



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

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

**NOTICE OF ACCEPTANCE (NOA)**

**U.S. Intec, Inc.  
1361 Alps Road  
Wayne, NJ 07470**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee 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 Division (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 AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: US Intec Conventional Built-Up Roofing Systems Over Lightweight Concrete 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 15.  
The submitted documentation was reviewed by Frank Zuloaga, RRC



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## ROOFING SYSTEM APPROVAL

|                                |                           |
|--------------------------------|---------------------------|
| <b>Category:</b>               | Roofing                   |
| <b>Sub-Category:</b>           | Built-Up Roofing          |
| <b>Material:</b>               | Fiberglass                |
| <b>Deck Type:</b>              | Lightweight Concrete      |
| <b>Maximum Design Pressure</b> | -75 psf                   |
| <b>Fire Classification:</b>    | See General Limitation #1 |

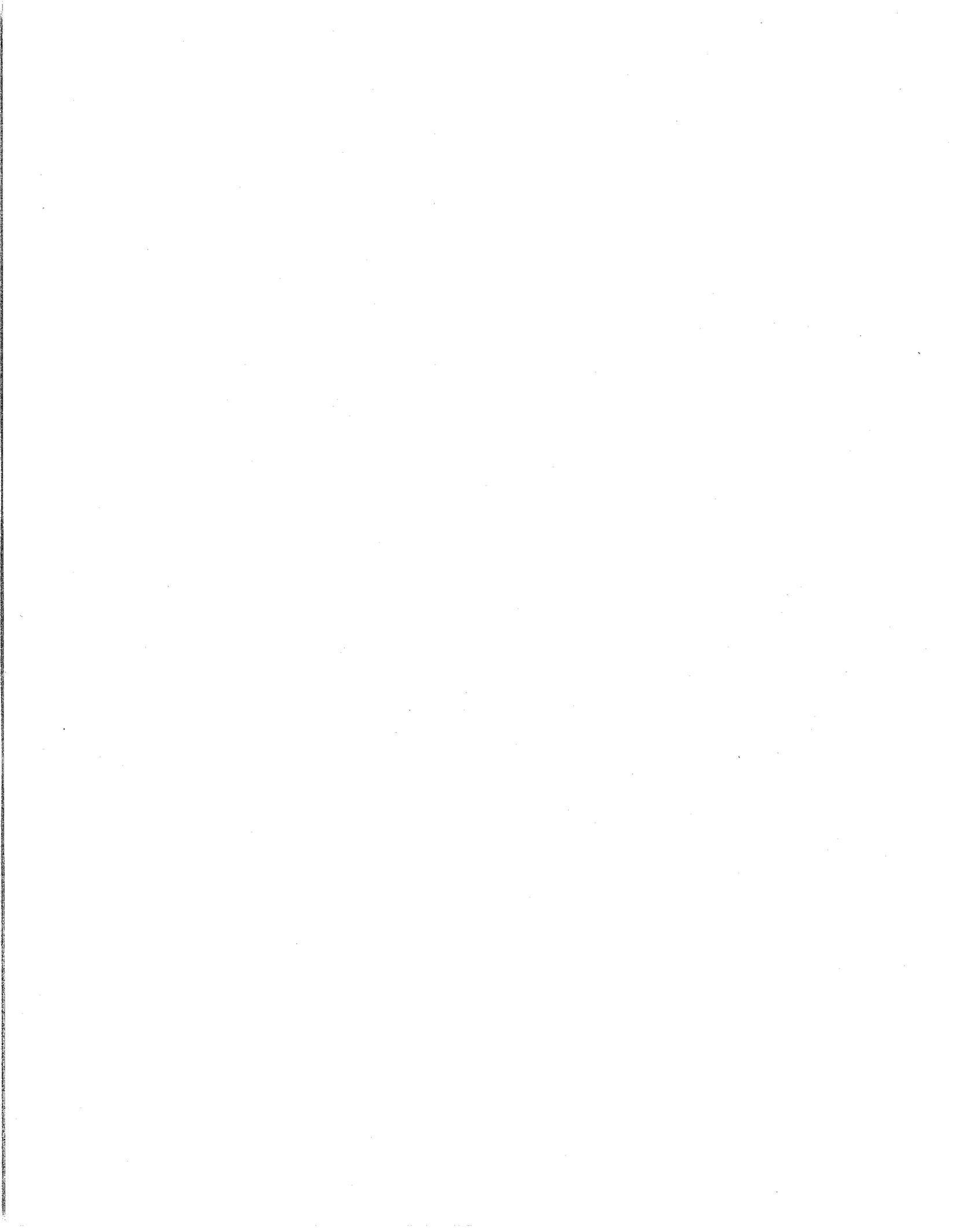
### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| <u>Product</u>  | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u>   |
|---|-------------------|---------------------------|--|
| WorkHorse Ultra Base Sheet                            | 67 lb. roll       | ASTM D 4601               | Type II asphalt impregnated and coated glass fiber base sheet.                         |
| Brai SP-4 Supreme APP Smooth                          | 88 lb. roll       | ASTM D 6222               | Smooth surface, polyester reinforced, APP modified asphalt membrane.                   |
| Brai GSSP-4 Supreme APP Smooth                        | 105 lb. roll      | ASTM D 6222               | Granule surface, polyester reinforced, APP modified asphalt membrane.                  |
| Brai GSSP-4 FR Supreme APP Smooth                     | 105 lb. roll      | ASTM D 6222               | Granule surface, polyester reinforced, fire resistant, APP modified asphalt membrane.  |
| WorkHorse APP 160 Smooth                              | 88 lb. roll       | ASTM D 6222               | Smooth surface, polyester reinforced, APP modified asphalt membrane.                   |
| WorkHorse APP 160 Granule                             | 105 lb. roll      | ASTM D 6222               | Granule surface, polyester reinforced, APP modified asphalt membrane.                  |
| WorkHorse APP Smooth                                  | 88 lb. roll       | ASTM D 6222               | Smooth surface, polyester reinforced, APP modified asphalt membrane.                   |
| WorkHorse APP Granule                                 | 105 lb. roll      | ASTM D 6222               | Granule surface, polyester reinforced, APP modified asphalt membrane.                  |
| Brai Supreme APP Smooth                               | 88 lb. roll       | ASTM D 6222               | Smooth surface, polyester reinforced, APP modified asphalt membrane.                   |
| Brai Supreme APP Granule                              | 105 lb. roll      | ASTM D 6222               | Granule surface, polyester reinforced, APP modified asphalt membrane.                  |
| Brai Supreme APP Granule FR                           | 105 lb. roll      | ASTM D 6222               | Granule surface, polyester reinforced, fire resistant, APP modified asphalt membrane.  |
| Brai Supreme Plus APP Granule FR                      | 90 lb. roll       | ASTM D 6222               | Granule surface, polyester reinforced, fire resistant, APP modified asphalt membrane.  |
| Intec WorkHorse 160 SBS Granule                       | 97 lb. roll       | ASTM D 6222               | Granule surface, polyester reinforced, SBS modified asphalt membrane.                  |
| Brai Supreme SBS Base                                 | 87 lb. roll       | ASTM D 6222               | Smooth surface SBS modified asphalt membrane, polyester reinforcement.                 |
| Brai Supreme Eliminator Nailable Base Sheet           | 72 lb. roll       | ASTM D 4897<br>Type II    | Fiber glass base sheet impregnated and coated on both sides.                           |
| Brai Supreme Eliminator Perforated Venting Base Sheet | 67 lb. roll       | ASTM D 4601<br>Type I     | Type I asphalt impregnated and coated glass fiber base sheet with kraft paper backing. |



