Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Insulated

Deck Description: Nominal 1" x 6" wood plank or greater attached with two (2) 8d nails to wood supports spaced a maximum 24" o.c.

System Type D(3): All layers of insulation and base sheet simultaneously attached.

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

Fire Barrier: (Optional) Atlas Roofing Corporation FR-10 or FR-50, GAF VersaShield Solo, ¼" DensDeck, ¼" SECUROCK loose laid

One or more layers of the following insulations:

Base Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
Any Approved EPS or XPS listed in Table 2. Minimum ½" thick		

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam II, ACFoam III, Duro-Guard ISO II-A, Duro-Guard ISO III-A, ENRGY 3, H-Shield, Duro-Guard ISO II-H, Duro-Guard ISO HD-G Minimum 1½" thick	N/A	N/A

Note: Insulation layer above shall be mechanically attached with preliminary fastening. All Insulation panels shall be mechanically fastened along with the roof membrane as specified below. See Roofing Application Standard RAS 117 for fastening details.

Membrane with 25" tabs: Duro-Last membrane shall be mechanically attached at its 6" wide tabs, spaced every 25" o.c. with Duro-Last #15 Extra Heavy Duty Drill Point fastener with Duro-Last Cleat Plates or OMG Eyehook Accuseam Plate spaced 6" o.c. maximum, through the insulation and into the deck. Duro-Last Tab Sealer 4725 shall be applied over the tab membrane and to the overlying membrane underside at a rate of 60 ft²/gal (two-sided application). Laps are sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -97.5 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank attached 6" o.c. with 8d nails to wood supports spaced a maximum 32" o.c.

System Type D(4): All layers of insulation and base sheet simultaneously attached.

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

Thermal Barrier: (Optional) Atlas Roofing Corporation FR-10 or FR-50, GAF VersaShield Solo, ¼" DensDeck, ¼" SECUROCK loose laid

One or more layers of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board Minimum 1/4" thick	N/A	N/A
Duro-Fold Underlayment Board Minimum 3/8" thick	N/A	N/A
Duro-Guard EPS, Cellofoam Type IX EPS Insulation, Insulfoam EPS, Kingspan Greengard Insulation Board CM, Duro-Guard ISO II-G, Insulfoam R-Tech Fan Fold, Duro-Guard ISO HD-A, Duro-Guard ISO HD-H, Duro-Guard ISO HD-G Minimum ½" thick	N/A	N/A
DEXcell Cement Roof Board Minimum 7/16" thick	N/A	N/A
Duro-Guard ISO II-A, Duro-Guard ISO II-H, Duro-Guard EPS FGF Minimum 1" thick	N/A	N/A

Note: Insulation layer above shall be mechanically attached with preliminary fastening. All Insulation panels shall be mechanically fastened along with the roof membrane as specified below. See Roofing Application Standard RAS 117 for fastening details.

Membrane: Minimum 50 mil Duro-Tuff membrane shall be mechanically attached at its 6" wide tabs, spaced every 54" o.c. with Duro-Last #15 Extra Heavy Duty Drill Point Fasteners and Duro-Last Poly Plates spaced12" o.c. The 6" wide side laps are sealed with a 1-1/2" wide heat weld.

Maximum Design Pressure: -45 psf (See General limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank attached 6" o.c. with 8d nails to wood supports spaced a maximum 24" o.c.

System Type D(5): All layers of insulation and base sheet simultaneously attached.

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

Thermal Barrier: (Optional) Atlas Roofing Corporation FR-10 or FR-50, GAF VersaShield Solo, ¼" DensDeck, ¼" SECUROCK loose laid

One or more layers of the following insulations:

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board Minimum 1/4" thick	N/A	N/A
Duro-Fold Underlayment Board Minimum 3/8" thick	N/A	N/A
Duro-Guard EPS, Duro-Guard ISO II-G, R-TECH Fan Fold, Duro-Guard ISO HD-A, Duro-Guard ISO HD-H, Duro-Guard ISO HD-G Minimum ½" thick	N/A	N/A
DEXcell Cement Roof Board Minimum 7/16" thick	N/A	N/A
Duro-Guard ISO II-A, Duro-Guard ISO II-H, Duro-Guard EPS FGF Minimum 1" thick	N/A	N/A

Note: Insulation layer above shall be mechanically attached with preliminary fastening. All Insulation panels shall be mechanically fastened along with the roof membrane as specified below. See Roofing Application Standard RAS 117 for fastening details.

