling 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. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

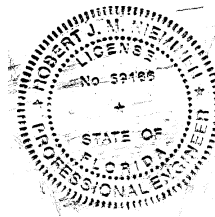
**ADVERTISEMENT:** The Evaluation Report number preceded by the words "Trinity | ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

**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 4, plus a 21-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 12/09/2011. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

**CERTIFICATION OF INDEPENDENCE:**

1. Exterior Research & Design, LLC. d/b/a Trinity | ERD 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. Exterior Research & Design, LLC. d/b/a Trinity | ERD 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.

**ROOFING SYSTEMS EVALUATION:**

**1. SCOPE:**

**Product Category:** Roofing  
**Sub-Category:** Single Ply Roof Systems  
**Compliance Statement:** Genflex TPO Single Ply Roof Systems, as produced by GenFlex Roofing Systems, LLC, have demonstrated compliance with the following sections of the 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	2004
1504.3.1	Wind	UL 1897	2004
1504.7	Impact	FM 4470	1992
1507.13.2	Physical Properties	ASTM D6878	2006
1523.6.2	System Performance	TAS 114	2011

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
FM Approvals (TST1867)	FM 4470	1B0A9.AM	05/09/1997
FM Approvals (TST1867)	FM 4470	1D0A3.AM	09/24/1997
FM Approvals (TST1867)	FM 4470	1D9A7.AM	01/31/1998
FM Approvals (TST1867)	FM 4470	1D9A0.AM	07/30/1998
FM Approvals (TST1867)	FM 4470	4B1A9.AM	09/09/1998
FM Approvals (TST1867)	FM 4470	3B9A2.AM	01/25/1999
FM Approvals (TST1867)	FM 4470	3003690	03/29/1999
FM Approvals (TST1867)	FM 4470	3000919	04/07/1999
FM Approvals (TST1867)	FM 4470	3002775	09/16/1999
FM Approvals (TST1867)	FM 4470	3005415	02/08/2000
FM Approvals (TST1867)	FM 4470	3002357	05/16/2000
FM Approvals (TST1867)	FM 4470	3009610	10/15/2001
FM Approvals (TST1867)	FM 4470	3005794	12/13/2001
FM Approvals (TST1867)	FM 4470	3007119	01/02/2002
FM Approvals (TST1867)	FM 4470	3009797	02/04/2002
FM Approvals (TST1867)	FM 4470	3012149	08/28/2002
FM Approvals (TST1867)	FM 4470	3015927	01/26/2004
FM Approvals (TST1867)	FM 4470/4474	3019052	01/28/2005
FM Approvals (TST1867)	FM 4470/4474	3023988	09/29/2005
FM Approvals (TST1867)	FM 4470/4474	3025484	05/31/2006
FM Approvals (TST1867)	FM 4470/4474	3026594	06/01/2006
FM Approvals (TST1867)	FM 4470/4474	3025659	06/02/2006
FM Approvals (TST1867)	FM 4470/4474	3027476	08/11/2006
FM Approvals (TST1867)	FM 4470/4474	3027946	10/18/2006
FM Approvals (TST1867)	FM 4470/4474	3031109	03/14/2008
FM Approvals (TST1867)	FM 4470/4474	3030650	05/16/2008
FM Approvals (TST1867)	FM 4470/4474	3033218	08/12/2008
FM Approvals (TST1867)	FM 4470/4474	3031944	08/12/2008
FM Approvals (TST1867)	FM 4470/4474	3036183	05/10/2010
FM Approvals (TST1867)	FM 4470/4474	3038404	05/18/2010
FM Approvals (TST1867)	FM 4470/4474	3037109	06/01/2010
IRT (TST7408)	TAS 114	01-012	04/26/2001
IRT (TST7408)	TAS 114	01-031/032/033/034	10/12/2001
Miami Dade (CER1592)	FM 4470 / TAS 114	Various NOAs	Current
MTI (TST 2508)	Physical Properties	EX30M3B	06/17/2004
UL (TST 1740)	UL 1897	01NK25823	07/02/2001
UL (QUA1743)	Quality Control	R9516, Service Confirmation	Exp. 03/30/2013

#### 4. PRODUCT DESCRIPTION:

The following roof covers are mechanically attached or fully adhered to Approved substrates using fasteners, stress plates and adhesives, as outlined in the Limitations / Conditions of Use herein.

- **Genflex TPO** membranes are nominal 45-mil (1.1mm) or 60-mil (1.5mm) thick, polyester scrim reinforced, single-ply roof membrane.
- **GenFlex TPO Plus** membranes are nominal 72-mil (1.8 mm) or 80-mil (2.0-mm) thick, internally reinforced thermoplastic polyolefin roof covers.
- **GenFlex TPO Peel & Stick** membranes are nominal 45-mil (1.1 mm) or 60-mil (1.5-mm) thick, internally reinforced thermoplastic (TPO) roof covers with a self-adhering backing.

#### 5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in HVHZ jurisdictions.
- 5.2 Refer to a current Roofing Materials Directory for fire ratings of this product.
- 5.3 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.
- 5.4 Unless otherwise noted in Appendix 1, roof decking and its attachment shall be specified and installed to meet project design criteria to the satisfaction of the AHJ.
- 5.5 For recover installations, the existing roof shall be examined in accordance with FBC 1510.
- 5.6 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 RAS 117 and FM LPDS 1-29. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements.
- 5.7 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems
- 5.8 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 TAS 105 or ANSI/SPRI FX-1.
- 5.9 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 ASTM E907, FM LPDS 1-52, ANSI/SPRI IA-1 or TAS 124 shall be conducted on mock-ups of the proposed new roof assembly.
- 5.10 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 AHJ, as documented through field uplift testing in accordance with ASTM E907, FM LPDS 1-52 or TAS 124.
- 5.11 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 RAS 111, except the basic wind speed shall be determined from FBC Figure 1609.