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| <u>Product</u>                                 | <u>Dimensions</u> | <u>Test Specification</u>   | <u>Product Description</u>   |
|--|-------------------|-----------------------------|--|
| Brai Supreme SBS Glass Base                    | 90 lb. roll       | ASTM D 6163 Type I Grade S  | Fiberglass base sheet coated with SBS modified asphalt.  |
| Brai Flex ModBase Plus Supreme Modified HS     | 90 lb. roll       | ASTM D 6222                 | Smooth surface, fiber glass mat and scrim reinforced, SBS modified asphalt membrane.             |
| Brai Sumpreme Ply 4                            | 38 lb. roll       | ASTM D 2178 Type IV         | Type IV asphalt impregnated glass felt.  |
| Brai Sumpreme Ply 4                            | 38 lb. roll       | ASTM D 2178 Type VI         | Type VI asphalt impregnated glass felt.  |
| Brai Sumpreme Cap Sheet                        | 72 lb. roll       | ASTM D 3909                 | Asphalt impregnated and coated felt surfaced with mineral granules.                              |
| Intec WorkHorse Ultra Cap 730 Premier          | 72 lb. roll       | ASTM D 3909                 | Asphalt impregnated and coated felt surfaced with mineral granules.                              |
| Brai Flex Smooth Supreme SBS Poly              | 88 lb. roll       | ASTM D 5147                 | Smooth surface, polyester reinforced, SBS modified asphalt membrane.                             |
| Brai Flex 190 Supreme SBS Poly Granule         | 97 lb. roll       | ASTM D 5147                 | Granule surface, polyester reinforced, SBS modified asphalt membrane.                            |
| Brai Flex 190 FR Supreme SBS Poly Granule      | 105 lb. roll      | ASTM D 5147                 | Granule surface, polyester reinforced, fire resistant, SBS modified asphalt membrane.            |
| Brai Flex 250 FR Supreme Plus SBS Poly Granule | 105 lb. roll      | ASTM D 5147                 | Granule surface, polyester reinforced, fire resistant, SBS modified asphalt membrane.            |
| Brai Flex FR 4.5 Supreme SBS Glass Granule     | 105 lb. roll      | ASTM D 5147                 | Granule surface, fiberglass reinforced, fire retardant, SBS modified asphalt membrane.           |
| Brai Supreme SBS Dual FR                       | 69 lb. roll       | ASTM D 6164 Type II Grade G | Granule surface, polyester/fiberglass reinforced, fire resistant, SBS modified asphalt membrane. |
| Brai Supreme (Intec Flex) Dual FR              | 69 lb. roll       | ASTM D 6164 Type II Grade G | Granule surface, polyester/fiberglass reinforced, fire resistant, SBS modified asphalt membrane. |
| Intec Flex Dual FR                             | 69 lb. roll       | ASTM D 6164 Type II Grade G | 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.                            |
| Brai Supreme Flex Aluminum                     |                   | ASTM D 5147                 | Aluminum surface, reinforced membrane for flashing use only.                                     |
| Brai Supreme APP Walk Board                    | 3' x 3'           | Proprietary                 | Granule surface, APP modified asphalt membrane walkboard.  |
| Brai Supreme SBS Walk Board                    | 3' x 3'           | Proprietary                 | Granule surface, SBS modified asphalt membrane walkboard.  |
| Flex Asphalt, Asphalt Plus, Asphalt Lite       | various           | ASTM D 312                  | SEBS modified mopping asphalt.   |
| Brai Supreme/Permaglas Roofing Asphalt         | various           | ASTM D 312                  | Mopping Asphalt  |
| Matrix SBS Adhesive                            | various           | proprietary                 | Asphalt based, SBS modified cold adhesive.   |





| <u>Product</u>                      | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u>  |
|-------------------------------------|-------------------|---------------------------|---|
| 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.   |
| Brai Supreme Mini APP Smooth        | 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.                                      |

