

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION NOTICE OF ACCEPTANCE (NOA)

GenFlex Roofing Systems A Division of Firestone Building Products Company, LLC 200 4th Ave. South Nashville, TN 37201

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AH. may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Contro Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GenFlex EZ TPO EZ TPO Peel and Stick HW Single Ply Roof Systems over Steel Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA consists of pages 1 through 48.

The submitted documentation was reviewed by Hamley Pacheco, P.E.



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ROOFING SYSTEM APPROVAL

Category:RoofingSub-Category:Single Ply RoofingMaterial:EZ TPO Peel and Stick HWDeck Type:SteelMaximum Design Pressure:See specific assemblies

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

| | | <u>Test</u> | |
|--|--------------------|--|--|
| Product | Dimensions | <u>Specifications</u> | Product Description |
| EZ TPO Peel and Stick HWEZ TPO Peel and Stick HW | Various | TAS 131 | Reinforced TPO peel and stick membrane. |
| TPO Reinforced Curb Corner | Various | TAS 131 | TPO curb flashing |
| 18" Curb Flashing | Various | TAS 131 | TPO curb flashing |
| TPO Inside/Outside Corner | Various | TAS 131 | Molded TPO for corner flashing |
| TPO Large Pipe Flashing | Various | TAS 131 | TPO flashing for large round penetrations |
| TPO T-Joint Cover | Various | TAS 131 | TPO flashing for T-joints |
| TPO Penetration Kit | Various | TAS 131 | A penetration sealing kit for UltraPly TPO |
| TPO Walkway Pad | Various | TAS 131 | TPO walkway pad |
| TPO Coated Metal | Various | TAS 131 | TPO laminated to hot-dipped galvanized steel for flashing |
| TPO Premium Walkway Pad | Various | TAS 131 | TPO walkway pad |
| TPO Reinforced Split Pipe Boot | Various | TAS 131 | TPO flashing for round penetrations 1" to 9" in diameter |
| TPO 8" Reinforced Cover Strip | Various | TAS 131 | 8" wide 60 mil TPO cover strip |
| TPO Universal Pipe Boot | Various | TAS 131 | TPO flashing for round penetrations 1" to 6" in diameter |
| TPO Unsupported Flashing | Various | TAS 131 | Unreinforced TPO used for flashing |
| V-Force | 45" x 134" | ASTM D 5147, 1876,1970 and ASTM E 96, 2178 | A vapor retarder made of SBS modified bitumen adhesive laminated to a woven high density polyethylene top surface |
| I.S.O. Stick | 5 gal & 1500 ml | Proprietary | A dual component polyurethane adhesive. |
| I.S.O. Twin Pack Insulation Adhesive | 1500 ml | Proprietary | A dual component polyurethane adhesive. |



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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: Table 1

| | | Test | |
|----------------|------------------------------|-----------------------|---|
| Product | Dimensions | Specifications | Product Description |
| I.S.O. Fix II | 30 lbs. | Proprietary | A single component polyurethane adhesive. |
| I.S.O. Spray R | 15 gal pail & 55 gal drum | Proprietary | A two-part polyurethane adhesive |



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APPROVED INSULATIONS:

Product Name

TABLE 2Product Description

Manufacturer (With Current NOA)

| DensDeck Prime | Silicon treated gypsum | Georgia Pacific Gypsum LLC |
|--|---|----------------------------|
| SECUROCK Gypsum Fiber Roof Board | Rigid, gypsum-based board stock | USG Corp. |
| GenFlex ISO Insulation GenFlex ISO Insulation Tapered | Polyisocyanurate foam insulation | Firestone Bldg. Products |
| Coated Glass Facer Coated Glass Facer Tapered | Polyisocyanurate foam insulation | Firestone Bldg. Products |
| GenFlex HD ISO | Polyisocyanurate with a coated fiberglass facer | Firestone Bldg. Products |
| GenFlex HD Composite ISO | Polyisocyanurate with a coated fiberglass facer composite insulation. | Firestone Bldg. Products |