5.12 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 9N-3.

**6. INSTALLATION:**

- 6.1 Genflex TPO Single Ply Roof Systems shall be installed in accordance with Genflex Roofing Systems, LLC 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. Refer to FBC 1609.1.5 for determination of design wind pressures.
- 6.3 For mechanically fastened membrane systems (Type D) over profiled steel deck, membrane shall be installed running perpendicular to steel deck flutes.

**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 manufacturing facilities covered by F.A.C. Rule 9N-3 QA requirements

**9. QUALITY ASSURANCE ENTITY:**

Underwriters Laboratories – QUA1743; (414) 248-6409; Karen.buchmann@us.ul.com

***- THE 21-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), Recover	C	Mechanically Attached Insulation, Bonded Roof Cover	3
1B	Wood	New, Reroof (Tear-Off), Recover	D	Insulated, Mechanically Attached Roof Cover	4
2A	Steel or Conc.	New, Reroof (Tear-Off), Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	5
2B	Steel or Conc.	New, Reroof (Tear-Off), Recover	C	Mechanically Attached Insulation, Bonded Roof Cover	6-7
2C-1	Steel or Conc.	New, Reroof (Tear-Off), Recover	D	Insulated, Mechanically Attached Roof Cover (Stress Plates)	8-10
2C-2	Steel or Conc.	New, Reroof (Tear-Off), Recover	D	Insulated, Mechanically Attached Roof Cover (Battens)	11-12
2C-3	Steel or Conc.	New, Reroof (Tear-Off), Recover	D	Insulated, Mechanically Attached Roof Cover (RMA Strips)	12
3A	Concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	13-14
4A	LWIC	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	15
4B	LWIC	New, Reroof (Tear Off)	F	Non-Insulated, Bonded Roof Cover	15
5A	CWF	New, Reroof (Tear Off)	A-1	Bonded Insulation, Bonded Roof Cover	16
5B	CWF	New, Reroof (Tear Off)	D	Insulated, Mechanically Attached Roof Cover	16
6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	17-18
6B	Gypsum	Reroof (Tear-Off)	D	Insulated, Mechanically Attached Roof Cover	18
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	19-20
7B	Steel	Recover	D	Insulation, Mechanically Attached Roof Cover (RMA Strips)	21

**The following notes apply to the systems outlined herein:**

- Roof decks shall be in accordance with FBC requirements to the satisfaction of the AHJ. Wind load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
  - Wood Deck: GenFast #12, #14 or #15(WH) Fasteners with GenFast Insulation Plates or GenFast AP Fasteners with GenFast 3" Round Insulation Fastening Plates.
  - Steel Deck: GenFast #12, #14 or #15(WH) Fasteners with GenFast Insulation Plates or GenFast AP Fasteners with GenFast 3" Round Insulation Fastening Plates. Minimum ¾-inch steel penetration, engage the top flute of the steel deck.
  - Concrete Deck: GenFast #14 or #15(WH) Fasteners with GenFast Insulation Plates or GenFast AP Fasteners or GenFast Concrete Drive Fasteners with GenFast 3" Round Insulation Fastening Plates. Minimum 1-inch embedment. Fasteners installed with a 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, fiberboard, perlite and/or gypsum-based insulation board that meets the QA requirements of F.A.C. Rule 9N-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC 2603.4.1 or 2603.6, when installed with the roof cover.
- Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for rigid insulation board for System Type D (mechanically attached membrane), whereby the membrane fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings.
- Preliminary insulation attachment for System Type D = Minimum four fasteners per 4 x 8 ft board or minimum two fasteners per 4 x 4 ft board.

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:
  - GenFlex One Step Insulation Adhesive (OSIA): Continuous ½ to ¾-inch beads, 12" o.c.
  - OlyBond 500 (OB-500): Continuous ¾ to 1-inch wide ribbons, 12-inch o.c. using PaceCart or SpotShot application devices.
  - 3M CR-20: Continuous 2½ to 3½-inch ribbons, 12" o.c.
  - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to-layer a distance of one-half the ribbon spacing.*
  - *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.*
7. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered ISO 95+ GL 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:
  - GenFlex One Step Insulation Adhesive (OSIA): MDP -157.5 psf (Min. 0.5-inch thick)
  - OlyBond 500 (OB-500): MDP -187.5 psf (Min. 0.5-inch thick)
  - 3M CR-20: MDP -117.5 psf (Min. 1.0-inch thick)
8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
9. 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 RAS 117 and FM LPDS 1-29. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements.
10. 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.
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 TAS 105 or ANSI/SPRI FX-1.
12. 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 AHJ, as documented through field uplift testing in accordance with ASTM E907, FM LPDS 1-52, ANSI/SPRI IA-1 or TAS 124.
13. For System Type D, steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
14. For membrane attachment using batten-strips, batten-strip end laps shall be spliced with sufficient dimension to allow for minimum 2-fasteners at each batten-strip lap.
15. For adhered membrane systems, side laps shall be minimum 3-inch wide sealed with min. 1.5-inch heat weld. Membrane adhesive application rates are as follows:
  - GenFlex TPO Bonding Adhesive (TPO BA) applied to both the substrate and the bottom side of the roof cover for a combined rate of 60-65 ft<sup>2</sup>/gal (1.5m<sup>2</sup>/L).
  - GenFlex All Purpose Water Based Bonding Adhesive (AP WBBA) applied to both the substrate and the bottom side of the roof cover for a combined rate of 120 ft<sup>2</sup>/gal (3.0m<sup>2</sup>/L).
16. For self-adhered membrane systems, side laps shall be minimum 3-inch wide sealed as follows:
  - GenFlex TPO Peel & Stick HW: Lap sealed with min. 1.5-inch heat weld or primed with GenFlex Clear Primer and sealed with GenFlex 3" White TPO Seam Tape.
  - GenFlex TPO Peel & Stick SA: Laps primed with GenFlex Clear Primer and hand rolled.
17. **"MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind pressures.**