#### APPROVED INSULATIONS:

TABLE 2

| <u>Product Name</u>            | <u>Product Description</u>                                 | <u>Manufacturer (With Current NOA)</u> |
|--------------------------------|--|--|
| USIso Roof Insulation          | Polyisocyanurate foam insulation                           | US Intec, Inc.                         |
| USIso/Perlite                  | Polyisocyanurate foam /perlite composite insulation board. | US Intec, Inc.                         |
| BMCA EnergyGuard, RA           | Polyisocynurate foam insulation                            | BMCA                                   |
| BMCA EnergyGuard Composite, RA | Polyisocynurate/wood fiberboard or perlite composite       | BMCA                                   |
| BMCA Permalite                 | Perlite and tapered perlite insulation                     | BMCA                                   |
| BMCA Recover                   | Perlite recover board                                      | BMCA                                   |
| PYROX, White Line              | Polyisocyanurate foam insulation                           | Apache Products Co.                    |
| ACFoam I, II & Composite       | Polyisocyanurate foam insulation                           | Atlas Energy Products                  |
| Wood Fiber                     | Wood fiber insulation board                                | generic                                |
| High Density Wood Fiberboard   | Wood fiber insulation board                                | generic                                |
| Perlite Insulation             | Perlite insulation board                                   | generic                                |
| Dens Deck                      | Water resistant gypsum board                               | G-P Gypsum Corp.                       |



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**APPROVED INSULATIONS:**

**TABLE 2**

| <b>Product Name</b>                           | <b>Product Description</b>       | <b>Manufacturer<br/>(With Current NOA)</b> |
|---|----------------------------------|--|
| E'NRG'Y-2 & E'NRG'Y-2 PLUS,<br>UltraGard Gold | Polyisocyanurate foam insulation | Johns Manville                             |
| Multi-Max & FA                                | Polyisocyanurate roof insulation | RMax, Inc.                                 |

**APPROVED FASTENERS:**

**TABLE 3**

| <b>Fastener<br/>Number</b> | <b>Product<br/>Name</b>                 | <b>Product<br/>Description</b>                                   | <b>Dimensions</b> | <b>Manufacturer<br/>(With Current NOA)</b> |
|----------------------------|---|--|-------------------|--|
| 1.                         | Olympic CR Base<br>Felt Fastener        | Fastener assembly for<br>Base Sheet fastening only               |                   | Olympic Mfg. Group,<br>Inc.                |
| 2.                         | FM-30, FM-45, FM-60,<br>FM-90 Fasteners | Base ply fastening<br>systems for lightweight<br>concrete decks. |                   | ES Products, Inc.                          |

**EVIDENCE SUBMITTED:**

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



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**TYPICAL PROPERTIES:**

**DYNAMIC PULL-THROUGH PERFORMANCE**

| <b>Stress Plate</b>       | <b>Base Sheet</b>                   | <b>Dynamic Pull-Through Value (lbf.)</b> |
|---------------------------|-------------------------------------|--|
| Intec Drill-Tec           | Supreme Eliminator Nailable Venting | 67                                       |
|                           | WorkHorse Ultra Base                | 76                                       |
|                           | Brai Supreme SBS Glass Base         | 119                                      |
|                           | Brai Supreme SBS Glass Base HS      | 140                                      |
|                           | Brai Supreme SBS Base               | 126                                      |
|                           | Brai Supreme APP Smooth             | 165                                      |
| SFS Stadler Insul-Fixx S  | Supreme Eliminator Nailable Venting | 69                                       |
|                           | WorkHorse Ultra Base                | 73                                       |
|                           | Brai Supreme SBS Glass Base         | 109                                      |
|                           | Brai Supreme SBS Glass Base HS      | 185                                      |
|                           | Brai Supreme SBS Base               | 118                                      |
|                           | Brai Supreme APP Smooth             | 173                                      |
| SFS Stadler Isofast IF/IG | Supreme Eliminator Nailable Venting | 105                                      |
|                           | WorkHorse Ultra Base                | 88                                       |
|                           | Brai Supreme SBS Glass Base         | 120                                      |
|                           | Brai Supreme SBS Glass Base HS      | 188                                      |
|                           | Brai Supreme SBS Base               | 218                                      |
|                           | Brai Supreme APP Smooth             | 199                                      |
| Olympic Standard Metal    | Supreme Eliminator Nailable Venting | 59                                       |
|                           | WorkHorse Ultra Base                | 74                                       |
|                           | Brai Supreme SBS Glass Base         | 148                                      |
|                           | Brai Supreme SBS Glass Base HS      | 180                                      |
|                           | Brai Supreme SBS Base               | 105                                      |
|                           | Brai Supreme APP Smooth             | 170                                      |
| ITW Buildex Premium Metal | Supreme Eliminator Nailable Venting | 54                                       |
|                           | WorkHorse Ultra Base                | 92                                       |
|                           | Brai Supreme SBS Glass Base         | 124                                      |
|                           | Brai Supreme SBS Glass Base HS      | 204                                      |
|                           | Brai Supreme SBS Base               | 124                                      |
|                           | Brai Supreme APP Smooth             | 158                                      |
| CF Dekfast Hex Plate      | Supreme Eliminator Nailable Venting | 54                                       |
|                           | WorkHorse Ultra Base                | 92                                       |
|                           | Brai Supreme SBS Glass Base         | 124                                      |
|                           | Brai Supreme SBS Glass Base HS      | 222                                      |
|                           | Brai Supreme SBS Base               | 112                                      |
|                           | Brai Supreme APP Smooth             | 187                                      |

1 Dynamic Pull-Through Values determined in compliance with Roofing Application Standard RAS 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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**APPROVED ASSEMBLIES**

- Deck Type 4I:** Lightweight Concrete, Insulated, New Construction
- Deck Description:** Miami Dade Approved Cellular Lightweight Concrete
- System Type A:** Anchor sheet mechanically fastened, one or more layer of insulation adhered with approved asphalt.