APPROVED FASTENERS/ADHESIVES:

| | | TABLE 3 | | |
|--------------------|-----------------------------------|---|-------------|------------------------------------|
| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
| 1. | Firestone Heavy-Duty | #15 Fastener for steel, Wood, concrete decks | N/A | Firestone Bldg. Products |
| 2. | Firestone All-Purpose Fastener | #14 Fastener for steel, Wood, concrete decks | N/A | Firestone Bldg. Products |
| 3. | Insulation Fastening Plate | Galvalume insulation plate | 3" diameter | Firestone Bldg. Products |

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EVIDENCE SUBMITTED:

| Test Agency | Test Identifier | Description | <u>Date</u> |
|--------------------------------|------------------------|---------------------|-------------|
| Underwriters Laboratories Inc. | 03NK34486 | UL 790 | 03/22/05 |
| Factory Mutual Research | 3029384 | 4470 | 06/07/10 |
| Corporation | 3033218 | 4470 | 08/12/08 |
| • | 3033921 | 4470 | 01/12/09 |
| | 3039133 | 4470 | 04/07/11 |
| | 3035017 | 4470 | 08/22/12 |
| | 3038191 | 4470 | 08/04/11 |
| | 3035560 | 4470 | 01/11/10 |
| | 3047398 | 4470 | 08/15/13 |
| | 3042666 | 4470 | 08/14/12 |
| | 3041939 | 4470 | 08/14/12 |
| | 3030227 | 4470 | 06/18/07 |
| | 797-05604-267 | 4470 | 06/07/10 |
| | 797-07680-267 | 4470 | 09/12/12 |
| | 797-08513-267 | 4470 | 07/15/13 |
| | 797-05830-267 | 4470 | 08/30/10 |
| | 797-10191-267 | 4470 | 01/09/15 |
| PRI Construction Materials | FBP-044-02-01, R10 | TAS 114 H, J | 06/01/17 |
| Technologies, LLC | FBP-063-02-01 | TAS 114 E | 07/10/12 |
| | FBP-085-02-01, Rev 1 | TAS 114 J | 10/04/12 |
| | FBP-149-02-01 | TAS 114 J | 12/18/13 |
| | FBP-154-02-02 | FM 4474 D | 12/18/13 |
| | FBP-162-02-01 | ASTM D 1970 | 05/15/14 |
| | FBP-165-02-01 | TAS 114 J | 04/28/14 |
| | FBP-166-02-01 | ASTM D 6163 | 05/15/14 |
| | FBP-175-02-01 | TAS 114 J | 04/28/14 |
| | FBP-206-02-01 | TAS 114 J | 02/02/15 |
| | FBP-208-02-01 | TAS 131 ASTM D 6878 | 04/06/15 |
| | FBP-222-02-03 | TAS 114 C | 04/01/15 |
| | FBP-225-02-01 | TAS 114 J | 03/19/15 |
| | FBP-233-02-03 | TAS 114 J | 06/01/15 |

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

| Engineer/Agency | <u>Identifier</u> | Assemblies | Date |
|------------------------------|-------------------|--------------------------------------|----------|
| Zachary R. Priest, P.E. | Signed/Sealed | B(2), B(4), C(3), C(4), C(9), C(13), | 10/03/16 |
| | Calculations | C(14), C(19), C(22), C(25) | |
| | | B(3), B(5) | 06/01/15 |
| | | C(10) | 09/20/17 |
| | | C(11) | 03/19/15 |
| | | C(16), C(20) | 10/16/14 |
| | | B(6), B(7), B(8), B(9), C(1), C(12), | 01/01/13 |
| FM Approval Deck Limitations | N/A | C(15), C(17), C(21), C(23), C(24), | |
| | 1N/A | C(26), C(27), C(28), C(29), C(30), | |
| | | C(31), C(32), C(33) | |



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APPROVED ASSEMBLIES

Membrane Type: Single Ply, TPO, Reinforced

Deck Type 2I: Steel Insulated

Deck Description: 18 - 22 ga. 33 ksi

System Type B(1): Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|--|----------------------|---------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:2 ft² |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation | | |
| Minimum 1.5" thick | N/A | N/A |
| Tapered GenFlex ISO Insulation | | |
| Minimum ¹ / ₂ " thick with a ¹ / ₄ " per ft. taper | N/A | N/A |

