



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

PRODUCT CONTROL NOTICE OF ACCEPTANCE

U.S. Intec, Inc.
1212 Brai Drive
Port Arthur TX 77643

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

U.S. Intec Modified Bitumen (SBS+APP) Roof Systems for Concrete Deck.

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 00-0329.07

Expires: 08/01/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 05/26/2000



ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: BUR Modified, APP/SBS

Approval Date: May 26, 2000

Deck Type: Concrete
Maximum Design Pressure -340 psf
Fire Classification: See General Limitation #1

Expiration Date: August 01, 2003**TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

| <u>Product</u> | <u>Dimensions*</u> | <u>Test Specification</u> | <u>Product Description</u> |
|--------------------------|--------------------|---------------------------|----------------------------------------------------------------------------------------|
| Ultra Base | 67 lb. roll | ASTM D 4601 | Type II asphalt impregnated and coated glass fiber base sheet. |
| Bondable Base | 67 lb. roll | ASTM D 4601 | Type II asphalt impregnated and coated glass fiber base sheet. |
| Flex Base 30 | 67 lb. roll | ASTM D 5147 | Fiberglass base sheet coated with SBS modified asphalt. |
| Flex Base 60FR | 85 lb. roll | ASTM D 5147 | Fiberglass base sheet coated with SBS modified asphalt. |
| Flex Base 60FR HS | 85 lb. roll | ASTM D 5147 | Fiber glass mat and scrim reinforced base sheet coated with SBS modified asphalt. |
| Intec Modified Base 190P | 87 lb. roll | ASTM D 5147 | Smooth surface SBS modified asphalt membrane, polyester reinforcement. |
| Permavent | 72 lb. roll | ASTM D 4897 Type II | Fiber glass base sheet impregnated and coated on both sides. |
| Combination Base | 67 lb. roll | ASTM D 4601 Type I | Type I asphalt impregnated and coated glass fiber base sheet with kraft paper backing. |
| Intec Modified Base Plus | 90 lb. roll | ASTM D 5147 | Fiberglass base sheet coated with SBS modified asphalt. |
| Intec Modified Base HS | 90 lb. roll | ASTM D 5147 | Smooth surface, fiber glass mat and scrim reinforced, SBS modified asphalt membrane. |
| Tough Ply IV | 38 lb. roll | ASTM D 2178 Type IV | Type IV asphalt impregnated glass felt. |
| Ultra Ply VI | 38 lb. roll | ASTM D 2178 Type VI | Type VI asphalt impregnated glass felt. |
| Ultra Cap | 72 lb. roll | ASTM D 3909 | Asphalt impregnated and coated felt surfaced with mineral granules. |


 Frank Zuloaga, RRC
 Roofing Product Control Examiner

| <u>Product</u> | <u>Dimensions*</u> | <u>Test Specification</u> | <u>Product Description</u> |
|----------------------------------------|--------------------|---------------------------|-----------------------------------------------------------------------------------------------------|
| Intec Flex S | 88 lb. roll | ASTM D 5147 | Smooth surface, polyester reinforced, SBS modified asphalt membrane. |
| Intec Flex M | 105 lb. roll | ASTM D 5147 | Granule surface, polyester reinforced, SBS modified asphalt membrane. |
| Intec Flex 190 | 97 lb. roll | ASTM D 5147 | Granule surface, polyester reinforced, SBS modified asphalt membrane. |
| Intec Flex 190 FR | 105 lb. roll | ASTM D 5147 | Granule surface, polyester reinforced, fire resistant, SBS modified asphalt membrane. |
| Intec Flex 250 FR | 105 lb. roll | ASTM D 5147 | Granule surface, polyester reinforced, fire resistant, SBS modified asphalt membrane. |
| Intec Flex FR 4.5 | 105 lb. roll | ASTM D 5147 | Granule surface, fiberglass reinforced, fire retardant, SBS modified asphalt membrane. |
| Intec Flex FR3 HS | 100 lb. roll | ASTM D 5147 | Granule surface fiberglass scrim and mat reinforced, fire resistant, SBS modified asphalt membrane. |
| Intec Flex Dual FR | 90 lb. roll | ASTM D 5147 | Granule surface, polyester/fiberglass reinforced, fire resistant, SBS modified asphalt membrane. |
| Intec Flex G4 (Smooth) | 90 lb. roll | ASTM D 5147 | Smooth surface, fiberglass reinforced, SBS modified asphalt membrane. |
| Intec Flex Aluminum | | ASTM D 5147 | Aluminum surface, reinforced membrane for flashing use only. |
| Intec Walk Board | 3' x 3' | Proprietary | Granule surface, APP modified asphalt membrane walkboard. |
| Intec Flex Walk Board | 3' x 3' | Proprietary | Granule surface, SBS modified asphalt membrane walkboard. |
| Drill-Tec (SS) Fastener | various | PA 114 | Stainless steel, drill point, threaded fastener. |
| Drill-Tec #14 Heavy Duty (HD) Fastener | various | PA 114 | Corrosion resistant, drill point, threaded fastener. |
| Drill-Tec Coated Drill Point (CDP) | various | PA 114 | Corrosion resistant, drill point, threaded fastener. |
| Drill-Tec Coated Thread Point (CTP) | various | PA 114 | Corrosion resistant, threaded point fastener. |
| Drill-Tec Plastic Plates | 3" round | PA 114 | Polyolifin 3" round plastic stress plates. |
| Drill-Tec Metal Plates | 3" round | PA 114 | Galvalume 3" round metal stress plates. |
| Flex Asphalt | various | ASTM D 312 | SEBS modified mopping asphalt. |
| Flex Asphalt Plus | various | ASTM D 312 | SEBS modified mopping asphalt. |

