



**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)

**Hyload, Inc.
9976 Rittman Rd.
Wodsworth, OH 44281**

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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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 South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

DESCRIPTION: Coal Tar Elastomeric Membrane – Recover Deck

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 renews NOA No. 01-0919.06 and consists of pages 1 through 15.
The submitted documentation was reviewed by Jorge L. Acebo.



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Approval Date: 12/22/05
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: SBS
Deck Type: Recover
Maximum Design Pressure: -285 psf

TABLE 1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|--------------------|-------------------|---------------------------|---|
| H150E | 3' x 50' | ASTM D 5147 | Asphalt applied, smooth surfaced membrane. Surface may be finished with flood coat and aggregate. Membrane is black in color. |
| H250E | 5' x 50' | ASTM D 5147 | Cold adhesive applied, smooth surfaced membrane. Membrane is black in color. |
| Hyload WS | 3.33' x 50' | ASTM D 5147 | Self-adhered, smooth surfaced membrane with hot air welded seams. Membrane is black in color. |
| Hyload SAM | 3' x 50' | ASTM D 5147 | Self-adhered, smooth surfaced membrane with self-adhered seams. Membrane is black in color. |
| Alproof | 3' x 50' | ASTM D 5147 | Asphalt applied, smooth surfaced membrane with hot air welded seams. Membrane is white in color. |
| Alproof CP | 5' x 50' | ASTM D 5147 | Cold adhesive applied, smooth surfaced membrane with hot air welded seams. Membrane is white in color. |
| Alproof WS | 3.33' x 50' | ASTM D 5147 | Self-adhered, smooth surfaced membrane with hot air welded seams. Membrane is white in color. |
| Alpsam | 3' x 50' | ASTM D 5147 | Self-adhered, smooth surfaced membrane with self-adhered seams. Membrane is white in color. |
| Kwik Ply | 3' x 34' | ASTM D 5147 | Self-adhered, sanded surfaced base or interply membrane. |
| Kwik Ply Plus | 3' x 34' | ASTM D 5147 | Self-adhered, sanded surfaced base or interply membrane. |
| Kwik Ply Plus (WS) | 3' x 34' | ASTM D 5147 | Self-adhered, sanded surfaced base or interply membrane with welded seams. |
| HyBase | 3.33' x 50' | ASTM D 5147 | Mechanically attached or asphalt applied base or ply sheet. |
| HyBase SAM | 3' x 50' | ASTM D 5147 | Self-adhered base or ply sheet. |
| HyBase SAM VR | 3' x 50' | ASTM D 5147 | Self-adhered vapor retarder. |
| Kwik Base | 3.33' x 31' | ASTM D 5147 | Mechanically attached sanded surfaced base sheet. |
| Kwik Base SAM | 3' x 34' | ASTM D 5147 | Self-adhered base or ply sheet. |
| PMVB | | | Self-adhered vapor barrier. |



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TABLE 2
TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> | <u>Manufacturer</u> |
|-------------------------------------|--|---------------------------|---|---|
| JM-PermaPly 28 | 36' x 108'; 72 lb. roll | ASTM D 4601 | Type II asphalt impregnated and coated glass fiber base sheet | Johns Manville Corp. (with current NOA) |
| JM-Glas Base | 36" x 108'; roll weight: 84 lbs. | ASTM D 4601 | Type II asphalt impregnated and coated glass fiber base sheet | Johns Manville Corp. (with current NOA) |
| JM-Ventsulation | 36" x 36' | ASTM D 4897 Type II | Heavy duty fiber glass base sheet impregnated and coated on both sides. | Johns Manville Corp. (with current NOA) |
| GAFGLAS # 75 | 36" or 39-3/8" x 108' | ASTM D 4601 | G2 Fiberglass base sheet | GAF Materials Corp. (with current NOA) |
| GAFGLAS Stratavent Hydro Stop | 36" or 39-3/8" x 108' | ASTM D 4897 | Ventilated base sheet. Kraft/Foil Base Sheet | GAF Materials Corp. (with current NOA) Celotex Corp. (with current NOA) Celotex Corp. (with current NOA) |
| Channel Vent GB | | | | Celotex Corp. (with current NOA) |
| DekFast Fasteners and Plates | Various | PA 114 PA 117 | Insulation fasteners and stress plates | Construction Fasteners (with current NOA) |
| Accutrac | Various | PA 114 PA 117 | Insulation fasteners and stress plates | ITW Buildex (with current NOA) |
| Hextra | Various | PA 114 PA 117 | Insulation fasteners and stress plates | ITW Buildex (with current NOA) |
| Roofgrip | Various | PA 114 PA 117 | Insulation fasteners and stress plates | ITW Buildex (with current NOA) |
| Olympic Fasteners and Plates | Various | PA 114 PA 117 | Insulation fasteners and stress plates | Olympic (with current NOA) |
| Tru-Fast Fasteners and Plates | Various | PA 114 PA 117 | Insulation fasteners and stress plates | Tru-Fast Corp. (with current NOA) |
| Isofast IG | Various | PA 114 | Insulation fastener for wood decks | SFS Stadler (with current NOA) |
| Isofast IF/IG Plate | | PA 114 | Stress plate for use with Isofast fasteners | SFS Stadler (with current NOA) |
| Roofing Nails | Minimum # 12 | PA 114 | Corrosion resistant annular ring shank nails | Generic (with current NOA) |
| Tin Caps | Min. 32 Ga. x 1 ⁵ / ₈ " | | Corrosion resistant circular discs. | Generic (with current NOA) |
| ACFoam II | Various | PA 110 | Polyisocyanurate foam insulation | Atlas Energy Products (with current NOA) |
| E'NRG'Y-2 | Various | PA 110 | Polyisocyanurate foam insulation | Johns Manville Corp. (with current NOA) |
| Multi-Max FA | Various | PA 110 | Polyisocyanurate foam insulation | R-Max (with current NOA) |