Note: Base layer shall be mechanically attached with fasteners and density described. All other layers of insulation shall be adhered to base insulations with I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ " to $\frac{3}{4}$ " wide ribbons spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Membrane:Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at
the 2" wide side laps.Maximum Design
Pressure:-45 psf. (See General Limitation #9)



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| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced maximum 6 ft. o.c. with #12-24 HWH self-drilling fasteners spaced maximum 6" o.c. and with side laps attached using $\frac{1}{4}$ "-14 HWH self-drilling fasteners spaced maximum 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(2): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

| One or more layers of any of the following insulations. | | |
|---|-----------------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:1.78 ft ² |

Note: Base layer shall be fastened with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--------------------------|-----------------------------------|-------------------------------------|
| GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | N/A | N/A |

Note: Top layer shall be adhered to base insulation with I.S.O. Spray R, I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -60 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(3): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

| One or more layers of any of the following insulations. | | |
|---|-----------------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 2" thick | 1 or 2 with 3 | 1:78 ft ² |
| Middle Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum ¹ /2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex HD ISO | | |
| Minimum ½" thick | N/A | N/A |

Note: Base layer shall be mechanically attached with fasteners and density described. All other layers of insulation shall be adhered to base insulations with I.S.O. Twin Pack Insulation Adhesive in continuous ¹/₂" to ³/₄" wide beads spaced 6"o.c. or I.S.O. Spray R, I.S.O. Fix II, or I.S.O. Stick applied in continuous ³/₄" to 1" wide ribbons spaced 6"o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -60 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " - 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(4): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| · | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | - |
| Minimum 2" thick | 1 or 2 with 3 | 1:1.78 ft ² |

Note: Base layer shall be fastened with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer | Insulation Fasteners | Fastener |
|----------------------------------|----------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| SECUROCK Gypsum Fiber Roof Board | | |
| Minimum ¹ /4" thick | N/A | N/A |

Note: Top layer shall be adhered to top insulation with I.S.O. Stick applied in continuous ³/₄" to 1" wide ribbons spaced 6" o.c. or I.S.O. Spray R applied in ³/₄" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -67.5 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(5): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

One or more layers of any of the following insulations. **Base Insulation Layer Insulation Fasteners** Fastener Density/ft² (Table 3) **GenFlex ISO Insulation, Coated Glass Facer** Minimum 2" thick 1:1.78 ft² 1 or 2 with 3 **Insulation Fasteners Top Insulation Layer** Fastener (Table 3) Density/ft² **GenFlex HD ISO** Minimum $\frac{1}{2}$ " thick N/A N/A

Note: Base layer shall be mechanically attached with fasteners and density described. All other layers of insulation shall be adhered to base insulations with I.S.O. Twin Pack Insulation Adhesive in continuous ¹/₂" to ³/₄" wide ribbons spaced 6" o.c. or I.S.O. Spray R, I.S.O. Fix II or I.S.O. Stick applied in continuous ³/₄" to 1" wide ribbons spaced 6" o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -67.5 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33 steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 12" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(6): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer Minimum 2" thick | 1 or 2 with 3 | 1:1 ft ² |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex HD ISO Minimum ½" thick | N/A | N/A |

Note: Base layer shall be mechanically attached with fasteners and density described. Top layer of insulation shall be adhered to base insulations with I.S.O. Twin Pack Insulation Adhesive in continuous $\frac{1}{2}$ " to $\frac{3}{4}$ " wide beads spaced 12" o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " to 1" wide ribbons spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 12" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(7): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

One or more layers of any of the following insulations.Insulation Fasteners
(Table 3)Fastener
Density/ft2GenFlex ISO Insulation
Minimum 2" thick1 or 2 with 31:1 ft2

Note: Base layer shall be fastened with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer | Insulation Fasteners | Fastener |
|------------------------|-----------------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation | | |
| Minimum 1" thick | N/A | N/A |

Note: Top layer shall be adhered to base insulation with I.S.O. Twin Pack Insulation Adhesive in continuous ¹/₂" to ³/₄" wide beads spaced 4" o.c., I.S.O. Fix II or I.S.O. Stick applied in continuous ³/₄" to 1" wide ribbons spaced 4" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33 steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(8): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

| One or more layers of any of the following insulations: | | |
|---|-----------------------------------|-------------------------------------|
| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| Coated Glass Facer | (Tuble 5) | Density/It |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:1 ft² |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| Coated Glass Facer | | |
| Minimum 1.5" thick | N/A | N/A |