**TABLE 1A: WOOD DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer				Roof Cover / Adhesive	MDP (psf)
			Type	Fasteners	Attach	Primer		
W-1	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch GenFlex HD ISO	GenFast Insulation Plates with GenFast #12	1 per 2.7 ft <sup>2</sup>	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-37.5*
W-2	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 1.0-inch GenFlex ISO	GenFast 3" Round Insulation Plates with GenFast AP	1 per 2.0 ft <sup>2</sup>	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-37.5*
W-3	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck	See Note 2	1 per 2.1 ft <sup>2</sup>	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-37.5*
W-4	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 1-inch Firestone FiberTop C, E or S or GP High Density Roof Fiberboard	See Note 2	1 per 2 ft <sup>2</sup>	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-45.0*
W-5	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 1.0-inch GenFlex ISO	GenFast Insulation Plates with GenFast #12	1 per 2.0 ft <sup>2</sup>	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-45.0*
W-6	Min. 23/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch GenFlex HD ISO	GenFast 3" Round Insulation Plates with GenFast AP	1 per 2.7 ft <sup>2</sup>	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-45.0*
W-7	Min. 19/32" plywood or wood plank at max. 24" spans attached using 8d ring shank nails spaced 6" o.c.	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	GenFast 3 in. Square Steel Recessed Insulation Plates with GenFast #14 Fasteners	1 per 1.78 ft <sup>2</sup>	GenFlex Clear Primer	GenFlex TPO Peel & Stick	-60.0

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attach	
W-8	Min. 19/32" plywood or wood plank at max. 24" spans attached using 8d ring shank nails spaced 6" o.c.	One or more layers, any combination	Prelim. attached	GenFlex TPO or TPO Plus	GenFast #15 Fasteners with GenFast WH Barb Plates or #15 Roofgrip with OMG 2-3/8" Eyehook Seam Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-37.5
W-9	Min. 19/32" plywood or wood plank at max. 24" spans attached using 8d ring shank nails spaced 6" o.c.	One or more layers, any combination	Prelim. attached	GenFlex TPO or TPO Plus	GenFast #15 Washer Head (WH) with GenFast Polymer Batten Strip	Topside attachment: 6-inch o.c. in rows spaced 90-inch o.c. Rows covered with 5-inch strips of GenFlex TPO, with 1.5-inch heat weld on each side	-37.5
W-10	Min. 19/32" plywood or wood plank at max. 24" spans attached using 8d ring shank nails spaced 6" o.c.	One or more layers, any combination	Prelim. attached	GenFlex TPO or TPO Plus	GenFast #14 or #15 Fasteners with GenFast WH Barb Plates or #14 Roofgrip with OMG 2-3/8" Eyehook Seam Plates	6-inch o.c. within 6-inch wide laps spaced 69-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0



**TABLE 2A: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer			Roof Cover / Adhesive	MDP (psf)
		Type	Fastener	Attach	Type	Attach	Primer		
<b>GENFLEX TPO OR TPO PLUS FULLY BONDED WITH ADHESIVE:</b>									
SC-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.4-inch GenFlex ISO	See Note 2	1 per 2 ft <sup>2</sup>	(Optional) Min. 0.25-inch DensDeck, DensDeck Prime	OlyBond Classic, full coverage	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-45.0*
<b>GENFLEX TPO PEEL &amp; STICK, SELF-ADHERED:</b>									
SC-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch GenFlex ISO	See Note 2; <i>GenFast AP (steel deck) or GenFast Concrete Drive (concrete deck) only</i>	1 per 2.7 ft <sup>2</sup>	Min. 1.5-inch GenFlex ISO or Min. 0.5-inch Tapered GenFlex ISO	GenFlex OSIA	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-30.0*
SC-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 2.0-inch GenFlex ISO	See Note 2; <i>GenFast AP (steel deck) or GenFast Concrete Drive (concrete deck) only</i>	1 per 4 ft <sup>2</sup>	Min. 1.5-inch GenFlex ISO or Min. 0.5-inch Tapered GenFlex ISO	GenFlex OSIA	(Optional) GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-37.5*
SC-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 0.5-inch DensDeck or DensDeck Prime	See Note 2; <i>GenFast AP (steel deck) or GenFast Concrete Drive (concrete deck) only</i>	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch GenFlex ISO followed by min. 0.25-inch DensDeck Prime	GenFlex OSIA	None	GenFlex TPO Peel & Stick	-37.5*
SC-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 0.5-inch DensDeck or DensDeck Prime	See Note 2; <i>GenFast AP (steel deck) or GenFast Concrete Drive (concrete deck) only</i>	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch GenFlex ISO followed by min. 1.0-inch GenFlex ISO, min. 0.5-inch GenFlex HD ISO, FiberTop C, E or S or GP High Density Roof Fiberboard or 0.25-inch DensDeck Prime	GenFlex OSIA	GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	-45.0*
SC-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch GenFlex ISO	See Note 2; <i>GenFast AP (steel deck) or GenFast Concrete Drive (concrete deck) only</i>	1 per 1.6 ft <sup>2</sup>	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	GenFlex Clear Primer	GenFlex TPO Peel & Stick	-75.0

