

DISPLAY THIS CARD ON FRONT OF JOB



City of Lauderdale Lakes BUILDING PERMIT

PERMIT #	20241394	DATE	05/01/2024
OWNER	CYPRESS CHASE CONDOMINIUM ASSOCIATION		
CONTRACTOR	INFINITE ROOFING SERVICES		
PURPOSE	ROOF		
LEGAL DESCRIPTION			
ZONE			
SUBDIVISION		LOT	
ADDRESS	2601 NORTHWEST 48 TERRACE		

WARNING TO OWNER:

YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR BUILDING IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENTCEMENT

Permit Issued By

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county.

DO NOT REMOVE THIS CARD BEFORE COMPLETION

PERMIT VALID FOR 6 MONTHS



Broward County Asbestos Certificate of Submittal

Issue Date: 03/11/2024

Asbestos SRRA ID: 0000172101

Project Name: Cypress chase D

Project Address: 2600 NW 49 AVENUE & 2601 NW 48 TER LAUDERDALE L

Facility/Activity: Two or more residential structures at same site / Renovation

Facility Owner/Operator Martha Adams

Phone: 7542342590

Mailing Address:

Email: astarr1138@gmail.com

Contractor Performing Work:

Phone:

Email:

Estimated Start Date: 01/19/2024

Estimated Finish Date: 05/31/2024

We have reviewed the above project and concluded that it meets the federal, state and county asbestos program requirements.

Be advised that the proposed project may still be subject to Occupational Safety and Health Administration (OSHA) and Florida Building Code requirements.

Statement of Responsibilities Regarding Asbestos was electronically signed by:

DASHLUO

01/04/2024

Applicant

Date

Received by: DASHLUO

03/11/2024

MANDATORY COUNTYWIDE ROOFTOP MOUNTED EQUIPMENT AFFIDAVIT

ALL EQUIPMENT THAT IS ROOFTOP MOUNTED IS REQUIRED TO BE IDENTIFIED BY THIS AFFIDAVIT AND SUBMITTED WITH THE HIGH VELOCITY HURRICANE ZONE UNIFORM ROOFING PERMIT APPLICATION

Permit Number: 20240208

Site Address: 2601 NW 48 Terrace Lauderdale Lakes

Company Name: Infinite Roofing Services

Address: 2875 NE 191 Street Aventura FL 33180

Name of Qualifier: Juan C. Santana

License Number: CCC1327959 Contact No: 305-878-3721

PLEASE CHECK ALL APPLICABLE EXISTING ROOFTOP EQUIPMENT:

A/C EQUIPMENT PHOTOVOLTAIC PANELS SOLAR THERMAL GAS VENTS

WATERLINES ELECTRICAL CONDUITS

PERMITS ARE REQUIRED FOR:

- REMOVAL AND REINSTALLATION OF PHOTOVOLTAIC PANELS.
- REMOVAL AND REINSTALLATION OF SOLAR THERMAL.
- REMOVAL AND REINSTALLATION OF GAS VENTS.

IF A/C EQUIPMENT IS CHECKED ABOVE:

• IS THERE AN EXISTING CODE APPROVED CURB OR STAND? YES NO

IF YOU ANSWERED NO, A MECHANICAL PERMIT IS REQUIRED FOR THE INSTALLATION OF THE PROPOSED CURB OR STAND.

ANY ROOFTOP EQUIPMENT REMOVED DURING REROOFING, SHALL BE REINSTALLED IN COMPLIANCE WITH THE CODE IN EFFECT AT THE TIME A REROOFING PERMIT IS ISSUED.

NOTE: All above permits may be considered as deferred submittals.

Juan C. Santana
 CONTRACTOR/OWNER BUILDER SIGNATURE

1-5-2024
 DATE

Juan C. Santana
 PRINT CONTRACTOR/OWNER BUILDER NAME

Juan Jose Santandreu P.E

P.E. # 67241

JAN 31 2024 35 SW 44 ST, MIAMI, FL 33155 PH: 305-668-5793

Email: Aplusetl@yahoo.com

CORRECTED

ROOF DRAINAGE CALCULATIONS

Contractor.: INFINITE ROOFING
Address: 2601 NW 48 TER, Lauderdale Lakes, FL (SOUTH)

Date: 10/1/2023

LOCAL RAINFALL INTENSITY: (Figure 1106.2 Chapter 11 of the Plumbing Code): Miami 5 Inches/Hr
Minimum roof pitch 1/8 per foot

Roof Designation (See Sketch) AREA 1
Total Area To Be Drained (sf) 11280
(Roof area plus 50% parapet wall)

PRIMARY DRAINAGE

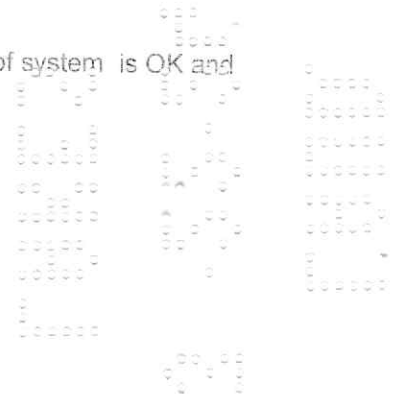
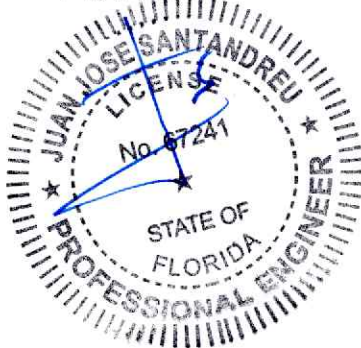
Description Primary Drainages Scupper 10" X 5"
Qty Existing Primary Drainage 4
Required Flow rate (gpm) 587
Existing Flow rate (gpm) 882
Additional Flow rate (gpm) 0
EXISTING IS OK

SECONDARY DRAINAGE

Description Secondary Drainage Overflow Scupper 12" X 5"
Qty Existing Sec. Drainage : 4
Max. accum. Above height of drain, Head (in) 3.0
Existing Effective flow rate (gpm): 693
Required Flow rate (gpm): 587
Additional Flow rate (gpm): 0
requered additional scupper

The use of this roof drainage, with 4 existing Overflow Scupper 12" X 5" , 2 inch above roof system is OK and according FBC 2020

Juan Jose Santandreu P.E.
P.E # 67241



Juan Jose Santandreu P.E

P.E. # 67241

7135 SW 44 ST, MIAMI, FL 33155 PH: 305-668-5793

Email: Aplusetl@yahoo.com

ROOF DRAINAGE CALCULATIONS

Date: 10/1/2023

Contractor: INFINITE ROOFING
Address: 2601 NW 49 Ave, Lauderdale Lakes, FL (NORTH)

LOCAL RAINFALL INTENSITY: (Figure 1106.2 Chapter 11 of the Plumbing Code): Miami 5 Inches/Hr
Minimum roof pitch 1/8 per foot

Roof Designation (See Sketch) AREA 2
Total Area To Be Drained (sf) 13800
(Roof area plus 50% parapet wall)

PRIMARY DRAINAGE

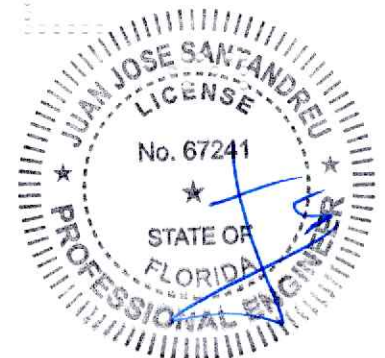
Description Primary Drainages	Scupper 10" X 5'
Qty Existing Primary Drainage	4
Required Flow rate (gpm)	718
Existing Flow rate (gpm)	882
Additional Flow rate (gpm)	0

EXISTING IS OK

SECONDARY DRAINAGE

Description Secondary Drainage	Overflow Scupper 12" X 5"
Qty Existing Sec. Drainage :	4
Max. accum. Above height of drain, Head (in)	3.0
Existing Effective flow rate (gpm):	693
Required Flow rate (gpm):	718
Additional Flow rate (gpm):	25.00 required additional scupper

The use of this roof drainage, with 4 existing Overflow Scupper 12" X 5" , 2 inch above roof system is OK and according FBC 2020



Juan Jose Santandreu P.E

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8306 Mills Dr., Suite 369 MIAMI, FL 33183 PH: 305-412-7361

Email: Santandreu67241@yahoo.com

ROOF DRAINAGE CALCULATIONS

Date: 10/1/2023

Contractor.: INFINITE ROOFING
Address: 2600 NW 49 Ave, Lauderdale Lakes, FL (EAST)

LOCAL RAINFALL INTENSITY: (Figure 1106.2 Chapter 11 of the Plumbing Code): Miami 5 Inches/Hr
Minimum roof pitch 1/8 per foot

Roof Designation (See Sketch) AREA 3
Total Area To Be Drained (sf) 17470
(Roof area plus 50% parapet wall)

PRIMARY DRAINAGE

Description Primary Drainages	Scupper 7" X 5"
Qty Existing Primary Drainage	8
Required Flow rate (gpm)	908
Existing Flow rate (gpm)	1189
Additional Flow rate (gpm)	0

EXISTING IS OK

SECONDARY DRAINAGE

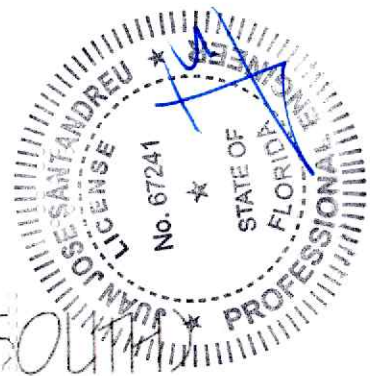
Description Secondary Drainage	Overflow Scupper 10" X 5"
Qty Existing Sec. Drainage :	8
Max. accum. Above height of drain, Head (in)	3.0
Existing Effective flow rate (gpm):	1171
Required Flow rate (gpm):	908
Additional Flow rate (gpm):	0

requered additional scupper

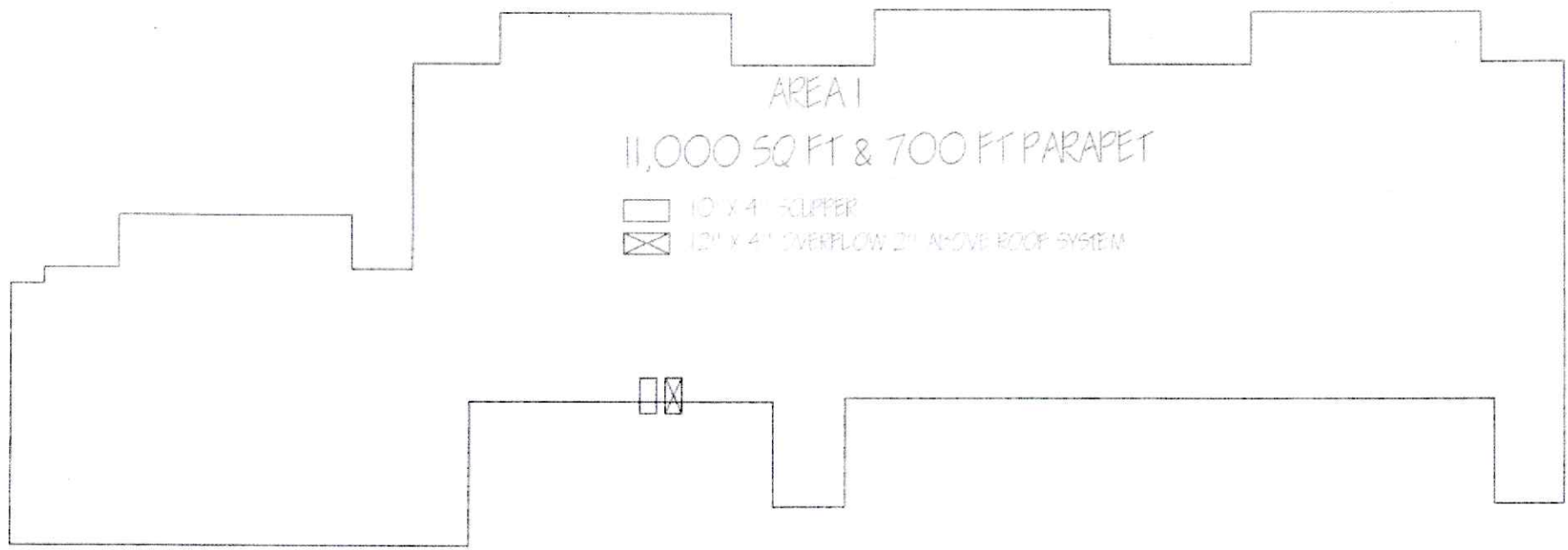
The use of this roof drainage, with 8 existing Overflow Scupper 10" X 5" , 2 inch above roof system is OK and according FBC 2020



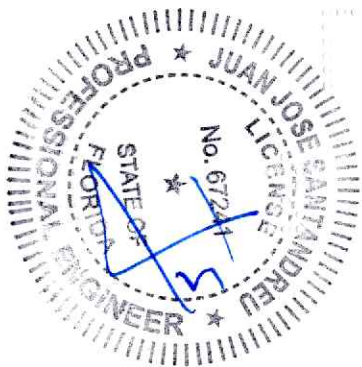
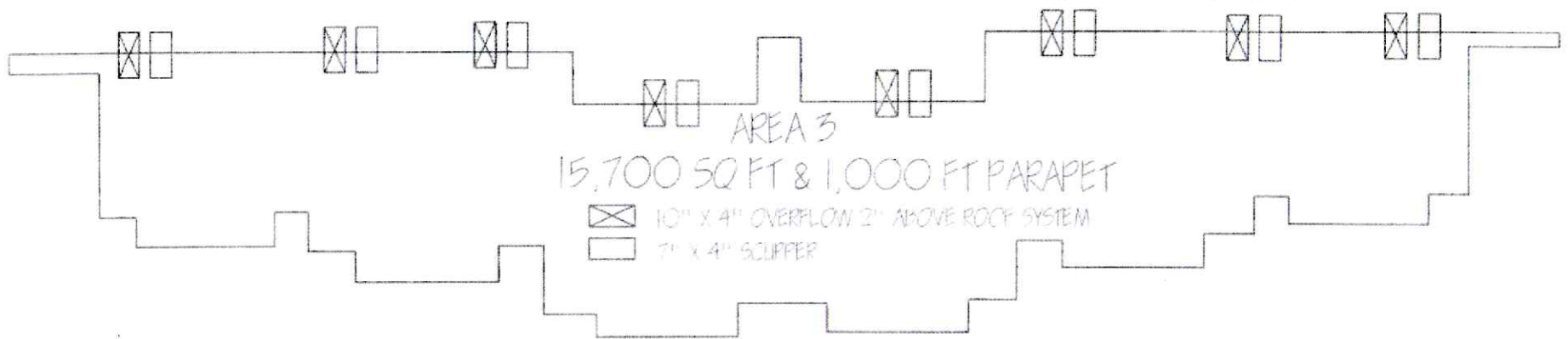
2601 NW 49 AVE
LAUDERDALE LAKES, FL 33409



2601 NW 49 AVE, LAUDERDALE LAKES, FL (SOUTH)



2601 NW 49 AVE, LAUDERDALE LAKES, FL (WEST)



DATE: 01/15/2024
TIME: 10:00 AM
PROJECT: 2601 NW 49 AVE, LAUDERDALE LAKES, FL (WEST)

Juan Jose Santandreu P.E. # 67241

7135 SW 44 ST, Miami, Florida 33155

PH: 305-668-5793

Email: Aplusetk@yahoo.com

January 8, 2024

Lauderdale Lakes Building Department
3521 NW 43rd Avenue
Lauderdale Lakes, FL 33319

Ref: Roof to Wall Connector Inspection

Job Site: 2601 NW 48 TER,
Lauderdale Lakes, Florida

Contractor: Infinite Roofing

AFFIDAVIT ROOF TO WALL CONNECTION

Dear Building Official,

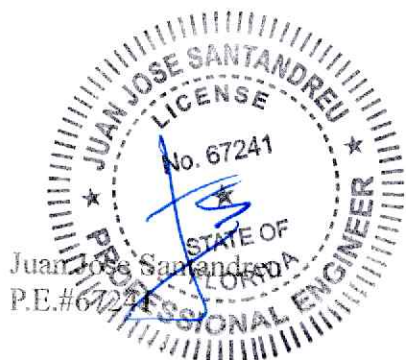
We have inspected the roof framing and roof framing anchors at the above referenced property as required by the Manual of Hurricane Retrofits for Existing Site, Building Single Family Residential Structures as adopted by the Florida Building Commission by Rule 9B-3.047 F.A.C. We hereby certify that the roof framing that is compose of metal joist and they are in good condition.

For the construction method used at the above reference address and the existing metal roof frame the roof to wall connectors do not apply.

The above is in accordance as specified in the Florida Building Code for Existing Buildings.

This report is based on limited visual review of existing structural components. Please do not hesitate to contact our office if you have any questions.

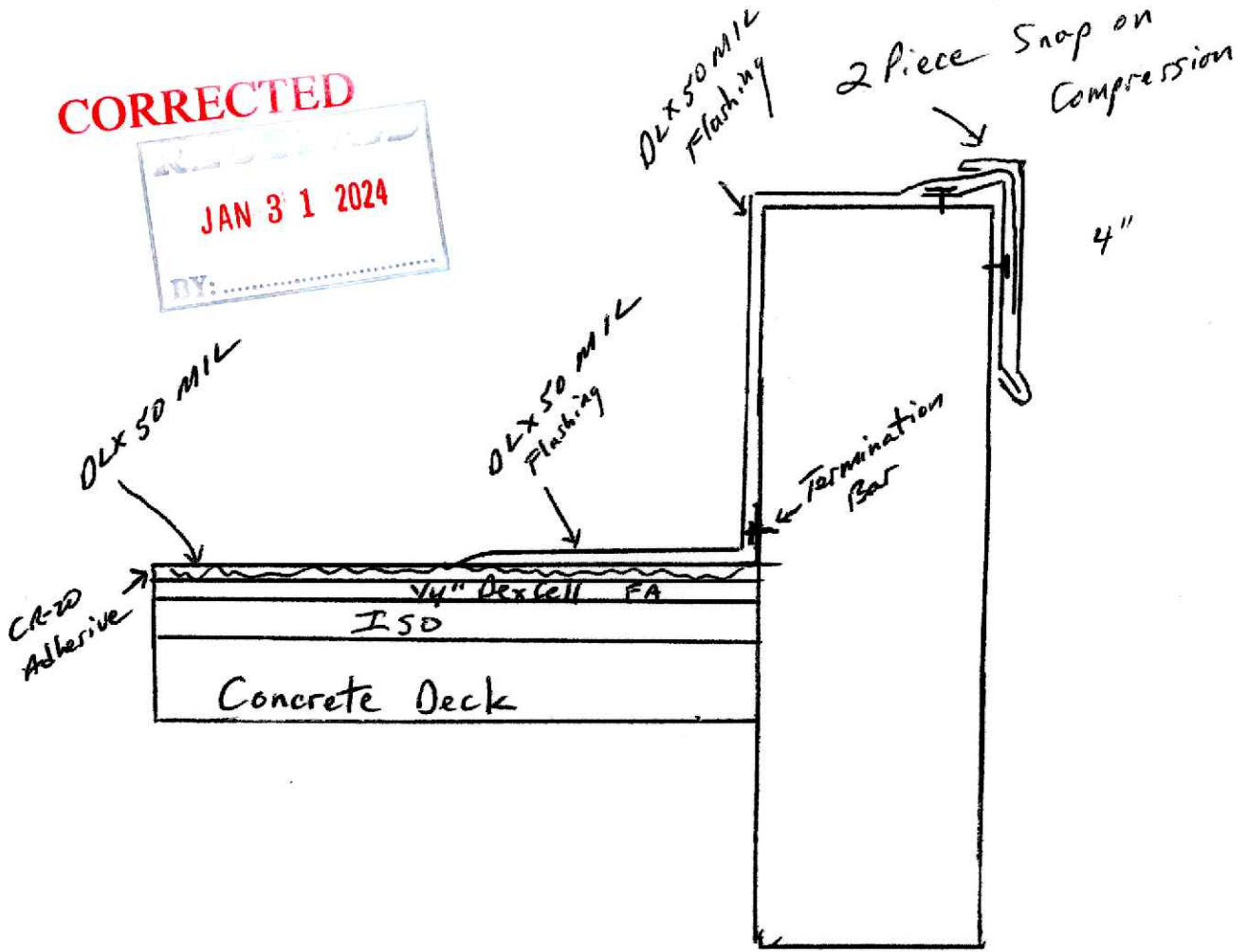
Sincerely,



Juan Jose Santandreu
P.E. #67241

CORRECTED

REVISION
JAN 31 2024
BY:



WALL FLASHING
Parapet Wall

2601 NW 48 Terrace

2601 NW 48 Terrace

Description:

The 2-Piece Snap-On Compression system may be used as a perimeter flashing for the Duro-Last[®] roofing system. The system consists of a 24-gauge Galvalume[®] base and a snap-on metal cover.

- Base and cover is fabricated in 10' lengths; 3" – 8" widths. Manufactured from various metals (see chart below).
- Cover is double-hemmed to prevent roof material from excessive wear.
- Installs on 2/12 pitch and lower.
- Ready to assemble inside and outside corners are available.

Contact Duro-Last or EXCEPTIONAL[®] Metals to request a color chart, samples and information regarding custom metals and finishes.

Energy Efficiency:

LEED[®] and ENERGY STAR[®] compliant; Recyclable.

Installation:

1. A wood nailer is required if 1" or greater of insulation is used.
2. This nailer should be attached to the wall in accordance with ANSI/SPRI ES-1 3.9.
3. Install in accordance with Duro-Last detail drawing #3110.
4. Any deviation from the requirements set forth in the detail drawings must be pre-approved, in writing, by the EXCEPTIONAL Metals Technical Department.

Codes and Standards:

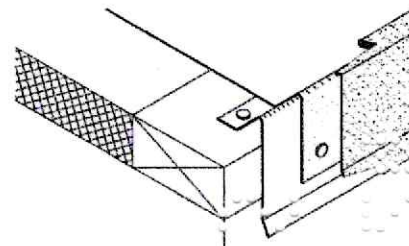
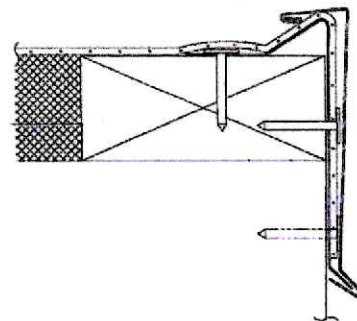
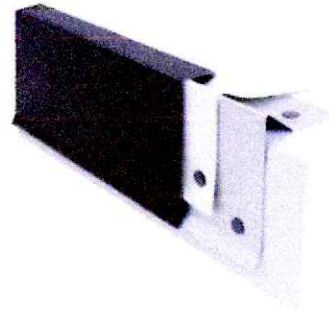
- ANSI/SPRI ES-1 Compliant with 3" – 8" base and cover.
- Meets TAS 111-95 Test with 4" and 6".
- FM Approval on 4" and 6".

Warranty:

Duro-Last offers a wide range of warranty coverage for EXCEPTIONAL Metals products when used with the Duro-Last roofing system, including paint and finish.

Technical Services:

Product samples, detail sheets, color chips, and color chart are available for your submittal package. For assistance with questions or submittals, contact your local representative or call EXCEPTIONAL Metals.



Material	Gauge	Finish
Aluminum	.040	Mill or Kynar [®]
Stainless Steel	24-gauge	N/A
Bonderized Steel	24-gauge	N/A
Galvalume	24-gauge	Mill or Kynar [®]
Copper	16 oz.	Mill

Section C (Low Sloped Roof Systems)

Fill in specific roof assembly components and identify manufacturer
(If a component is not used, identify as "NA")

System Manufacturer: Duro-Last Roofing Inc.

Product Approval No.: 23-0509.06

Design Wind Pressures, From RAS 12B or Calculations:

Zone 1: -46 Zone 1: -80 Zone 2: -108 Zone 3: -145

Max. Design Pressure, from the specific product approval system: -300

Deck: Type: Concrete

Gauge/Thickness: 5"

Slope: 1/8"

Anchor/Base Sheet & No. of Ply(s): N/A

Anchor/Base Sheet Fastener/Bonding Material: NA

Insulation Base Layer: 2"

Base Insulation Size and Thickness: Max 4.50"

Base Insulation Fastener/Bonding Material: ICP Polyest Commercial Roof Adhesive

Top Insulation Layer: 1 1/4" DEXcell FA Glass Mat Roof Board

Top Insulation Size and Thickness: 1 1/4"

Top Insulation Fastener/Bonding Material: ICP Polyest Commercial Roof Adhesive

Base Sheet(s) & No. of Ply(s): N/A

Base Sheet Fastener/Bonding Material: NA

Ply Sheet(s) & No. of Ply(s): N/A

Ply Sheet Fastener/Bonding Material: NA

Top Ply: DLX 50 Mil

Top Ply Fastener/Bonding Material: WB II Adhesive

Surfacing: N/A

Fastener Spacing for Anchor/Base Sheet Attachment:

Zone 1: N/A oc @ Lap, # Rows N/A @ N/A oc

Zone 1: N/A oc @ Lap, # Rows N/A @ N/A oc

Zone 2: N/A oc @ Lap, # Rows N/A @ N/A oc

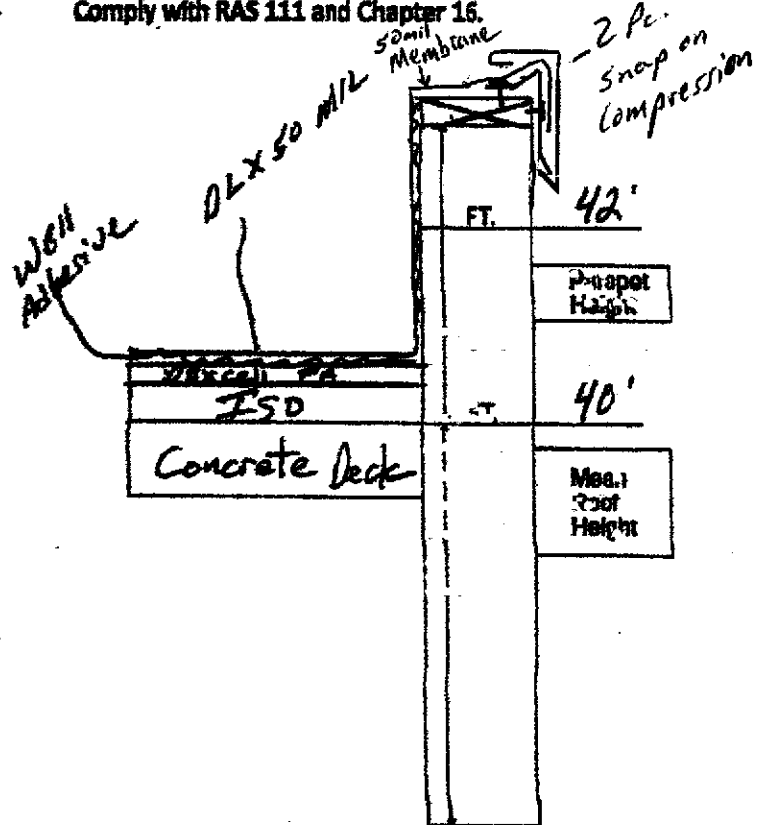
Zone 3: N/A oc @ Lap, # Rows N/A @ N/A oc

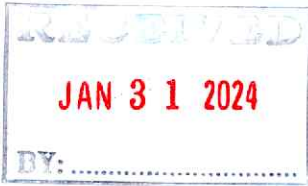
Number of Fasteners Per Insulation Board:

Zone 1: N/A Zone 1: N/A Zone 2: N/A Zone 3: N/A

Illustrate Components Noted and Details as Applicable:
Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counterflashing, Coping, Etc.

Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit Manufacturers Details that Comply with RAS 111 and Chapter 16.





CORRECTED



UL Evaluation Report

UL ER10128-01

Issued: January 22, 2016

Revised: February 15, 2022

Visit UL's On-Line Certifications Directory: www.ul.com/erdirectory for status of Report.

UL Category Code: ULFB

CSI MasterFormat®

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION
Sub-level 2: 07 50 00 – Membrane Roofing
Sub-level 3: 07 54 00 – Thermoplastic Membrane Roofing
Sub-level 4: 07 54 19 – Polyvinyl-Chloride Roofing

COMPANY:

Duro-Last, Inc.
525 Morley Drive
Saginaw, MI 48601-9485 USA
(800) 428-0280
www.duro-last.com

1. SUBJECT: DURO-LAST, DURO-LAST EV, DURO-LAST X, DURO-TUFF, DURO-FLEECE, and DURO-FLEECE PLUS ROOFING MEMBRANES

2. SCOPE OF EVALUATION

- 2021, 2018, 2015, and 2012, and 2009 *International Building Code*® (IBC)
- 2021, 2018, 2015, and 2012, and 2009 *International Residential Code*® (IRC)
- ICC ES Acceptance Criteria for Roof-Covering Systems (AC75)
- ICC ES Acceptance Criteria for Quality Documentation (AC10)

The products were evaluated for the following properties:

- Roofing Systems for Exterior Fire Exposure (UL 790, ASTM E108)
- Roofing Systems, Wind Uplift Resistance (UL 1897, FM 4474)
- Physical Properties (ASTM D4434, ASTM G155)
- Impact Resistance (UL 2218, ASTM D3746, FM 4470)
- Foot Traffic Resistance (FM 4470)

3. REFERENCED DOCUMENTS

- UL790, Standard Test Methods for Fire Tests of Roof Coverings
- UL 1897, Standard for Uplift Tests for Roof Covering Systems
- ASTM D4434, *Standard Specification for Poly (Vinyl Chloride) Sheet Roofing*
- ASTM D3746, *Standard Test Method for Impact Resistance of Bituminous Roofing Systems*
- ASTM G155, *Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials*
- FM 4470, Single-Ply, Polymer-Modified Bitumen Sheet, Built-Up Roof (BUR) and Liquid Applied Roof Assemblies for use in Class 1 and Noncombustible Roof Deck Construction
- FM 4474, Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures
- ICC ES Acceptance Criteria for Membrane Roof-Covering Systems (AC75)
- ICC ES Acceptance Criteria for Quality Documentation (AC10)

4. USES

Duro-Last, Duro-Last EV, Duro-Last X, Duro-Tuff, Duro-Fleece, and Duro-Fleece Plus single-ply PVC roof membranes are used as roof coverings in mechanically fastened or fully adhered Class A, B or C roof assemblies installed on combustible or non-combustible roof decks.

5. PRODUCT DESCRIPTION

Duro-Last, Duro-Last EV, Duro-Last X, Duro-Tuff, Duro-Fleece, and Duro-Fleece Plus are reinforced single ply polyvinyl chloride (PVC) membranes designed to be used in adhered roofing systems or mechanically fastened roofing systems as described in this report. The membranes are provided in rolls of various lengths and widths.

These roofing systems consist of the single-ply PVC roofing membrane, insulation where used, barrier board or slip sheet where used, flashing, mechanical fasteners, and adhesives that are installed on a combustible or non-combustible roof deck.

These roofing assemblies comply with the following properties when installed as described in this report.

Fire Classification: Roofing assemblies covered under this report have been tested for fire classification Class A, B or C in accordance with UL790 (or ASTM E108), as required by Section 1505.1 of the IBC and Section R902.1 of the IRC.

Wind Resistance: Roofing assemblies covered under this report have been tested for wind uplift resistance in accordance with FM 4474, and therefore qualify for use under single-ply roofing systems in Section 1504.4.1 of the 2021 IBC and Section 1504.3.1 of the 2018, 2015, 2012, and 2009 IBC. Metal edge securement for all systems shall be designed in accordance with ANSI/SPRI ES-1, complying with Section 1504.6 of the 2021 IBC and Section 1504.5 of the 2018, 2015, 2012, and 2009 IBC. For certifications of metal edge securement systems in accordance with ANSI/SPRI ES-1, see UL Online Certifications Directory Roof-edge Systems, Metal, for Use with Low-slope Roofing Systems (TGJZ).

The roofing assemblies shall be designed to resist the design wind load pressures for components and claddings in accordance with Section 1609 of the IBC and Section R905.1 of the 2018, 2015, 2012, and 2009 IRC.

Physical Properties: The roofing membranes covered under this Report have been tested for physical properties in accordance with ASTM D4434 and ASTM G155, and therefore qualify for use under Section 1504.7 of the IBC, Sections 1507.12.2 of the 2021 IBC and 1507.13.2 of the 2018, 2015, 2012, and 2009 IBC, and Section R905.13.2 of the IRC.

Impact Resistance: The single-ply roofing membranes covered under this Report have been tested for impact resistance in accordance with "Resistance to Foot Traffic Test" in Section 5.5 of FM 4470 and therefore qualify for use under Section 1504.8 of the 2021 IBC and Section 1504.7 of the 2018, 2015, 2012, and 2009 IBC. In addition, each of the membranes covered under this report have been tested in accordance with ASTM D3746 for impact resistance as it relates to puncture.

5.1 Membranes:

5.1.1 Duro-Last PVC (40 – 60 mils), Duro-Last EV (50 – 60 mils), Duro-Last X (50 – 80 mils), and Duro-Tuff (50 – 80 mils) are membranes having a proprietary thermoplastic formulation consisting of PVC resins, plasticizers, stabilizers, biocides, flame retardants and U.V. absorbents which incorporate a weft-insertion knitted scrim that is laminated between two layers of PVC film giving the membrane strength and durability.

5.1.2 Duro-Fleece (50 – 80 mils) and Duro-Fleece Plus (50 – 60 mils) are Duo-Last PVC membranes combining its proprietary thermoplastic formulation. These membranes are manufactured with a fleece bound to the underneath side of the membrane for enhanced adhesion characteristics. Duro-Fleece and Duro-Fleece Plus are bound with 3.8 ounce and 5.5-ounce fleece, respectively.

5.2 Insulation:

Foam plastic insulation when used shall have a flame spread index of not more than 75 when tested at the maximum thickness intended for the use in accordance with UL 723 or ASTM E 84 to qualify for use under Section 2603.3 and Exception 3 of the IBC. To qualify for use under Section 2603.4.1.5 of the IBC, a thermal barrier is not required for foam plastic insulation that is part of a Class A, B or C roof-covering assembly, provided the assembly with foam plastic insulation complies with FM 4450 or UL 1256.

5.3 Fasteners:

Fasteners used to mechanically fasten insulation and membranes to the roof deck shall be corrosion resistant. Refer to the assemblies in Tables 1-18 for the specific fasteners to be used.

5.4 Adhesive:

The adhesive used for adhering Duro-Last PVC membranes to the insulation or roofing substrate shall be as noted in the Appendix of this Report.

5.5 Tab Sealer:

Hybrid lap seams utilize solvent-based contact bonding agent to adhere adjacent sections of Duro-Last PVC membranes.

5.6 Asphalt:

Hot roofing asphalt, when specified in the roofing assemblies shall conform to ASTM D312, Type III or Type IV.

6. INSTALLATION

Duro-Last single ply PVC membranes shall be installed in accordance with the applicable code, this report and the manufacturer's published installation instructions. The membranes shall be installed in accordance with Section 1507.12 of the 2021 IBC, Section 1507.13 of the 2018, 2015, 2012, and 2009 IBC or Section R905.13 of the IRC as applicable, except as noted in this report.

The manufacturer's published installation instructions shall be available at all times on the jobsite during installation.

The slope of the roof on which the membranes are installed shall be a minimum of ¼:12 (2% slope) and shall not be more than the maximum slope indicated in Tables 1-16 of this Report.

Penetrations and terminations of the roof covering shall be flashed and made watertight in accordance with the requirements of the membrane manufacturer, Section 1503.2 of the IBC or Section R903.2 of the IRC and applicable code.

7. Fire Classification

7.1 New Construction: Roof assemblies utilizing Duro-Last (40 – 60 mil), Duro-Last EV (50 – 60 mils), Duro-Tuff (50 – 80 mil), Duro-Fleece (50 – 80 mil), and Duro-Fleece Plus (50 – 60 mil) single ply PVC roof coverings are described in UL Certification Category for Roofing Systems, (TGFU), under File R10128 and in Tables 1-14.

7.2 Reroofing: The existing roof shall be inspected in accordance with the provisions and limitations of Section 1512 of the 2021 IBC, Section 1511 of the 2018, 2015, 2012, and 2009 IBC, Section R908 of the 2021 IRC, or Section R907 of the 2018, 2015, 2012, and 2009 IRC, as applicable. The existing deck shall be inspected to verify that the structure to be reroofed is structurally sound and adequate to support and secure the roofing membrane. Prior to installation of new roof coverings, inspection by and approval from the code official having jurisdiction is required.

Duro-Last PVC membranes may be installed over existing Classified Class A, B or C roofing systems as described in the UL Certification Category for Roofing Systems (TGFU), File R10128 under the heading Class A, B and C for Maintenance and Repair for applicable coverage and details of the roof assemblies and in Tables 1-18.

Class A, B or C roof coverings may be installed over existing classified roof assemblies under the following conditions without additional roof classification tests, provided the resulting classification is the lower of the new and existing roof classifications under the following conditions:

- New uninsulated roof coverings installed only over existing uninsulated assemblies.
- New insulated roof coverings installed over existing uninsulated assemblies only.

8. Wind Resistance

8.1 New Construction: The allowable wind uplift pressures for the roof assemblies are noted in the Tables 1-14. Metal edge securement for all systems shall be designed in accordance with ANSI/SPRI ES-1, complying with Section 1504.6 of the 2021 IBC and Section 1504.5 of the 2018, 2015, 2012, and 2009 IBC. For certifications of metal edge securement systems in accordance with ANSI/SPRI ES-1, See UL Online Certifications Directory Roof-edge Systems, Metal for Use with Low-slope Roofing Systems (TGJZ).

8.2 Reroofing: Roof covering systems employing mechanical fasteners shall be qualified, to the satisfaction of the code official, as to the adequacy of fasteners penetrating through existing roof coverings into structural substrates. Since the composition and/or condition of installed roofing covering materials may vary, and reroofing material may vary, reroofing with adhered systems is outside the scope of this report.

9. CONDITIONS OF USE

The Duro-Last single ply PVC roofing membranes described in this Report comply with, or are suitable alternatives to, what is specified in those codes listed in Section 2 of this Report, subject to the following conditions:

- 9.1 Materials and methods of installation shall comply with this Report and the manufacturer's published installation instructions. In the event of a conflict between the installation instructions and this Report, this Report governs.
- 9.2 Duro-Last single ply PVC roofing membranes shall be installed by professional roofing contractors trained and approved by the manufacturer.
- 9.3 See UL Online Certification Directory Roofing Systems ([TGUFU](#)) File R10128. Also refer to the Tables in the Appendix of this Report.
- 9.4 Above-deck thermal insulation board shall comply with the applicable standards listed in Table 1508.2 in Section 1508.2 of IBC.
- 9.5 Wind uplift pressures on any roof area, including edges and corner zones shall not exceed the allowable wind pressure for the roof covering installed in that particular area. Refer to the Tables 1-14 in this Report.
- 9.6 The allowable wind uplift pressures listed in the Tables in the Appendix of this Report are for the roof systems only. The deck and framing to which the roofing system is attached shall be designed for the applicable components and cladding, wind loads in accordance with the applicable codes.
- 9.7 When application is over an existing roof, documentation of the wind uplift resistance of the composite roof construction shall be submitted to the code official.
- 9.8 The metal edge securement shall be designed and installed for wind loads in accordance with Chapter 16 of IBC and test for resistance in accordance with Test Methods RE-1, RE-2 and RE-3 of ANSI/SPRI ES-1, except V_{ult} wind speed shall be determined from Figure 1609.3(1), 1609.3(2), or 1609.3(3) of 2018 IBC or Figure 1609A, 1609B, or 1609C of 2015, 2012, and 2009 IBC as applicable.
- 9.9 The Duro-Last thermoplastic single ply membranes covered under this report are produced by Duro-Last in Saginaw, MI, Grants Pass, OR Jackson, MS, Carrollton, TX, Sigourney, IA, and Ludlow, MA under the UL LLC Classification and Follow-Up Service Program, including audits in accordance with quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC10.

10. SUPPORTING EVIDENCE

- 10.1 Data in accordance with ICC-ES Acceptance Criteria for Membrane Roof-Covering Systems, AC75.
- 10.2 Manufacturer's descriptive product literature, including installation instructions.
- 10.3 UL Classification Reports in accordance with UL 790, UL 1897, and UL 2218. See UL Product Certification Category under File R10128 for Roofing Systems ([TGFU](#)), Roofing Systems, Uplift Resistance ([TGIK](#)), and Roof-covering Materials, Impact Resistance ([TGAM](#)), respectively.
- 10.4 Data in accordance with FM 4474.
- 10.5 Data in accordance with FM 4470.
- 10.6 Data in accordance with ASTM D4434 and ASTM G155.
- 10.7 Documentation of quality system elements in accordance with ICC-ES Acceptance Criteria for Quality Documentation, AC10.

11. IDENTIFICATION

The Duro-Last thermoplastic single ply membranes described in this evaluation report are identified by a marking bearing the report holder's name (Duro-Last), the plant identification (if required), the product designation, the UL Classification Mark, and the evaluation report number UL ER10128-01. The validity of the evaluation report is contingent upon this identification appearing on the product or UL Classification Mark certificate.

12. USE OF UL EVALUATION REPORT

- 12.1 The approval of building products, materials or systems is under the responsibility of the applicable authorities having jurisdiction.
- 12.2 UL Evaluation Reports shall not be used in any manner that implies an endorsement of the product, material or system by UL.
- 12.3 Visit UL's on-line Certifications Directory at www.ul.com/erdirectory for the status of this report.

INDEX

Table	Deck	Application	Type	Description
1	Wood ¹	New, Reroof(Tear-Off), Recover	A-1	Mechanically Attached Insulation, Mechanically Attached Roof Cover
2	Wood ¹	Reroof(Tear-Off) or Recover	A-2	Adhered Roof Cover (Direct to Deck)
3	Wood ¹	New, Reroof(Tear-Off), Recover	A-3	Mechanically Attached Insulation, Adhered Roof Cover
4	Wood ¹	Reroof(Tear-Off) or Recover	A-4	Adhered Insulation, Adhered Roof Cover
5	Steel	New, Reroof(Tear-Off), Recover	A-1	Mechanically Attached Insulation, Mechanically Attached Roof Cover
6	Steel	New, Reroof(Tear-Off), Recover	A-4	Mechanically Attached Insulation, Adhered Roof Cover
7	Structural Concrete	New, Reroof(Tear-Off), Recover	A-1	Mechanically Attached Insulation, Mechanically Attached Roof Cover
8	Structural Concrete	New, Reroof(Tear-Off), Recover	A-4	Mechanically Attached Insulation, Adhered Roof Cover
9	Structural Concrete	New, Reroof(Tear-Off), Recover	A-2	Adhered Roof Cover (Direct to Deck)
10	Structural Concrete	New, Reroof(Tear-Off), Recover	A-3	Adhered Insulation, Adhered Roof Cover
11	Steel	New, Reroof(Tear-Off), Recover	A-3	Adhered Insulation, Adhered Roof Cover
12	Steel	New, Reroof(Tear-Off), Recover	A-6	Mechanically Attached Insulation, Spot Attached Roof Cover
13	Structural Concrete	New, Reroof(Tear-Off), Recover	A-6	Mechanically Attached Insulation, Spot Attached Roof Cover
14	Lightweight Insulating Concrete	New, Reroof(Tear-Off)	A-2	Adhered Roof Cover (Direct to Deck)
15	Existing Lightweight Insulating Concrete	Reroof(Tear-Off), Recover	A-7	Mechanically Attached Roof Cover
16	Tectum	New, Reroof(Tear-Off), Recover	A-1	Mechanically Attached Insulation, Mechanically Attached Roof Cover
17	Gypsum	New, Recover	A-7	Mechanically Attached Roof Cover
18	Gypsum	New or Reroof(Tear-Off)	A-3	Adhered Insulation, or Spot Adhered Roof Cover

¹Wood framing members spaced 24 inches on center unless otherwise noted.

The following notes apply to the systems outlined herein:

1. Roof decks shall be in accordance with IBC or IRC requirements to the satisfaction of the AHJ. Wind load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation. Wind load resistance of the roof deck shall be documented through proper codified Approval documentation.
2. Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:

Steel Deck: Duro-Last#14HD Fastener, TruFast #15 EHD Fastener, and Duro-Last #15 Extra Heavy Duty Drill Point Fastener must penetrate steel decking a minimum 3/4-inch into the top flute of the steel deck.

Concrete Deck: Duro-Last #14 Concrete Screw or Fluted Concrete Nail Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.

3. Preliminary insulation attachment for System Type A-1 Minimum four fasteners per 4 x 8 ft board or minimum two fasteners per 4 x 4 ft board.
4. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions:

Hot asphalt [HA]: Full coverage at 20-25 lbs/sq.

Duro-Fleece Membrane Adhesive: Continuous 3/4 inch wide

Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered a distance of half the ribbon spacing of the previous layer.

Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing

5. Unless otherwise noted, all insulations are flat-stock or tapered board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations.
6. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
7. For System Types A-1, A-4, and A-5, steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
8. For recover applications using System Type A-1, the insulation is optional. Alternatively, min. 0.25-inch Invinsa, DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber RoofBoard may be used as a separator board, preliminarily attached prior to roof cover installation. For all recover applications, the existing roof system shall be suitable for a recover application.
9. For adhered membrane systems, side laps shall be minimum 3 inches wide sealed with min. 1.5-inch heat weld, unless otherwise noted. Adhesive application rates are as follows:

Membrane	Adhesive	Method	Rate
Duro-Last, Duro-Tuff, Duro-Fleece, Duro-Fleece Plus	Duro-Last Tab Sealer	Contact (both sides)	30 square feet per gallon
Duro-Last	SB I, SBIV, WB II	Contact/Wet Lay	60 square feet per gallon/100 square feet per gallon
Duro-Tuff	SBIV, WB II	Contact/Wet Lay	60 square feet per gallon/100 square feet per gallon
Duro-Fleece	CR-20, WB II	Wet Lay	Spatter/100 square feet per gallon
Duro-Fleece Plus	CR-20, WB II	Wet Lay	Spatter/100 square feet per gallon

10. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.

**TABLE 10: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER
SYSTEM TYPE A-3: ADHERED INSULATION with ADHERED ROOF COVER**

SYSTEM NO.	ALLOWABLE UPLIFT CAPACITY (lbs/ft ²)	INSULATION			COVERBOARD			MEMBRANE TYPE	ADHESIVE	FIRE RATING UL790/ASTM E108	
		Type	Attachment	Rate	Type	Adhesive	Rate			Class	Maximum Incline
92	-262.5	2 inch-thick Duro-Guard ISO IV-A	CR 20	¾ inch wide ribbons 12 inches on center	None	N/A	N/A	Duro-Fleece	CR 20	A	1½:12
93	-457.5	Two layers minimum 1¼-inch-thick Duro-Guard ISO II-A	Olybond Insulation Adhesive	¾ inch wide ribbons 12 inches on center	None	N/A	N/A	Duro-Tuff	WB II	A	3:12
94	-360	Two layers minimum 1½ inch-thick Duro-Guard ISO IV-A	CR 20	3 inch wide ribbons 12 inch on center	¼ inch Securock	CR 20	3 inch wide ribbons 12 inch on center	Duro-Fleece	CR 20	A	1½:12

**TABLE 11: STEEL DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER
SYSTEM TYPE A-3: ADHERED INSULATION with ADHERED ROOF COVER**

SYSTEM NO.	ALLOWABLE UPLIFT CAPACITY (lbs/ft ²)	INSULATION			MEMBRANE TYPE	ADHESIVE	FIRE RATING UL790/ASTM E108	
		Type	Attachment	Rate			Class	Maximum Incline
95	-45	One or more layers of SECUROCK Gypsum-Fiber Roof Board or DensDeck, Max. 1-inch-thick	Duro-Fleece Membrane Adhesive	¾-inch ribbons spaced 6 inches o.c.	Duro-Fleece Plus	WB II	A	2:12

Section D (Steep Sloped Roof System)

Roof System Manufacturer: Westlake Royal Roofing LLC

Notice of Acceptance Number: 22-0714.13

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

Zone 1: N/A Zone 2e: N/A Zone 2n: N/A Zone 2r: N/A Zone 3e: N/A Zone 3r: N/A

Deck Type: Tectum

Type Underlayment: 30lb Felt ASTM D226 Type II

Insulation: N/A

Fire Barrier: N/A

Fastener Type & Spacing: Truefast TL 12" OC Field & 6" OC Laps

Adhesive Type: Peel & /Stick

Type Cap Sheet: Polyglass TU, Plus

Roof Covering: Saxony 900 Tile

Type & Size
Drip Edge: 3"X3" Galvanized Drip Edge

Roof Slope:
6 : 12

Ridge Ventilation?
N/A

Mean Roof Height: 50.0'

Florida Building Code 7th Edition 2020
High-Velocity Hurricane Zone Uniform Permit Application Form for Miami-Dade County
Section E (Tile Calculations)

For Moment based tile systems, choose Method 1. Compare the values for M_p with the value from M_r ; if the M_p values are greater than or equal to the M_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

Enter positive uplift pressures when using this table

(Zone 1: <u>68.0</u> x λ <u>0.315</u> = <u>21.42</u>) - Mg :	<u>7.16</u> Mr ₁ <u>14.26</u>	Product Approval M _r	<u>60.00</u>
(Zone 2e: <u>68.0</u> x λ <u>0.315</u> = <u>21.42</u>) - Mg :	<u>7.16</u> Mr ₂ <u>21.42</u>	Product Approval M _r	<u>60.00</u>
(Zone 2n: <u>109.0</u> x λ <u>0.315</u> = <u>34.34</u>) - Mg :	<u>7.16</u> Mr ₃ <u>34.34</u>	Product Approval M _r	<u>60.00</u>
(Zone 2r: <u>109.0</u> x λ <u>0.315</u> = <u>34.34</u>) - Mg :	<u>7.16</u> Mr ₄ <u>34.34</u>	Product Approval M _r	<u>60.00</u>
(Zone 3e: <u>109.0</u> x λ <u>0.315</u> = <u>34.34</u>) - Mg :	<u>7.16</u> Mr ₅ <u>34.34</u>	Product Approval M _r	<u>60.00</u>
(Zone 3r: <u>157.0</u> x λ <u>0.315</u> = <u>49.46</u>) - Mg :	<u>7.16</u> Mr ₆ <u>49.46</u>	Product Approval M _r	<u>60.00</u>

Tile attachment method: #N/A

Alternate Tile attachment method:

ICP Adhesives Polyset AH-160 Medium paddy placement of 18 grams.

For Uplift based tile systems use Method 3. Compared the values for F with the values for F_r . If the F values are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3* "Moment Based Tile Calculations Per RAS 127"

(Zone 1: _____ x L _____ = _____ x w; = _____) - (W) x cos _____ = Fr _____	Product Approval F'
(Zone 2e: _____ x L _____ = _____ x w; = _____) - (W) x cos _____ = Fr _____	Product Approval F'
(Zone 2n: _____ x L _____ = _____ x w; = _____) - (W) x cos _____ = Fr _____	Product Approval F'
(Zone 2r: _____ x L _____ = _____ x w; = _____) - (W) x cos _____ = Fr _____	Product Approval F'
(Zone 3e: _____ x L _____ = _____ x w; = _____) - (W) x cos _____ = Fr _____	Product Approval F'
(Zone 3n: _____ x L _____ = _____ x w; = _____) - (W) x cos _____ = Fr _____	Product Approval F'

***Method 2 "Simplified Tile Calculations" only applicable in Broward County**

Where to Obtain Information		
Description	Symbol	Where to find
Design Pressure	Zones 1, 2e, 2n, 2r, 3e, 3n	From the applicable Table in RAS-127 or be an engineering analysis prepared by a PE based upon ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval / Notice of Acceptance
Restoring Moment due to Gravity	M_p	Product Approval / Notice of Acceptance
Attachment Resistance	M_r	Product Approval / Notice of Acceptance
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval / Notice of Acceptance
Required Uplift Resistance	F	Calculated
Average Tile Weight	W	Product Approval / Notice of Acceptance
Tile Dimensions	l = length w = width	Product Approval / Notice of Acceptance
All calculations must be submitted to the Building Official at the time of permit application.		



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

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 Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 22-0411.06 and consists of pages 1 through 27.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA-No.: 23-0509.06
Expiration Date: 08/22/28
Approval Date: 09/07/23
Page 1 of 27

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Materials: PVC
Deck Type: Concrete
Maximum Design Pressure: -502.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
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-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 65 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



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
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville
Duro-Guard EPS	Expanded polystyrene	Duro-Last Roofing, Inc.
DensDeck Prime	Silicon treated gypsum	Georgia-Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced insulation board	United States Gypsum Corporation
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
H-Shield CG	Polyisocyanurate foam core laminated to a coated fiberglass facer	Hunter Panels, LLC
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	Polyisocyanurate foam core laminated to a coated fiberglass facer	Duro-Last Roofing, Inc.
Duro-Guard ISO II-G	Polyisocyanurate insulation with fiberglass reinforced organic facers	Duro-Last Roofing, Inc.
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
DEXcell FA Glass Mat Roof Board	Gypsum core, heavy duty glass mat facer insulation/roof board	National Gypsum Company



APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Duro-Last Poly-Plate	Round plastic stress plates.	2" round	Duro-Last Roofing, Inc.
2.	Duro-Last #14 Concrete Screws	Corrosion resistant, drill point fastener with #3 Phillips head.	Various Lengths	Duro-Last Roofing, Inc.
3.	Duro-Last Fluted Concrete Nails	Corrosion resistant, 0.22" shank with a flat top pan head.	Various Lengths	Duro-Last Roofing, Inc.
4.	Duro-Last Cleat Plate	0.035" thick galvalume stress plates.	2.4"	Duro-Last Roofing, Inc.
5.	Duro-Last #14 HD Fastener	Roofing and insulation fasteners, Duro-Coated with #3 Phillips head	Various Lengths	Duro-Last Roofing, Inc.
6.	Duro-Bond Plate 1302	Round, coated galvalume plate (Gold and Black)	3" round	Duro-Last Roofing, Inc.
7.	Dekfast DF-#12-PH3 Fastener	#3 Phillips drive, drill point fastener for use with steel and wood decks	Various	SFS Group USA, Inc.
8.	Dekfast DF-#15-PH3 Fastener	#3 Phillips drive fastener for use with steel, wood and concrete decks	Various	SFS Group USA, Inc.
9.	Isoweld F1-P-6.8-PVC Plate	G-90 steel plate with PVC coating for insulation	3" dia.	SFS Group USA, Inc.
10.	Duro-Grip OlyBond 500	Dual-component polyurethane adhesive	10 gal.	Duro-Last Roofing, Inc.
11.	Duro-Last WB II Adhesive	Polymeric waterborne membrane adhesive.	5 gal. pail	Duro-Last Roofing, Inc.
12.	Duro-Last SB IV	Low VOC solvent-based membrane adhesive.	5 gal. pail	Duro-Last Roofing, Inc.
13.	Duro-Grip Weather-Tite One Step	Insulation Adhesive	1.5 Liter Cartridge	Duro-Last Roofing, Inc.
14.	Duro-Fleece CR-20 Membrane Adhesive	Two-component membrane adhesive.	10 gal.	Duro-Last Roofing, Inc.
15.	Duro-Fleece Membrane Adhesive	Two-component membrane adhesive.	10 gal.	Duro-Last Roofing, Inc.



EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Architectural Testing	B8983.01-106-18	TAS 117(A)	08-27-12
FM Approvals	J.I. 2M4A8 .AM	Class 4470	03-05-87
	J.I. 3Y5A6.AM	Class 4470	03-10-95
	J.I. 1X2A7 .AM	Class 4470	08-90-99
	3005604	Class 4470	03-13-00
	3008342	Class 4470	10-19-00
	3023458	Class 4450	06-18-06
	3026128	Class 4450	08-04-06
	3026508	Class 4470	05-03-07
	3006989	Class 4470	02-09-01
	3015816	Class 4470	01-09-03
	3010289	Class 4470	04-13-01
	3014929	Class 4470	05-23-03
	3010987	Class 4470	04-23-02
	3032172	Class 4470	06-12-09
	3040346	Class 4470	09-28-11
	3014692	Class 4470	08-05-03
	3040741	Class 4470	10-17-11
3054028	Class 4470	05-25-16	
3044466	Class 4470	11-07-12	
Trinity ERD	D42320.08.12	TAS 114	08-31-12
	D43030.01.13	TAS 114/TAS 117	03-13-13
	D42320.11.12	TAS 114	11-30-12
	SFS-SC10010.02.16-R1	TAS 114	07-06-16
Intertek Testing Services, NA Inc.	3119586-001	TAS 111	07-10-07
PRI Construction Materials Technologies, LLC	DLRI-030-02-01	TAS 114(D)	04-01-13
	DLRI-045-02-01	TAS 114(D)	08-24-13
	DLRI-021-02-01.12	ASTM D1761/D1876	06-27-17
	DLRI-058-02-01	TAS 117(B) TAS 114(D)	07-06-14
NEMO ETC, LLC	4r-DL-19-SSTHP-01.A.R2	ASTM D4434	04-29-20
	4r-DL-19-SSTHP-01.B	ASTM D4434	04-29-20
	4p-DL-23-SSLAP-01.A	Physical Properties	06-09-23



Membrane Type: Single Ply, PVC
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500-psi structural concrete
System Type A(3): 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.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)

Duro-Guard ISO II-A
Minimum 0.5" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Top Insulation Layer

DEXcell FA Glass Mat Roof Board
Minimum ¼" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Note: All insulation shall be adhered to the deck with Duro-Grip CR-20 Insulation Adhesive applied 12" o.c. in ¾"-1" wide ribbons. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: One ply of Duro-Last membrane or Duro-Tuff membrane fully adhered with Duro-Last WB II Adhesive applied at a minimum rate of 140 ft²/gal. to substrate only. Laps are sealed with a minimum of 1.5" wide heat weld.
 Or
 One ply of Duro-Fleece membrane fully adhered with Duro-Last WB II Adhesive applied at a minimum rate of 100 ft²/gal. to substrate only. Laps are sealed with a minimum 1.5" wide heat weld.
 Or
 One ply of Duro-Last membrane fully adhere with Duro-Last SB IV Adhesive applied at a minimum rate of 60 ft²/gal. (apply 120 ft²/gal. to both the membrane and substrate). Laps are sealed with a minimum of 1.5" wide heat weld.
 Or
 One ply of Duro-Fleece membrane adhered with Duro-Fleece Membrane Adhesive applied in ¾" ribbons spaced 12" o.c. Laps are sealed with a minimum of 1.5" wide heat weld.

Maximum Design Pressure: -300 psf. (See General Limitation #9)



CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf, insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered 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



NOA-No.: 23-0509.06
Expiration Date: 08/22/28
Approval Date: 09/07/23
Page 27 of 27



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

ICP Construction, Inc.
2775 Barber Road
Norton, OH 44203

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: Polyset Commercial Roof Adhesive

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 3.
The submitted documentation was reviewed by Alex Tigera.



NOA No. 21-1115.05
Expiration Date: 02/03/27
Approval Date: 02/03/22
Page 1 of 3

ROOFING COMPONENT APPROVAL:

Category: Roofing
Sub Category: Cements-Coatings-Adhesives
Materials: Polyurethane

SCOPE:

This approves **Polyset Commercial Roof Adhesive**, manufactured by **ICP Construction, Inc.** in Tomball, TX as described in this Notice of Acceptance. The use of this acceptance is limited to those roof assemblies where Polyset Commercial Roof Adhesive is specifically listed as an accepted component in their Notice of Acceptance.

PRODUCT DESCRIPTION:

Polyset Commercial Roof Adhesive is a dual component urethane adhesive with the properties described below:

<u>Property</u>	<u>Standard</u>	<u>Properties</u>
Flame Spread Index	ASTM E 84	15
Smoke Developed Index	ASTM E 84	200
Density	ASTM D 1622	2.8 lb/ft ³
Tensile Strength	ASTM D 1623	29 psi
Compressive Strength	ASTM D 1621	11 psi (Parallel to Rise)
		9 (Perp. To Rise)
Water Absorption	ASTM D 2842	4.2%
Self Ignition Temperature	ASTM D 1929	1000°F

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
NEMO ETC, LLC	Various Standards	4p-ICP-19-SSLAP-04.A	5/28/21
Intertek	ASTM E84	L6731.01-121-18-R0	1/19/21

MANUFACTURING LOCATION:

1. Tomball, TX.



NOA No. 21-1115.05
Expiration Date: 02/03/27
Approval Date: 02/03/22
Page 2 of 3

LIMITATIONS:

1. Fire classification is not a part of this Notice of Acceptance. Maximum design pressure ratings shall be as define in the Roof Assembly Notice of Acceptance.
2. Polyset Commercial Roof Adhesive is a component used in approved roof assemblies. Roof assemblies are approved under specific roof assembly Notice of Acceptances.
3. Polyset Commercial Roof Adhesive may be used with any approved roof assembly listing Polyset Commercial Roof Adhesive as a component part of an assembly in the approval.
4. Polyset Commercial Roof Adhesive shall have a quality control testing program by an approved independent listing agency having unannounced follow-up visits. Follow up test results shall be made available to Miami-Dade Country Product Control Division upon request.

INSTALLATION:

Polyset Commercial Roof Adhesive shall be installed in strict compliance with the roof assembly's Notice of Acceptance, and manufacturer's published literature.

LABELING:

ICP Construction, Inc. shall mark each packing container or label with manufacturer's name, address, shelf life of product, and with the Miami-Dade County Product Control Seal as shown below or the words "Miami-Dade Approved."



BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or applicable Building Code in order to properly evaluate the installation of this product. This Notice of Acceptance on its own cannot be used to obtain a building permit.

END OF THIS ACCEPTANCE





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

NOTICE OF ACCEPTANCE (NOA)

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

Westlake Royal Roofing LLC
7575 Irvine Center Drive #100
Irvine, California, USA 92816

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: Saxony 900-Slate & Saxony Split Slate, Saxony 900- Shake & Saxony 900-Split Shake- Flat Profile Tile

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 revises NOA# 21-0420.04 and consists of pages 1 through 9.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 22-0714.13
Expiration Date: 05/02/24
Approval Date: 08/11/22
Page 1 of 9

ROOFING ASSEMBLY APPROVAL

Category: Roofing
 Sub-Category: Roofing Tiles
 Material: Concrete

1. SCOPE

This approves a roofing system using **Saxony 900-Slate & Split Slate, Saxony 900- Shake & Saxony 900- Split Shake** as manufactured by Westlake Royal Roofing LLC, in **Okeechobee, Florida** as described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

<u>Manufactured by Applicant</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Saxony 900-Slate & Split Slate, Saxony 900- Shake & Saxony 900- Split Shake	L = 17" W = 13" H = 1.19" Thickness: .70"	TAS 112	Flat, Type 3a interlocking Class III, concrete tile equipped with two nail holes. For direct deck or battened nail-on, mortar or adhesive set applications.
Trim Pieces	L= varies W = varies Varying thickness	TAS 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 PRODUCTS MANUFACTURED BY OTHERS

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
ICP Adhesives Polyset AH-160	Two component polyurethane foam adhesive.	ICP Adhesives and Sealants, Inc.
TILE BOND™ Roof Tile Adhesive	Single component polyurethane foam roof tile adhesive.	The Dow Chemical Company
Touch 'N Seal StormBond® 2 Two-Component Polyurethane Roof Tile Adhesive	Two component polyurethane foam adhesive.	DAP Foam, Inc.
Touch 'N Seal StormBond® One Component Polyurethane Roof Tile Adhesive	One component polyurethane foam adhesive.	DAP Foam, Inc.
"Tile Tite" Roof Tile Mortar	Premixed, pre-bagged roof tile mortar.	Bernuda Roof Co. Inc.
Bonsal Roof Tile Mortar	Premixed, pre-bagged roof tile mortar.	Bonsal American
"Quikrete" Roof Tile Mortar, FL-15	Premixed, pre-bagged gray roof tile mortar.	The Quikrete Companies, Inc.



2.2 MANUFACTURING LOCATION

1. Okeechobee, Florida

2.3 SUBMITTED EVIDENCE:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Redland Technologies	7161-03 Appendix III	PA 102 & PA 102(A)	Dec. 1991
	7161-03 Appendix II	PA 108 (Nail-On)	Dec. 1991
	Letter	PA 108 (Nail-On)	Aug. 1994
	P0631-01	PA 108 (Mortar Set)	July 1994
	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
The Center for Applied Engineering, Inc.	94-060A	PA 101 (Mortar Set)	March, 1994
	94-084	PA 101 (Adhesive Set)	May 1994
	25-7094-2	PA 102 (4" Headlap, Nails, Direct Deck, New Construction)	Oct. 1994
	25-7094-8	PA 102 (4" Headlap, Nails, Battens)	Oct. 1994
	25-7094-5	PA 102 (4" Headlap, Nails, Direct Deck, Recover/Reroof)	Oct. 1994
	25-7183-6	PA 102 (2 Quik-Drive Screws, Direct Deck)	Feb. 1995
	25-7183-5	PA 102 (2 Quik-Drive Screws, Battens)	Feb. 1995
	25-7214-1	PA 102 (1 Quik-Drive Screw, Direct Deck)	March, 1995
	25-7214-5	PA 102 (1 Quik-Drive Screw, Battens)	March, 1995
	Project No. 307025 Test #MDC-77	PA 100	Oct. 1994
Celotex Corporation Testing Service	520109-1	PA 101	Dec. 1998
	520111-4	PA 101	March 1999
	520191-1	PA 101	March 1999
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	October 2007
	Calculations	Moment of Gravity	August 2007
	Calculations	25-7094	February 1996
	Calculations	25-7496	April 1996
	Calculations	25-7584	December 1996
	Calculations	25-7804b-8	December 1996
	Calculations	25-7804-4 & 5	December 1996
	Calculations	25-7848-6	December 1996
	Calculations	25-7183	March 1995
	Calculations	Aerodynamic Multipliers Two Paddy Adhesive Set System	April 1999 April 1999
American Test Lab of South Florida	TAS 112	RT1023.01-18	October 30, 2018
Walker Engineering, Inc.	Calculations	Restoring Moment Aerodynamic Multipliers	March 29, 2018
PRI Construction Material	BORR-022-02-01	TAS 101	02/25/2019



3. LIMITATIONS

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with TAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Miami-Dade Product Control office for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 Mechanically attached tiles minimum 4/12 slope.
- 3.6 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.7 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.8 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.

4. INSTALLATION

- 4.1 Saxony 900-Slate & Split Slate, Saxony 900- Shake & Saxony 900- Split Shake and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft.)	Width-w (ft)
Saxony 900-Slate & Split Slate, Saxony 900- Shake & Saxony 900- Split Shake	10.9	1.42	1.08

Table 2: Aerodynamic Multipliers - λ (ft ³)		
Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck Application
Saxony 900-Slate & Split Slate, Saxony 900- Shake & Saxony 900- Split Shake	0.291	0.315



Table 3: Restoring Moments due to Gravity - M_g (ft.-lbf)												
Tile Profile	2":12"		3":12"		4":12"		5":12"		6":12"		7":12" or greater	
	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
Saxony 900-Slate & Split Slate, Saxony 900-Shake & Saxony 900-Split Shake	N/A	7.70	N/A	7.63	4.74	7.51	4.65	7.71	4.53	7.17	4.40	6.97

Table 4: Attachment Resistance Expressed as a Moment - M_r (ft.-lbf) for Mechanically Attached Systems				
Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Saxony 900-Slate & Split Slate, Saxony 900- Shake & Saxony 900- Split Shake	2-10d Ring Shank Nails	30.9	38.1	17.2
	1-10d Smooth or Screw Shank Nail	7.3	9.8	4.9
	2-10d Smooth or Screw Shank Nails	14.0	18.8	7.4
	1 #8 Screw	30.8	30.8	18.2
	2 #8 Screw	51.7	51.7	24.4
	1-10d Smooth or Screw Shank Nail (Field Clip)	24.3	24.3	24.2
	1-10d Smooth or Screw Shank Nail (Eave Clip)	19.0	19.0	22.1
	2-10d Smooth or Screw Shank Nails (Field Clip)	35.5	35.5	34.8
	2-10d Smooth or Screw Shank Nails (Eave Clip)	31.9	31.9	32.2
		2-10d Ring Shank Nails ¹	50.3	65.5

¹ Installation with a 4" tile headlap and fasteners are located a min. of 2½" from head of tile.



**Table 5: Attachment Resistance Expressed as a Moment M_r (ft-lbf)
for Two Paddy Adhesive² Set Systems**

Tile Profile	Tile Application	Minimum Attachment Resistance
Saxony 900 Slate &, Shake & Split Shake	TILE BOND™ Roof Tile Adhesive	63 ³
	TILE BOND™ Roof Tile Adhesive	65 ⁴
	ICP Adhesives Polyset® AH-160	31.3 ⁵
	Touch 'N Seal StormBond® 2	59 ⁶
	Touch 'N Seal StormBond® (one component)	105 ⁷

- 2 See foam adhesive manufacturer's component approval for installation requirements.
 3 Medium paddy weight of 8 grams per paddy of TILE BOND™ Roof Tile Adhesive
 4 Medium paddy weight of 16 grams per paddy of TILE BOND™ Roof Tile Adhesive
 5 Medium paddy weight of 8 grams per paddy of Polyset® AH-160
 6 Medium paddy weight of 8 grams per paddy of Touch 'N Seal StormBond® 2
 7 Medium paddy weight of 18.7 grams between tile and underlayment, paddy weight of 10.5 grams on overlap of tile of Touch 'N Seal StormBond® (one component)

**Table 6: Attachment Resistance Expressed as a Moment - M_r (ft-lbf)
for Single Paddy Adhesive Set Systems**

Tile Profile	Tile Application	Minimum Attachment Resistance
Saxony 900 Slate &, Shake & Split Shake	ICP Adhesives Polyset® AH-160	119 ⁸
	ICP Adhesives Polyset® AH-160	115 ⁹
	ICP Adhesives Polyset® AH-160	83 ¹⁰
	ICP Adhesives Polyset® AH-160	60 ¹¹
	Touch 'N Seal StormBond® 2	93 ¹²
	Touch 'N Seal StormBond® 2	62 ¹³

- 8 Large paddy weight of 45 grams of Polyset® AH-160
 9 Large paddy weight of 34 grams of Polyset® AH-160
 10 Medium paddy weight of 24 grams of Polyset® AH-160
 11 Medium paddy weight of 18 grams of Polyset® AH-160
 12 Large paddy weight of 45 grams of Touch 'N Seal StormBond® 2
 13 Medium paddy weight of 24 grams of Touch 'N Seal StormBond® 2

**Table 7: Attachment Resistance Expressed as a Moment - M_r (ft-lbf)
for Mortar Set Systems**

Tile Profile	Tile Application	Attachment Resistance
Saxony 900 Slate &, Shake & Split Shake	Mortar Set ¹⁴	43.9

- 14 Bermuda Roof Co. Inc. Tile-Tite Roof Tile Mortar.



5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo (See Detail Below), or following statement: "Miami-Dade County Product Control Approved".

BORAL

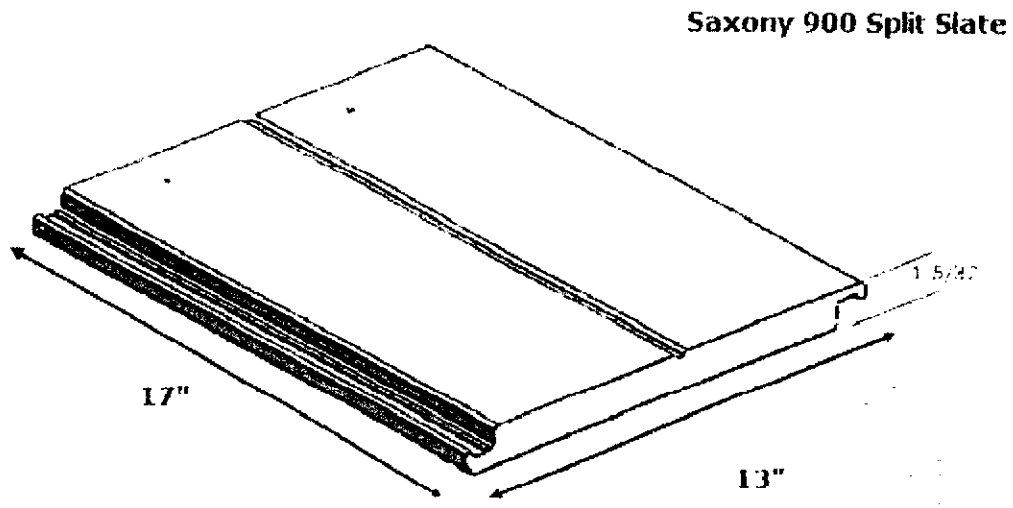
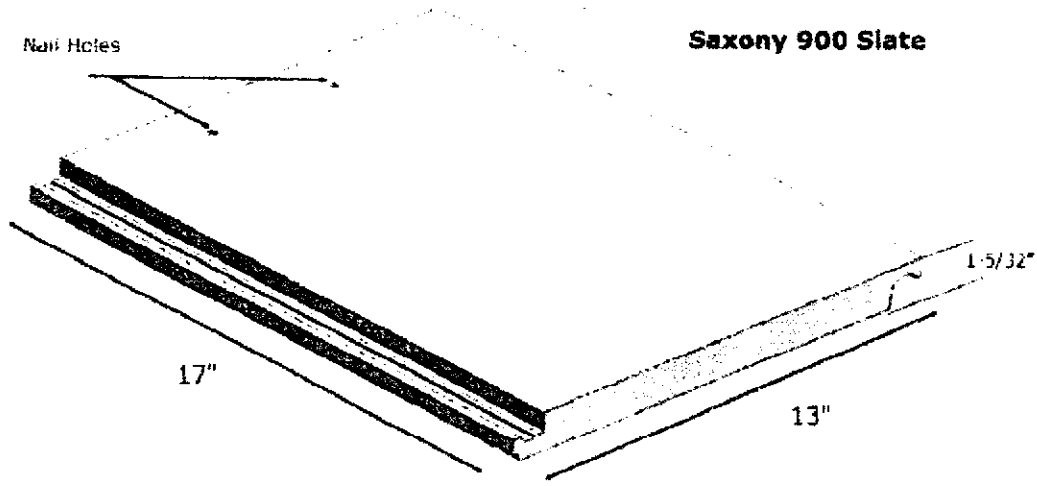
(LOCATED ON UNDERSIDE OF TILE)

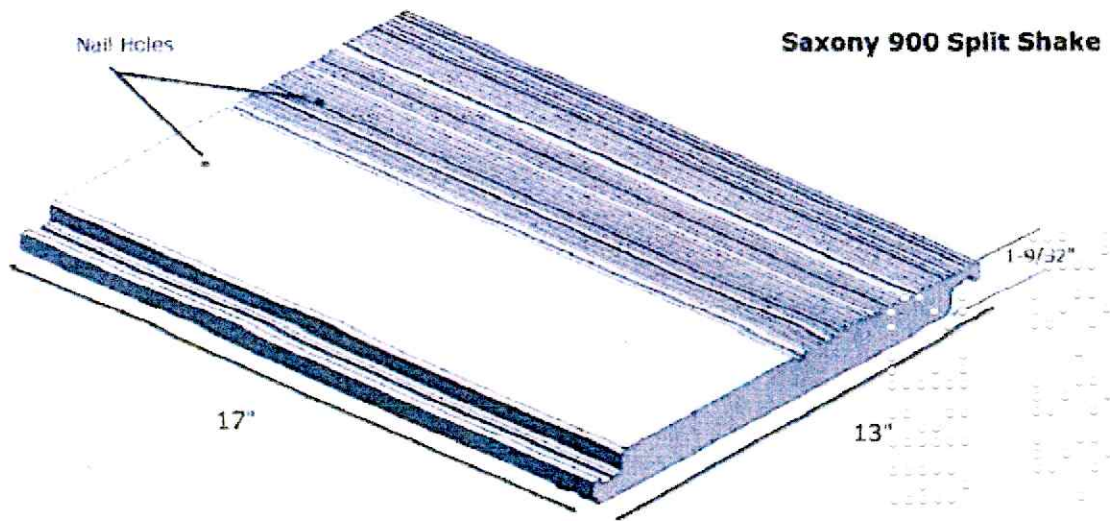
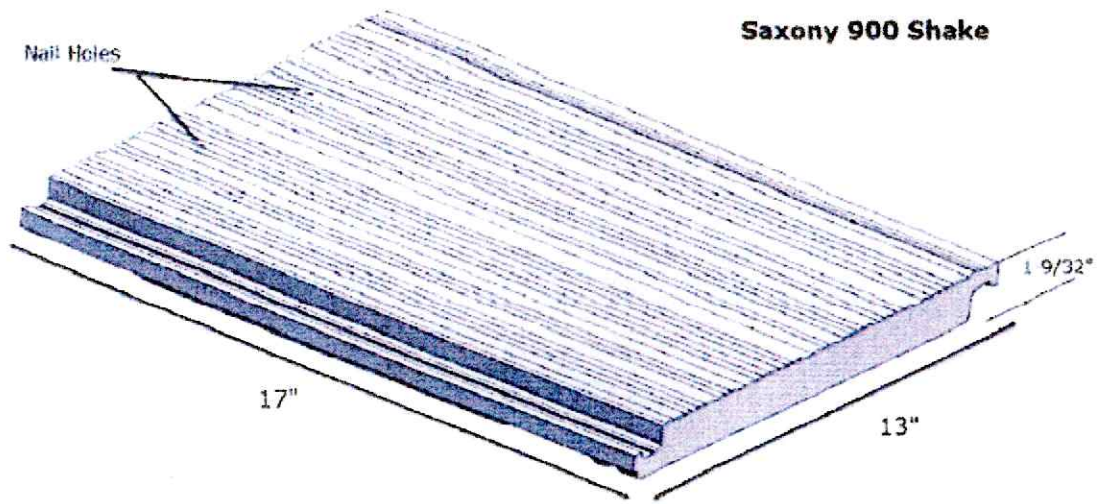
6. BUILDING PERMIT REQUIREMENTS:

- 6.1 Application for building permit shall be accompanied by copies of the following:
 - 6.1.1 This Notice of Acceptance.
 - 6.1.2 Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.



PROFILE DRAWINGS





END OF THIS ACCEPTANCE





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

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

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA Inc.
1111 W. Newport Center Drive
Deerfield Beach, FL 33442

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: Polyglass Polystick Underlayments

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 revises NOA# 21-1217.02 and consists of pages 1 through 12.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 22-1221.01
Expiration Date: 09/13/27
Approval Date: 04/06/23
Page 1 of 12

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS, APP

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick IR-Xe <i>Manufacturing</i> <i>Location #1, #2, & #3</i>	65' x 3' Or 33.4' x 3' 60 mils thick	ASTM D1970	A fine granular/sand top surface self-adhering, APP polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick MU-X <i>Manufacturing</i> <i>Location #1, #2, & #4</i>	65' x 3' 60 mils thick	ASTM D1970	A polypropylene film surface self-adhering, SBS polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield.
Polystick TU Max <i>Manufacturing</i> <i>Location #1, #2, & #3</i>	65'8" x 3'3-3/8" 60 mils thick	TAS 103	A rubberized asphalt self-adhering, polyester reinforced waterproofing membrane. Designed as a roof tile underlayment.
Polystick TU P <i>Manufacturing</i> <i>Location #1, #2, & #3</i>	32'10" x 3'3-3/8" 130 mils thick	TAS 103	A rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface designed for use as a tile roof underlayment.
Polystick TU Plus (Surface Printing) <i>Manufacturing</i> <i>Location #1, #2, #3, & #5</i>	65' x 3'3-3/8" 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
HydraGuard Dual Pro <i>Manufacturing</i> <i>Location #1, #2, #3, & #5</i>	65' x 3'3-3/8" 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
HydraGuard Tile Pro <i>Manufacturing</i> <i>Location #1, #2, #3, & #5</i>	65' x 3'3-3/8" 80 mils thick	TAS 103	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
Polystick MTS <i>Manufacturing</i> <i>Location #1, #2, #3, and #4</i>	65'8" x 3'3-3/8" 60 mils thick	TAS 103	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.



PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick MTS <i>Manufacturing Location #5</i>	65'8" x 3'3-3/8" 60 mils thick	ASTM D 1970	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick MTS Plus <i>Manufacturing Location #1, #2, #3, & #4</i>	65'8" x 3'3-3/8" 60 mils thick	TAS 103	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick MTS Plus <i>Manufacturing Location #5</i>	65'8" x 3'3-3/8" 60 mils thick	ASTM D 1970	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Elastoflex S6 G <i>Manufacturing Location #1 & #2</i>	32'10" x 3'3-3/8"	TAS 103 and ASTM D6164	Polyester reinforced, SBS modified bitumen membrane with a sanded back face and a granule top surface. For use in roof tile underlayment systems.
Polyflex SA P <i>Manufacturing Location #2 & #3</i>	32' 10" x 3' 3-3/8"	TAS 103 and ASTM D6222	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
ELASTOFLEX SA V <i>Manufacturing Location #3 & #4</i>	65' 8" x 3' 3-3/8"	ASTM D1970	Self-adhered, fiberglass reinforced, SBS modified bitumen base or interplay membrane with a self-adhering back face and a smooth top surface.

MANUFACTURING PLANTS:

1. Hazelton, PA
2. Winter Haven, FL
3. Waco, TX
4. Fernley, NV
5. Ponte di Piave TV, Italy



EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI	DAFP-002-02-01	ASTM D1623	03/08/18
Trinity ERD	P40390.10.12	ASTM D 1970	10/03/12
	P37590.07.13-1	ASTM D6164	07/02/13
	P45270.05.14	TAS 103, TAS 110 & ASTM D1623	05/12/14
	P46520.10.14	ASTM D1623	10/03/14
	P44360.10.14-R1	TAS 103 & TAS 110	10/07/14
	P43290.10.14-R1	ASTM D 1970 & TAS 110	10/17/14
	PLYG-SC7550.03.15	TAS 103 & ASTM D4798	03/24/15
	PLYG-SC10130.06.16-3	TAS 103 & TAS 110	06/27/16
	PLYG-SC10130.06.16-1	ASTM D1970 & TAS 110	06/27/16
	PLYG-SC10130.09.16	ASTM D1623	09/22/16
	PLYG-SC13035.08.17	TAS 103 & ASTM D4798	10/31/17
	NEMO ETC, LLC	PLYG-SC13320.10.17-R1	TAS 103
4-PLYG-18-004.03.18		ASTM D1970	03/29/18
4j-PLYG-19-SSUDL-00.A		ASTM D1970	09/10/19
4S-PLYG-18-004.10.19-G		TAS 103	10/08/19
4S-PLYG-18-004.10.19-I		TAS 103	10/08/19
4S-PLYG-18-004.10.19-L		TAS 103	10/09/19
4S-PLYG-18-004.12.19-F		TAS 103	12/18/19
4j-PLYG-19-SSUDL-02.A		TAS 103	01/02/20
4S-PLYG-18-004.01.20-H		ASTM D1970	01/14/20
4S-PLYG-18-004.01.20.K		ASTM D1970	01/14/20
4S-PLYG-18-004.01.20.A		TAS 103	01/16/20
4S-PLYG-18-004.01.20.B		ASTM D6164	01/16/20
4p-DOW-19-SSLAP-01.A.R2		ASTM D1623	02/10/20
PLYG-SC15855.05.20-A		TAS 103 & TAS 110	05/29/20
4S-PLYG-18-004.12.19.D		ASTM D1970	10/27/20
4j-PLYG-19-SSUDL-01.A		TAS 103	11/18/20
4j-PLYG-20-SSUDL-05.C		TAS 103	11/19/20
4j-PLYG-20-SSUDL-05.A		ASTM D1970	11/19/20
4p-ICP-20-SSLAP-03.A-R1		ASTM D1623	03/04/21
PLYG-SC15855.06.20-B		ASTM D4073	05/12/21
4j-PLYG-21-SSUDL-03.A		ASTM D1970	10/29/21
4j-PLYG-20-SSUDL-07.A		ASTM D1623	10/29/21
4j-PLYG-20-SSUDL-09.A		TAS 103	10/29/21
4j-PLYG-21-SSUDL-04.B		ASTM D1970	01/17/22
4j-PLYG-21-SSUDL-09.A		ASTM D1970	02/14/22
4j-PLYG-21-SSUDL-04.A.R1		TAS 103	07/05/22
4j-PLYG-22-SSUDL-01.A		ASTM D1970	09/08/22
4j-PLYG-22-SSUDL-02.A		ASTM D1970	09/08/22
4j-PLYG-22-SSUDL-03.A		ASTM D1970	09/08/22
4j-PLYG-21-SSUDL-02.A		ASTM D4073	10/12/22



LABELING:

1. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this materials.

INSTALLATION PROCEDURES:

Deck Type 1:	Wood, non-insulated
Deck Description:	Min. 19/32" plywood or wood plank
System Type E(1):	Anchor sheet mechanically fastened to deck, membrane adhered
Anchor/Base Sheet:	One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening:	Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Membrane:	Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Polyflex SA P or ELASTOFLEX SA V , self-adhered.
Surfacing:	See General Limitations Below.
Deck Type 1:	Wood, non-insulated
Deck Description:	Min. 19/32" plywood or wood plank
System Type E(2):	Anchor sheet mechanically fastened to deck, membrane adhered
Anchor/Base Sheet:	One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening:	Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Membrane:	Elastoflex S6 G , hot asphalt applied.
Surfacing:	See General Limitations Below.



Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(3): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Ply Sheet: **Polystick MTS or Polystick MTS Plus**, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
Membrane: **Polystick TU Plus, HydraGuard Tile Pro or HydraGuard Dual Pro**, self-adhered.
Surfacing: See General Limitations Below.

Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(4): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Ply Sheet: **Polystick MTS or Polystick MTS Plus**, self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
Membrane: **Polystick TU Max**, self-adhered.
Surfacing: See General Limitations Below.

Deck Type 1: Wood, non-insulated
Deck Description: Min. 19/32" plywood or wood plank
System Type E(5): Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.
Anchor/Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening: Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Ply Sheet: **Polystick MTS or Polystick MTS Plus**, self-adhered with minimum 3" horizontal laps and *minimum 6" vertical laps.*
Membrane: **Polystick TU P***, self-adhered.
**This 2-Ply System will only use the Waco, TX plant.*
Surfacing: See General Limitations Below.



Deck Type 1:	Wood, non-insulated
Deck Description:	Min. 19/32" plywood or wood plank
System Type E(6):	Base sheet mechanically fastened to deck, subsequent cap membrane self- adhered.
Anchor/Base Sheet:	One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening:	Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4"head lap. (for base sheet only)
Ply Sheet:	Polystick MTS or Polystick MTS Plus , self-adhered with minimum 3" horizontal laps and minimum 6" vertical laps.
Membrane:	Polystick MTS or Polystick MTS Plus , self-adhered.
Surfacing:	See General Limitations Below.

INSTALLATION REQUIREMENTS:

1. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose deck panels, and sweep the deck thoroughly to re move any dust and debris prior to application.
2. Place the underlayment over metal drip edge in accordance with RAS 111.
3. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release film as the membrane is applied. All side laps shall be a minimum of 3" and end laps shall be a minimum of 6". Roll the membrane into place after removing the release strip. Vertical strapping of the roof with Polystick is acceptable. Membrane shall be back nailed in accordance with applicable building code.
4. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions.
5. For ridge applications, center the membrane and roll from the center outward in both directions.
6. Roll or broom the entire membrane surface so as to have full contact with the surface, giving special attention to lap areas.
7. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance.
8. All protrusions or drains shall be initially taped with a 6" piece of underlayment. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of Polystick shall be applied over the underlayment.



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. **Polystick TU Plus, HydraGuard Dual Pro, and HydraGuard Tile Pro** may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems and quarry slate roof assemblies.
Polystick MTS, and Polystick MTS Plus may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, mechanically fastened roof tile systems and quarry slate roof assemblies.
Polystick TU P may be used in asphaltic shingles, wood shakes and shingles, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems and quarry slate roof assemblies.
Polystick IR-Xe may be used in asphaltic shingles, wood shakes and shingles, and quarry slate roof assemblies.
Polystick TU Max may be used in non-structural metal roofing, adhered roof tile using adhesives listed in the table below, and mechanically fastened roof tile systems.
Elastoflex S6 G, and Polyflex SA P may be used in adhered roof tile using adhesives listed in the table below and mechanically fastened roof tile systems.
ELASTOFLEX SA V may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, mechanically fastened roof tile systems and quarry slate roof assemblies.

Roof Tile Adhesives Approved for Use with Tile Underlayment				
	ICP Adhesive Polyset RTA-1	ICP Adhesive Polyset AH-160	DAP Storm Bond® 2 Roof Tile Adhesive	DuPont TILE BOND™ Roof Tile Adhesive
Polystick TU Plus	yes	yes	yes	yes
HydraGuard Dual Pro	yes	yes	yes	yes
HydraGuard Tile Pro	yes	yes	yes	yes
Polystick TU P	yes	yes	yes	n/a
Polystick TU Max	yes	yes	yes	yes
Elastoflex S6 G	yes	yes	n/a	n/a
Polyflex SA P	n/a	yes	n/a	n/a

3. Deck requirements shall be in compliance with applicable building code.
4. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S5 G, Polyflex SA P or ELASTOFLEX SA V** shall be applied to a smooth, clean and dry surface. The deck shall be free of irregularities.
5. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** shall not be adhered directly over a pre-existing roof membrane as a recover system.



6. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** shall not be left exposed as a temporary roof for longer than the amount of days listed in the table below after application. Polyglass reserves the right to revise or alter product exposure times; not to exceed the preceding maximum time limitations.

Exposure Limitations (Days)					
	Winter Haven, FL	Hazelton, PA	Waco, TX	Fernley, NV	Ponte di Piave TV, Italy
Polystick MTS	180	180	180	180	n/a
Polystick IR-Xe	90	90	90	n/a	n/a
Elastoflex S6 G	180	180	n/a	n/a	n/a
Polystick TU Plus	180	180	180	n/a	180
Polystick TU P	180	180	180	n/a	n/a
Polystick TU Max	180	180	180	n/a	n/a
Polystick MTS Plus	180	180	180	180	n/a
Polystick MU-X	180	180	n/a	180	n/a
HydraGuard Dual Pro	180	180	180	n/a	180
HydraGuard Tile Pro	180	180	180	n/a	180
Polyflex SA P	180	n/a	180	n/a	n/a
ELASTOFLEX SA V	n/a	n/a	30	30	n/a

7. 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.



10. Refer to prepared roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products. **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** may be used with any approved roof covering Notice of Acceptance listing **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** as a component part of an assembly in the Notice of Acceptance. If **Polystick IR-Xe, Polystick MU-X, Polystick TU Max, Polystick TU P, Polystick TU Plus, HydraGuard Dual Pro, HydraGuard Tile Pro, Polystick MTS, Polystick MTS Plus, Elastoflex S6 G, Polyflex SA P or ELASTOFLEX SA V** are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Section for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.



POLYGLASS GENERAL APPLICATION GUIDELINES FOR POLYSTICK MEMBRANES

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS.

LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS.

1. Polyglass does accept the direct application of Polystick underlayment membranes to wood decks. Installers are cautioned to refer to applicable local building codes prior to direct deck installation to ensure this is acceptable. Please also refer to applicable Product Data Sheets of the corresponding products.
2. All rolls, with the exception of Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro should be back-nailed in selvage edge seam as per Polyglass Back Nailing Guide. Nails shall be, 11 gauge ring shank type, applied with a minimum 1 3/4" metal disk as required in Miami-Dade County or simplex type nail as otherwise allowable in other regions, at a minimum rate of 12" o.c. Polystick TU Plus, HydraGuard Dual Pro or HydraGuard Tile Pro should be back nailed in designated area marked "nail area, area para clavar" on the face of membrane, with the above stated nails and/or disks. The head lap membrane is to cover the area being back-nailed. (Please refer to applicable local building codes prior to installation.)
3. All seal lap seams (selvage laps) must be rolled with a hand roller to ensure full contact.
4. All fabric over fabric; and granule over granule end laps, shall have a 6" wide, uniform layer of Polyglass POLYPLUS 50, XtraFlex 50 Premium Modified Wet/Dry Cement or Polyglass PG 500 applied in between the application of the lap. The use of mastic between the laps does not apply to Polystick MTS.
5. A maximum of 6 tiles per stack are allowed when loading tile on the underlayments. Refer to the Polyglass Tile Loading Guidelines. See General Limitations #8 and #9.
6. Battens and/or Counter-battens, as required by the tile manufacturers NOA, must be used on all projects for pitch/slopes of 7"/12" or greater. It is suggested that on pitch/slopes in excess of 6 1/4"/12", precautions should be taken, such as the use of battens to prevent tile sliding during the loading process.
7. Minimum cure time after membrane installation & before loading of roofing tiles is Forty-Eight (48) Hours.
8. Polystick membranes may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.
9. Repair of Polystick membranes is to be accomplished by applying Polyglass POLYPLUS 50, XtraFlex 50 Premium Modified Wet/Dry Cement or Polyglass PG 500 to the area in need of repair, followed by a patch of the Polystick material of like kind should be set and hand rolled in place over the area needing such repair. Patching membrane shall be a minimum of 6 inches in either direction. The repair should be installed in such a way so that water will run parallel to or over the top of all laps of the patch.
10. All self-adhered membranes must be rolled to ensure full contact with approved substrates. Polyglass requires a minimum of 35 lbs for a weighted roller for the rolling of the field membrane. Hand rollers are acceptable for rolling of patches or small areas of the roof. Brooming may be used where slope prohibits rolling.
11. All approved substrates should be dry, clean and properly prepared, before any application of Polystick membranes commences. An approved substrate technical bulletin can be furnished upon request. It is recommended to refer to applicable building codes prior to installation to verify acceptable substrates.
12. The Polyglass Miami-Dade Notice of Acceptance (NOA) approval for Polystick membranes can be furnished upon request by our Technical Services Department by calling 1 (800) 894-4563.
13. Questions in regards to the application of Polyglass products should be directed to our Technical Services Department at 1 (800) 894-4563.
14. Polyglass recommends that applicators follow good roofing practices and applicable procedures as outlined by the National Roofing Contractors Association (NRCA).

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS.

LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
APPROVED

NOA No.: 22-1221.01
Expiration Date: 09/13/27
Approval Date: 04/06/23
Page 12 of 12



DURO-**LAST**

THE WORLD'S BEST ROOF®

Sales Rep: **KEVIN BLAESSER**
DURO-LAST
525 Morley Dr.
Saginaw, MI 48601

Phone: **800-248-0280**
Fax:
Date: **3/22/2023**

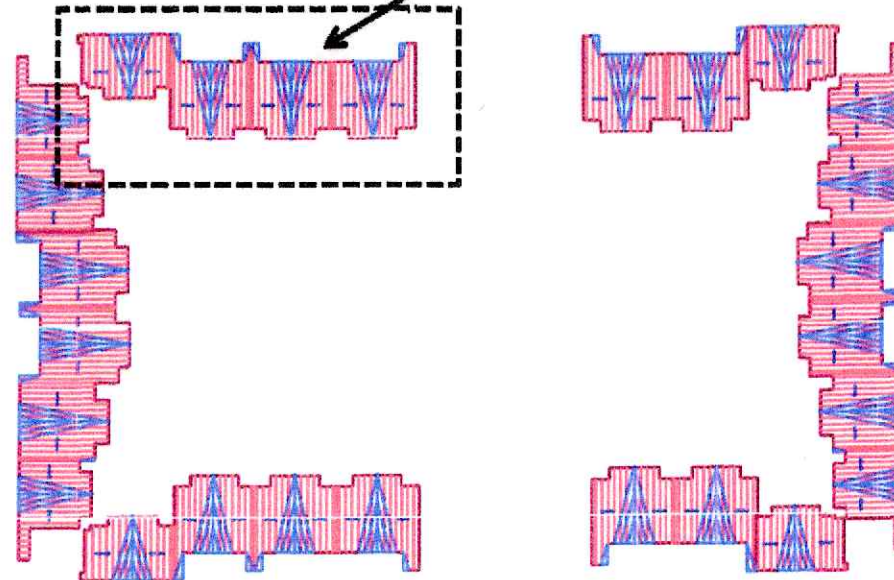
Project Name: **NW 40TH TERRACE - ROOF 1**
Location: **LAUDERDALE LAKES, FL**
Project #: **FL-30865-1**
DL PN#: **n/a**
Copy to: **CHRIS MONHOLLEN**

Tapered System Specifications

Tapered System: **ISO**
Tapered Area: **105.40** Squares
Cricket Area: **25.80** Squares
Slope(s): **1/8"** /ft
Cricket Slope: **1/4"** /ft
Minimum Start: **0.50"**
Max Thickness: **4.50"**
Fill Insulation: **ISO**
Base Layer: **ADD IF NEEDED**
Overlay: **ADD IF NEEDED**
Avg. R-Value: **14.35**

Materials & Labor

Total Squares of Material: **196.96**
Total Squares Application: **176.32**
Approx. Squares of Waste: **20.64**



Notes: **BID PER DESIGN AS SHOWN - SUBJECT TO APPROVAL**

Conceptual Tapered Design based on plans / specs provided

Quote is based on this design and specs shown here. **IMPORTANT** - As a provider of service only, Duro-Last does not assume responsibility for quantities due to errors on submitted plans, drawings or differences on the jobsite. Contractor will confirm all drain locations, perimeter dimensions, materials and specs. Contractor is responsible for confirming this quote to insure that it meets job specs. All tapered shop drawings must be approved prior to installation or shipment of materials.