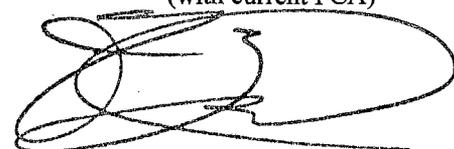
| <u>Product</u> | <u>Dimensions*</u> | <u>Test Specification</u> | <u>Product Description</u> |
|-------------------------------------|--------------------|---------------------------|-----------------------------------------------------------------------------------------|
| Flex Asphalt Lite | various | ASTM D 312 | SEBS modified mopping asphalt. |
| Intec/Permaglas Roofing Asphalt | various | ASTM D 312 | Mopping Asphalt |
| Matrix SBS Plus | various | proprietary | Asphalt based, SBS modified cold adhesive. |
| Matrix SBS Plus Trowel Grade | various | proprietary | SBS modified roof cement. |
| Fireshield | 6 gal. drum | proprietary | A liquid, temporary fire retardant treatment for brush, roll or spray application. |
| Gravel Guard MB | various | proprietary | Metal edge gravel guard with perforated flange. |
| MDrain | various | proprietary | Spun aluminum or copper roof drain. |
| Mini SP-4 | various | proprietary | Pre-cut widths of polyester reinforced, APP modified membrane for flashing and repairs. |
| MPan | various | proprietary | A prefabricated pitch pan and modified bitumen flashing assembly. |
| MScupper | various | proprietary | Prefabricated scupper. |
| Preflashed Lead Jack | various | proprietary | Preflashed vent pipe waterproofing assembly. |
| Standard, Adjustable, One Way MVent | various | proprietary | Prefabricated stack cover for use in soil pipe waterproofing. |
| Intec Tape | roll | proprietary | Unreinforced APP asphalt used as sealer or filler. |
| USIso Roof Insulation | various | PA 110 | Polyisocyanurate foam insulation. |
| USIso Tapered Roof Insulation | various | PA 110 | Tapered polyisocyanurate insulation. |
| USIso/Perlite Composite | various | PA 110 | Polyisocyanurate foam /perlite composite insulation board. |
| BMCA Permalite | min. 3/4" thick | PA 110 | Perlite and tapered perlite insulation |
| BMCA Recover | min. 1/2" thick | PA 110 | Perlite recover board |



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Roofing Product Control Examiner

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> | <u>Manufacturer</u> |
|---------------------------|-------------------|---------------------------|---------------------------------------------------|----------------------------------------------|
| Pyrox | min. 4' x 4' | PA 110 | Polyisocyanurate foam insulation | Apache Products Co. (with current PCA) |
| White Line | min. 4' x 4' | PA 110 | Polyisocyanurate foam insulation | Apache Products Co. (with current PCA) |
| ACFoam II | min. 4' x 4' | PA 110 | Polyisocyanurate foam insulation | Atlas Energy Products (with current PCA) |
| E'NRG'Y-2 | min. 4' x 4' | PA 110 | Polyisocyanurate foam insulation | NRG Barriers, Inc. (with current PCA) |
| Multi-Max Multi-Max FA | min. 4' x 4' | PA 110 | Polyisocyanurate foam insulation | Rmax, Inc. (with current PCA) |
| Type X Gypsum | various | | Fire resistant rated gypsum. | generic |
| DensDeck | min. 1/4" thick | | Fire resistant gypsum. | Georgia Pacific (with current PCA) |
| Dekfast Fasteners #14 | various | PA 114 | Insulation fastener for steel and concrete decks | Construction Fasteners (with current PCA) |
| Dekfast Hex Plate | 2 7/8" x 3 1/4" | PA 114 | Galvalume hex stress plate. | Construction Fasteners (with current PCA) |
| Dekfast Lock Plate | 3" x 3 1/4" | PA 114 | Polypropylene locking plate. | Construction Fasteners (with current PCA) |
| Dekfast #15 | various | PA 114 | Insulation fasteners for concrete decks | Construction Fasteners (with current PCA) |
| Dekfast #12 | various | PA 114 | Insulation fastener for steel and wood decks. | Construction Fasteners (with current PCA) |
| #12 Roofgrip | various | PA 114 | Insulation fastener for steel or wood decks | ITW Buildex (with current PCA) |
| #14 Roofgrip | various | PA 114 | Insulation fastener steel, wood or concrete decks | ITW Buildex (with current PCA) |
| Gripdek Fastener | various | PA 114 | Insulation fastener | ITW Buildex (with current PCA) |
| Hextra | various | PA 114 | Insulation fastener and metal or plastic plate | ITW Buildex (with current PCA) |
| Roofgrip Fastener | various | PA 114 | Insulation fastener | ITW Buildex (with current PCA) |



| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> | <u>Manufacturer</u> |
|-------------------------------|-------------------|---------------------------|--------------------------------------------------------------|-------------------------------------|
| Standard Plastic Plate | 3" round | PA 114 | Polyolefin plastic plate | ITW Buildex (with current PCA) |
| Olympic Polypropylene | 3.25" round | PA 114 | Polypropylene plastic plate | Olympic (with current PCA) |
| Olympic Fastener #14 | various | PA 114 | Insulation fastener | Olympic (with current PCA) |
| Olympic Standard | 3" round | PA 114 | 3" round galvalume AZ55 steel plate | Olympic (with current PCA) |
| Olympic CR Base Felt Fastener | various | PA 114 | Fastener assembly for Base Sheet fastening only | Olympic (with current PCA) |
| Olympic Fastener #12 | various | PA 114 | Insulation fastener | Olympic (with current PCA) |
| Insul-Fixx Fastener | various | PA 114 | Insulation fastener | SFS Stadler (with current PCA) |
| HD Insul-Fixx Fastener | various | PA 114 | Insulation fastener for use in steel and concrete decks | SFS Stadler (with current PCA) |
| Insul-Fixx S | 3" round | PA 114 | 3" round galvalume AZ55 stress plate | SFS Stadler (with current PCA) |
| Insul-Fixx P | 3" round | PA 114 | 3" round polyethylene stress plate | SFS Stadler (with current PCA) |
| TPR | various | PA 114 | Aluminum fastener for lightweight, gypsum and tectum decks | SFS Stadler (with current PCA) |
| Tru-Fast Plastic Plate | 3.04" round | PA 114 | 3.04" round polyethylene plastic plate | Tru-Fast (with current PCA) |
| Tru-Fast HD | various | PA 114 | Insulation fastener for use in wood, steel or concrete decks | Tru-Fast (with current PCA) |
| Tru-Fast MP-3 | 3.23" round | PA 114 | 3.23" round galvalume AZ50 steel plate | Tru-Fast (with current PCA) |
| Asphalt | various | ASTM D 312 | Type III or IV Hot asphalt bitumen adhesive | generic |
| Asphalt Primer | various | ASTM D 41 | Asphalt Primer | generic |
| Acrylic Roof Coating | various | PA 121 | Acrylic roof coating | Gibson Homans (with current PCA) |
| Aluminum Roof Coating | various | PA 121 | Aluminum roof coating | Gibson Homans (with current PCA) |

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> | <u>Manufacturer</u> |
|----------------------|-------------------|---------------------------|----------------------------|----------------------------------------------|
| Alum-A-Gard | various | PA 121 | Aluminum roof coating. | ALCO (Nat'l Varnish) (with current PCA) |
| Karnak 97 | various | PA 121 | Roof coating | Karnak (with current PCA) |
| Endure | various | PA 121 | Asphalt emulsion | Monsey Products (with current PCA) |
| Pro-Grade Aluminum | various | PA 121 | Aluminum roof coating | Monsey Products (with current PCA) |
| Thermo Super Prep II | various | PA 121 | Liquid acrylic coating. | Thermo Materials Corp. (with current PCA) |
| Thermo Solar Shield | various | PA 121 | Liquid acrylic coating. | Thermo Materials Corp. (with current PCA) |
| TRS Top Coat | various | PA 121 | Liquid acrylic coating. | Thermo Materials Corp. (with current PCA) |

EVIDENCE SUBMITTED:

| <u>Test Agency/Identifier</u> | <u>Name</u> | <u>Report</u> | <u>Date</u> |
|-------------------------------------|---------------|-----------------------------------|-------------|
| Factory Mutual Research Corporation | J.I. 3X0A9.AM | FMRC 4470 | 04/12/94 |
| Factory Mutual Research Corporation | J.I. 0V0A6.AM | FMRC 4470 | 01/06/93 |
| Factory Mutual Research Corporation | J.I. 0X6Q2.AM | FMRC 4470 | 06/24/93 |
| Factory Mutual Research Corporation | Letter | Approval Extension | 05/19/93 |
| Factory Mutual Research Corporation | Letter | Approval Extension | 04/13/94 |
| Factory Mutual Research Corporation | J.I. 1B7A6.AM | FMRC 4470 | 05/27/97 |
| Factory Mutual Research Corporation | J.I. 3B0A0.AM | FMRC 4470/4454 | 04/30/97 |
| Factory Mutual Research Corporation | J.I. 0D3A3.AM | FMRC 4470/4454 | 04/04/97 |
| Underwriters Laboratories, Inc. | 1997 UL Guide | Fire Classification Compliance | 01/01/97 |
| Underwriters Laboratories, Inc. | 96NK11547 | UL 790 | 05/28/96 |
| Underwriters Laboratories, Inc. | 96NK26146 | | 11/04/96 |
| Warnock Hersey - ITS | 484-733400 | Physical Properties | 07/26/94 |
| Exterior Research & Design, LLC. | #3955.05.97-1 | Wind Uplift PA 114, Appendix J | 05/22/97 |

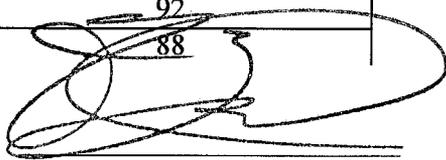


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Roofing Product Control Examiner

