



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)

Horton World Solutions LLC
2106 E. State Hwy 114, Suite 301
South Lake, TX 76092

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Horton Roof Panel

APPROVAL DOCUMENT: Drawing No. 6985, titled "Horton Composite Roof Panel", sheets 1 through 17 of 17, prepared by Daniel C. Smith, PE Consulting Engineers, dated July 15, 2020, signed and sealed by Daniel C. Smith, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, Glen Rose, TX and the 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 this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
08/20/2020

NOA No. 20-0213.01
Expiration Date: 08/20/2025
Approval Date: 08/20/2020

Horton World Solutions LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 6985, titled " Horton Composite Roof Panel ", sheets 1 through 17 of 17, prepared by Daniel C. Smith, PE Consulting Engineers, dated July 15, 2020, signed and sealed by Daniel C. Smith, P.E.*

B. TEST

1. *Test report on Large Missile Impact test and Cyclic Wind Pressure test per TAS 201 and TAS 203 and Uniform Static Air Pressure test per TAS 202 on Wall Panels prepared by PRI Construction Material Technologies LLC, report No. 2220T0009, dated Jan. 14, 2020, signed and sealed by Zachary R. Priest, P.E.*
2. *Test report on Average Maximum Load Resistance per ASTM E 72, on Wall Panels prepared by PRI Construction Material Technologies LLC, report No. 2220T0008.01, dated Nov. 12, 2019, signed and sealed by Timothy Efaw.*
3. *Test report on Compression test only per ASTM E 72, on Wall Panels prepared by NTA, report No. 2019-09-13, dated February 18, 2020, signed and sealed by Justin M. Mann.*
4. *Saturated 5% salt solution at 95 degrees for 1000 hrs. in accordance with ASTM B117-11 prepared by ATL, Inc., report No. ATLNC 0813.01-19SS, dated Oct. 22, 2019, signed and sealed by Keith Owen.*
5. *Saturated 5% salt solution at 95 degrees for 400 hrs. in accordance with ASTM B117-11 prepared by ATL, Inc., report No. ATLNC 0108.01-19SS, dated Feb. 05, 2019, signed and sealed by Keith Owen.*
6. *Saturated 5% salt solution at 95 degrees for 1200 hrs. in accordance with ASTM B117-11 prepared by ATL, Inc., report No. ATLNC 0726.01-18SS, dated Oct. 02, 2018, signed and sealed by Keith Owen.*
7. *Test report on Water Penetration Resistance on Wall Panels per ASTM E331, prepared by PRI Construction Material Technologies LLC, report No. 2220T0018, dated Jan. 27, 2020, signed and sealed by Timothy Efaw.*
8. *Test report on Water Leakage Resistance on Wall Panels per ASTM TAS 114 Appendix G, prepared by PRI Construction Material Technologies LLC, report No. 2220T0020, dated March 11, 2020, signed and sealed by Timothy Efaw.*
9. *Test report on Weathered Flexural Strength of Wall Panels per ASTM G155 with D790, prepared by PRI Construction Material Technologies LLC, report No. 2220T0023.01, dated March 16, 2020, signed and sealed by Timothy Efaw.*
10. *Test report on Fire Performance Evaluation per ASTM D1929 on Wall Panels per prepared by Southwest Research Institute, report No. HWS-001, dated Jan. 20, 2020, signed and sealed by Matthew S. Blais.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
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C. CALCULATIONS

1. *Panel allowable calculation and Fasteners verification prepared by Daniel C. Smith, PE Consulting Engineers, dated April 02, 2020, signed and sealed by Daniel C. Smith, P.E.*
2. *Fasteners verification prepared by Daniel C. Smith, PE Consulting Engineers, dated May 21, 2020, signed and sealed by Daniel C. Smith, P.E.*
3. *Roof Wind Loads calculation prepared by Daniel C. Smith, PE Consulting Engineers, dated May 21, 2020, signed and sealed by Daniel C. Smith, P.E.*

D. QUALITY ASSURANCE

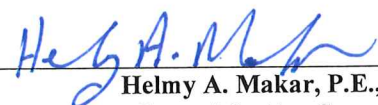
1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATION

1. *None.*

F. OTHERS

1. *Florida Building Code, 2017 Edition, compliance letter issued by Daniel C. Smith, PE Consulting Engineers, dated July 15, 2020, signed and sealed by Daniel C. Smith, P.E.*



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HORTON COMPOSITE PANELS

- EXTERIOR WALL: 5.5" THICK
- INTERIOR LOAD-BEARING WALL: 5.5" THICK w/ SHEETROCK
- INTERIOR PARTITION WALL: 3.5" THICK w/ SHEETROCK
- ROOF: 12" THICK
- EPS FOAM TYPE: 1.00 PCF OR BETTER, TYPE I
- HORTON LAMINATE
- PANEL SPLINES: $\frac{3}{4}$ " x $2\frac{3}{8}$ " P.V.C. TRIM