**All General and System limitations apply.**

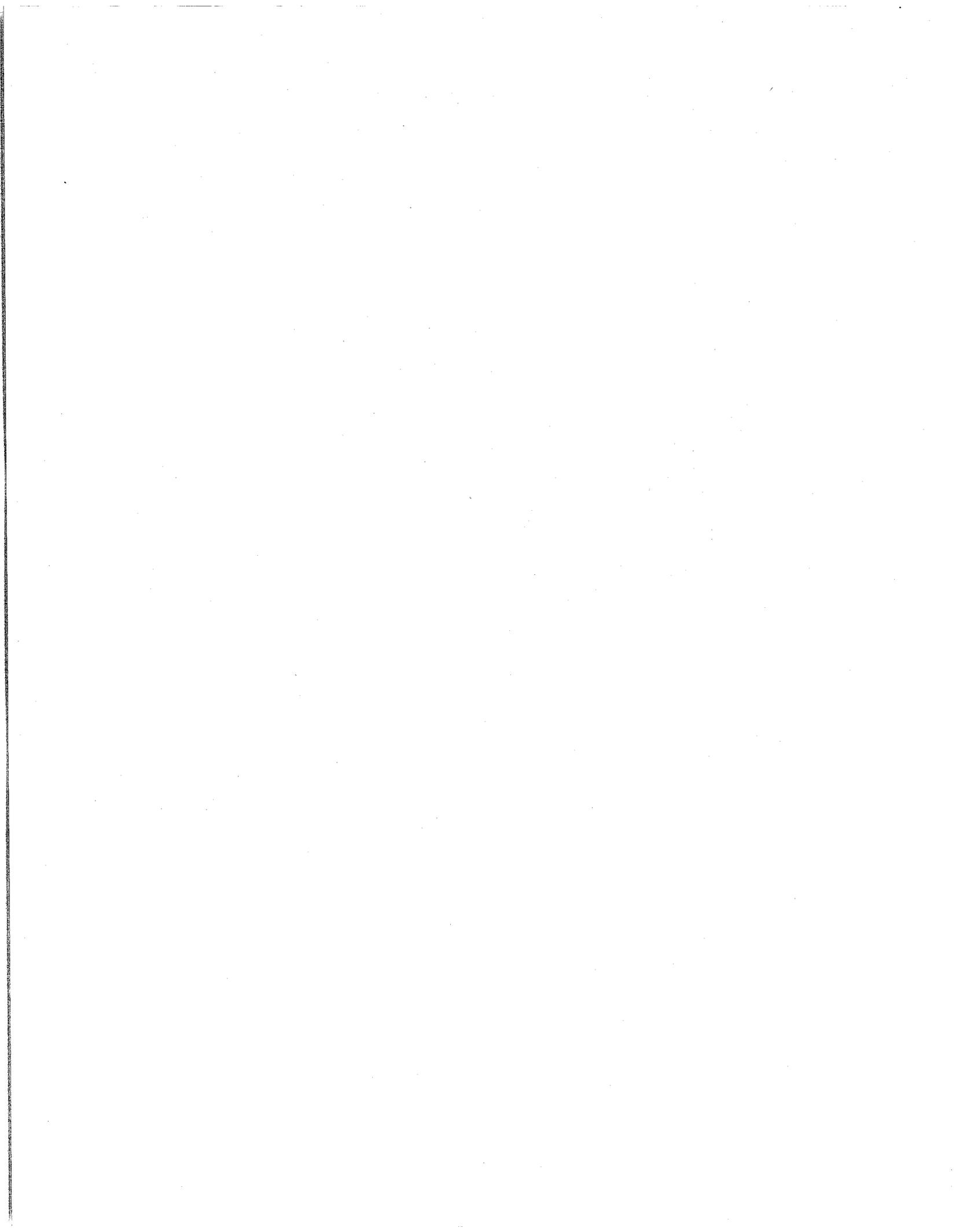
One or more layers of any of the following insulations:

| <b>Base Insulation Layer</b>   | <b>Insulation Fasteners</b> | <b>Fastener Density/ft<sup>2</sup></b> |
|--|-----------------------------|--|
| USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, EnergyGuard RA<br>Minimum 1.5" thick     | N/A                         | N/A                                    |
| USIso/Perlite Composite, EnergyGuard Composite, EnergyGuard RA Composite<br>Minimum 1.5" thick | N/A                         | N/A                                    |
| <b>Base or Top Insulation Layer</b>  | <b>Insulation Fasteners</b> | <b>Fastener Density/ft<sup>2</sup></b> |
| USIso/Perlite Composite, EnergyGuard Composite, EnergyGuard RA Composite<br>Minimum 1.5" thick | N/A                         | N/A                                    |
| BMCA Permalite<br>Minimum 3/4" thick   | N/A                         | N/A                                    |
| BMCA Permalite Recover<br>Minimum 1/2" thick   | N/A                         | N/A                                    |

**Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation 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.**

- Anchor Sheet:** WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Base, or or Supreme Eliminator Nailable Venting fastened to the deck as described below:
- Fastening:** Fasten anchor sheet with ES Products FM-90 fasteners, FM-60 fasteners with FM-30 disks or Olympic CR Base Felt Fasteners at a 4" side lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c. *(meets -45 psf - See General Limitation #7.)*  
*(minimum 300 psi cellular lightweight concrete):* Fasten anchor sheet with Olympic CR Base Felt Fasteners at a 4" side lap 10" o.c. and three rows staggered in the center of the sheet 10" o.c. *(meets -60 psf - See General Limitation #7.)*
- Base Sheet:** (Optional) WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base or Brai Supreme SBS Base adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.