TYPICAL PROPERTIES:

DYNAMIC PULL-THROUGH PERFORMANCE

| Stress Plate | Base Sheet | Dynamic Pull-Through Value (lbf.) |
|---------------------------|-----------------------------|-----------------------------------|
| Intec Drill-Tec | Permavent | 67 |
| | Ultra Base | 76 |
| | Flex Base 30 | 62 |
| | Flex Base 60FR | 154 |
| | Intec Modified Base Plus | 119 |
| | Intec Modified Base Plus HS | 140 |
| | Intec Modified Base 190P | 126 |
| | Intec APP Base | 89 |
| | Intec SP-4 | 165 |
| SFS Stadler Insul-Fixx S | Permavent | 69 |
| | Ultra Base | 73 |
| | Flex Base 30 | 91 |
| | Flex Base 60FR | 114 |
| | Intec Modified Base Plus | 109 |
| | Intec Modified Base Plus HS | 185 |
| | Intec Modified Base 190P | 118 |
| | Intec APP Base | 89 |
| | Intec SP-4 | 173 |
| SFS Stadler Isofast IF/IG | Permavent | 105 |
| | Ultra Base | 88 |
| | Flex Base 30 | 117 |
| | Flex Base 60FR | 125 |
| | Intec Modified Base Plus | 120 |
| | Intec Modified Base Plus HS | 188 |
| | Intec Modified Base 190P | 218 |
| | Intec APP Base | 116 |
| | Intec SP-4 | 199 |
| Olympic Standard Metal | Permavent | 59 |
| | Ultra Base | 74 |
| | Flex Base 30 | 100 |
| | Flex Base 60FR | 198 |
| | Intec Modified Base Plus | 148 |
| | Intec Modified Base Plus HS | 180 |
| | Intec Modified Base 190P | 105 |
| | Intec APP Base | 114 |
| | Intec SP-4 | 170 |
| ITW Buildex Premium Metal | Permavent | 54 |
| | Ultra Base | 92 |
| | Flex Base 30 | 88 |



| Stress Plate | Base Sheet | Dynamic Pull-Through Value (lbf.) |
|----------------------|-----------------------------|-----------------------------------|
| | Flex Base 60FR | 113 |
| | Intec Modified Base Plus | 124 |
| | Intec Modified Base Plus HS | 204 |
| | Intec Modified Base 190P | 124 |
| | Intec APP Base | 120 |
| | Intec SP-4 | 158 |
| CF Dekfast Hex Plate | Permavent | 54 |
| | Ultra Base | 92 |
| | Flex Base 30 | 78 |
| | Flex Base 60FR | 138 |
| | Intec Modified Base Plus | 124 |
| | Intec Modified Base Plus HS | 222 |
| | Intec Modified Base 190P | 112 |
| | Intec APP Base | 94 |
| | Intec SP-4 | 187 |

1 Dynamic Pull-Through Values determined in compliance with Miami-Dade County Roofing Protocol PA 117(B) using listed base sheet followed by one ply of type IV ply sheet applied in hot asphalt.

2 A 2 to 1 margin of safety has been applied to actual test results resulting in the above noted design values.



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SYSTEMS:

- Membrane Type:** APP
- Deck Type 3I:** Concrete Decks, Insulated, New Construction
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A:** One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
|------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|

One or more layers of any of the following insulations:

Approved Type(s): **USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline**
 Minimum: 1.5" x 4' x 4' N/A N/A N/A N/A

Approved Type(s): **USIso/Perlite Composite**
 Minimum: 1.5" x 4' x 4' N/A N/A N/A N/A

| <u>Insulation Base or Top Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|-------------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
|-------------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|

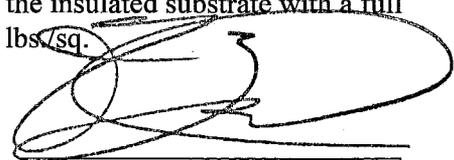
Approved Type(s): **USIso/Perlite Composite**
 Minimum: 1.5" x 4' x 4' N/A N/A N/A N/A

Approved Type(s): **BMCA Permalite**
 Minimum: ¾" x 2' x 4' N/A N/A N/A N/A

Approved Type(s): **BMCA Permalite Recover (Top Layer Only)**
 Minimum: ½" x 2' x 4' N/A N/A N/A N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.



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Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to a mopped base sheet.

Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded to substrate.

Surfacing: Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.

Maximum Design

Pressure: -172.5 psf; (See General Limitation #9.)

Maximum Fire

Classification: See General Limitation # 1.

Maximum Slope: See General Limitation # 1.

Specification No.: See manufacturer's specification manual.



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Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated, New Construction

Deck Description: 2500 psi structural concrete or concrete plank

System Type A: All layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|----------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|
|----------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|

One or more layers of any of the following insulations:

| | | | | |
|-------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |

| | | | | |
|--------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |

| <u>Insulation Base or Top Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|-----------------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|
|-----------------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|

| | | | | |
|--------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |

| | | | | |
|-----------------------------------------|-----|-----|-----|-----|
| Approved Type(s): BMCA Permalite | | | | |
| Minimum: 3/4" x 2' x 4' | N/A | N/A | N/A | N/A |

| | | | | |
|------------------------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): BMCA Permalite Recover (Top Layer Only) | | | | |
| Minimum: 1/2" x 2' x 4' | N/A | N/A | N/A | N/A |

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.



Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

Maximum Design Pressure: -172.5 psf; (See General Limitation #9.)

Maximum Fire Classification: See General Limitation # 1.

Maximum Slope: See General Limitation # 1.

Specification No.: See manufacturer's specification manual.



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Roofing Product Control Examiner

Membrane Type: APP

Deck Type 3I: Concrete Decks, Insulated, New Construction

Deck Description: 2500 psi structural concrete or concrete plank

System Type B: Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

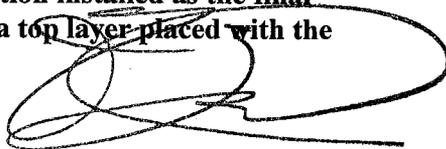
All General Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|-------------------------------------------------------------------------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
| Approved Type(s): USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline | | | | |
| Minimum: 1.5" x 4' x 4' | Drill-Tec S/P | [3] | 6 | 1:2.67 ft ² |
| Minimum: 1.5" x 4' x 4' | Tru-Fast S/P | [3] | 6 | 1:2.67 ft ² |
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | Drill-Tec S/P | [3] | 6 | 1:2.67 ft ² |
| Minimum: 1.5" x 4' x 4' | Tru-Fast S/P | [3] | 6 | 1:2.67 ft ² |
| Approved Type(s): BMCA Permalite | | | | |
| Minimum: ¾" x 2' x 4' | Drill-Tec S/P | [1] | 3 | 1:2.67 ft ² |
| Minimum: ¾" x 2' x 4' | Tru-Fast S/P | [1] | 3 | 1:2.67 ft ² |

Note: Base layer 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 Miami-Dade County Roofing Application Standard RAS 117 for fastening details).

| <u>Insulation Top Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|--------------------------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite | | | | |
| Minimum: ¾" x 2' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite Recover | | | | |
| Minimum: ½" x 2' x 4' | N/A | N/A | N/A | N/A |

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.



Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to a mopped base sheet.

Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded to substrate.

Surfacing: Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.

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

Maximum Fire Classification: See General Limitation # 1.

Maximum Slope: See General Limitation # 1.

Specification No.: See manufacturer's specification manual.



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Roofing Product Control Examiner

Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated, New Construction

Deck Description: 2500 psi structural concrete or concrete plank

System Type B: Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|-------------------------------------------------------------------------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
| Approved Type(s): USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline | | | | |
| Minimum: 1.5" x 4' x 4' | Drill-Tec S/P | [3] | 6 | 1:2.67 ft ² |
| Minimum: 1.5" x 4' x 4' | Tru-Fast S/P | [3] | 6 | 1:2.67 ft ² |
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | Drill-Tec S/P | [3] | 6 | 1:2.67 ft ² |
| Minimum: 1.5" x 4' x 4' | Tru-Fast S/P | [3] | 6 | 1:2.67 ft ² |
| Approved Type(s): BMCA Permalite | | | | |
| Minimum: ¾" x 2' x 4' | Drill-Tec S/P | [1] | 3 | 1:2.67 ft ² |
| Minimum: ¾" x 2' x 4' | Tru-Fast S/P | [1] | 3 | 1:2.67 ft ² |

Note: Base layer 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 Miami-Dade County Roofing Application Standard RAS 117 for fastening details).

| <u>Insulation Top Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|--------------------------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite | | | | |
| Minimum: ¾" x 2' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite Recover | | | | |
| Minimum: ½" x 2' x 4' | N/A | N/A | N/A | N/A |

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

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

Maximum Fire Classification: See General Limitation # 1.

Maximum Slope: See General Limitation # 1.

Specification No.: See manufacturer's specification manual.



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Membrane Type: APP

Deck Type 3I: Concrete Decks, Insulated, New Construction

Deck Description: 2500 psi structural concrete or concrete plank

System Type C: All layers of insulation simultaneously fastened.

All General and System Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|----------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|
|----------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|

One or more layers of any of the following insulations:

| | | | | |
|-------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |

| | | | | |
|--------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | 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 Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment.

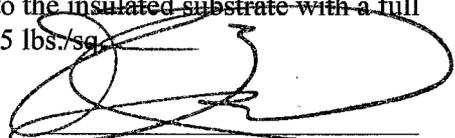
| <u>Insulation Top Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|---------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|
|---------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|

| | | | | |
|--------------------------------------------------|---------------|-----|---|------------------------|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | Drill-Tec S/P | [3] | 6 | 1:2.67 ft ² |
| Minimum: 1.5" x 4' x 4' | Tru-Fast S/P | [3] | 6 | 1:2.67 ft ² |

| | | | | |
|-----------------------------------------|---------------|-----|---|------------------------|
| Approved Type(s): BMCA Permalite | | | | |
| Minimum: ¾" x 2' x 4' | Drill-Tec S/P | [1] | 3 | 1:2.67 ft ² |
| Minimum: ¾" x 2' x 4' | Tru-Fast S/P | [1] | 3 | 1:2.67 ft ² |

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Miami-Dade County Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in Chapter 23 of the S.F.B.C. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.


