

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786)315-2590 F (786) 315-2599

www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)

DURO-LAST Roofing, Inc. 525 Morley Drive Saginaw, MI 48601

SCOPE:

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

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

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

DESCRIPTION: DURO-LAST Single Ply PVC Roof Systems over Cementitious Wood Fiber 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 renews and revises NOA No. 14-0325.12 and consists of pages 1 through 17. The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY
APPROVED

NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 1 of 17

ROOFING SYSTEM APPROVAL

Category:RoofingSub-Category:Single PlyMaterial:PVC

<u>Deck Type:</u> Cementitious Wood Fiber

Maximum Design Pressure: -150 psf.

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

ProductDimensionsSpecificationDescriptionDuro-Last Membrane37 mil thick, Various widths x 150 ft. rollsASTM D4434PVC polymer blend polyester reinforced roofing membrane.Duro-Last Membrane45 mil thick, Various widths x 100 ft. rollsASTM D4434PVC polymer blend polyester reinforced roofing membrane.Duro-Last Membrane57 mil thick, Various widths x Various widths xASTM D4434 PVC polymer blend polyester reinforced roofing membrane.
Various widths x 150 ft. rolls Duro-Last Membrane 45 mil thick, Various widths x 100 ft. rolls Duro-Last Membrane 57 mil thick, ASTM D4434 PVC polymer blend polyester reinforced roofing membrane. PVC polymer blend polyester reinforced PVC polymer blend polyester reinforced roofing membrane.
Duro-Last Membrane 150 ft. rolls 45 mil thick, Various widths x 100 ft. rolls Duro-Last Membrane 57 mil thick, ASTM D4434 PVC polymer blend polyester reinforced roofing membrane. PVC polymer blend polyester reinforced PVC polymer blend polyester reinforced
Duro-Last Membrane 45 mil thick, Various widths x 100 ft. rolls Duro-Last Membrane 57 mil thick, ASTM D4434 PVC polymer blend polyester reinforced roofing membrane. ASTM D4434 PVC polymer blend polyester reinforced PVC polymer blend polyester reinforced
Various widths x roofing membrane. 100 ft. rolls Duro-Last Membrane 57 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
Duro-Last Membrane 100 ft. rolls 57 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
Duro-Last Membrane 57 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
, 1 , 1
100 ft. rolls
Duro-Last Designer 45 mil thick ASTM D4434 PVC polymer blend polyester reinforced
Series Membrane Various widths & roofing membrane: Rock-Ply & Shingle-
lengths Ply.
Duro-Fleece Membrane 47 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
Various widths x fleece backed roofing membrane.
100 ft rolls
Duro-Fleece Membrane 56 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
Various widths x fleece backed roofing membrane.
Duro-Fleece Membrane 100 ft rolls 80 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
Various widths x Various widths x ASTW D4434 FVC polymer blend polyester reinforced fleece backed roofing membrane.
100 ft rolls
Duro-Fleece Plus 47 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
Membrane Various widths x fleece backed roofing membrane.
100 ft rolls
Duro-Fleece Plus 56 mil thick, ASTM D4434 PVC polymer blend polyester reinforced
Membrane Various widths x fleece backed roofing membrane.
100 ft rolls
Duro-Tuff Membrane 45 mil thick ASTM D4434 PVC polymer blend polyester reinforced
Vaious widths x fleece backed roofing membrane.
Duro-Tuff Membrane 100 ft rolls 57 mil thick ASTM D4434 PVC polymer blend polyester reinforced
Duro-Tuff Membrane 57 mil thick ASTM D4434 PVC polymer blend polyester reinforced various widths x roofing membrane.
100 ft rolls
Duro-Tuff Membrane 80 mil thick ASTM D4434 PVC polymer blend polyester reinforced
Various widths x roofing membrane.
65 ft rolls