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

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer				Roof Cover / Adhesive	MDP (psf)
			Type	Fasteners	Attach	Primer		
<b>GENFLEX TPO or TPO PLUS FULLY BONDED WITH ADHESIVE:</b>								
SC-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 4 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-37.5*
SC-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch GenFlex HD ISO	See Note 2	1 per 2.7 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-37.5*
SC-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch GenFlex ISO	See Note 2	1 per 2 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-45.0*
SC-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch GenFlex ISO	See Note 2	1 per 2.7 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex APWBBA	-45.0*
SC-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2	1 per 4 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-45.0*
SC-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2	1 per 4 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex APWBBA	-45.0*
SC-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	One or more layers, any combination, loose laid	Min. ¼-inch DensDeck or DensDeck Prime	See Note 2	1 per 1.78 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-45.0*
SC-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch GenFlex ISO	See Note 2	1 per 1.78 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-60.0
SC-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2	1 per 1.6 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-75.0
SC-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2	1 per 1 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-112.5
SC-17	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2	1 per 1 ft <sup>2</sup>	None	GenFlex TPO or TPO Plus / GenFlex TPO BA	-127.5

**TABLE 2B (continued): STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer				Roof Cover / Adhesive	MDP (psf)
			Type	Fasteners	Attach	Primer		
<b>GENFLEX TPO PEEL &amp; STICK, SELF-ADHERED:</b>								
SC-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch GenFlex HD ISO	GenFast Insulation Plates with GenFast #12 (steel only) or GenFast #15(WH)	1 per 2.7 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-37.5*
SC-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.0-inch GenFlex ISO	GenFast 3" Round Insulation Plates with GenFast AP (steel only) or GenFast Concrete Drive (concrete only)	1 per 2.0 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-37.5*
SC-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck	See Note 2	1 per 2.1 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-37.5*
SC-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch GenFlex HD ISO	GenFast 3" Round Insulation Plates with GenFast AP (steel only) or GenFast Concrete Drive (concrete only)	1 per 2.7 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-45.0*
SC-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.0-inch GenFlex ISO	GenFast Insulation Plates with GenFast #12 (steel only) or GenFast #15(WH)	1 per 2.0 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-45.0*
SC-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch GenFlex ISO	See Note 2	1 per 2.7 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-45.0*
SC-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch Firestone FiberTop C, E or S or GP High Density Roof Fiberboard	See Note 2	1 per 2 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-45.0*
SC-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2	1 per 1.8 ft <sup>2</sup>	None	GenFlex TPO Peel & Stick	-60.0
SC-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch GenFlex ISO	See Note 2; <i>GenFast AP (steel deck) or GenFast Concrete Drive (concrete deck) only</i>	1 per 1.33 ft <sup>2</sup>	GenFlex Clear Primer	GenFlex TPO Peel & Stick	-82.5
SC-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2; <i>GenFast AP (steel deck) or GenFast Concrete Drive (concrete deck) only</i>	1 per 1.6 ft <sup>2</sup>	GenFlex Clear Primer	GenFlex TPO Peel & Stick	-82.5
SC-28	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch GenFlex ISO	See Note 2	1 per 1 ft <sup>2</sup>	GenFlex Clear Primer	GenFlex TPO Peel & Stick	-112.5

**TABLE 2C-1: STEEL or CONCRETE DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER (STRESS PLATES)**

System No.	Roof Deck	Insulation Layer		Roof Cover						MDP (psf)
		Type	Attach	Membrane	Fasteners	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-29	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates	18-inch o.c.	5-inch	70-inch o.c.	2.0-inch outside	-30.0
SC-30	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates or GenFlex #15 XHD with GenFlex 2-3/8" Barbed Seam Plates	18-inch o.c.	6-inch	90-inch o.c.	1.75-inch outside	-30.0
SC-31	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates or GenFlex #15 XHD with GenFlex 2-3/8" Barbed Seam Plates	12-inch o.c.	6-inch	114-inch o.c.	1.75-inch outside	-30.0
SC-32	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #16 Max Fastener with GenFast 3" Max Barbed Seam Plates	18-inch o.c.	6-inch	114-inch o.c.	1.75-inch outside	-30.0
SC-33	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFlex #16 SXHD with GenFlex 2-3/8" SXHD Barbed Seam Plates	12-inch o.c.	6-inch	144-inch o.c.	1.75-inch outside	-30.0
SC-34	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #16 Max Fastener with GenFast 3" Max Barbed Seam Plates	12-inch o.c.	6-inch	144-inch o.c.	1.75-inch outside	-30.0
SC-35	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates	12-inch o.c.	6-inch	142-inch o.c.	1.5-inch outside	-30.0
SC-36	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates or GenFlex #15 XHD with GenFlex 2-3/8" Barbed Seam Plates	12-inch o.c.	5-inch	70.5-inch o.c.	1.75-inch outside	-37.5
SC-37	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates or GenFlex #15 XHD with GenFlex 2-3/8" Barbed Seam Plates	12-inch o.c.	6-inch	114-inch o.c.	1.75-inch outside	-37.5