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Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to a mopped base sheet.

Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded to substrate.

Surfacing: Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.

Maximum Design

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

Maximum Fire

Classification: See General Limitation # 1.

Maximum Slope: See General Limitation # 1.

Specification No.: See manufacturer's specification manual.



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Membrane Type: SBS
Deck Type 3I: Concrete Decks, Insulated, New Construction
Deck Description: 2500 psi structural concrete or concrete plank
System Type C: All layers of insulation simultaneously fastened.

All General and System Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|----------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|
|----------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|

One or more layers of any of the following insulations:

| | | | | |
|-------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |

| | | | | |
|--------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | N/A | N/A | 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 Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment.

| <u>Insulation Top Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|---------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|
|---------------------------------|--------------------------|---------------------------------|--------------------------------|-----------------------------|

| | | | | |
|--------------------------------------------------|---------------|-----|---|------------------------|
| Approved Type(s): USIso/Perlite Composite | | | | |
| Minimum: 1.5" x 4' x 4' | Drill-Tec S/P | [3] | 6 | 1:2.67 ft ² |
| Minimum: 1.5" x 4' x 4' | Tru-Fast S/P | [3] | 6 | 1:2.67 ft ² |

| | | | | |
|-----------------------------------------|---------------|-----|---|------------------------|
| Approved Type(s): BMCA Permalite | | | | |
| Minimum: ¾" x 2' x 4' | Drill-Tec S/P | [1] | 3 | 1:2.67 ft ² |
| Minimum: ¾" x 2' x 4' | Tru-Fast S/P | [1] | 3 | 1:2.67 ft ² |

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Miami-Dade County Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in Chapter 23 of the S.F.B.C. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

- Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.
- Maximum Design Pressure: -45 psf (See General Limitation #9)
- Maximum Fire Classification: See General Limitation # 1.
- Maximum Slope: See General Limitation # 1.
- Specification No.: See manufacturer's specification manual.



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Roofing Product Control Examiner

- Membrane Type:** APP
- Deck Type 3I:** Concrete Decks, Insulated, New Construction
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type D:** All layers of insulation and base sheet simultaneously fastened.

All General and System Limitations apply.

| <u>Insulation Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|-------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
|-------------------------|----------------------|-----------------------------|----------------------------|-------------------------|

One or more layers of any of the following insulations:

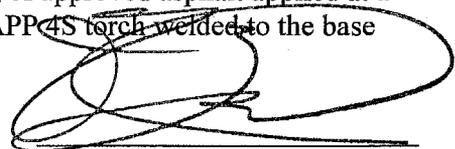
| | | | | |
|-----------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline Minimum: 1.3" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): E'NRG'Y-2 Minimum: 1.4" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): USIso/Perlite Composite Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite Minimum: 3/4" x 2' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite Recover (Top Layer Only) Minimum: 1/2" x 2' x 4' | N/A | N/A | N/A | N/A |

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet: Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth fastened to the deck as described below:

Fastening: Fasten base sheet with Drill-Tec TG or HD fasteners and Drill-Tec Metal Plates at a 2" side lap 12" o.c. and two rows staggered in the center of the sheet 18" o.c.

Ply Sheet: (Optional) One, two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP torch welded to the base sheet.



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Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded to substrate.

Surfacing: Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.

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

Maximum Fire Classification: See General Limitation # 1.

Maximum Slope: See General Limitation # 1.

Specification No.: See manufacturer's specification manual.



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Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated, New Construction

Deck Description: 2500 psi structural concrete or concrete plank

System Type D: All layers of insulation and base sheet simultaneously fastened.

All General and System Limitations apply.

| <u>Insulation Layer</u> | <u>Fastener Type</u> | <u>Fastening Detail No.</u> | <u>Fasteners Per Board</u> | <u>Fastener Density</u> |
|-------------------------|----------------------|-----------------------------|----------------------------|-------------------------|
|-------------------------|----------------------|-----------------------------|----------------------------|-------------------------|

One or more layers of any of the following insulations:

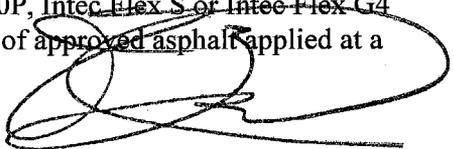
| | | | | |
|-----------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Approved Type(s): USIso, ACFoam II, Multi-Max, Multi-Max FA, Pyrox, Whiteline Minimum: 1.3" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): E'NRG'Y-2 Minimum: 1.4" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): USIso/Perlite Composite Minimum: 1.5" x 4' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite Minimum: 3/4" x 2' x 4' | N/A | N/A | N/A | N/A |
| Approved Type(s): BMCA Permalite Recover (Top Layer Only) Minimum: 1/2" x 2' x 4' | N/A | N/A | N/A | N/A |

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet: Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth fastened to the deck as described below:

Fastening: Fasten base sheet with Drill-Tec TG or HD fasteners and Drill-Tec Metal Plates at a 2" side lap 12" o.c. and two rows staggered in the center of the sheet 18" o.c.

Ply Sheet: (Optional) One, two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.



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Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

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

Maximum Fire Classification: See General Limitation # 1.

Maximum Slope: See General Limitation # 1.