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 2 of 17

		Test	Product
Product	Dimensions	Specification	Description
Duro-Last EV	53 mil thick Various widths x 100 ft rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane with KEE films.
Duro-Last EV	60 mil thick Various widths x 100 ft rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane with KEE films.
Duro-Last Fascia Bar	1 ³ / ₄ " x 10'; 4" x 10'	N/A	Extruded vinyl drip edge with holes punched 8" o.c.
Duro-Last Fascia Bar Cover	1 ³ / ₄ " x 10'; 4" x 10'	N/A	Extruded decorative cover for Duro-Last Fascia Bar
Duro-Last Fascia	2" & 4"	TAS 111	Kynar finish Galvalume, 24 ga., cover
Duro-Last Snap Coping	12"	TAS 111	Kynar finish Galvalume, 24 ga., coping
Duro-Last 2-Piece Metal "T-Edge"	N/A	TAS 111	Kynar finish Galvalume, 24 ga., with vinyl skirt
Duro-Last 2-Piece Compression Edge	N/A	TAS 111	Kynar finish Galvalume, 24 ga.
Duro-Last Drip Edge	2" face x 10'; 4" face x 10';	N/A	Extruded vinyl drip edge with holes punched 8" o.c.
Duro-Last Two-Way Roof Vents	N/A	N/A	Injection molded two-way roof vents with a Duro-Last membrane skirt.
Duro-Last Gravel Stop	2" face x 10'; 4" face x 10';	N/A	Extruded vinyl gravel stop with holes punched 8" o.c.
Roof-Trak III Walk Pads	30" x 60" .125" thick	N/A	Extruded vinyl walk way pads manufactured from Duro-Last membrane.
Duro-Fleece CR-20 Membrane Adhesive	40 lb. Cylinder A 35 lb. Cylinder B	N/A	Two-component membrane adhesive.
Duro-Grip CR-20 Adhesive	40 lb. Cylinder A 35 lb. Cylinder B	Propritary	Dual component, low-rise polyurethane foam adhesive.
Duro-Grip OlyBond 500	10 gal.	N/A	Dual-component polyurethane adhesive
Duro-Grip WeatherTite One Step	Four 1.5 Liter Cartridges	Proprietary	Insulation Adhesive
Duro-Grip InstaStik	30 lb unit	Proprietary	Single component, moisture cured polyurethane adhesive.
Duro-Last WB II Adhesive	5 gal. pail	Propritary	Polymeric waterborne membrane adhesive.
Duro-Last SB IV	5 gal. pail	Propritary	Low VOC solvent-based membrane adhesive
Duro-Last Tab Sealer 4725	N/A	N/A	Solvent-based contact-bonding agent.
Duro-Blue Separation Slip Sheet	4 mil x 20' x 360'; 4 mil x 20'x 100'	N/A	Separation slip sheet produced from coextruded polyethylene film.



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 3 of 17

<u>Product</u>	<u>Dimensions</u>	Test Specification	Product <u>Description</u>
Duro-Last Duro-Weave Separation Slip Sheet	2.5 mil x 12' x 328'	N/A	Separation slip sheet produced from high density polyethylene tapes and coated on one side with low density polyethylene.
Duro-Last Accessories	Various	ASTM D 4434	Custom fabricated accessories for parapets and penetrations: Curb flashing, Inside & Outside Corner, Scuppers, Drain Boot, Parapet Flashing, Stack Flashing; all for use in the Duro-Last roofing systems.