| | | | | |
|----------------|---------------|------------|--|---------------------------------------|
| Dens-Deck | Min. ¼" thick | PA 110 | Gypsum insulation board | Georgia-Pacific (with current NOA) |
| Asphalt | | ASTM D 312 | Type III or IV Hot asphalt bitumen adhesive | Generic (with current NOA) |
| Asphalt Primer | | ASTM D 41 | Asphalt Primer | Generic (with current NOA) |

TABLE 3

FASTENERS:

| <u>Product</u> | <u>Descriptions</u> | <u>Dimensions</u> | <u>Manufacturer</u> |
|--|--|---|--|
| Olympic HD (with Steel plate) | Carbon Steel, CR-10 or Answer coating (black) | Various | Olympic Fasteners (with current NOA) |
| Olympic (with Standard plate) | Carbon Steel, CR-10 or Answer coating (black) | Various | Olympic Fasteners (with current NOA) |
| Dekfast 12 or 14 (with Hex plate) | Carbon Steel, Senti (black) | Various | Construction Fasteners, Inc. (with current NOA) |
| Dekfast SS (with 3" round plate) | Stainless Steel | #12, 1 ⁵ / ₈ " to 12 in. (40.1 to 30.5 cm) | Construction Fasteners, Inc. (with current NOA) |
| Dekfast Omega (with 3" round plate) | Stainless Steel, Carbon Steel tip, Senti (gray) | #14 dia. by 8 in. (203mm) max length | Construction Fasteners, Inc. (with current NOA) |
| Accu Trac (with Recessed plate) | Carbon Steel, SPEX (black) or Climaseal (blue) | #12 dia. By 8 in. (203mm) max length | ITW Buildex Corp. (with current NOA) |
| Accutrac (with Accu Trac plate) | Carbon Steel, SPEX (black) or Climaseal (blue) | #12 dia. By 8 in. (203mm) max length | ITW Buildex Corp. (with current NOA) |
| 12, 14 Roofgrip (with Flat Bottom Metal plate) | Carbon Steel, SPEX (blue, gray) or Climaseal (blue) | Various | ITW Buildex Corp. (with current NOA) |
| 12, 14 Roofgrip (with Recessed plate) | Carbon Steel, SPEX (blue, gray) or Climaseal (blue) | Various | ITW Buildex Corp. (with current NOA) |
| #15 Roofgrip (with Flat Bottom Metal plate) | Carbon Steel, SPEX (blue, gray) or Climaseal (blue, red) | #15 dia. by 14 in. (356mm) max.length. | ITW Buildex Corp. (with current NOA) |
| #15 Roofgrip (with Recessed plate) | Carbon Steel, SPEX (blue, gray) or Climaseal (blue, red) | #15 dia. by 14 in. (356mm) max.length. | ITW Buildex Corp. (with current NOA) |
| Isofast IG (with IF/IG Plates) | Coated Carbon | #14; 2-11.8 in.(50- 300 mm) long | SFS Stadler, Inc. (with current NOA) |
| Tru-Fast (with MP-3 plate) | Carbon Steel Tru-Kote Coating | Various | The Tru-Fast Corp. (with current NOA) |