Specification No.: See manufacturer's specification manual.

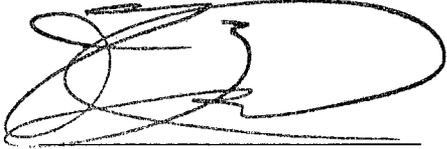


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Roofing Product Control Examiner

- Membrane Type:** APP
- Deck Type 3:** Concrete Decks, Non-insulated, New Construction
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type E:** Base sheet mechanically attached.

All General and System Limitations apply.

- Base Sheet:** Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth fastened to the deck as described below:
- Fastening:** Fasten base sheet with Drill-Tec TG or HD fasteners and Drill-Tec Metal Plates at a 2" side lap 12" o.c. and two rows staggered in the center of the sheet 18" o.c.
- Ply Sheet:** (Optional) One, two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to the base sheet.
- Membrane:** Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded to substrate.
- Surfacing:** Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.
- Maximum Design Pressure:** -45 psf . (See General Limitation #9)
- Maximum Fire Classification:** See General Limitation # 1.
- Maximum Slope:** See General Limitation # 1.
- Specification No.:** See manufacturer's specification manual.



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Roofing Product Control Examiner

- Membrane Type:** SBS
- Deck Type 3:** Concrete Decks, Non-insulated, New Construction
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type E:** Base sheet mechanically attached.

All General and System Limitations apply.

- Base Sheet:** Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth fastened to the deck as described below:
- Fastening:** Fasten base sheet with Drill-Tec TG or HD fasteners and Drill-Tec Metal Plates at a 2" side lap 12" o.c. and two rows staggered in the center of the sheet 18" o.c.
- Ply Sheet:** (Optional) One, two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Membrane:** Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Surfacing:** (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.
- Maximum Design Pressure:** -45 psf . (See General Limitation #9)
- Maximum Fire Classification:** See General Limitation # 1.
- Maximum Slope:** See General Limitation # 1.
- Specification No.:** See manufacturer's specification manual.



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- Membrane Type:** APP
- Deck Type 3:** Concrete Decks, Non-insulated, New Construction
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type F:** Base sheet adhered with approved asphalt.

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or one ply of SP4 or Flex Cap APP 4S torch welded to the primed substrate.

Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to the base sheet.

Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded to substrate.

Surfacing: Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.

Maximum Design Pressure: -225 psf (See General Limitation #9)

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.

Specification No.: Refer to manufacturer's specification manual.



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- Membrane Type:** SBS
- Deck Type 3:** Concrete Decks, Non-insulated, New Construction
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type F:** Base sheet adhered with approved asphalt.

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or one ply of SP4 or Flex Cap APP 4S torch welded to the primed substrate.

Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to the base sheet.

Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

Maximum Design Pressure: -225 psf (See General Limitation #9)

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.

Specification No.: Refer to manufacturer's specification manual.



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Concrete System Limitations:

- 1 The following assembly is approved to a maximum design pressure of **-225 psf***. No substitutions shall be made.
- a. Deck: Poured concrete primed with ASTM D 41 primer.
 - b. Insulations: Base Layer: Min. 1.5" thick USIso, ACfoam II, E'NRG'Y-2 or Multi-Max polyisocyanurate bonded to the primed substrate in a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
Top Layer: Min. ½" thick Celotex High Density Wood Fiberboard bonded to the base insulation layer in a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
 - c. Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq .
 - d. Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to a mopped base sheet.
 - e. Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded.
 - f. Surfacing: Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.

***Note: 1. The maximum design pressure limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters, corners). No rational analysis or extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners, and corners).**

- 2 The following assembly is approved to a maximum design pressure of **-225 psf***. No substitutions shall be made.
- a. Deck: Poured concrete primed with ASTM D 41 primer.
 - b. Insulations: Base Layer: Min. 1.5" thick USIso, ACfoam II, E'NRG'Y-2 or Multi-Max polyisocyanurate bonded to the primed substrate in a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
Top Layer: Min. ½" thick Celotex High Density Wood Fiberboard bonded to the base insulation layer in a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
 - c. Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.



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- d. Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- e. Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- f. Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

- *Notes:**
1. The maximum design pressure limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters, corners). No rational analysis or extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners, and corners).
 2. Substituting an application of U.S. Intec "Matrix SB Plus" cold adhesive for the asphalt applied insulation and membrane components above results in a maximum design pressure of -122.5 psf for the system.

- 3 The following assembly is approved to a maximum design pressure of **-215 psf***. No substitutions shall be made.

- a. Deck: Poured concrete primed with ASTM D 41 primer.
- b. Insulations: Base Layer: Min. 1.5" thick USIso, ACFoam II, E'NRG'Y-2 or Multi-Max polyisocyanurate bonded to the primed substrate in a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
Top Layer: Min. ¼" thick Georgia Pacific Dens Deck bonded to the base insulation layer in a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- c. Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq .
- d. Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to a mopped base sheet.
- e. Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded.
- f. Surfacing: Install liquid roof coating if using Intec SP-4 or ~~Flex Cap APP4S~~ as membrane. See General Limitations #1.