APPROVED INSULATIONS: TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam II, ACFoam III	Polyisocyanurate foam insulation.	Atlas Roofing Corp.
ISO 95+ GL	Polyisocyanurate foam insulation.	Firestone Building Products Company, LLC
Type X Gypsum	Gypsum Board	Generic
DensDeck, DensDeck Prime	Silicon treated gypsum.	Georgia-Pacific Gypsum LLC
ENRGY-3	Polyisocyanurate foam insulation.	Johns Manville
Multi-Max FA-3, Thermaroof Composite-3	Polyisocyanurate foam insulation.	Rmax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced insulation board.	USG Corporation
Duro-Guard ISO II-H, and Tapered	Polyisocyanurate foam insulation.	Duro-Last Roofing, Inc.
Duro-Guard ISO III-H, and Tapered	Polyisocyanurate foam core laminated to a coated fiberglass facer.	Duro-Last Roofing, Inc.
Duro-Guard ISO II-A, and Tapered	Polyisocyanurate foam insulation.	Duro-Last Roofing, Inc.
Duro-Guard ISO III-A, and Tapered Duro-Guard ISO IV-A, and Tapered	Polyisocyanurate foam core laminated to a coated fiberglass facer.	Duro-Last Roofing, Inc.
Duro-Guard EPS	Expanded polystyrene	Duro-Last Roofing, Inc.
Duro-Guard EPS Fiberglass Facer	Expanded polystyrene with fiberglass facer	Duro-Last Roofing, Inc.
Duro-Guard ISO II-G & Tapered	Polyisocyanurate insulation with fiberglass reinforced organic facers	Duro-Last Roofing, Inc.
Duro-Guard ISO HD-G	High density polyisocyanurate insulation with coated fiberglass facers	Duro-Last Roofing, Inc.
DEXcell Cement Roof Board	Cementitious core, fiberglass mesh facer insulation/roofing board	National Gypsum Company
DEXcell FA Glass Mat Roof Board	Gypsum core, heavy duty glass mat facer insulation/roof board	National Gypsum Company



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 4 of 17

APPROVED FASTENERS:		TABLE 3		
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Polymer GypTec Fastener	Glass reinforced nylon fastener	Various Lengths	OMG, Inc.
2.	Polymer GypTec Insulation Plate	AZ-55 Galvalume plate for use with the Polymer GypTec fastener.	3" round	OMG, Inc.
3.	Duro-Last Duro-Auger	Composite nylon and fiberglass fastener	Various Lengths	Duro-Last Roofing, Inc.
4.	Duro-Last Auger Plate	AZ-55 Galvalume plate for use with the Duro-Last Duro-Auger Fastener	2" round Reinforcing ribs & barbs	Duro-Last Roofing, Inc.
5.	Insta-Stik Quik Set Insulation Adhesive	Single component urethane foam adhesive	23 lb cylinders	The Dow Chemical Co.



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 5 of 17

EVIDENCE SUBMITTED:

Test Agency/Identifier	<u>Name</u>	Report	Date
Factory Mutual Research Corporation	3Y5A6.AM	Class 4470	03-10-95
·	4D6A4.AM	Class 4470	08-90-99
	3005604	Class 4470	03-13-00
	3008342	Class 4470	10-19-00
	3030225	Class 4470	06-18-07
	3026508	Class 4470	05-03-07
	3040741	Class 4470	10-17-11
	3023458	Class 4470	07-18-06
	3050118	Class 4470	1-20-14
	3054028	Class 4470	05-25-16
Exterior Research & Design, L.L.C.	#02737.03.05-1	TAS 114- J	03.21.05
	02732.09.04	ASTM D4434	09-28-04
	02742.10.05	TAS 117(A) & (B)	10-12-05
	02745.08.06	TAS 117(A)	08-04-06
	D40280.03.13	ASTM D4434	03-13-13
	D40260.03.13.1	ASTM D4434	03-29-13
	D44450.05.13-2	ASTM D4434	05-10-13
	D35210.08.11. R3	ASTM D4434	03-25-13
Trinity ERD	02750.02.08-R2	ASTM D44345	08-03-12
	D42370.07.12	ASTM D1084/TAS 117	07-11-12
	D35210.08.11-R1	ASTM D4434	09-17-12
	DL-SC13445.02.17	ASTM D4434	02-17-17
Intertek Testing Services, NA Inc.	3119586-001	TAS 111	07-10-07
PRI Construction Materials	DLRI-029-02-01	TAS 114-J	10-25-12
Technologies, LLC	DLRI-021-02-01.12	ASTM D1761/D1876	06/27/17
		TAS 117-B	
	DLRI-053-02-01	ASTM D4434	06-26-14
	DLRI-073-02-02	TAS 114-J	11-08-14



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 6 of 17

APPROVED ASSEMBLIES:

Membrane Type: Single Ply, PVC

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type A(1): All layers of insulation adhered with approved adhesive, membrane fully

adhered.