TEST REPORTS

| <u>Test Agency/Identifier</u> | <u>Name</u> | <u>Report</u> | <u>Date</u> |
|--------------------------------------|--|--|--------------------|
| Factory Mutual Research Corporation | J.I. 0X8A3.AM | Wind Uplift Classification | 11/94 |
| | FM Approval Guide | Uplift Classifications | Published Annually |
| Underwriters Laboratories, Inc. | UL Roofing Materials and Systems Directory | File No. R10473 Fire Classification | Published Annually |
| Exterior Research & Design, LLC. | 9117.08.97-1 | Wind Uplift | 08.15.97 |
| Celotex Testing Center | Hyload physical properties | ASTM D 5147 Physical Property Testing | 11/97 |



SYSTEMS

Deck Type II: Recover

Deck Description: Wood

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

| <u>Insulation (Optional) Base Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|--|--|----------------------|
| One or more layers of the following: AC Foam II, E'NRG'Y-2, Multi-Max FA Minimum: 1.5" thick | N/A | N/A |

| <u>Insulation Base or Top Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|---|--|----------------------|
| One or more layers of the following: Minimum: ¼" thick | Dens Deck 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 ft². Please refer to Roofing Application Standard PA 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: One or more plies of GAFGLAS #75 fastened to the deck as described below:

Fastening: Base sheet shall be lapped 4" and fastened with approved roofing nails and tin caps 9" o.c. in the lap and two rows staggered in the center of the sheet 12" o.c.

Base Sheet: One or more plies Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate

Ply Sheet: (Optional) One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.



Membrane: One or more plies of 150 E, 250 E, Alproof 150 or Alproof CP applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Hyload SAM, Hyload WS, Hysam Black, Hysam White or PVMB self-adhered to the properly primed substrate.

Surfacing: (Optional) Gravel at 400 lbs./sq. applied in flood coat of hot asphalt applied at 50 to 60 lbs./sq.

Note: All surfaces to receive self-adhered membrane shall be properly primed with ASTM D 41 primer.

Maximum Design Pressure: -45.0 psf (See General Limitation #7)



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Deck Type 1I: Recover

Deck Description: Wood/Steel/Concrete

System Type A(2): One or more layers of insulation adhered to primed substrate or to vapor retarer with approved asphalt.

All General and System Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|---|--|----------------------|
| One or more layers of the following: AC Foam II, E'NRG'Y-2, Multi-Max FA Minimum: 1.5" | N/A | N/A |

| <u>Insulation Top Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|---|--|----------------------|
| One or more layers of the following: ConPerl, Fesco Board, GAFTEMP Permalite Minimum: ¾" | N/A | N/A |

| | | |
|--|-----|-----|
| Armor Board High Density, BP High Strength, FM-90 Traffic Top/High Density, ERS Redi-Deck, Fiber Top C, E, S, GAFTEMP High Density, Roof Insulation Board, High Density Wood Fiberboard, Sturdi-Top, Fiber Base HD1 or HD6 Minimum: ½" | N/A | N/A |
|--|-----|-----|

| | | |
|---------------------------------|-----|-----|
| Dens Deck Minimum: ¼" | N/A | N/A |
|---------------------------------|-----|-----|

Note: Existing roof surface 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 mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to 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.

Vapor Barrier: (Optional) One or more plies of #15 felt applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM or PMVB self-adhered to the primed deck.

Base Sheet: One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.



Ply Sheet: (Optional) One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.

Membrane: One or more plies of 150 E, 250 E, Alproof 150 or Alproof CP applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Hyload SAM, Hyload WS, Hysam Black, Hysam White or PVMB self-adhered to the properly primed substrate.

Surfacing: (Optional) Gravel at 400 lbs./sq. applied in flood coat of hot asphalt applied at 50 to 60 lbs./sq.

Note: All surfaces to receive self-adhered membrane shall be properly primed with ASTM D 41 primer.

Maximum Design Pressure: -127.5 psf (for polyisocyanurate with GAFTEMP Permalite top layer over concrete deck) (See General Limitation #9)

-285.0 psf (for polyisocyanurate with High Density Wood Fiberboard top layer over concrete deck) (See General Limitation #9)

-152.5 psf (for polyisocyanurate with Dens Deck top layer over concrete deck) (See General Limitation #9)

-45.0 psf (for all other insulation combinations and deck types) (See General Limitation #9)



Deck Type II: Recover

Deck Description: Wood/Steel/Concrete

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

All General and System Limitations apply.

| <u>Insulation Base Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|--|--|--------------------------------------|
| One or more layers of the following: AC Foam II, E'NRG'Y-2, Multi-Max FA Minimum: 1.5" | 1:2 | See any approved fastener in table 3 |

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

| <u>Insulation Top Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|--|--|----------------------|
| High Density Wood Fiberboard Minimum: ½" | N/A | N/A |
| Dens Deck Minimum: ¼" | N/A | N/A |

Note: Apply top layer of insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as the base layer only shall be used only as the base layer 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:** One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.
- Ply Sheet:** (Optional) One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.
- Membrane:** One or more plies of 150 E, 250 E, Alproof 150 or Alproof CP applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Hyload SAM, Hyload WS, Hysam Black, Hysam White or PVMB self-adhered to the properly primed substrate.