**TABLE 2C-1: STEEL or CONCRETE DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER (STRESS PLATES)**

System No.	Roof Deck	Insulation Layer		Roof Cover						MDP (psf)
		Type	Attach	Membrane	Fasteners	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates or GenFast (WH) 2-3/8 in. Seam Plates	12-inch o.c.	6-inch	114-inch o.c.	1.5-inch outside	-37.5
SC-39	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates or GenFlex #15 XHD with GenFlex 2-3/8" Barbed Seam Plates	12-inch o.c.	6-inch	90-inch o.c.	1.75-inch outside	-45.0
SC-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #16 Max Fastener with GenFast 3" Max Barbed Seam Plates	12-inch o.c.	6-inch	90-inch o.c.	1.75-inch outside	-45.0
SC-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) Barbed Plates or GenFlex #15 XHD with GenFlex 2-3/8" Barbed Seam Plates	6-inch o.c.	6-inch	114-inch o.c.	1.75-inch outside	-45.0
SC-42	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #16 Max Fastener with GenFast 3" Max Barbed Seam Plates	12-inch o.c.	6-inch	114-inch o.c.	1.75-inch outside	-45.0
SC-43	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #16 Max Fastener with GenFast 3" Max Barbed Seam Plates or GenFlex #16 SXHD with GenFlex 2-3/8" SXHD Barbed Seam Plates	6-inch o.c.	6-inch	144-inch o.c.	1.75-inch outside	-45.0
SC-44	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	ITW Buildex #15 Roofgrip with GenFast (WH) 2-3/8" Seam Plates	6-inch o.c.	6-inch	144-inch o.c.	1.75-inch outside	-45.0
SC-45	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO Plus	GenFast #16 Max with GenFast 3" Max Seam Plates	12-inch o.c.	6-inch	69.75-inch	1.5-inch outside	-52.5
SC-46	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast (WH) 2-3/8" Seam Plates	6-inch o.c.	6-inch	90-inch o.c.	1.5-inch outside	-60.0
SC-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #16 Max Fasteners with GenFast 3 in. Max Seam Plates	6-inch o.c.	6-inch	90-inch o.c.	1.5-inch outside	-67.5

**TABLE 2C-1: STEEL or CONCRETE DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER (STRESS PLATES)**

System No.	Roof Deck	Insulation Layer		Roof Cover						MDP (psf)
		Type	Attach	Membrane	Fasteners	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-48	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO Plus	GenFast #15 (WH) with GenFast (WH) 2-3/8" Seam Plates	6-inch o.c.	6-inch	90-inch o.c.	1.5-inch outside	-75.0
SC-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO Plus	GenFast #15 (WH) with GenFast 2-3/8" (WH) Seam Plates	6-inch o.c.	6-inch	69-inch o.c.	1.5-inch outside	-82.5
SC-50	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO Plus	GenFast #16 Max Fasteners with GenFast 3 in. Max Seam Plates	6-inch o.c.	6-inch	90-inch o.c.	1.5-inch outside	-82.5
SC-51	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast 2-3/8" (WH) Seam Plates	6-inch o.c.	6-inch	68-inch o.c.	5-inch encapsulating weld	-90.0
SC-52	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	<b>Lap Row:</b> GenFast #15 (WH) with GenFast 2-3/8" (WH) Seam Plates <b>Intermediate Row Between Laps:</b> GenFast #15 (WH) with 3/4-inch Polymer Batten Strip	<b>Lap Row:</b> 6-inch o.c. <b>Intermediate Row:</b> 6-inch o.c.	6-inch	90-inch o.c.	<b>Lap:</b> 1.5-inch outside <b>Intermediate Row:</b> 5-inch coverstrip with 1.5-inch weld on each side of bar	-105.0