Note: Base layer shall be mechanically attached with fasteners and density described. Top layer of insulation shall be adhered to base insulations with I.S.O. Twin Pack Insulation Adhesive in continuous $\frac{1}{2}$ " to $\frac{3}{4}$ " wide beads spaced 12" o.c. or I.S.O. Stick applied in continuous $\frac{3}{4}$ " to 1" wide ribbons spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------|--|
| Maximum Design | |
| Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 80 steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type B(9): | Base layer of insulation mechanically fastened, top layer adhered: membrane self-adhered. |

| One or more layers of any of the following insulation | ons. | |
|---|-----------------------------------|----------------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1" thick | N/A | N/A |
| Middle Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 2" thick | 1 or 2 with 3 | 1:1 ft ² |

Note: Base layer shall be loose laid. Middle layer shall be simultaneously fastened with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer | Insulation Fasteners | Fastener Density/ft ² |
|--------------------------------|-----------------------------|----------------------------------|
| | (Table 3) | |
| GenFlex HD ISO | | |
| Minimum ¹ /2" thick | N/A | N/A |

Note: Top layer shall be adhered to top insulation with I.S.O. Twin Pack Insulation Adhesive in continuous $\frac{1}{2}$ " to $\frac{3}{4}$ " wide ribbons spaced 4" o.c. or, I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " to 1" wide ribbons spaced 4" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



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| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(1): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | • |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex HD ISO, GenFlex ISO Insulation, Coated Glass | Facer | - |
| Minimum 1" thick | 1 or 2 with 3 | 1: 1.8 ft ² |
| DensDeck Prime, SECUROCK Gypsum-Fiber Boards Minimum ¼" thick | 1 or 2 with 3 | 1: 1.8 ft ² |
| GenFlex HD Composite ISO Minimum 1.5" thick | 1 or 2 with 3 | 1:1.8 ft ² |
| | | |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------------------|--|
| Maximum Design Pressure | -45 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | 18 - 22 ga. 33 ksi |
| System Type C(2): | Membrane self-adhered over mechanically fastened insulation. |

One or more layers of any of the following insulations.

| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
|--|----------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum ¹ / ₂ " thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | · · |
| Minimum 1.25" thick | 1 or 2 with 3 | 1:2.7ft ² |
| DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board | l | |
| Minimum ¹ /2" thick | 1 or 2 with 3 | 1:2.7 ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:2.7 ft ² |

Note: All layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Membrane:Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld
at the 2" wide side laps.Maximum Design

Pressure:-45 psf. (See General Limitation #9)



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(3): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations: Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | 20110109,10 |
| Minimum 1" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| SECUROCK Gypsum-Fiber Roof Board | | 2 |
| Minimum ¼" thick | 1 or 2 with 3 | 1:1.78 ft ² |
| Coated Glass Facer | | |
| Minimum 1" thick | 1 or 2 with 3 | 1:1.78 ft ² |
| GenFlex ISO Insulation, GenFlex HD Composite ISO Minimum 1.5" thick | 1 or 2 with 3 | 1:1.78 ft ² |
| DensDeck Prime Minimum ½" thick | 1 or 2 with 3 | 1:1.78 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -45 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(4): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations: | | | |
|---|----------------------|-------------------------|--|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener | |
| | (Table 3) | Density/ft ² | |
| GenFlex ISO Insulation, Coated Glass Facer | | - | |
| Minimum 1.5" thick | N/A | N/A | |
| Top Insulation Layer | Insulation Fasteners | Fastener | |
| | (Table 3) | Density/ft ² | |
| GenFlex ISO Insulation, Coated Glass Facer | | - | |
| Minimum 2" thick | 1 or 2 with 3 | 1:2.67 ft ² | |
| DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board | | | |
| Minimum ¹ /2" thick | 1 or 2 with 3 | 1:2.67 ft ² | |
| GenFlex HD Composite ISO | | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:2.67 ft ² | |
| | - // | | |

| Membrane | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -45 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | 18 - 22 ga. 33 ksi |
| System Type C(5): | Membrane self-adhered over mechanically fastened insulation. |