INSULATION

- CLIMATE ZONE: _____
- WALLS: R-22
- ROOF: R-49

ADHESIVE

- PLANT ADHESIVE: ASHLAND 5040D
- FIELD ADHESIVE: SEAL BOND 105
- PANEL TO TRACK
- TRACK TO CONCRETE
- METAL PLATE TO PANEL (SUPPORT CABINETS AND GARAGE)
- WOOD TO COMPOSITE PANEL

ACCREDITED 3RD PARTY TESTING

- STRUCTURAL PANEL TESTING
- ACCELERATED AGING
- WEATHER TESTING
- DURABILITY TESTING
- CONNECTION TESTING

PRI CONSTRUCTION MATERIAL LABORATORY AND
ICC-NTA LLC LABORATORY



TO ELIMINATE DELAMINATION:

- USE ADHESIVE WITH A DYE ADDED
- REJECT FOAM WITH WAVINESS IN SURFACE (ADHESIVE WILL HIGHLIGHT)
- STORE GLUE AND GLUE SPREAD IN WARM (70° F) ROOM
- AIR BLOW DUST OFF LAMINATE
- KEEP FLOOR CLEAN
- AIR BLOW DUST OFF FOAM

WOOD FRAMING:

FOLLOW RESIDENTIAL CODE SPECIFICATIONS AND BEST PRACTICE
INDUSTRY STANDARDS FOR WOOD FRAMING, EXCEPT WHERE NOTED.

SEE ENCLOSED DETAILS FOR SPECIAL CONDITION WOOD TO COMPOSITE
PANEL CONNECTIONS.

Approved as complying with the
Florida Building Code
Date 08/20/2020
NOA# 20-0213.01
Miami Dade Product Control

By H. G. A. Mohr

ROOF-1

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020

☐ For Construction
☒ Not for Construction

**HORTON WORLD SOLUTIONS LLC
SOUTHLAKE TEXAS**

20-021301 Horton World Solutions, LLC
Horton Lanate (Roof Panel) Product #: HWS-001



Daniel C. Smith, PE
Consulting Engineers
13237 Melvin Arnold Road
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P: 919.844.6050
E: dan@dansmithpe.com

LIST OF MATERIALS

Approved as complying with the
Florida Building Code

Date 08/20/2020

NOA# 26-0213.01

Miami Dade Product Control

By Healy A. Mohr

ASTM A653 COLD FORM METAL TRACK WITH G-90 COATING.

- TRACKS HAVE A 2" FLANGE
- SILL PLATES, 2x2 ANGLE AND 6" x 2" ARE 16 GA
- TOP PLATES ARE 18 GA
- WALL MOUNTING CABINETS 4" x 18 GA OR 2X WOOD

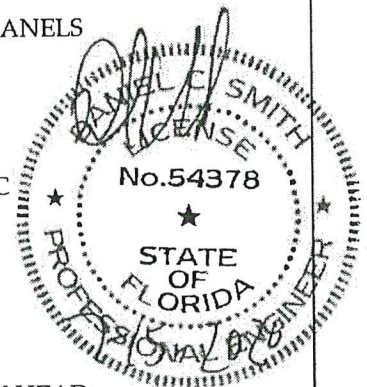
SEAL BOND 105 ADHESIVES ARE REQUIRED BY THE ENGINEERING SERVICE REPORT
ACCEPTED BY THE BUILDING CODES

- USE TO SECURE SILL PLATE TO CONCRETE
- USE TO GLUE THE LAMINATE TO THE STEEL FLANGES
- USE TO GLUE TO ATTACH STEEL TO THE LAMINATE FOR METAL PLATES
- USE TO GLUE TOP PLATE TO THE WALL PANEL LAMINATES
- USE TO EXPANDING ADHESIVES TO SECURE THE SPINES T THE PANELS

HORTON SUPPLIED PVC ($\frac{3}{4}$ " THICK) FOR ALL SPLINES

ANCHOR BOLTS (THESE PRODUCTS HAVE BUILT IN WASHERS)

- SIMPSON STRONG-TIE $\frac{1}{2}$ " \varnothing x 3" TITEN HD SCREW ANCHOR - ZINC
- HILTI KWIK HUS-EZ $\frac{1}{2}$ " \varnothing x 3" ANCHOR BOLT
- ITW - TAPCON $\frac{1}{2}$ " \varnothing x 3" ANCHOR BOLT



CONNECTION SCREWS (ROOF)




- ROOF PANEL TO TOP TRACK $\frac{3}{16}$ " \varnothing - 14" LONG COUNTER SINK HEAD
TEK #3 SELF DRILLING WITH WASHER

FILL GAPS AGAINST WALLS TO MAKE TIGHT

- AFCAT DOOR AND WINDOW EXPANDING FOAM ADHESIVE
- RED DEVIL LOW EXPANDING FOAM ADHESIVE FOR SAME CRACKS

BENEATH INTERIOR WALLS

- USE CAULK - NOT AN ADHESIVE

 #6 - 1 $\frac{1}{4}$ " DRYWALL SCREW - HOLDS METAL UNTIL ADHESIVE CURES - HOLDS DRYWALL TO WALLS/CEILINGS	 $\frac{1}{2}$ " \varnothing STAINLESS STEEL ANCHOR BOLT WITH MOLDED WASHER AND CONCRETE THREADS (SIMPSON, HILTI, TAPCON)
 #8 - $\frac{3}{4}$ " SCREW TO PULL TRACK TO LAMINATE SQUEEZE ADHESIVE, SPACE AS NEEDED, NOT LESS THAN 24" o.c.	

ROOF-2

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020

☐ For Construction
☒ Not for Construction

HORTON WORLD SOLUTIONS LLC
SOUTHLAKE TEXAS

20-021301 Horton World Solutions, LLC
Horton Lanate (Roof Panel) Product #: HWS-001



Daniel C. Smith, PE
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13237 Melvin Arnold Road
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Horton Composite Laminate Description

- A GMT (Glass Mat Technology) fiberglass and polypropylene resin fabricated to have random fiber orientation. (Non-Provisional patent submitted)
- Testing has shown that the random orientation of the fibers are close in stiffness and strength in the 0° and 90° orientation, making this an anisotropic material. Anisotropic is equal strength in the plane of the material.
- Laminate has a polyester scrim on each face that allows screw connections and coatings to stick to the laminate.
- Laminate is 8' (243.8 cm) wide and 0.05" (1.27 mm) thick.

Horton Composite Panel

- The laminate is adhered to the front and back face of the EPS foam.
- The composite panel is pressed together according to the manufacturer's specifications
- ICC NTA has observed the lamination process and the panel fabrication process.
- Horton roof/floor panels are 10" and 12" thick.

Typical Panel sizes and weight.

- 10" panel 8' x 14' weighs = 182 lbs
- 12" panel 8' x 16' weighs x 237 lbs

Approved as complying with the
Florida Building Code
Date 08/20/2020
NOA# 17-0201.07
Miami Dade Product Control
By [Signature]

In Compliance with PLASTIC and FOAM PLASTIC Checklist #0445

- SELF-IGNITION TEMPERATURE FOR PLASTICS ASTM D1929 - PASSED,
- RATE OF BURING OF PLASTICS ASTM D635 - PASSED
- SURFACE BURNING CHARACTERISTICS ASTM E84 - PASSED.

In Compliance with METAL ROOF STRUCTURAL Checklist #0135

In Addition, the Roof Panels passed

- CORNER BURN TEST NFPA 286,

Tests used the thickest wall panel and the thickest roof panel

ROOF COATING

- HENRY 887 Tropi-Cool 100% Silicone White Roof Coating
- HENRY 885 Tropi-Cool 100% Seam and Repair Roof Sealant

HENRY was tested as part of the Miami-Dade TAS tests:

- Wind driven rain - PASSED

NOA No.: 17-0201.07



ROOF-3

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020
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NOTES:

CONDUITS ARE 1 1/4" DIAMETER
AND 15" FROM THE END OF THE
PANEL.

LIGHTS CAN BE 3" DIAMETER
SOCKETS OR CAN BE ATTACHED
TO THE LAMINATE.
EACH #6 DRYWALL SCREW HAS A
WITHDRAWAL FORCE OF 40 LBS

NOTES:

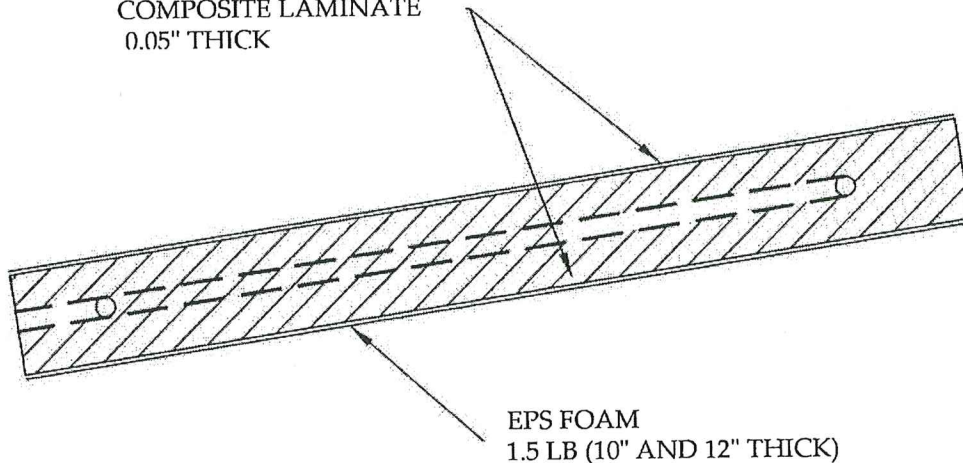
ROOF PANELS ARE FABRICATED
WITH ASTM C578 1.5 LB / FT³




NOTES:

EAVE AND RAKE EXPOSED FOAM ARE COVERED WITH A 22G
G-90 COLD FORM STEEL ASTM A543-33 KSI CHANNEL OR A
HWS-001 LAMINATE HEAT TREATED TO FORM A CHANNEL.
THEN ALL EXPOSED EDGES ARE COATED WITH THE ROOF
COATING OR THE WALL COATING MATERIAL

HWS-001
COMPOSITE LAMINATE
0.05" THICK



EPS FOAM
1.5 LB (10" AND 12" THICK)

 TYPICAL ROOF PANEL FABRICATION
ELEVATION VIEW

Approved as complying with the
Florida Building Code
Date 08/20/2020
NOA# 20-0213.01
Miami Dade Product Control

By Hugh A. Maher

ROOF-4

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020

☐ For Construction
☒ Not for Construction

HORTON WORLD SOLUTIONS LLC
SOUTHLAKE TEXAS

20-021301 Horton World Solutions, LLC
Horton Lanate (Roof Panel) Product #: HWS-001



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TRANSVERSE TESTS (PRI Tampa Fl)

Roof panels

- 4 ft x 8 ft - 10" with ceiling light cut outs
- 4 ft x 8 ft - 12" with ceiling light cut outs
- 4 ft x 16 ft - 10" with ceiling light cut outs
- 4 ft x 18 ft - 12" with ceiling light cut outs

BUILDING CODE MINIMUM ROOF AND FLOOR LOADS

ROOF AND FLOOR PANEL DEAD LOADS ARE 10 PSF

ROOF MINIMUM LIVE LOAD IS $LL_r = 20$ PSF

FLOOR MINIMUM LIVE LOAD IS $LL = 30$ PSF (2ND FLR BEDROOMS)

ASTM E72 - TRANSVERSE LOADS

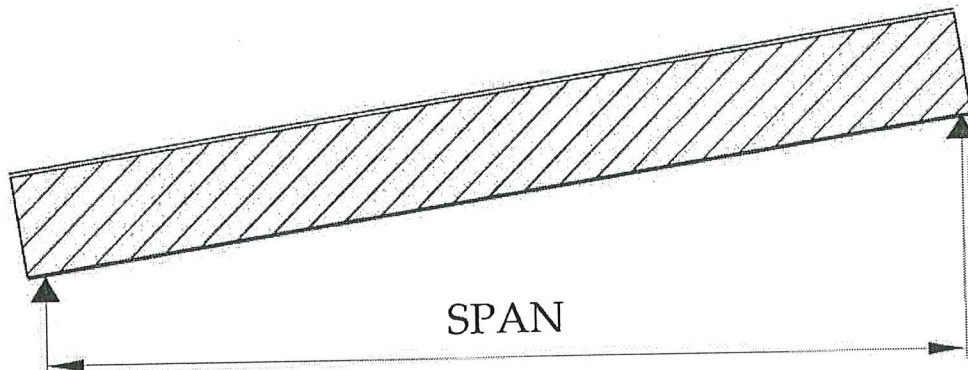
10" THICK - ROOF PANEL (L/240)
20 PSF LL - MAX SPAN 13'
43 PSF LL - MAX SPAN 11'

12" THICK - ROOF PANEL (L/240)
20 PSF LL - MAX SPAN 15'
43 PSF LL - MAX SPAN 12' 6"

ASTM E72 - TRANSVERSE LOADS

10" THICK - FLOOR PANEL (L/360)
30 PSF LL - MAX SPAN 10'

12" THICK - FLOOR PANEL (L/360)
30 PSF LL - MAX SPAN 12'



TYPICAL ROOF PANEL FABRICATION
ELEVATION VIEW

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NOA# 20-0213.01
Miami Dade Product Control
By H. G. A. M.

ROOF-5

DCSPE #: 6985
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Date: 7-15-2020

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HORTON WORLD SOLUTIONS LLC
SOUTHLAKE TEXAS

20-021301 Horton World Solutions, LLC
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NOTES:

RADIO FREQ. CONTROLLED LIGHT SWITCHES

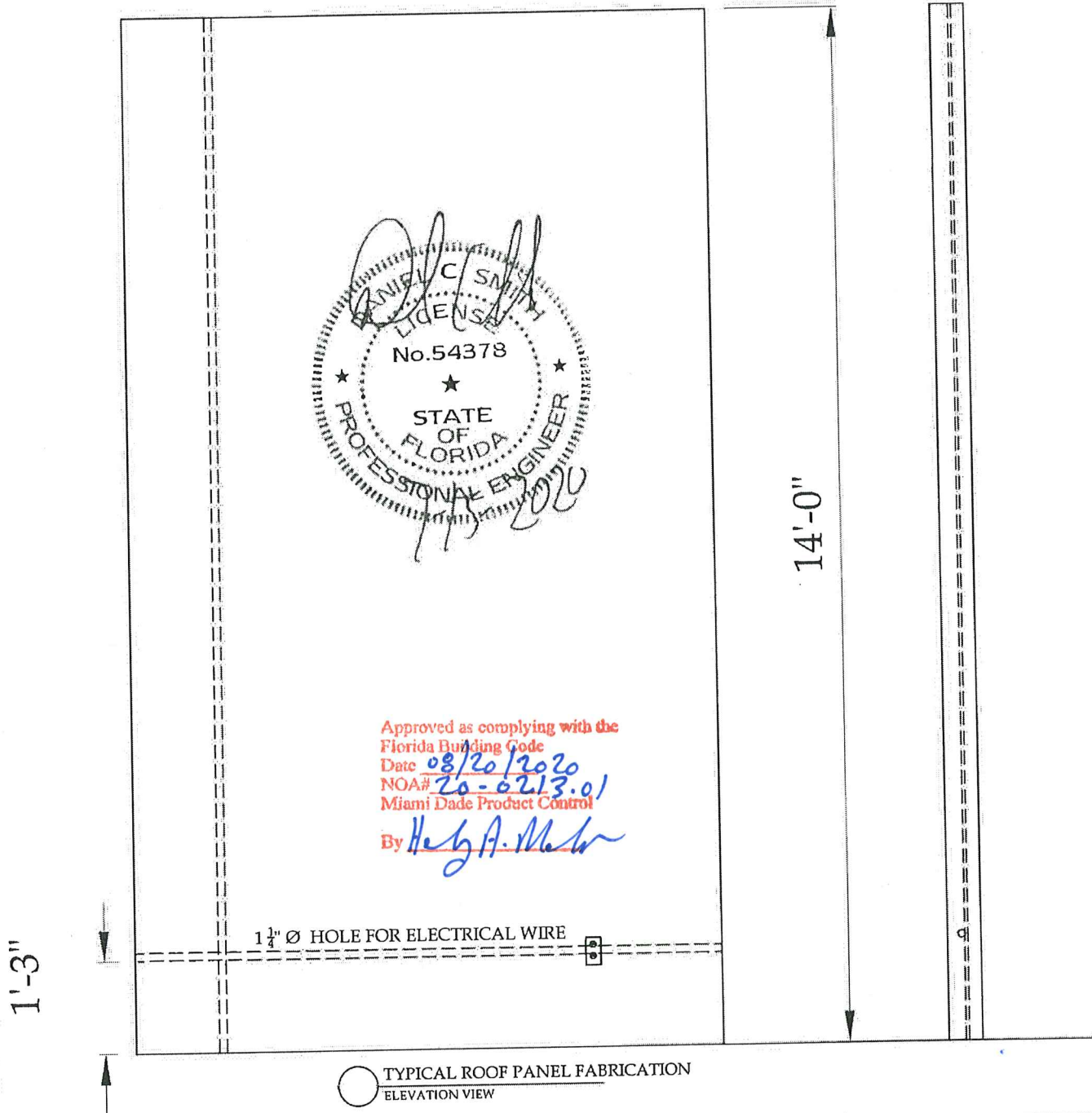
OPTIONAL: DRILL HOLE FOR LIGHT SWITCHES AS SHOWN

TOP AND BOTTOM TRACKS

ASTM A653 - 33 KSI STEEL
16 GA THICK WITH G-90 COATING

TRACKS MUST OVERLAP WALL
VERTICAL SEAM BY 24"

SPLINE NOTCH



ROOF-6

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020

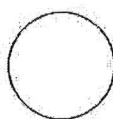
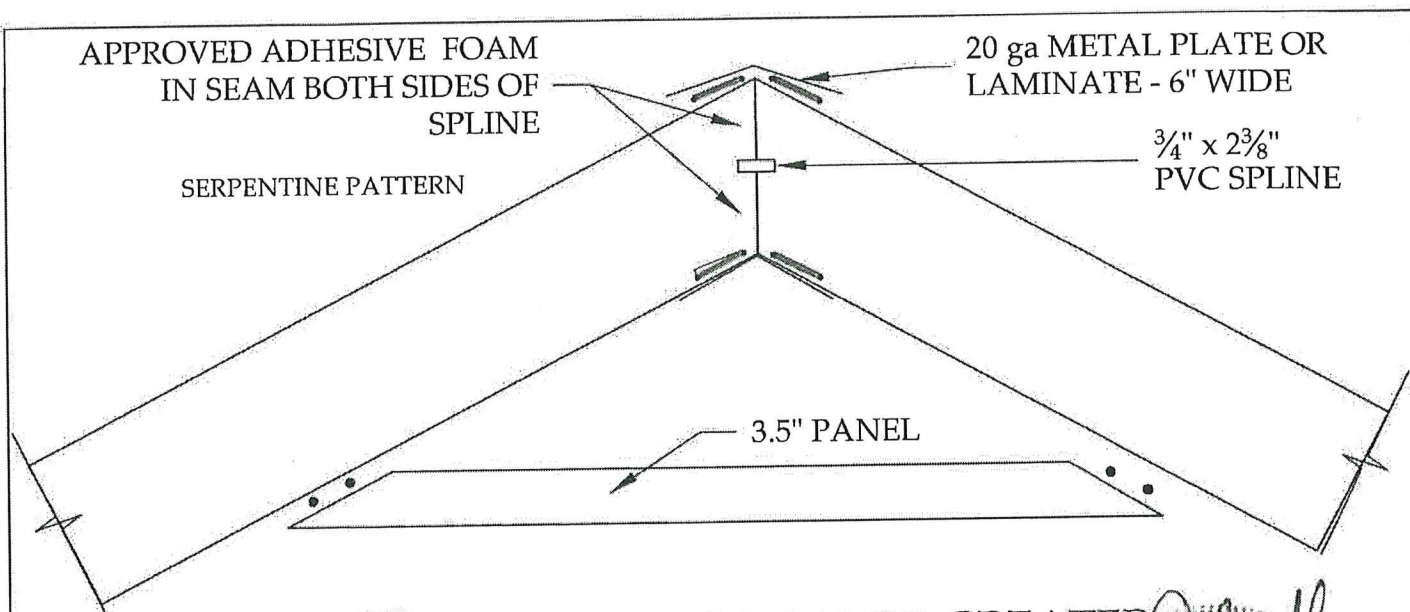
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SOUTHLAKE TEXAS

20-021301 Horton World Solutions, LLC
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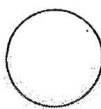
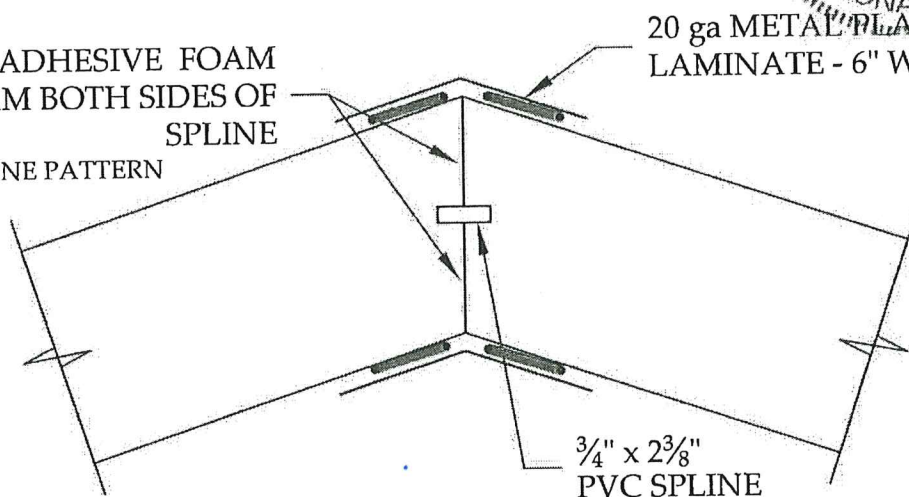
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GABLE RIDGE 8:12 OR GREATER
ELEVATION VIEW



APPROVED ADHESIVE FOAM
IN SEAM BOTH SIDES OF
SPLINE
SERPENTINE PATTERN



GABLE RIDGE ROOF
ELEVATION VIEW

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Miami Dade Product Control
By H. A. Smith

ROOF-7

DCSPE #: 6985
Drawn By: KSW
Date: 7 15 2020

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HORTON WORLD SOLUTIONS LLC
SOUTHLAKE TEXAS

20-021301 Horton World Solutions, LLC
Horton Lanate (Roof Panel) Product #: HWS-001



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NOTES:

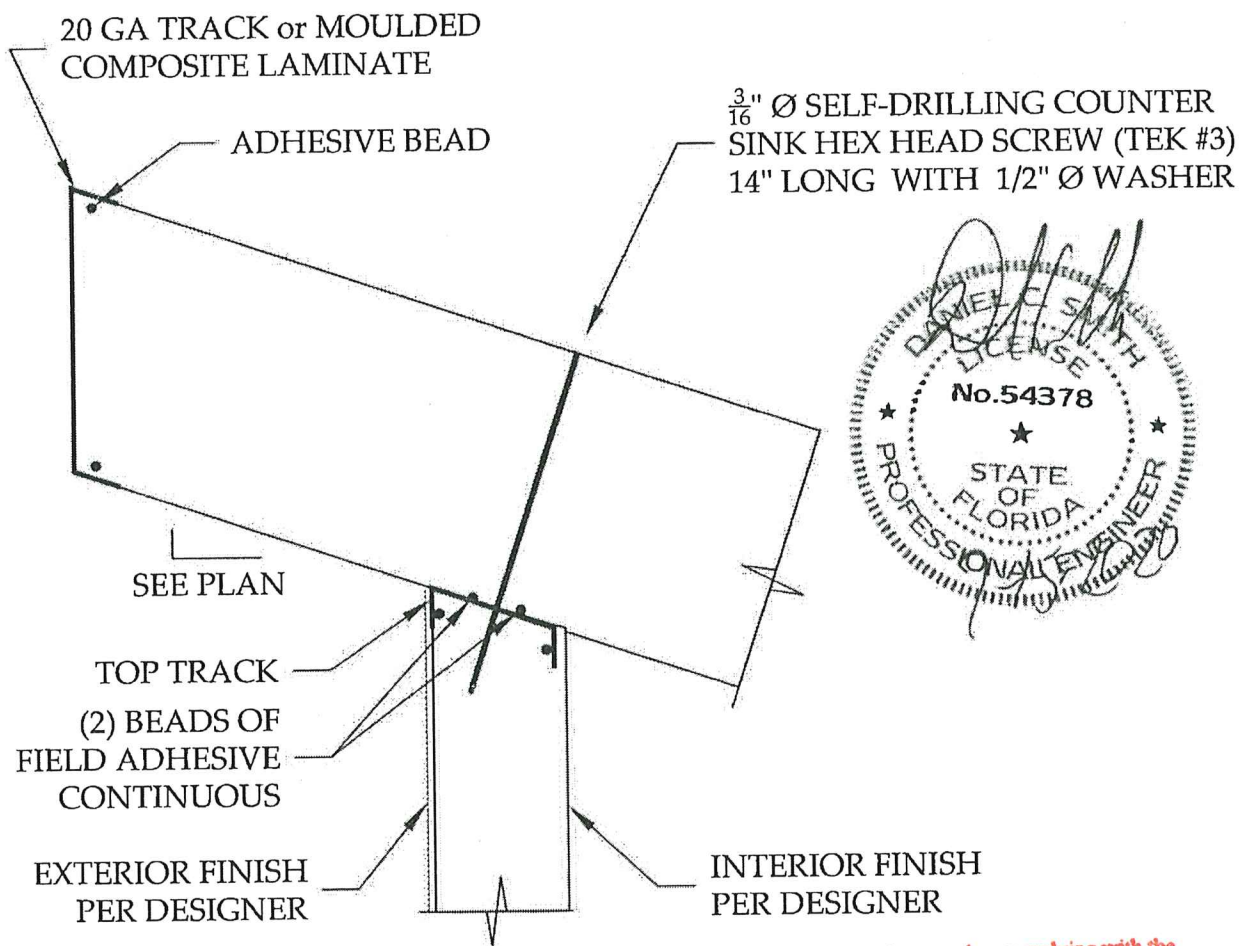
STRUCTURAL LOADS ARE DETERMINED BY LOCATION OF THE RESIDENCE.

THE 14" LONG SCREW IS USED TO PULL DOWN THE ROOF PANEL TO PRESS ON THE ADHESIVE GLUE AND SPREAD THE GLUE AND TO INCREASE CONTACT.

THE SCREWS ALSO HOLD THE ROOF PANELS WHILE THE GLUE IS CURING.

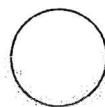
IN VERY HIGH UPLIFT LOADS, THE HOUSES ARE SMALLER.

GLUE ADHESION FOR A $\frac{3}{8}$ " BEAD IS CONSERVATIVELY 200 PSI. IF THE UPLIFT LOAD IS 850 PLF ALONG THE PANEL, THEN RESISTANCE FROM THE GLUE IS 12" x 200 PSI = 2,400 PLF.