**TABLE 2C-2: STEEL or CONCRETE DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER (BATTENS)**

System No.	Roof Deck	Insulation Layer		Roof Cover						MDP (psf)
		Type	Attach	Membrane	Fasteners	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-53	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with 1-inch Polymer Batten Strip	12-inch o.c.	4.5-inch	144-inch o.c.	1.5-inch dual weld	-45.0
SC-54	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #16 Max Fastener with 1-inch Polymer Batten Strip	6-inch o.c.	4.5-inch	115.5-inch o.c.	1.5-inch dual weld	-52.5
SC-55	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with Polymer Batten Strip	6-inch o.c.	5-inch	144-inch o.c.	1-inch inside and 1.5-inch outside	-52.5
SC-56	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFlex #15 XHD with GenFlex Bar Anchors	6-inch o.c.	4.5-inch	142.5-inch o.c.	1-inch inside and 1-inch outside	-52.5
SC-57	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFlex #15 XHD with GenFlex Bar Anchors	12-inch o.c.	4.5-inch	70¼-inch o.c.	0.75-inch inside and 1-inch outside	-52.5
SC-58	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with ¾-inch Polymer Batten Strip	6-inch o.c.	6-inch	114-inch o.c.	1.0-inch inside and 1.25-inch outside	-60.0
SC-59	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 XHD with GenFlex Bar Anchors	6-inch o.c.	4.5-inch	142.5-inch o.c.	1-inch inside and 1-inch outside	-60.0
SC-60	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with 1-inch Polymer Batten Strip	6-inch o.c.	4.5-inch	144-inch o.c.	1.5-inch dual weld	-67.5
SC-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO Plus	GenFast #15 (WH) with ¾-inch Polymer Batten Strip	6-inch o.c.	6-inch	69-inch o.c.	1.0-inch inside and 1.5-inch outside	-75.0
SC-62	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with 1-inch Polymer Batten Strip	6-inch o.c.	4-inch	144-inch o.c.	1.25-inch dual weld	-75.0
SC-63	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 XHD with GenFlex Bar Anchors	6-inch o.c.	4.5-inch	70¼-inch o.c.	0.75-inch inside and 1-inch outside	-75.0

**TABLE 2C-2: STEEL or CONCRETE DECKS – NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER (BATTENS)**

System No.	Roof Deck	Insulation Layer		Roof Cover						MDP (psf)
		Type	Attach	Membrane	Fasteners	Fastener Spacing	Lap Width	Lap Spacing	Seam Weld	
SC-64	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with ¾-inch Polymer Batten Strip	6-inch o.c.	4.5-inch	69.5-inch o.c.	1.0-inch inside and 1.25-inch outside	-90.0
SC-65	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with 1-inch Polymer Batten Strip	6-inch o.c.	5-inch	144-inch o.c.	1.5-inch dual weld	-90.0
SC-66	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with 1-inch GenFast Polymer Batten Strip	6-inch o.c.	4.5-inch	69.5-inch o.c.	1.0-inch inside and 1.25-inch outside	-97.5

**TABLE 2C-3: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER (RMA STRIPS)**

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attachment	Membrane	Fasteners	Attachment	
SC-67	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast Polymer Batten Strip	GenFlex TPO Peel & Stick RMA Strips are applied over the insulation spaced 120-inch o.c. The batten is centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming the membrane underside with GenFlex Clear Primer at the strip location, then rolling into place with a hand roller. The min. 2-inch side laps are sealed with a min. 1.5-inch outside heat weld	-52.5



**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer			Roof Cover		MDP (psf)
		Type	Attach	Type	Attach	Primer	Membrane	Adhesive	
<b>GENFLEX TPO OR TPO PLUS FULLY BONDED WITH ADHESIVE:</b>									
C-1.	Min. 2,500 psi concrete	One or more layers GenFlex ISO	Hot asphalt	(Optional) Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch GenFlex HD Fiberboard	Hot asphalt	None	GenFlex TPO or TPO Plus	GenFlex AP WBBA	-187.5
C-2.	Min. 2,500 psi concrete	One or more layers GenFlex ISO	Hot asphalt	(Optional) Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch GenFlex HD Fiberboard	Hot asphalt	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
C-3.	Min. 2,500 psi concrete	(Optional) One or more layers GenFlex ISO	Hot asphalt	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch GenFlex HD Fiberboard	Hot asphalt	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
C-4.	Min. 2,500 psi concrete	One or more layers GenFlex ISO	GenFlex OSIA	(Optional) Min. 0.5-inch GenFlex HD Fiberboard	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-127.5
C-5.	Min. 2,500 psi concrete	(Optional) One or more layers GenFlex ISO	GenFlex OSIA	Min. 0.5-inch GenFlex HD Fiberboard	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-127.5
C-6.	Min. 2,500 psi concrete	Min. 1.0-inch GenFlex Extruded, GenFlex Extruded Plus	GenFlex OSIA	Min. 0.5-inch GenFlex HD Fiberboard	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA or GenFlex AP WBBA	-150.0
C-7.	Min. 2,500 psi concrete	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 1.0-inch GenFlex ISO	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-157.5
C-8.	Min. 2,500 psi concrete	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.5-inch GenFlex HD ISO	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
C-9.	Min. 2,500 psi concrete	One or more layers GenFlex ISO	GenFlex OSIA	(Optional) Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA or GenFlex AP WBBA	-232.5
C-10.	Min. 2,500 psi concrete	(Optional) One or more layers GenFlex ISO	GenFlex OSIA	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA or GenFlex AP WBBA	-232.5

**TABLE 3A: CONCRETE DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer			Roof Cover		MDP (psf)
		Type	Attach	Type	Attach	Primer	Membrane	Adhesive	
C-11.	Min. 2,500 psi concrete	Min. ½-inch GenFlex HD ISO	GenFlex OSIA	None	N/A	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-262.5
<b>GENFLEX TPO PEEL &amp; STICK, SELF-ADHERED:</b>									
C-12.	Min. 2,500 psi concrete	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Min. 0.5-inch Firestone FiberTop C, E or S or GP High Density Roof Fiberboard	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-52.5
C-13.	Min. 2,500 psi concrete	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layer of base insulation	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-67.5
C-14.	Min. 2,500 psi concrete	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. ¼-inch DensDeck	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-165.0
C-15.	Min. 2,500 psi concrete	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.5-inch GenFlex HD ISO	GenFlex OSIA	None	GenFlex TPO Peel & Stick	Self-adhered	-210.0
C-16.	Min. 2,500 psi concrete	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layer of base insulation	GenFlex OSIA	GenFlex Clear Primer	GenFlex TPO Peel & Stick	Self-adhered	-292.5