One or more layers of any of the following insulations.

| Base Insulation Layer | Insulation Fasteners | Fastener |
|--|----------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | - |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board | | - |
| Minimum ¹ /4" thick | 1 or 2 with 3 | 1:2.7 ft ² |
| Coated Glass Facer | | |
| Minimum 1" thick | 1 or 2 with 3 | 1:2.7 ft ² |
| GenFlex ISO Insulation, GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:2.7 ft ² |

Note: All layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Membrane:Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld
at the 2" wide side laps.Maximum Design

Pressure: -45 psf. (See General Limitation #9)



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | 18 - 22 ga. 33 ksi |
| System Type C(6): | Membrane self-adhered over mechanically fastened insulation. |

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board | | - |
| Minimum ¼" thick | 1 or 2 with 3 | 1:2.7 ft ² |
| Coated Glass Facer | | |
| Minimum 1" thick | 1 or 2 with 3 | 1:2.7 ft ² |
| GenFlex ISO Insulation, GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:2.7 ft ² |

Note: All layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Membrane:Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld
at the 2" wide side laps.Maximum Design
Pressure:-45 psf. (See General Limitation #9)



| Membrane Type: | Single Ply, TPO, Reinforced |
|--------------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | 18 - 22 ga. 33 ksi |
| System Type C(7): | Membrane self-adhered over mechanically fastened insulation. |

| (Optional) Vapor Retarder | Polyethylene Sheet 4-6 mil thio | ck Min. 2" wi with duct t | de laps sealed tape |
|--|----------------------------------|------------------------------|-------------------------------------|
| One or more layers of any of the | e following insulations. | | |
| Base Insulation Layer | Insula | tion Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex ISO Insulation, Tape | ered GenFlex ISO Insulation, Coa | ated Glass Facer, | Coated Glass |
| Facer Tapered | | | |
| Minimum 1.5" thick | | N/A | N/A |
| Top Insulation Layer | | tion Fasteners (Table 3) | Fastener Density/ft ² |
| SECUROCK Gypsum-Fiber l | | | 2 |
| Minimum ¹ /2" thick | | or 2 with 3 | 1:4 ft ² |
| GenFlex HD Composite ISO Minimum 1.5" thick | 10 | or 2 with 3 | 1: 4 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -45 psf. (See General Limitation #9) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|--------------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | 18 - 22 ga. 33 ksi |
| System Type C(8): | Membrane fully adhered over mechanically fastened insulation. |

| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation | | - |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex HD ISO | | |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1:2.7ft ² |
| GenFlex ISO Insulation, Coated Glass Facer Minimum 1" thick | 1 or 2 with 3 | 1:2.7ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Board Minimum ¼" | 1 or 2 with 3 | 1:2.7ft ² |
| GenFlex HD Composite ISO Minimum 1.5" thick | 1 or 2 with 3 | 1:2.7ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -45 psf. (See General Limitation #9) |

| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft. o.c. with #12-24 x $1-1/4$ " HWH self-drilling fasteners spaced 6" o.c. and with side laps attached using $\frac{1}{4}$ "-14 x $\frac{7}{8}$ " HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(9): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|--|-----------------------------------|-------------------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | - |
| Minimum ¹ / ₂ " thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| Coated Glass Facer | | - |
| Minimum 1" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| GenFlex ISO Insulation, GenFlex HD Composite ISO Minimum 1.5" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| SECUROCK Gypsum Fiber Roof Board, DensDeck Prime Minimum ½" thick | 1 or 2 with 3 | 1:1.6 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------|--|
| Maximum Design | 52.5 met (See Convert Limitation #7) |
| Pressure: | -52.5 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B Steel decking attached to Steel supports spaced 6 ft. o.c. with #12-24 x $1-1/4$ " HWH self-drilling fasteners spaced 6" o.c. and with side laps attached using $\frac{1}{4}$ "-14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(10): All layers of insulation simultaneously attached; membrane full adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Fire Barrier SECUROCK Gypsum-Fiber Roof Board 1/4" minimum thick Loose Laid