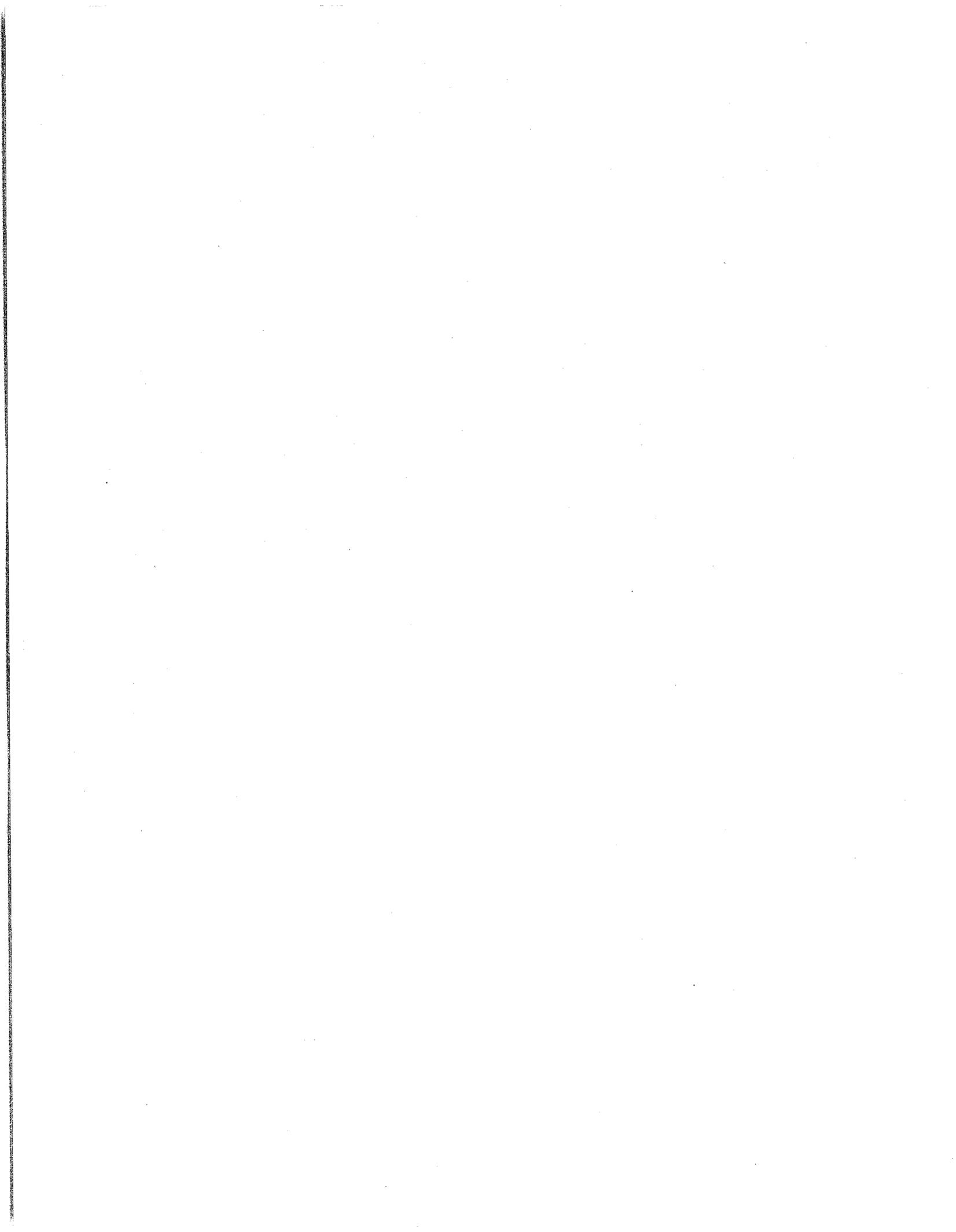


- Ply Sheet: Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Cap Sheet: (Optional) One ply of Ultra Cap or Ultra Cap Premier 730 adhered in full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Surfacing: (Required if no cap sheet is used) Install one of the following:
1. Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade Aluminum Roof Coating at 1.5 gal./sq..
  2. Flood coat of hot asphalt with an application rate of 60 lbs./sq.  $\pm$  20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
  3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

Maximum Design Pressure: See fastening requirements above



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**Deck Type 4I:** Lightweight Concrete, Insulated, New Construction

**Deck Description:** Celcore Cellular Lightweight Concrete

**System Type A(2):** Anchor sheet mechanically fastened, one or more layer of insulation adhered with approved asphalt.

**All General and System limitations apply.**

**Deck :** 18-22 ga steel Type B deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft on centers with 5/8" puddle welds. Rigid insulation panels shall be placed in a minimum 1/4" slurry-coat of insulating concrete and allowed to cure overnight. The following day the rigid insulation shall be covered with a minimum 2" topcoat cast of Celcore. After an additional cure time of 24 hours Celcore PVA Curing Compound was roller applied at a rate of 300 sq. ft/gal.

One or more layers of any of the following insulations:

| <b>Base Insulation Layer</b>   | <b>Insulation Fasteners</b> | <b>Fastener Density/ft<sup>2</sup></b> |
|--|-----------------------------|--|
| <b>USIso, Isotherm RA, Isotherm RN, EnergyGuard RA<br/>Minimum 1.5" thick</b>                          | N/A                         | N/A                                    |
| <b>USIso/Perlite Composite, EnergyGuard Composite, EnergyGuard RA Composite<br/>Minimum 1.5" thick</b> | N/A                         | N/A                                    |
| <b>Base or Top Insulation Layer</b>  | <b>Insulation Fasteners</b> | <b>Fastener Density/ft<sup>2</sup></b> |
| <b>USIso/Perlite Composite, EnergyGuard Composite, EnergyGuard RA Composite<br/>Minimum 1.5" thick</b> | N/A                         | N/A                                    |
| <b>BMCA Permalite<br/>Minimum 3/4" thick</b>   | N/A                         | N/A                                    |
| <b>BMCA Permalite Recover<br/>Minimum 1/2" thick</b>   | N/A                         | N/A                                    |

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation 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. US Intec requires a ply of Supreme Eliminator Perforated Venting or a layer of BMCA Permalite or wood fiber overlay board on all isocyanurate applications.