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

Insulation Layer Insulation Fasteners (Table 3) Density/ft²

SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: All layers of insulation shall be adhered with $\frac{3}{4}$ " wide beads of Insta-StikTM Quik Set Insulation Adhesive spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: One ply of Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV

membrane fully adhered with Duro-Last WB II Adhesive at a minimum rate of 0.7 gal/sq to substrate only or one ply of Duro-Fleece Plus membrane fully adhered with Duro-Last WB II Adhesive at a minimum rate of $100~\rm{ft^2/gal}$. to substrate only. The membrane is rolled into wet adhesive. Laps are sealed with a minimum

1.5" wide heat weld.

Maximum Design

Pressure: -150 psf. (See General Limitation #9)

MIAMI-DADE COUNTY
APPROVED

NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17

Page 7 of 17

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type A(2): All layers of insulation adhered with approved adhesive, membrane fully

adhered.

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

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Consity/ft²

ISO 95+ GL, ACFoam II, Duro-Guard ISO II-A, ENRGY-3, Multi-Max FA-3,

Duro-Guard ISO II-G, Duro-Guard ISO II-H

Minimum 1.5" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: All layers of insulation shall be adhered with ¾" wide beads of Insta-Stik™ Quik Set Insulation Adhesive spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: One ply of Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV

Membrane fully adhered with Duro-Last WB II Adhesive at a minimum rate of 0.7 gal/sq to substrate only or one ply of Duro-Fleece Plus membrane fully adhered with Duro-Last WB II Adhesive at a minimum rate of 100 ft²/gal. to substrate only. The membrane is rolled into wet adhesive. Laps are sealed with a

minimum 1.5" wide heat weld.

Maximum Design

Pressure: -90 psf. (See General Limitation #9)



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 8 of 17

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type D(1): All layers of insulation are preliminarily attached to roof deck as specified

below. Membrane is mechanically attached to deck through the insulation

layers.

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

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

ACFoam II, Duro-Guard ISO II-A, ENRGY-3, Duro-Guard ISO III-H, Duro-Gard ISO III-A,

Duro-Guard IV-A, Approved XPS and/or EPS

Minimum 1" thick N/A N/A

Duro-Guard ISO II-H

Minimum 1.5" thick N/A N/A

SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime

Minimum 1/4" thick N/A N/A

Note: Insulation layers 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.

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

Fire Barrier: Atlas Roofing Corporation FR-10® or FR-50®, ¼" DensDeck, ½" thick UL

Classification Type X Gypsum with a moisture resistant facer and core, or a second sheet of barrier board may be used over the insulation (see General

Limitation #1).

Membrane, 57" tabs: Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be

mechanically attached at its 3" tabs, spaced every 57" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fastener and Duro-Last Auger Plates spaced 12" o.c. maximum, through the insulation and into the deck. Laps are sealed with a minimum 1.5" wide heat

weld.

Membrane, 27" tabs:

Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be

mechanically attached at its 3" tabs, spaced every 27" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fastener and Duro-Last Auger Plates spaced 18" o.c. maximum, through the insulation and into the deck. Laps are sealed with a minimum 1.5" wide heat

weld.

Maximum Design

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

MIAMI-DADE COUNTY
APPROVED

NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 9 of 17

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type D(2): Membrane fastened over preliminarily fastened insulation. All layers of

insulation and membrane 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.