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)		Base Insulation Layer		Top Layer Insulation			Roof Cover		MDP (psf)
	Struct. Deck	LWIC	Type	Attach	Type	Attach	Primer	Membrane	Adhesive	
LWC-1	Concrete	Min. 200 psi Elastizell cellular LWC	Min. 1.5-inch GenFlex ISO	OB-500	(Optional) Additional layers of base insulation	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
LWC-2	Concrete	Min. 200 psi Elastizell cellular LWC	Min. 1.5-inch GenFlex ISO	OB-500	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
LWC-3	Concrete	Min. 200 psi, Celcore, Elastizell, or Mearlcrete cellular LWC	Min. 1.5-inch GenFlex ISO	OB-500	(Optional) Additional layers of base insulation	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
LWC-4	Concrete	Min. 200 psi, Celcore, Elastizell, or Mearlcrete cellular LWC	Min. 1.5-inch GenFlex ISO	OB-500	Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (See Note 1)		Roof Cover / Adhesive	MDP (psf)
	Struct. Deck	LWIC		
LWC-5	Concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell LWIC. Elastizell ZEL-ERATOR is applied over the final LWIC surface and allowed to dry to the touch prior to membrane application.	GenFlex TPO / GenFlex TPO BA	-235.0

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover / Adhesive	MDP (psf)
		Type	Attach	Type	Attach		
CWF-1	Tectum	Min. 1.5-inch ISO 95+ GL	OB-500	Min. 0.25-inch DensDeck or DensDeck Prime or Min. 1-inch HD Wood Fiberboard	OB-500	GenFlex TPO / GenFlex TPO BA or AP WBBA	-45.0
CWF-2	Tectum or Fibroplank	Min. 1.5-inch ISO 95+ GL	TITASET	(Optional) Min. 0.25-inch DensDeck, DensDeck Prime	TITASET	GenFlex TPO / GenFlex TPO BA or AP WBBA	-52.5

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attach	
CWF-3	Tectum or Fibroplank	One or more layers, any combination	Prelim. attached	GenFlex TPO	OMG N.T.B. Magnum with 2 in. N.T.B. Metal Barbed Plates (minimum 2-inch embedment)	9-inch o.c. within 4.5-inch wide laps spaced 57-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-30.0
CWF-4	Tectum or Fibroplank	One or more layers, any combination	Prelim. attached	GenFlex TPO	OMG N.T.B. Magnum with 2 in. N.T.B. Metal Barbed Plates (minimum 2-inch embedment)	6-inch o.c. within 4.5-inch wide laps spaced 57-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0

**TABLE 6A: GYPSUM DECKS - REROOF (Tear-Off)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer			Roof Cover		MDP (psf)
		Type	Attach	Type	Attach	Primer	Membrane	Adhesive	
<b>GENFLEX TPO OR TPO PLUS FULLY BONDED WITH ADHESIVE:</b>									
G-1.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch GenFlex ISO, min. 1.0 inch Foamular 250 or min. 2.0-inch thick, min. 1.25 pcf ASTM C578 expanded polystyrene	OB-500	Min. 0.5-inch Structodeck HD Fiberboard, min. 0.25-inch DensDeck, DensDeck Prime	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-112.5
G-2.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	OB-500	(Optional) Additional layers(s) of base insulation	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-112.5
G-3.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.5-inch Structodeck HD Fiberboard	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-127.5
G-4.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layers(s) of base insulation	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-150.0
G-5.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 1-inch GenFlex ISO	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-157.5
G-6.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.25-inch DensDeck Prime	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-127.5
G-7.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.5-inch GenFlex HD ISO	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
G-8.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	TITASET	(Optional) Additional layers(s) of base insulation	TITASET	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-150.0
G-9.	Existing poured gypsum or gypsum plank	Min. 1.5-inch GenFlex ISO	TITASET	Min. 0.25-inch DensDeck, DensDeck Prime, min. 0.5-inch Structodeck HD Fiberboard	TITASET	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
<b>GENFLEX TPO PEEL &amp; STICK, SELF-ADHERED:</b>									
G-10.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Min. 0.5-inch Firestone FiberTop C, E or S or GP High Density Roof Fiberboard	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-52.5
G-11.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layer of base insulation	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-67.5

**TABLE 6A: GYPSUM DECKS - REROOF (Tear-Off)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer			Roof Cover		MDP (psf)
		Type	Attach	Type	Attach	Primer	Membrane	Adhesive	
G-12.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. ¼-inch DensDeck	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-165.0
G-13.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.5-inch GenFlex HD ISO	GenFlex OSIA	None	GenFlex TPO Peel & Stick	Self-adhered	-202.5
G-14.	Existing poured gypsum or gypsum plank	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layer of base insulation	GenFlex OSIA	GenFlex Clear Primer	GenFlex TPO Peel & Stick	Self-adhered	-202.5