Vapor Barrier V-Force Self-Adhered to top of each deck rib with 3" wide side laps

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1" thick | N/A | N/A |
| | . | |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 3" thick | 1 or 2 with 3 | 1:4.0 ft ² |

| Membrane: | Min. 45 mil. EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|---|
| Maximum Design Pressure: | -52.5 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(11): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| · | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | - |
| Minimum ¹ /2"thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Board | | |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1:1.78 ft ² |
| Coated Glass Facer | | |
| Minimum 2" thick | 1 or 2 with 3 | 1:1.78 ft ² |
| | | 111/010 |
| GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:1.78 ft ² |
| | | 1.1.1010 |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -52.5 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener Installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(12): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1.5" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| Top insulation Layer | (Table 3) | Density/ft ² |
| GenFlex HD ISO | (1 able 3) | Density/It |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1: 1.33 ft ² |
| | | 11 100 10 |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1" thick | 1 or 2 with 3 | 1: 1.33 ft ² |
| | | |
| DensDeck Prime, SECUROCK Gypsum -Fiber Roof Bo | ard | |
| Minimum 1/4¼" thick | 1 or 2 with 3 | 1: 1.33 ft ² |
| | | |
| GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1: 1.33 ft ² |
| | | |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------|--|
| Maximum Design | |
| Pressure: | -60 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft. o.c. with #12-24 x $1-1/4$ " HWH self-drilling fasteners spaced 6" o.c. and with side laps attached using $\frac{1}{4}$ "-14 x $\frac{7}{8}$ " HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(13): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum ¹ / ₂ " thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| Top insulation Layer | (Table 3) | Density/ft ² |
| SECUROCK Gypsum-Fiber Roof Board | (Table 5) | Density/It |
| Minimum ¹ /2" thick | 1 or 2 with 3 | 1:1.78 ft ² |
| CarElan IID Composite ISO | | |
| GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:1.78 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -60 psf. (See General Limitation #7) |

| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " - 14 x 7/8" HWH self-drilling fasteners with $\frac{1}{2}$ " washers spaced 12" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(14): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer Minimum ¹ / ₂ " thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer Minimum 1.5" thick | 1 or 2 with 3 | 1:1.78 ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Board Minimum ½" thick1 or 2 with 31:1.78 ft2 | | |
| GenFlex HD Composite ISO Minimum 1.5" thick | 1 or 2 with 3 | 1:1.78 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld |
|----------------|--|
| | at the 2" wide side laps. |
| Maximum Design | |
| Pressure: | -60 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(15): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer | Insulation Fasteners | Fastener |
|------------------------|----------------------|-------------------------|
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation | | |
| Minimum 1.5" thick | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

| Top Insulation Layer | | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|--|-----------------------------------|-------------------------------------|
| GenFlex HD ISO | | · · · | · |
| Minimum ¹ /2" thick | | 1 or 2 with 3 | 1:1.33 ft ² |
| DensDeck Prime, SECU Minimum ¼" thick | JROCK Gypsum Fiber Roof Boa | rd 1 or 2 with 3 | 1:1.33 ft ² |
| GenFlex ISO Insulation Minimum 1" thick | n, Coated Glass Facer | 1 or 2 with 3 | 1:1.33 ft ² |
| GenFlex HD Composite Minimum 1.5" thick | e ISO | 1 or 2 with 3 | 1:1.33 ft ² |
| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. | | |
| Maximum Design | | | |
| Pressure: | -60 psf. (See General Limitation | #7) | |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. This Tested Assembly has been analyzed for allowable deck stress. See |
| | Evidence Submitted Table. |

System Type C(16): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | _ |
|---|-----------------------------------|-------------------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | (Table 3) | Density/It |
| Minimum ¹ /2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick | 1 or 2 with 3 | 1:2.13 ft ² |
| GenFlex HD Composite ISO Minimum 1.5" thick | 1 or 2 with 3 | 1:2.13 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -60 psf. (See General Limitation #7) |



| o supports spaced 6 ft. (one fastener installed " o.c. at the side laps. |
|--|
| ble deck stress. See |
| (|