Surfacing: (Optional) Gravel at 400 lbs./sq. applied in flood coat of hot asphalt applied at 50 to 60 lbs./sq.

Note: All surfaces to receive self-adhered membrane shall be properly primed with ASTM D 41 primer.

Maximum Design Pressure: -52.5 psf (for SFS Isofast in wood decking)
(See General Limitation #7)

-45.0 psf (for Olympic HD in steel or concrete decking)
(See General Limitation #7)



Deck Type II: Recover

Deck Description: Wood/Steel/Concrete

System Type C: All layers of insulation simultaneously attached.

All General and System Limitations apply.

| <u>Insulation(Optional) Base Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|---|--|----------------------|
| One or more layers of the following: AC Foam II, Hy-Therm AP, Hy-Tec, Pyrox, E'NRG'Y-2, Shelterglass FM, Multi-Max FA Minimum: 1.2" | N/A | N/A |

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

| <u>Insulation(Optional) Top Layer</u> | <u>Fastener Density ft²</u> | <u>Fastener Type</u> |
|--|--|--------------------------------------|
| One or more layers of the following: ConPerl, GAFTEMP Permalite, Fesco Board Minimum: 1" | 1:2 | See any approved fastener in table 3 |

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 Testing Application Standard TAS 105 to confirm compliance with the wind load requirements Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.

Ply Sheet: (Optional) One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.

Membrane: One or more plies of 150 E, 250 E, Alproof 150 or Alproof CP applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Hyload SAM, Hyload WS, Hypsam Black, Hypsam White or PVMB self-adhered to the properly primed substrate.

Surfacing: (Optional) Gravel at 400 lbs./sq. applied in flood coat of hot asphalt applied at 40-50 lbs./sq.

Note: All surfaces to receive self-adhered membrane shall be properly primed with ASTM D 41 primer.

Maximum Design Pressure: -45.0 psf (See General Limitation #7)



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Deck Type II: Recover
Deck Description: Wood
System Type E: Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One or more plies of GAFGLAS #75 fastened to the deck as described below:
Fastening: Base sheet shall be lapped 4" and fastened with approved roofing nails and tin caps 9" o.c. in the lap and two rows staggered in the center of the sheet 9" o.c.
Ply Sheet: Minimum two plies of Approved ASTM D 4601, type II fiberglass base sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane: One or more plies of 150 E, 250 E, Alproof 150 or Alproof CP applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Hyload SAM, Hyload WS, Hysam Black, Hysam White or PVMB self-adhered to the properly primed substrate.
Surfacing: (Optional) Gravel at 400 lbs./sq. applied in flood coat of hot asphalt applied at 50 to 60 lbs./sq.

Note: All surfaces to receive self-adhered membrane shall be properly primed with ASTM D 41 primer.

Maximum Design Pressure: -45.0 psf (See General Limitation #7.)



Deck Type II: Recover
Deck Description: Wood/Steel/Concrete
System Type F: Base sheet adhered to primed substrate.

All General and System Limitations apply.

Base Sheet: One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.

Ply Sheet: (Optional) One or more plies of Approved ASTM D 4601, type II fiberglass base sheet or ASTM D 2178, type IV ply sheet applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of HyBase SAM self-adhered to the properly primed substrate.

Membrane: One or more plies of 150 E, 250 E, Alproof 150 or Alproof CP applied in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Hyload SAM, Hyload WS, Hysam Black, Hysam White or PVMB self-adhered to the properly primed substrate.

Surfacing: (Optional) Gravel at 400 lbs./sq. applied in flood coat of hot asphalt applied at 50 to 60 lbs./sq.

Note: All surfaces to receive self-adhered membrane shall be properly primed with ASTM D 41 primer.

Maximum Design Pressure: -45.0 psf (for all other deck types) (See General Limitation #9)
-452.5 psf (for asphalt adhered base sheets over concrete deck)
(See General Limitation #9)
-115.0 psf (for self-adhered base sheets over concrete deck)
(See General Limitation #9)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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 insulation 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 to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

END OF THIS ACCEPTANCE



NOA No.: 05-0823.09
Expiration Date: 01/10/11
Approval Date: 12/22/05
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