Membrane: Minimum 50 mil Duro-Tuff membrane shall be mechanically attached at its 6" wide tabs, spaced every 114" o.c. with Duro-Last #15 Extra Heavy Duty Drill Point Fasteners and Duro-Last Poly Plates spaced 6" o.c. fasteners centered 2" from tab edge. The 6" wide side laps are sealed with a 1-1/2" wide heat weld.

Maximum Design Pressure: -45 psf (See General limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank attached 6" o.c. with 8d nails to wood supports spaced a maximum 32" o.c.

System Type D(6): All layers of insulation and base sheet simultaneously attached.

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

Fire Barrier: (Optional) Atlas Roofing Corporation FR-10 or FR-50, GAF VersaShield Solo, ¼" DensDeck, ¼" SECUROCK loose laid

One or more layers of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board Minimum 1/4" thick	N/A	N/A
Duro-Fold Underlayment Board Minimum 3/8" thick	N/A	N/A
Duro-Guard EPS, Cellofoam Type IX EPS Insulation, Insulfoam EPS, Kingspan Greengard Insulation Board CM, Duro-Guard ISO II-G, R-TECH Fan Fold, Duro-Guard ISO HD-A, Duro-Guard ISO HD-H, Duro-Guard ISO HD-G Minimum ½" thick	N/A	N/A
DEXcell Cement Roof Board Minimum 7/16" thick	N/A	N/A
Duro-Guard ISO II-A, Duro-Guard ISO II-H, Duro-Guard EPS FGF Minimum 1" thick	N/A	N/A

Note: Insulation layer above shall be mechanically attached with preliminary fastening. All Insulation panels shall be mechanically fastened along with the roof membrane as specified below. See Roofing Application Standard RAS 117 for fastening details.

Membrane: Minimum 50 mil Duro-Tuff membrane shall be mechanically attached at its 6" wide tabs, spaced every 114" o.c. with Duro-Last #15 Extra Heavy Duty Drill Point Fasteners and Duro-Last Poly Plates spaced 6" o.c. The 6" wide side laps are sealed with a 1-1/2" wide heat weld

Maximum Design Pressure: -52.5 psf (See General limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank attached 6" o.c. with 8d nails to wood supports spaced a maximum 24" o.c.

System Type D(7): All layers of insulation and base sheet simultaneously attached.

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

Fire Barrier: (Optional) Atlas Roofing Corporation FR-10 or FR-50, GAF VersaShield Solo, ¼" DensDeck, ¼" SECUROCK loose laid

One or more layers of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board Minimum 1/4" thick	N/A	N/A
Duro-Fold Underlayment Board Minimum 3/8" thick	N/A	N/A
Duro-Guard EPS, Duro-Guard ISO II-G, R-TECH Fan Fold, Duro-Guard ISO HD-A, Duro-Guard ISO HD-H, Duro-Guard ISO HD-G Minimum ½" thick	N/A	N/A
DEXcell Cement Roof Board Minimum 7/16" thick	N/A	N/A
Duro-Guard ISO II-A, Duro-Guard ISO II-H, Duro-Guard EPS FGF Minimum 1" thick	N/A	N/A

Note: Insulation layer above shall be mechanically attached with preliminary fastening. All Insulation panels shall be mechanically fastened along with the roof membrane as specified below. See Roofing Application Standard RAS 117 for fastening details.

Membrane: Minimum 50 mil Duro-Tuff membrane shall be mechanically attached at its 6" wide tabs, spaced every [illegible] o.c. with Duro-Last #15 Extra Heavy Duty Drill Point Fasteners and Duro-Last Poly Plates spaced 6" o.c. fasteners centered [illegible]/4" from tab edge. The 6" wide side laps are sealed with a 1-1/2" wide heat weld.

Maximum Design Pressure: -[illegible]7.5 psf (See General limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1: Wood, Non-Insulated

Deck Description: 19/32" or greater plywood or wood plank fastened with ¼" x 2" self-tapping hex head screws at maximum 12" spacing to supports having a maximum 24" o.c. span.

System Type E(1): Membrane mechanically attached through optional barriers to structural deck supports.

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

Separation Sheet: (Optional) One ply of Duro-Blue Separation Slip Sheet or Duro-Weave Separation Slip Sheet applied as per manufacturers installation instructions.

Vapor Barrier: (Optional) Any UL or FM approved vapor barrier.

Fire Barrier: (Optional) Atlas Roofing Corporation FR-10 or FR-50, GAF VersaShield Solo, ¼" DensDeck, ¼" SECUROCK. ½" thick UL Classification Type X Gypsum with a moisture resistant facer and core, or a second sheet of vapor barrier board may be used over this deck (see General Limitation #1).

Membrane with 120" tabs: Duro-Last membrane shall be mechanically attached into the wood supports at the 6" tabs, spaced every 120" with Duro-Last #14 HD Fasteners and Duro-Last Poly Plates or Cleat-Plates spaced 6" o.c. maximum. Laps are sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Membrane with 60" tabs: Duro-Last membrane shall be mechanically attached into the wood supports at the 3" tabs, spaced every 60" with Duro-Last #14 HD Fasteners and Duro-Last Poly Plates or Cleat-Plates spaced 6" o.c. maximum. Laps are sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Membrane with 120" tabs: Duro-Last membrane shall be mechanically attached into the wood supports at the 6" tabs, spaced every 120" with Duro-Last #14 HD Fasteners and Duro-Last Poly Plates or Cleat-Plates spaced 6" o.c. maximum. Duro-Last Tab Sealer 4725 shall be applied over the membrane and to the overlying membrane underside at a rate of 30 ft2/gal (two-sided application) Laps are sealed with a minimum 1.5" wide heat weld.
Maximum Design Pressure -82.5 psf. (See General Limitation #7)

Maximum Design Pressure: See fastening above

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Non-Insulated

Deck Description: 19/32" plywood or wood plank with supports at a maximum spacing of 24" o.c.

System Type E(2): Membrane induction welded to mechanically attached fire barrier over existing single ply membrane roof

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

Fire Barrier: GAF VersaShield Solo fastened as below

Membrane: Fire barrier shall be through fastened to the wood supports with the fastener and plate listed below. The Duro-Last membrane, Duro-Last EV membrane or the Duro-Tuff membrane shall be welded to the Duro-Bond Plates in the manner and the spacing specified below.

Fastening: Fire barrier shall be mechanically attached in a 1.5 ft x 2 ft staggered grid with Duro-Bond Plates 1302 and Duro-Last #15 Extra Heavy Duty Drill Point Fasteners. The Duro-Last membrane, Duro-Last EV membrane or Duro-Tuff membrane is welded to the Duro-Bond Plate 1302 with RhinoBond Welder. Laps are sealed with a minimum 1-1/2" wide heat weld.

Maximum Design Pressure: -45 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Non-Insulated

Deck Description: 15/32" or greater plywood or wood plank secured with 0.113-inch x 2⅜" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.

System Type E(3): Membrane mechanically fastened.

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

Membrane: Minimum 50 mil Duro-Tuff membrane shall be mechanically attached at its 6" wide tabs, in rows spaced 24" o.c. with Duro-Last #15 Extra Heavy Duty Drill Point Fasteners and Duro-Last Poly Plates. The 6" wide side laps are sealed with a 1-1/2" wide heat weld.

Maximum Design Pressure: -60 psf. (See General Limitation #7)

Membrane Type: Single Ply, PVC

Deck Type 1I: Wood, Non-Insulated

Deck Description: 15/32" or greater plywood or wood plank secured with 0.113-inch x 2⅜" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.

System Type E(4): Membrane mechanically fastened.

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

Membrane: Minimum 40 mil Duro-Last membrane shall be mechanically attached along the tab 6" o.c. with Duro-Last #15 Extra Heavy Duty Drill Point Fasteners and Duro-Last Poly Plates. The 3" wide side laps are spaced 28" o.c and sealed with a 1" wide heat weld.

Maximum Design Pressure: -60 psf. (See General Limitation #7)

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 [illegible] in three rows, one at each sidelap and one down the center of the sheet allowing a continuous [illegible] ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' [illegible] 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 Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform 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.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

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REVISIONS:

ISSUE DATE:

1	ISSUED FOR BID & PERMIT	12-11-18
2	BID SET	01-30-19

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