**Anchor Sheet:** WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth or Supreme Eliminator Nailable Venting fastened to the deck as described below:

**Fastening:** Fasten anchor sheet with Olympic CR Base Felt Fasteners and Discs at a 3" side lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c.





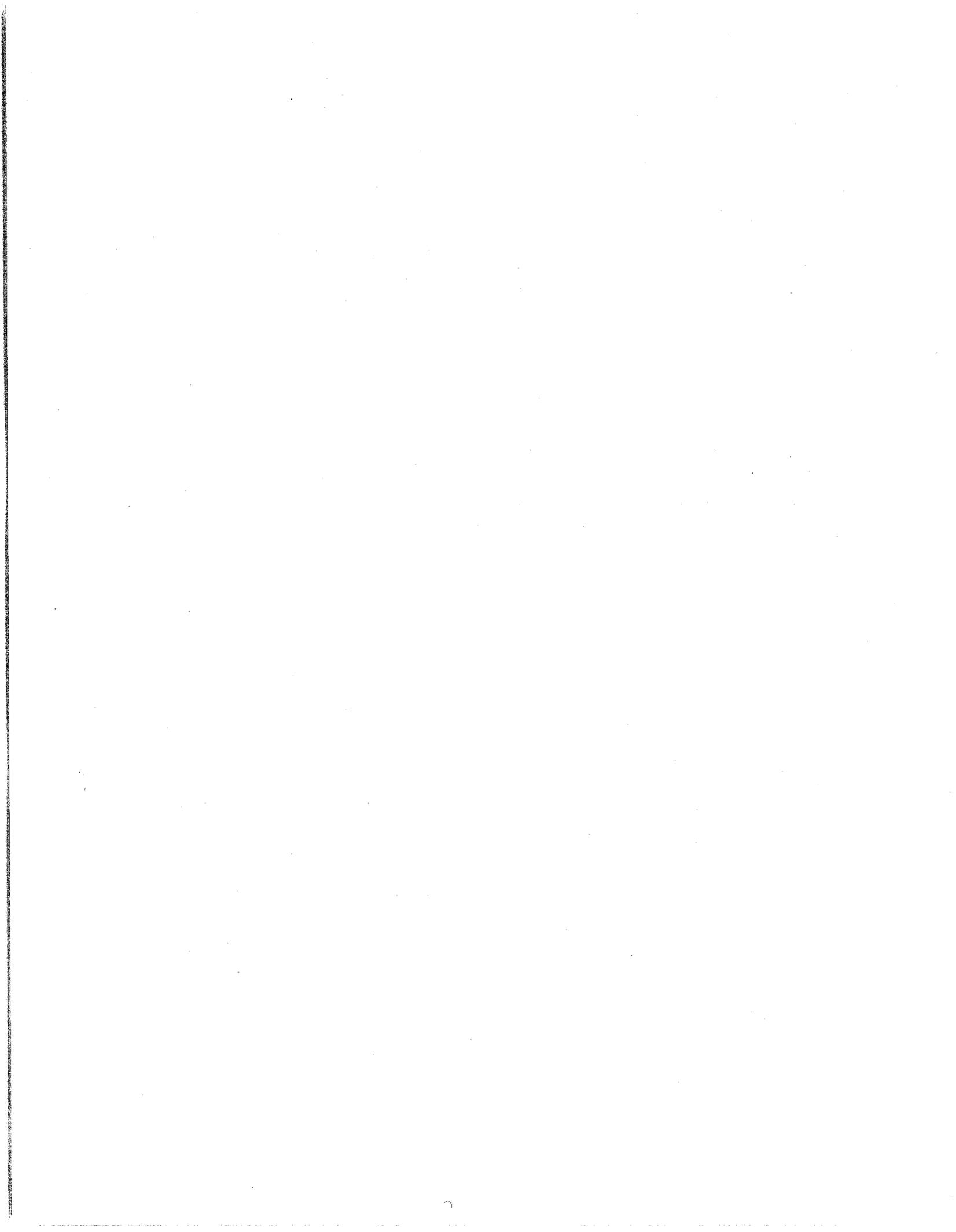
- Base Sheet: WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base or Brai Supreme SBS Base adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Ply Sheet: (Optional) Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Cap Sheet: (Optional) One ply of Ultra Cap or Ultra Cap Premier 730 adhered in full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.
- Surfacing: (Required if no cap sheet is used) Install one of the following:
1. Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade Aluminum Roof Coating at 1.5 gal./sq..
  2. Flood coat of hot asphalt with an application rate of 60 lbs./sq.  $\pm$  20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
  3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

Maximum Design  
Pressure:

-75 psf (See General Limitation #7)



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**Deck Type 4:** Lightweight Concrete, Insulated, New Construction  
**Deck Description:** Miami Dade Approved Cellular Lightweight Concrete  
**System Type E:** Base sheet mechanically fastened.