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners Fastener (Table 3) Fensity/ft²

ACFoam II, ACFoam III, Duro-Guard IsSO II-A, Duro-Guard ISO III-A, Duro-Guard ISO IV-A,

Duro-Guard ISO III-H, ENRGY-3

Minimum 2" thick N/A N/A

SECUROCK Gypsum-Fiber Roof Board

Minimum 1/2" 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, 57" tabs: Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be

mechanically attached at its 6" tabs, spaced every 57" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fastener and Duro-Last Auger Plates spaced 6" o.c. maximum, through theinsulation and into the deck. Laps are sealed with a minimum 1.5" wide heat

weld.

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

Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be mechanically attached at its 6" tabs, spaced every 57" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fasteners and Duro-Last Auger Plates 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 -60 psf. See General Limitation #7)

Maximum Design

Pressure: See fastening above



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 10 of 17

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type D(3): Membrane fastened over preliminarily fastened insulation. All layers of

insulation and membrane 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.

One or more layers of the following insulations:

Insulation Layer	Insulation Fasteners	Fastener		
	(Table 3)	Density/ft ²		
ENRGY-3, ISO-95+ GL, Multi-Max FA-3, ACFoam-II, ACFoam-III, Duro-Guard ISO II-A,				
Duro-Guard ISO III-A, Thermaroof Composite-3				
Minimum 1.5" thick	N/A	N/A		
Duro-Guard Iso II-H				
Minimum 2" thick	N/A	N/A		
SECUROCK Gypsum-Fiber Roof Board				

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, 57" Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be

mechanically attached at its 6" tabs, spaced every 57" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fasteners and Duro-Last Auger Plates 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.

N/A

Maximum Design

Minimum 1/2" thick

Pressure: -67.5 psf. (See General Limitation #7)



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 11 of 17

N/A

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type D(4): Membrane fastened over preliminarily fastened insulation. All layers of

insulation and membrane 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.

One or more layers of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Duro-Guard ISO II-A, Duro-Guard Iso III-A, D	uard ISO IV-A, Duro-Guard I	ISO III-H,
Duro-Guard ISO Composite-H		
Minimum 1/2" thick	N/A	N/A
Duro-Guard Iso II-H		
Minimum 2" thick	N/A	N/A
SECUROCK Gypsum-Fiber Roof Board		
Minimum 1/2" 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, 57" tabs: Duro-Last membrane or Duro-Tuff membrane shall be mechanically attached at

its 6" tabs, spaced every 57" with Duro-Last Duro-Auger fasteners with Duro-Last Auger Plates (minimum 3" embedment) or Duro-Last EV membrane or Duro-Tuff membrane fastened with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates spaced spaced 6" o.c. maximum, through the insulation and into the deck. 6" wide laps are sealed with a minimum 1.5" wide heat weld.

Maximum Design

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



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 12 of 17

Deck Type 51: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type D(5): Membrane fastened over preliminarily fastened insulation. All layers of

insulation and membrane 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.

One or more layers of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Duro-Guard ISO II-A		-
Minimum 1/2" thick	N/A	N/A
Duro-Guard ISO II-H		
Minimum 2" thick	N/A	N/A
SECUROCK Gypsum-Fiber Roof Board		
Minimum 1/2" 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, 57" tabs: Duro-Last membrane or Duro-Tuff membrane shall be mechanically attached at

its 6" tabs, spaced every 57" with Duro-Last Duro-Auger fasteners with Duro-Last Auger Plates (minimum 3" embedment) or Duro-Last EV membrane or Duro-Tuff membrane fastened with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates 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 30 ft²/gal (two-sided application). 6" wide laps are sealed with a minimum 1.5" wide heat weld.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 13 of 17

Deck Type 5: Cementitious Wood Fiber, Non-Insulated

Deck Description: Cementitious wood fiber

System Type E(1): Membrane mechanically attached to roof deck.