***Note: 1. The maximum design pressure limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters, corners). No rational analysis or extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners, and corners).**

4 The following assembly is approved to a maximum design pressure of **-215 psf***. No substitutions shall be made.

- a. Deck: Poured concrete primed with ASTM D 41 primer.
- b. Insulations: Base Layer: Min. 1.5" thick ACFoam II, E'NRG'Y-2 or Multi-Max polyisocyanurate bonded to the primed substrate in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Top Layer: Min. ¼" thick Georgia Pacific Dens Deck bonded to the base insulation layer in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- c. Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- d. Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- e. Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- f. Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

***Notes: 1. The maximum design pressure limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters, corners). No rational analysis or extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners, and corners).**

2. Substituting an application of U.S. Intec "Matrix SB Plus" cold adhesive for the asphalt applied insulation and membrane components above results in a maximum design pressure of -97.5 psf for the system.



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- 5 The following assembly is approved to a maximum design pressure of **-340 psf***. No substitutions shall be made.
- a. Deck: Poured concrete primed with ASTM D 41 primer.
 - b. Insulations: Min. ¼" thick Georgia Pacific Dens Deck bonded to the base insulation layer in a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
 - c. Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq .
 - d. Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of SP4 or Flex Cap APP 4S torch welded to a mopped base sheet.
 - e. Membrane: Intec SP-4, Flex Cap APP 4S, Intec GBSP-4FR, Intec GBSP-250FR, Intec GBSP-4 or Flex Cap APP 4.5M torch welded.
 - f. Surfacing: Install liquid roof coating if using Intec SP-4 or Flex Cap APP4S as membrane. See General Limitations #1.

***Note: 1. The maximum design pressure limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters, corners). No rational analysis or extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners, and corners).**

- 6 The following assembly is approved to a maximum design pressure of **-340 psf***. No substitutions shall be made.
- a. Deck: Poured concrete primed with ASTM D 41 primer.
 - b. Insulations: Min. ¼" thick Georgia Pacific Dens Deck bonded to the base insulation layer in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
 - c. Base Sheet: (Optional if ply sheet is used) Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
 - d. Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
 - e. Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

- f. Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

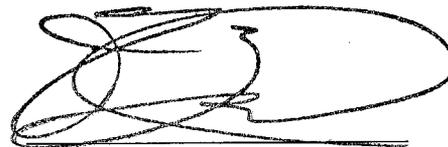
***Note: 1. The maximum design pressure limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters, corners). No rational analysis or extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners, and corners).**

7 The following assembly is approved to a maximum design pressure of **-192.5 psf***. No substitutions shall be made.

- a. Deck: Poured concrete primed with ASTM D 41 primer.
- b. Insulations: None
- c. Base Sheet: Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered in an application of Intec Matrix SB Plus cold adhesive.
- d. Ply Sheet: (Optional) One (base sheet required), two or three plies of Tough Ply IV or Ultra Ply VI or one ply of Ultra Base, Flex Base 30, Flex Base 60 FR, Flex Base 60 FRHS, Intec Modified Base Plus, Intec Modified Base Plus HS, Intec Modified Base 190P, Intec Flex S or Intec Flex G4 Smooth adhered in an application of Intec Matrix SB Plus cold adhesive.
- e. Membrane: Intec Flex FR 3HS, Intec Flex 190FR, Intec Flex 250FR, Intec Flex FR 4.5, Intec Flex Dual FR, Intec Flex 190, Permaglas SBS, Permaglas SBS FR or Intec Flex M adhered in an application of Intec Matrix SB Plus cold adhesive.
- f. Surfacing: (Optional, in place of membrane) One or more plies of Ultra Base, Flex Base 30, Flex Base 60 FR, Intec Modified Base Plus or Intec Flex S adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. and surfaced with a flood coat of asphalt at a minimum rate of 60 lbs./sq. and 400 lbs. of aggregate.

***Notes: 1. The maximum design pressure limitation listed shall be applicable to all roof pressure zones (i.e., field, perimeters, corners). No rational analysis or extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners, and corners).**

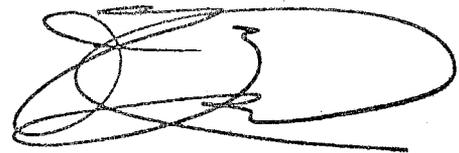
2. Substituting a full mopping of approved hot asphalt for the cold adhesive applied components noted above results in a maximum design pressure of -335 psf for the system.



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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 applied 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 may 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 sidelap 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 TAS 105. If the fastener value, as field-tested, is 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 the 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 Engineer or Architect may be submitted. Said revised fastener spacing utilize the withdrawal resistance value taken from Miami-Dade Protocol TAS 105 and calculations in compliance with Miami-Dade Roofing Application Standard RAS 117.
- 7 Perimeter and corner areas shall comply with the enhanced uplift pressure of these areas, as calculated in compliance with Chapter 23 of the South Florida Building Code. Fastener densities shall be increase for both insulation and base sheet as needed calculated in compliance with Miami-Dade Roofing Application Standard TAS 117. **(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 with Miami-Dade County Roofing Application Standard TAS 111 and the wind load requirements of Chapter 23 of the South Florida Building Code.
- 9 The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, corners). No 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.)**



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NOTICE OF ACCEPTANCE STANDARD CONDITIONS

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process;
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 1 through 36.

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner