

**MIAMI-DADE COUNTY**  
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**  
DURO-LAST Roofing, Inc.  
525 Motley Drive  
Saginaw, MI 48601

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Avenue, Room 250  
Miami, Florida 33175-2474  
T: (786) 315-2990 F: (786) 315-2599  
www.miamidade.gov/building

**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 Wood 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. 13-1106-03 and consists of pages 1 through 29.  
The submitted documentation was reviewed by Jorge L. Acosta

**ROOFING SYSTEM APPROVAL**

08/22/22  
Subj: 2022-00219  
Material: Single-Ply PVC  
Deck Type: Wood  
Maximum Design Pressure: -97.5 psf.

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

Product	Dimensions	Test Specification	Product Description
Duro-Last Membrane	.037" thick, Various widths x 150 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Last Membrane	.045" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Last Membrane	.057" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Last Designer Series Membrane	.045" thick, Various widths & lengths	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane: Rock-Ply & Shingle-Ply.
Duro-Fleece Membrane	.047" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Membrane	.056" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Membrane	.080" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Plus Membrane	.047" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Plus Membrane	.056" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Tuff Membrane	.045" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Tuff Membrane	.057" thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Tuff Membrane	.080" thick, Various widths x 65 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.

Product	Dimensions	Test Specification	Product 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-Blue Separation Slip Sheet	4 mil x 20' x 360'; 4 mil x 20' x 100'	N/A	Separation slip sheet produced from extruded polyethylene film.
Duro-Last Duro-Weave Separation Slip Sheet	2.5 mil x 12' x 338"	N/A	Separation slip sheet produced from high density polyethylene tapes and coated on one side with low density polyethylene foam adhesive.
Duro-Fleece CR-20 Adhesive	Kit covers 2,000 ft <sup>2</sup>	Proprietary	Dual component, low density polyurethane foam adhesive.
Duro-Last WB II Adhesive	5 gal. pail	Proprietary	Polymeric waterborne membrane adhesive.
Duro-Last SB IV	5 gal. pail	Proprietary	Low VOC solvent-based membrane adhesive.
Duro-Last Fascia Bar	1 1/2" x 10'; 4" x 10'	N/A	Extruded vinyl drip edge with holes punched 8" o.c.
Duro-Last Fascia Bar Cover	1 1/2" x 10'; 4" x 10'	N/A	Extruded decorative cover for Duro-Last Fascia Bar
Duro-Last Fascia	2" x 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	N/A	Extruded vinyl drip edge with holes punched 8" o.c.
Duro-Last Two-Way Roof Vests	N/A	N/A	Injection molded two-way roof vests with a Duro-Last membrane skirt.
Duro-Last Gravel Stop	2" face x 10'; 4" face x 10'; 30" x 60"	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-Last Tab Sealer 4725	N/A	N/A	Solvent-based contact-bonding agent.
Duro-Last Accessories	Various	ASTM D4434	Custom fabricated accessories for parapets and penetrations: Curb Flashing, Inside & Outside Corner, Scaupers, Drain Boot, Parapet Flashing, Stack Flashing, all for use in the Duro-Last roofing systems.

**APPROVED INSULATIONS:**

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam II, ACFoam III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
DensDeck, DensDeck Prime	Expanded Polystyrene Type IX Silicon treated gypsum	Cellofoam North America Inc
H-Shield, ENRGY3	Polyisocyanurate foam insulation	Georgin-Pacific Gypsum LLC
Duro-Fold Underlayment Board	Extruded polystyrene with polypropylene facer	Hunter Panels, LLC
Duro-Guard Iso H-A, Duro-Guard Iso H-B	Polyisocyanurate foam insulation	Johns Manville
Duro-Guard ISO II-G	Polyisocyanurate foam 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.
Duro-Guard EPS	Expanded polystyrene with fiberglass facers	Duro-Last Roofing, Inc.
Duro-Guard XPS Fan Fold	Rigid extruded polystyrene (XPS) core and wrapped with tough facers which create a durable water-resistant board	Duro-Last Roofing, Inc.
R-TECH Fan Fold	Type IX Expanded polystyrene with polymeric facers	Insulfoam a division of Carlisle Construction Materials Inc.
Insulfoam EPS	Type IX expanded polystyrene board	Insulfoam a division of Carlisle Construction Materials Inc.
Kingspan® Greengard® Insulation Board CM	Type IV and VI expanded polystyrene board	Kingspan Insulation, LLC
SEUROCK Gypsum-Fiber Roof Board	Fiber reinforced insulation board	USG Corporation
DEXcell Cement Roof Board	Insulation with cementitious core and fiberglass mesh facers	National Gypsum Company

**APPROVED FASTENERS:**

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Duro-Last Duro-Coated Hex Head Screws	Roofing and insulation fasteners, Duro-Coated with #3 Phillips head.	Various Lengths	Duro-Last Roofing, Inc.
2.	Duro-Last 3" Metal Plates	Galvalume steel stress plates.	3" square	Duro-Last Roofing, Inc.
3.	Duro-Last Insulation Plates	Round plastic stress plates.	3" round	Duro-Last Roofing, Inc.
4.	Duro-Last Poly-Plates	Round plastic stress plates.	2" round	Duro-Last Roofing, Inc.
5.	Duro-Last #15 Extra Heavy Duty Drill Point Fastener	Corrosion resistant, drill point with a #3 Phillips truss head.	Various Lengths	Duro-Last Roofing, Inc.
6.	Duro-Last Cleat Plates	0.038" thick galvalume stress plates.	2.4"	Duro-Last Roofing, Inc.
7.	OMG Eyehook Accuseam Plate	Stress Plate	2-3/8"	OMG, Inc.
8.	Duro-Last #14 HD Fastener	Roofing and insulation fasteners	Various Lengths	Duro-Last Roofing, Inc.
9.	Duro-Bond Plate 1302	Round, coated galvalume plate (Gold and Black)	3" round	Duro-Last Roofing, Inc.

**EVIDENCE SUBMITTED:**

Test Agency/Identifier	Name	Report	Date
Factory Mutual	2M4A8-AM	Class 4470	03-05-87
Research Corporation	3Y5A6-AM	Class 4470	03-10-95
	4D6AA-AM	Class 4470	08-30-99
	3005604	Class 4470	03-13-00
	3026508	Class 4470	05-03-07
IRT-ARCON, Inc.	02-025	TAS 114	07-24-02
PRI Construction Materials Technologies LLC	DLRI-013-02-01	TAS 114-J	08-28-12
	DLRI-014-02-01	TAS 114-J	08-28-12
	DLRI-042-02-01	TAS 114-J	08-24-13
	DLRI-063-02-01	ASTM D4434	06-26-14
	DLRI-080-02-01	ASTM D4434	08-03-16
	NGC-034-02-01	TAS 114-J	03-25-16
	NGC-035-02-01	TAS 114-J	05-19-16
	DLRI-113-02-01	TAS 114-J	04-08-17
	DLRI-120-02-01	TAS 114-J	07-14-17
	DLRI-021-02-01-12	ASTM D1761/D1876	06-27-17
Exterior Research & Design, LLC	02733.01.05-1	TAS 114	01-21-05
	02744.05.06	TAS 114	05-17-06
	02732.09.04	ASTM D4434	09-28-04
Trinity/ERD	02750.02.08-R2	ASTM D4434	08-03-12
	D44370.07.12	ASTM D1084/TAS 117	07-11-12
	D35210.08.11-R1	ASTM D4434	09-17-12
	D42320.08.12	TAS 117/TAS 114	01-08-13
	D40280.03.13	ASTM D4434	03-11-13
	D40260.03.13-2	ASTM D4434	03-29-13
	D44450.05.13-2	ASTM D4434	05-10-13
	D35210.08.11-R3	ASTM D4434	03-25-13
Intertek Testing Services, NA Inc.	3119586-001	TAS 111	07-10-07
Architectural Testing, Inc.	C0713.01-109-18	TAS 114(J)	03-05-13

**APPROVED ASSEMBLIES**

Membrane Type: Single Ply, PVC  
Deck Type I: Wood Insulated  
Deck Description: 1 1/2" plywood or wood plank secured with 0.113-inch x 2 3/8" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.  
System Type A(1): 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) | Fastener Density/ft<sup>2</sup>

DEXcell FA Glass Mat Roof Board | N/A | N/A

Minimum 1/4" thick

Note: Insulation layer shall be adhered with Duro-Grip CR-20 Adhesive in a splatter pattern at a rate of 6.6 lbs/sq. See Roofing Application Standard RAS 117 for fastening details.

Membrane: One ply of Duro-Fleece membrane or Duro-Fleece Plus membrane fully adhered with Duro-Last WB II Adhesive applied at a minimum rate of 100 ft<sup>2</sup>/gal to substrate only. 3" wide laps are sealed with a minimum 1.5" wide heat weld.  
Or  
One ply of Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane fully adhered with Duro-Last WB II Adhesive applied at a minimum rate of 140 ft<sup>2</sup>/gal to substrate only. 3" wide laps are sealed with a minimum of 1.5" wide heat weld.  
Or  
One ply of Duro-Last membrane, Duro-Last Duro-Tuff or Duro-Last EV membrane fully adhere with Duro-Last SB IV Adhesive applied at a minimum rate of 60 ft<sup>2</sup>/gal (apply 120 ft<sup>2</sup>/gal to both the membrane and substrate). 3" wide laps are sealed with a minimum of 1.5" wide heat weld.  
Or  
One ply of Duro-Fleece membrane or Duro-Fleece Plus membrane fully adhered with Duro-Fleece CR-20 Membrane Adhesive applied in a splatter pattern applied at a rate of 8 lbs/100 ft<sup>2</sup>. Laps are sealed with a minimum of 1.5" wide heat weld.

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

**Membrane Type:** Single Ply, PVC  
**Deck Type II:** Wood Insulated  
**Deck Description:** 1 1/2" or greater plywood or wood plank secured with 0.113-inch x 2 3/8" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.  
**System Type A(2):** 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) | Fastener Density/ft<sup>2</sup>

DEXcell FA Cement Roof Board | N/A | N/A

Minimum 7/16" thick

Note: Insulation layer shall be adhered with Duro-Fleece CR-20 Membrane Adhesive in a splatter pattern at a rate of 5 lbs/sq. See Roofing Application Standard RAS 117 for fastening details.

Membrane: One ply of minimum 40 mil Duro-Last membrane, minimum 30 mil Duro-Tuff membrane or Duro-Last EV membrane fully adhered with Duro-Last WB II Adhesive applied at a minimum rate of 140 ft<sup>2</sup>/gal to substrate only. 3" wide laps are sealed with a minimum of 1.5" wide heat weld.  
Or  
One ply of Duro-Last membrane, Duro-Last Duro-Tuff or Duro-Last EV membrane fully adhered with Duro-Last SB IV Adhesive applied at a minimum rate of 60 ft<sup>2</sup>/gal (apply 120 ft<sup>2</sup>/gal to both the membrane and substrate). 3" wide laps are sealed with a minimum of 1.5" wide heat weld.  
Or  
One ply of Duro-Fleece membrane or Duro-Fleece Plus membrane fully adhered with Duro-Fleece CR-20 Membrane Adhesive applied in a splatter pattern applied at a rate of 8 lbs/100 ft<sup>2</sup>. Laps are sealed with a minimum of 1.5" wide heat weld.

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

**Membrane Type:** Single Ply, PVC  
**Deck Type II:** Wood Insulated  
**Deck Description:** 1 1/2" plywood or wood plank secured with 0.113-inch x 2 3/8" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.  
**System Type C(1):** All layers of insulation simultaneously attached; 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) | Fastener Density/ft<sup>2</sup>

DEXcell FA Cement Roof Board | N/A | N/A

Minimum 7/16" thick

Note: Insulation layer shall be through fastened to the wood supports with the fastener and plate listed above. The Duro-Last membrane (.057" min), Duro-Tuff membrane (.060" min) or the Duro-Last EV membrane (.060" min) shall be welded to the Duro-Bond Plate 1302 in the manner and the spacing specified below.

Fastening: Insulation shall be mechanically attached at 6" o.c. in rows spaced a maximum of 48" o.c. The Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane is welded to the Duro-Bond Plate 1302 with RhinoBond Welder. Laps are sealed with a minimum 1" wide heat weld.

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

**Membrane Type:** Single Ply, PVC  
**Deck Type II:** Wood Insulated  
**Deck Description:** 1 1/2" plywood or wood plank secured with 0.113-inch x 2 3/8" ring shank nails spaced 6" o.c. at supports with a maximum 24" o.c. spacing.  
**System Type C(2):** All layers of insulation simultaneously attached; 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) | Fastener Density/ft<sup>2</sup>

DEXcell FA Cement Roof Board | N/A | N/A

Minimum 7/16" thick

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

Membrane: Insulation Layer shall be through fastened to the wood supports with the fastener and plate as specified below. The Duro-Last membrane, Duro-Last EV membrane or the Duro-Tuff membrane shall be welded to the Duro-Bond Plates as specified below.

Fastening: 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" wide heat weld.

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

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 6 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 8 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 9 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 10 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 2 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 4 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 5 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 6 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 7 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 8 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 9 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 10 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 11 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 12 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 13 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 14 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 15 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 16 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 17 of 29

NOA No.: 17-0202-04  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 18 of 29



PANDA RESTAURANT GROUP INC.  
1683 Walnut Grove Ave.  
Rosemead, California  
91770  
Telephone: 626.799.9898  
Facsimile: 626.372.8288

REVISIONS:

NO.	DATE	DESCRIPTION
1	ISSUED FOR BID & PERMIT	12-11-18
2	BID SET	01-30-19

ISSUE DATE:

NO.	DATE	DESCRIPTION
1	ISSUED FOR BID & PERMIT	12-11-18
2	BID SET	01-30-19

DRAWN BY: OAS

PANDA PROJECT # S8-19-D6573

ARCH PROJECT # P7336

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