DURO-LAST®

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Sales Rep: **KEVIN BLAESSER**
DURO-LAST
525 Morley Dr.
Saginaw, MI 48601

Phone: **800-248-0280**
Fax:
Date: **3/22/2023**

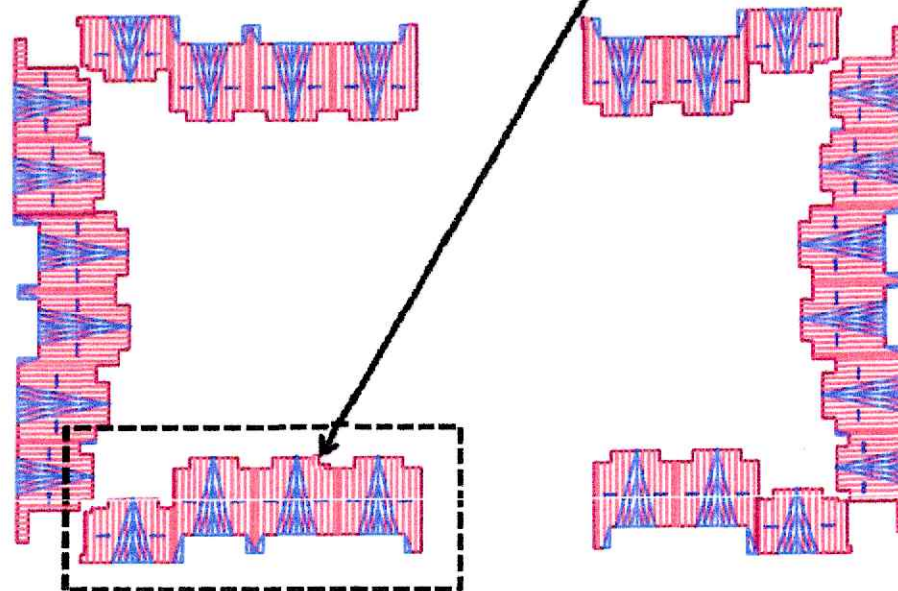
Project Name: **NW 48TH TERRACE - ROOF 3**
Location: **LAUDERDALE LAKES, FL**
Project #: **FL-30665-3**
DL PN#: **n/a**
Copy to: **CHRIS MONHOLLEN**

Tapered System Specifications

Tapered System: **ISO**
Tapered Area: **105.40** Squares
Cricket Area: **25.80** Squares
Slope(s): **1/8"** /ft
Cricket Slope: **1/4"** /ft
Minimum Start: **0.50"**
Max Thickness: **4.50"**
Fill Insulation: **ISO**
Base Layer: **ADD IF NEEDED**
Overlay: **ADD IF NEEDED**
Avg. R-Value: **14.30**

Materials & Labor

Total Squares of Material: **196.96**
Total Squares Application: **176.64**
Approx. Squares of Waste: **20.32**



Notes: **BID PER DESIGN AS SHOWN - SUBJECT TO APPROVAL**

Conceptual Tapered Design based on plans / specs provided

Quote is based on this design and specs shown here. IMPORTANT - As a provider of service only, Duro-Last does not assume responsibility for quantities due to errors on submitted plans, drawings or differences on the jobsite. Contractor will confirm all drain locations, perimeter dimensions, materials and specs. Contractor is responsible for confirming this quote to insure that it meets job specs. All tapered shop drawings must be approved prior to installation or shipment of materials.



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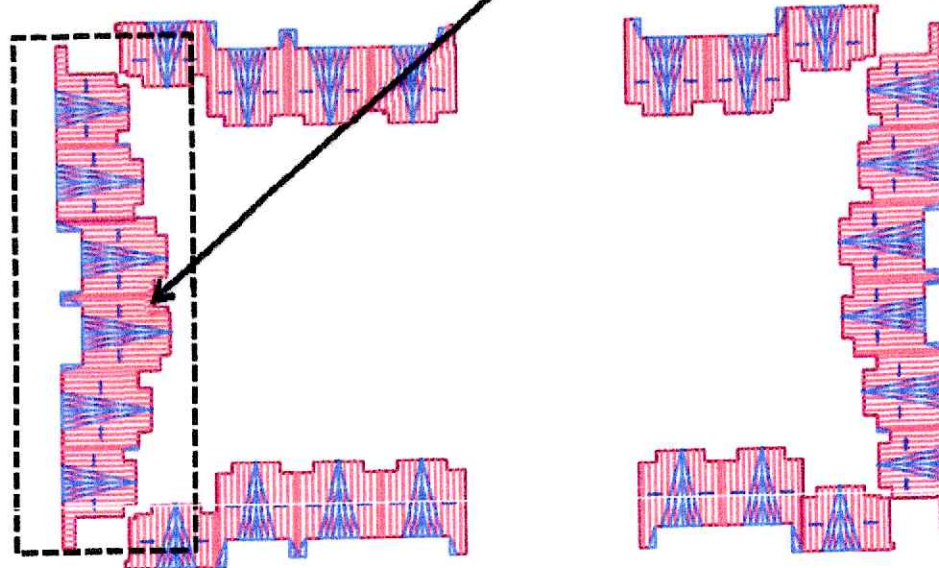
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Location: **LAUDERDALE LAKES, FL**
Project #: **FL-30665-2**
DL PN#: **n/a**
Copy to: **CHRIS MONROLEN**

Tapered System Specifications

Tapered System: **ISO**
Tapered Area: **156.30 Squares**
Cricket Area: **38.64 Squares**
Slope(s): **1/8" /ft**
Cricket Slope: **1/4" /ft**
Minimum Start: **0.50"**
Max Thickness: **6.15"**
Fill Insulation: **ISO**
Base Layer: **ADD IF NEEDED**
Overlay: **ADD IF NEEDED**
Avg. R-Value: **14.20**

Materials & Labor

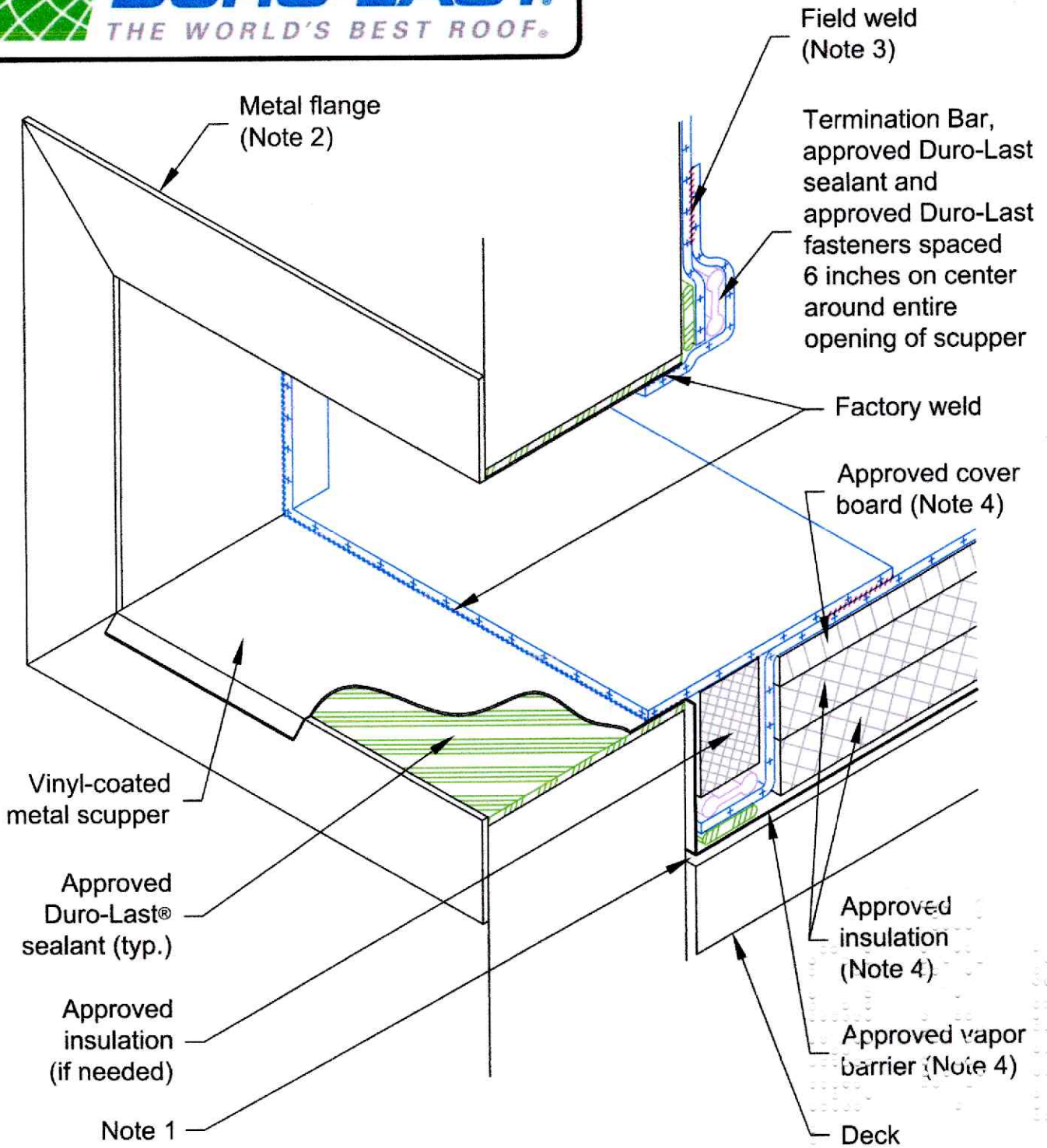
Total Squares of Material: **293.60**
Total Squares Application: **261.66**
Approx. Squares of Waste: **31.94**



Notes: **BID PER DESIGN AS SHOWN - SUBJECT TO APPROVAL**

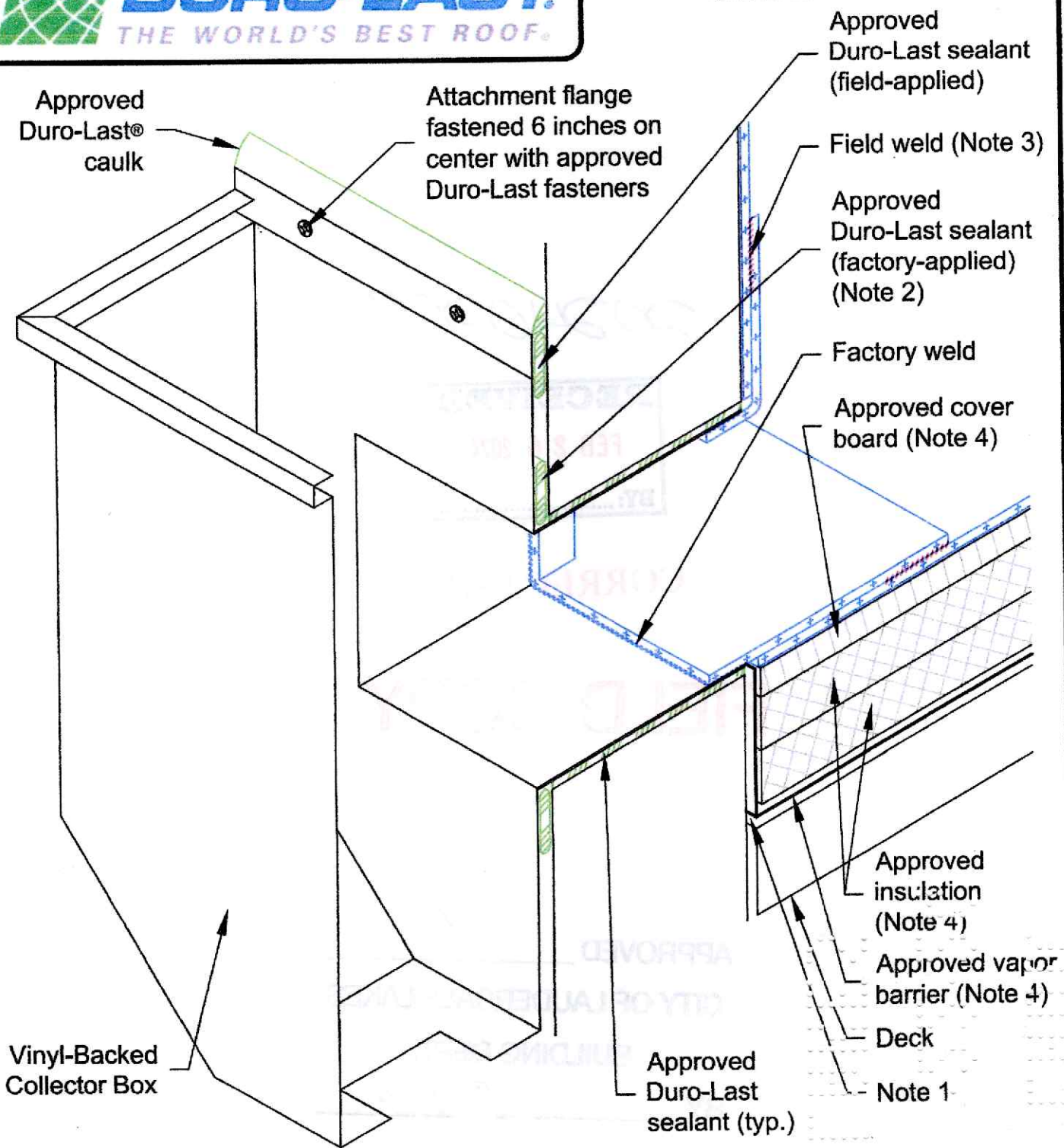
Conceptual Tapered Design based on plans / specs provided

Quote is based on this design and specs shown here. **IMPORTANT** - As a provider of service only, Duro-Last does not assume responsibility for quantities due to errors on submitted plans, drawings or differences on the jobsite. Contractor will confirm all drain locations, perimeter dimensions, materials and specs. Contractor is responsible for confirming this quote to insure that it meets job specs. All tapered shop drawings must be approved prior to installation or shipment of materials.



- Note 1: Precaution must be taken to ensure that all wall-to-deck transitions are sealed.
- Note 2: Metal flange is back-sealed with factory-applied sealant. Remove paper backing when ready to install scupper.
- Note 3: All field welds shall be a minimum of 1-1/2 inches wide.
- Note 4: Refer to specifications for vapor barrier, insulation and cover board requirements.

REVISED: 05/11/2017	DRAINAGE DETAIL FOR MECHANICALLY FASTENED SYSTEMS
PREVIOUS: 01/01/2009	SINGLE SKIRTED VINYL-COATED METAL SCUPPER WITH FLANGE
SCALE: NONE	NEW CONSTRUCTION OR RE-ROOF



- Note 1: Precaution must be taken to ensure that all wall-to-deck transitions are sealed.
- Note 2: Collector box is back-sealed with factory-applied sealant around scupper opening. Remove paper backing when ready to install scupper.
- Note 3: All field welds shall be a minimum of 1-1/2 inches wide.
- Note 4: Refer to specifications for vapor barrier, insulation and cover board requirements.

REVISED: 05/11/2017	DRAINAGE DETAIL FOR MECHANICALLY FASTENED SYSTEMS
PREVIOUS: 01/01/2009	VINYL-BACKED COLLECTOR BOX WITH SCUPPER
SCALE: NONE	NEW CONSTRUCTION OR RE-ROOF