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.

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

Fire Barrier: Atlas Roofing Corporation FR-10[®] or FR-50[®], ¼" DensDeck, ½" thick UL

Classification Type X Gypsum with a moisture resistant facer and core, or a second sheet of barrier board may be used over the insulation (see General

Limitation #1).

Separation Sheet: (Optional) One (1) ply of Duro-Blue Separation Slip Sheet or Duro-Last

Duro-Weave Separation Slip Sheet applied as per manufacturers installation

instructions.

Membrane, 57" tabs: Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be

mechanically attached at its 6" tabs, spaced every 57" with Polymer GypTec

Fasteners and Polymer GypTec Insulation Plates or

Duro-Last Duro-Auger Fasteners and Duro-Last Auger Plates spaced 12" o.c.

maximum, into the deck. Laps are sealed with a minimum 1.5"

wide heat weld.

Membrane, 27" tabs: Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be

mechanically attached at its 3" tabs, spaced every 27" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fasteners and Duro-Last Auger Plates spaced 18" o.c. maximum, into the deck.

Laps are sealed with a minimum 1.5" wide heat weld.

Maximum Design

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



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 14 of 17

Deck Type 5: Cementitious Wood Fiber, Non-Insulated

Deck Description: Cementitious wood fiber

System Type E(2): Membrane mechanically attached to 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.

Separation Sheet: (Optional) One (1) ply of Duro-Blue Separation Slip Sheet or Duro-Last

Duro-Weave Separation Slip Sheet applied as per manufacturers installation

instructions

Membrane, 60" tabs: Duro-Last membrane shall be mechanically attached 6" o.c. in rows saced 60"

o.c. with 2" Duro-Last Duro-Auger fasteners with 2" Duro-Last Auger Plates or Polymer GypTec Fasteners and Polymer GypTec Insulation Plates installed with DOW ENERFOAMTM. The fastener shall be embedded a

minimum of 2" into the deck as follows:

1. 7/16" pilot hole is drilled to a depth of 2.5"

2. DOW ENERFOAMTM is dispensed into the hole for two (2) full seconds using the application gun

3. Fastener is installed into the hole within 20 to 40 seconds after dispensing the foam

A ten (10) inch wide membrane is welded over the fastener rows with a 1-1/2"

wide heat weld.

Maximum Design

Pressure: -67.5 psf. (See General Limitation #9)



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 15 of 17

Deck Type 5: Cementitious Wood Fiber, Non-Insulated

Deck Description: Cementitious wood fiber

System Type E(3): Membrane mechanically attached to 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.

Separation Sheet: (Optional) One (1) ply of Duro-Blue Separation Slip Sheet or Duro-Last

Duro-Weave Separation Slip Sheet applied as per manufacturers installation

instructions.

Membrane, 96" tabs: Duro-Last membrane shall be mechanically attached 6" o.c. in rows saced 96"

o.c. with 2" Duro-Last Duro-Auger fasteners with 2" Duro-Last Auger

Plates or Polymer GypTec Fasteners and Polymer GypTec Insulation Plates with DOW ENERFOAMTM. The fastener shall be embedded a minimum of 2" into

the deck as follows:

1. 7/16" pilot hole is drilled to a depth of 2.5"

2. DOW ENERFOAMTM is dispensed into the hole for two (2) full seconds

using the application gun

3. Fastener is installed into the hole within 20 to 40 seconds after

dispensing the foam

A ten (10) inch wide membrane is welded over the fastener rows with a 1-1/2"

wide heat weld.

Maximum Design

Pressure: -67.5 psf. (See General Limitation #9)



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17 Page 16 of 17

GENERAL LIMITATIONS:

- Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 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
- All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 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.

- 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.
- 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.
- 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.)
- 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.
- 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



NOA No.: 17-0202.07 Expiration Date: 08/22/22 Approval Date: 08/17/17

Page 17 of 17