**TABLE 6B: GYPSUM DECKS – REROOF (Tear Off)**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attach	
G-15.	Existing poured gypsum or gypsum plank	One or more layers, any combination	Prelim. attached	GenFlex TPO	OMG N.T.B. Magnum with 2 in. N.T.B. Metal Barbed Plates (minimum 2-inch embedment)	9-inch o.c. within 4.5-inch wide laps spaced 57-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-30.0
G-16.	Existing poured gypsum or gypsum plank	One or more layers, any combination	Prelim. attached	GenFlex TPO	OMG N.T.B. Magnum with 2 in. N.T.B. Metal Barbed Plates (minimum 2-inch embedment)	6-inch o.c. within 4.5-inch wide laps spaced 57-inch o.c. Laps sealed with 1.5-inch heat weld outside lap	-45.0

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

System No.	Substrate (See Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer			Roof Cover		MDP (psf)
		Type	Attach	Type	Attach	Primer	Membrane	Adhesive	
<b>GENFLEX TPO OR TPO PLUS FULLY BONDED WITH ADHESIVE:</b>									
R-1.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	Hot asphalt	(Optional) Additional layers(s) of base insulation	Hot asphalt	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-150.0
R-2.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	Hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime, min. 0.5-inch Structodek HD Fiberboard	Hot asphalt	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
R-3.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	OB-500	(Optional) Additional layers(s) of base insulation	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-120.0
R-4.	Existing asphaltic BUR or mineral surface cap	(Optional) Min. 1.5-inch ISO 95+ GL, min. 2.0-inch thick, min. 1.25 pcf ASTM C578 expanded polystyrene or min. 1.0-inch Foamular 250	OB-500	Min. 0.5-inch Structodek HD Fiberboard, min. 0.25-inch DensDeck, DensDeck Prime	OB-500	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-120.0
R-5.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.5-inch Structodek HD Fiberboard	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-127.5
R-6.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layers(s) of base insulation	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-150.0
R-7.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 1-inch ISO 95+ GL	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-157.5
R-8.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	GenFlex OSIA	Min. 0.25-inch DensDeck Prime	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-157.5
R-9.	Existing asphaltic BUR or mineral surface cap	(Optional) Min. 1-inch GenFlex ISO	GenFlex OSIA	Min. 0.25-inch Firestone GenFlex HD ISO	GenFlex OSIA	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-157.5
R-10.	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch GenFlex ISO	TITASET	(Optional) Min. 0.25-inch DensDeck, DensDeck Prime	TITASET	None	GenFlex TPO or TPO Plus	GenFlex TPO BA	-202.5
<b>GENFLEX TPO PEEL &amp; STICK, SELF-ADHERED:</b>									
R-11.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Min. 0.5-inch Firestone FiberTop C, E or S or GP High Density Roof Fiberboard	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-52.5

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

System No.	Substrate (See Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer			Roof Cover		MDP (psf)
		Type	Attach	Type	Attach	Primer	Membrane	Adhesive	
R-12.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layer of base insulation	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-67.5
R-13.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	GenFlex OSIA	(Optional) Additional layer of base insulation, min. 0.25-inch DensDeck or min. 0.5-inch GenFlex HD ISO	GenFlex OSIA	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-157.5
R-14.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	OB-500	(Optional) Additional layer of base insulation	OB-500	GenPrime Primer or GenFlex Clear Primer	GenFlex TPO Peel & Stick	Self-adhered	-67.5
R-15.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	OB-500	Min. ¼-inch DensDeck	OB-500	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-120.0
R-16.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	TITESET	(Optional) GP High Density Roof Fiberboard	TITESET	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-52.5
R-17.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	TITESET	(Optional) Additional layer of base insulation	TITESET	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-67.5
R-18.	Existing asphaltic BUR or mineral surface cap	One or more layers min. 1.5-inch GenFlex ISO	TITESET	Min. ¼-inch DensDeck	TITESET	GenPrime Primer	GenFlex TPO Peel & Stick	Self-adhered	-165.0
R-19.	Existing sand-surfaced modified bitumen	One or more layers min. 1.5-inch GenFlex ISO	TITESET	(Optional) Additional layer of base insulation	TITESET	GenFlex Clear Primer	GenFlex TPO Peel & Stick	Self-adhered	-222.5
R-20.	Existing asphaltic BUR	One or more layers min. 1.5-inch GenFlex ISO	TITESET	(Optional) Additional layer of base insulation	TITESET	GenFlex Clear Primer	GenFlex TPO Peel & Stick	Self-adhered	-262.5
R-21.	Existing granule surfaced modified bitumen	One or more layers min. 1.5-inch GenFlex ISO	TITESET	(Optional) Additional layer of base insulation	TITESET	GenFlex Clear Primer	GenFlex TPO Peel & Stick	Self-adhered	-270.0



**TABLE 7B: STEEL - RECOVER**  
**SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED ROOF COVER (RMA STRIPS)**

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attachment	Membrane	Fasteners	Attachment	
R-22.	Existing standing seam or lap seam metal roof covers having min. ¼-inch to max. 3/16-inch thick steel purlins spaced max. 10 ft o.c.	One or more layers, any combination	Preliminarily attached	GenFlex TPO or TPO Plus	GenFast #15 (WH) with GenFast Polymer Batten Strip	GenFlex TPO Peel & Stick RMA Strips are applied over the insulation spaced 120-inch o.c. positioned over each steel purlin location. The batten is centered over each strip and fastened into the purlins 6-inch o.c. Roof cover adhered to each strip by first priming the membrane underside with GenFlex Clear Primer at the strip location, then rolling into place with a hand roller. The min. 2-inch side laps are sealed with a min. 1.5-inch outside heat weld	-52.5