**All General and System limitations apply.**

**Base Sheet:** WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Base, or Supreme Eliminator Nailable Venting fastened to the deck as described below:

**Fastening:** Fasten anchor sheet with ES Products FM-90 fasteners, FM-60 fasteners with FM-30 disks or Olympic CR Base Felt Fasteners at a 4" side lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c. *(meets -45 psf - See General Limitation #7.)*

*(minimum 300 psi cellular lightweight concrete):* Fasten anchor sheet with Olympic CR Base Felt Fasteners at a 4" side lap 10" o.c. and three rows staggered in the center of the sheet 10" o.c. *(meets -60 psf - See General Limitation #7.)*

**Ply Sheet:** Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Cap Sheet:** (Optional) One ply of Ultra Cap or Ultra Cap Premier 730 adhered in full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Surfacing:** (Required if no cap sheet is used) Install one of the following:

1. Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade Aluminum Roof Coating at 1.5 gal./sq..
2. Flood coat of hot asphalt with an application rate of 60 lbs./sq.  $\pm$  20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

**Maximum Design Pressure:** See fastening requirements above



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**Deck Type 4:** Lightweight Concrete, Non-Insulated, New Construction

**Deck Description:** Elastizell Cellular Lightweight Concrete

**System Type E(2):** Base sheet mechanically fastened.

**All General and System limitations apply.**

**Deck :** Min. 22 ga., type B steel decking over ¼" thick steel supports spaced max. 5 ft. o.c. attached 6" o.c. using min. 5/8" diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 18" o.c. using Traxx/1 fasteners. Steel deck is covered with a Elastizell cellular lightweight concrete pour consisting of a 1/8" slurry coat, min. 1" thick Holey Board and a min. 2" thick top coat.

**Base Sheet:** WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Base, or or Supreme Eliminator Nailable Venting fastened to the deck as described below:

**Fastening:** Fasten base sheet thru lightweight concrete to the steel sheet with Drill-Tec Fasteners and Metal Plates at a 4" side lap 12" o.c. and two rows staggered in the center of the sheet 12" o.c.

**Ply Sheet:** Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Cap Sheet:** (Optional) One ply of Ultra Cap or Ultra Cap Premier 730 adhered in full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Surfacing:** (Required if no cap sheet is used) Install one of the following:

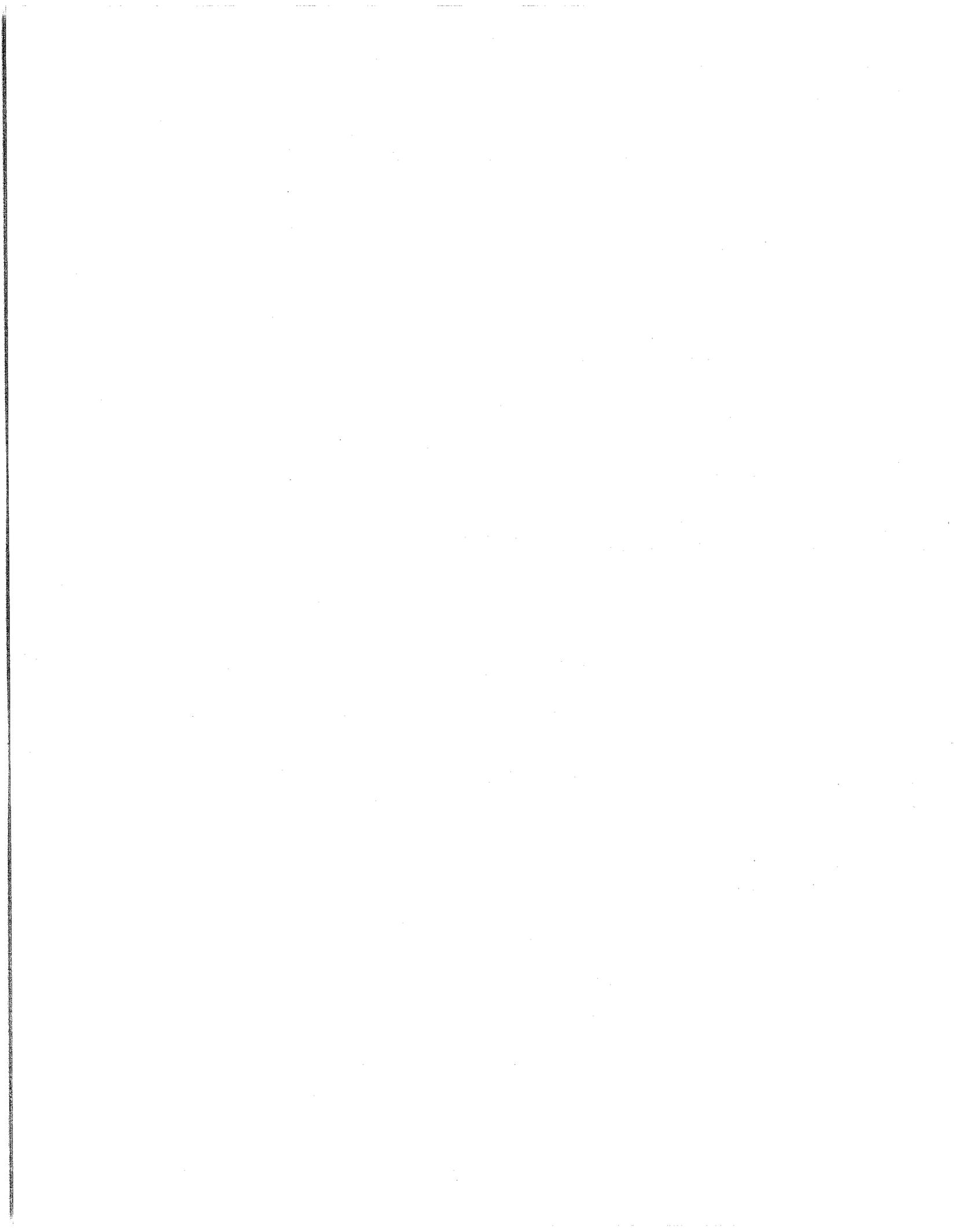
1. Matrix Weather Coat Emulsion with an application rate of 3 gal./sq. or Matrix Fibered Aluminum Roof Coating with an application rate of 1.5 gal./sq..
2. Flood coat of hot asphalt with an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