System Type C(17): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex HD Composite ISO Minimum 1" thick | 1 or 2 with 3 | 1:1.33 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------|--|
| Maximum Design | |
| Pressure: | -60 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|--------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | 18 - 22 ga. 33 ksi |
| System Type C(18): | Membrane fully adhered over mechanically fastened insulation. |

One or more layers of any of the following insulations.

| Base Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1" thick | N/A | N/A |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Boa | rd | |
| Minimum ¹ / ₄ " thick | N/A | N/A |
| GenFlex HD Composite ISO | | |
| Minimum 1-1/2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| SECUROCK Gypsum-Fiber Roof Board | | |
| Minimum 1/2" thick | 1 or 2 with 3 | 1:4.0 ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1-1/2" thick | 1 or 2 with 3 | 1:4.0 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -62.5 psf. (See General Limitation #9) |
| Tressure. | -02.5 psi. (See General Elimitation #9) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft. o.c. with #12-24 x 1-1/4" HWH self-drilling fasteners spaced 6" o.c. and with side laps attached using $\frac{1}{4}$ "-14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(19): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| DensDeck Prime, GenFlex ISO Insulation, Coated Glass | Facer | |
| Minimum ¹ /2" thick | N/A | N/A |
| | | |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1.5" thick | 1 or 2 with 3 | 1:2.13 ft ² |
| | | |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -67.5 psf. (See General Limitation #7) |



| System Type C(20): | Membrane self-adhered over mechanically fastened insulation. |
|--------------------|---|
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with $5/8$ " diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. |
| Deck Type 2I: | Steel, Insulated |
| Membrane Type: | Single Ply, TPO, Reinforced |

membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|-----------------------------|-------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1/2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| SECUROCK Gypsum-Fiber Roof Board | | |
| Minimum ¼" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| | | |
| Coated Glass Facer | | |
| Minimum 1" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| | | |
| GenFlex ISO Insulation, GenFlex HD Composite ISO | | |
| Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| DangDook Drimo | | |
| DensDeck Prime | 1 an 2 mith 2 | 1.1 6 642 |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1:1.6 ft ² |

Note: All layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

| | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld |
|----------------|--|
| | at the 2" wide side laps. |
| Maximum Design | |
| Pressure: | -67.5 psf. (See General Limitation #7) |



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| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 12" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(21): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1.5" thick | N/A | N/A |
| | | |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Board | | |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1:1.33 ft ² |
| | | |
| GenFlex HD Composite ISO | | |
| Minimum 1-½" thick | 1 or 2 with 3 | 1:1.33 ft ² |

Note: All layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Membrane:Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld
at the 2" wide side laps.Maximum Design
Pressure:-75 psf. (See General Limitation #7)



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft. o.c. with #12-24 x 1-1/4" HWH self-drilling fasteners spaced 6" o.c. and with side laps attached using ¼"-14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| | |

System Type C(22): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|-----------------------------|-------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| DensDeck Prime, GenFlex ISO Insulation, Coated Glass Fa | acer | |
| Minimum ¹ / ₂ " thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1 ¹ / ₂ " thick | 1 or 2 with 3 | 1:1.78 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -75 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(23): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| DensDeck Prime, Coated Glass Facer, GenFlex HD ISO Minimum ½" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer Minimum 2" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Board Minimum ½" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| GenFlex HD Composite ISO Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1.6 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------|--|
| Maximum Design | |
| Pressure: | -75 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(24): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| Coated Glass Facer, GenFlex HD Composite ISO Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| GenFlex ISO Insulation Minimum 2" thick | 1 or 2 with 3 | 1:1.6 ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Boa Minimum ½" thick | ard 1 or 2 with 3 | 1:1.6 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------|--|
| Maximum Design | |
| Pressure: | -75 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel decking attached to steel supports spaced 6 ft o.c. with 5/8" diameter puddle welds 6" o.c. and with side laps attached using $\frac{1}{4}$ " – 14 x 7/8" HWH self-drilling fasteners spaced 24" o.c. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(25): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|----------------------|-------------------------|
| Base Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum 1/2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| SECUROCK Gypsum Fiber Roof Board | | - |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1:1.78 ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1.78 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -82.5 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga., Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(26): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

| One or more layers of any of the following insulations. | | |
|---|-----------------------------------|-------------------------------------|
| Base Insulation Layer (Optional) | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | - |
| Minimum ½" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | v |
| Minimum 1 ¹ / ₂ " thick | 1 or 2 with 3 | 1:1.33 ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Board | | |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1:1.33 ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1.33 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld |
|----------------|--|
| | at the 2" wide side laps. |
| Maximum Design | -90 psf. (See General Limitation #7) |
| Pressure: | |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(27): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| Coated Glass Facer | | |
| Minimum 2" thick | 1 or 2 with 3 | 1:1.33 ft ² |
| SECUROCK Gypsum Fiber Roof Board Minimum ½" thick | 1 or 2 with 3 | 1:1.33 ft ² |
| GenFlex HD Composite ISO Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1.33 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|--------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33 steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. |
| | This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| System Type C(28): | Membrane fully adhered over mechanically fastened insulation. |

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum ¹ /2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex HD Composite ISO Minimum 1.5" thick | 1 or 2 with 3 | 1: 1.33 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33 steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(29): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer Minimum 1/2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer Minimum 2" thick | 1 or 2 with 3 | 1:1 ft ² |
| DensDeck Prime, SECUROCK Gypsum Fiber Roof Bo Minimum ½" thick | pard 1 or 2 with 3 | 1:1ft ² |
| GenFlex HD Composite ISO Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|----------------|--|
| Maximum Design | |
| Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (one fastener installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(30): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | |
| Minimum ¹ / ₂ " thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex HD Composite ISO | 1 on 2 mith 2 | 1.1 22 82 |
| Minimum 2" thick | 1 or 2 with 3 | 1:1.33 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 33, Type B steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(31): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|---|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | · |
| Minimum 1/2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| Coated Glass Facer | | · |
| Minimum 2" thick | 1 or 2 with 3 | 1:1 ft ² |
| SECUROCK Gypsum Fiber Roof Board, DensDeck Pi | rime | |
| Minimum ¹ / ₂ " thick | 1 or 2 with 3 | 1:1 ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1 ft ² |

Note: All layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Membrane: Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps.

| Maximum Design | |
|----------------|--------------------------------------|
| Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|--|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 80 steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |
| | Evidence Submitted Table. |

System Type C(32): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | · |
| Minimum 1/2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners | Fastener |
| | (Table 3) | Density/ft ² |
| GenFlex ISO Insulation, Coated Glass Facer | | - |
| Minimum 2" thick | 1 or 2 with 3 | 1:1 ft ² |
| SECUROCK Gypsum Fiber Roof Board, DensDeck P | rime | |
| Minimum ¹ /2" thick | 1 or 2 with 3 | 1:1 ft ² |
| GenFlex HD Composite ISO | | |
| Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1 ft ² |

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



| Membrane Type: | Single Ply, TPO, Reinforced |
|-------------------|---|
| Deck Type 2I: | Steel, Insulated |
| Deck Description: | Minimum 22 ga. Grade 80 steel deck is secured to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. at the supports (two fasteners installed at each bearing attachment point) and Traxx/1 fasteners 24" o.c. at the side laps. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table. |

System Type C(33): Membrane self-adhered over mechanically fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

| Base Insulation Layer (Optional) | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
|--|-----------------------------------|-------------------------------------|
| GenFlex ISO Insulation, Coated Glass Facer | | v |
| Minimum 1/2" thick | N/A | N/A |
| Top Insulation Layer | Insulation Fasteners (Table 3) | Fastener Density/ft ² |
| Coated Glass Facer | | |
| Minimum 2" thick | 1 or 2 with 3 | 1:1 ft ² |
| SECUROCK Gypsum Fiber Roof Board, DensDeck Prime Minimum ½" thick1 or 2 with 31:1 ft² | | 1:1 ft ² |
| GenFlex HD Composite ISO Minimum 1-1/2" thick | 1 or 2 with 3 | 1:1 ft ² |

Note: All layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

| Membrane: | Min. 45 mil EZ TPO Peel and Stick HW self-adhered with 1.5" wide heat weld at the 2" wide side laps. |
|-----------------------------|--|
| Maximum Design Pressure: | -90 psf. (See General Limitation #7) |



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STEEL DECK SYSTEM LIMITATIONS:

- If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
- 2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F) value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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