**Maximum Design Pressure:**

-75 psf (See General Limitation #7)



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**Deck Type 4:** Lightweight Concrete, Insulated, New Construction

**Deck Description:** Celcore Cellular Lightweight Concrete

**System Type E(3):** Base sheet mechanically fastened.

**All General and System limitations apply.**

**Deck :** 18-22 ga steel Type B deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft on centers with 5/8" puddle welds. Rigid insulation panels shall be placed in a minimum 1/4" slurry-coat of insulating concrete and allowed to cure overnight. The following day the rigid insulation shall be covered with a minimum 2" topcoat cast of Celcore. After an additional cure time of 24 hours Celcore PVA Curing Compound was roller applied at a rate of 300 sq. ft/gal.

**Base Sheet:** WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth or Supreme Eliminator Nailable Venting fastened to the deck as described below:

**Fastening:** Fasten anchor sheet with Olympic CR Base Felt Fasteners and Discs at a 3" side lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c.

**Ply Sheet:** Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Cap Sheet:** (Optional) One ply of Ultra Cap or Ultra Cap Premier 730 adhered in full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Surfacing:** (Required if no cap sheet is used) Install one of the following:

1. Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade Aluminum Roof Coating at 1.5 gal./sq..
2. Flood coat of hot asphalt with an application rate of 60 lbs./sq.  $\pm$  20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

**Maximum Design Pressure:** -75 psf (See General Limitation #7)



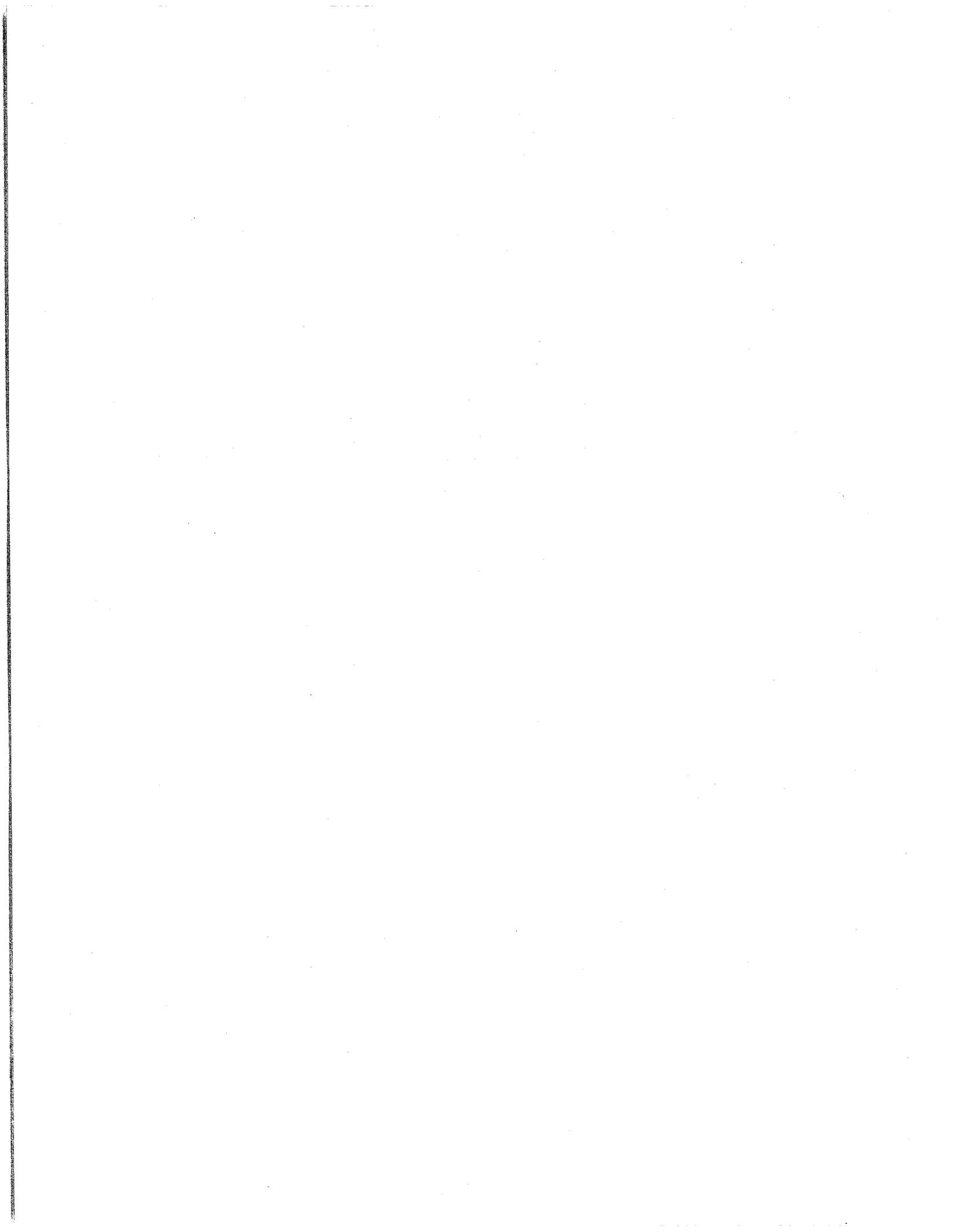
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## **LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:**

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine 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, calculations shall be signed and sealed by a Florida Registered Engineer, 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.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.





## 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 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 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. 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 with 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.)**

END OF THIS ACCEPTANCE



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