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By H. A. Mohr



ROOF PEAK w/ TRACK
ELEVATION VIEW

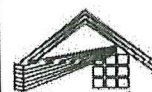
ROOF- 8

DCSPE #: 6985
Drawn By: KSW
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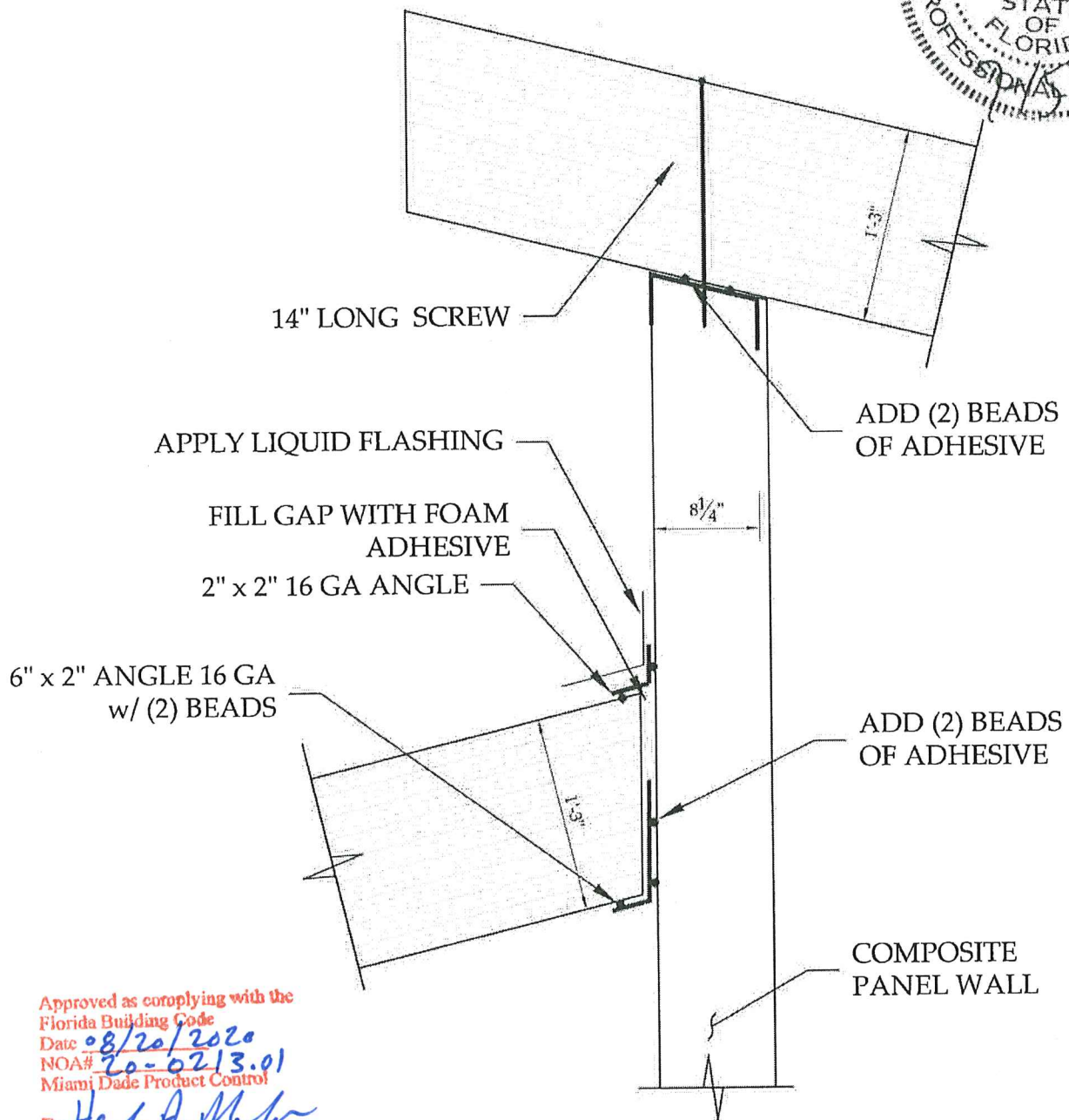
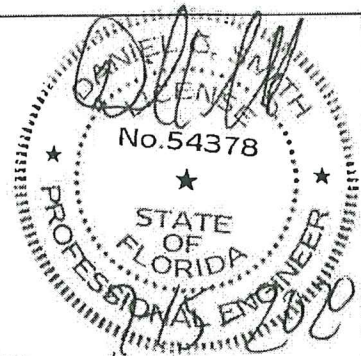
HORTON WORLD SOLUTIONS LLC
SOUTHLAKE TEXAS

20-021301 Horton WORld Solutions, LLC
Horton Lanate (Roof Panel) Product #: HWS-001



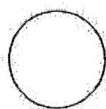
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1/22/2019 11:51 AM C:\Users\KSW\Desktop\HWS-001



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Miami Dade Product Control

By H. A. Melor



CONNECTION TO INTERIOR BEARING WALL
ELEVATION VIEW

ROOF-9

DCSPE #: 6985
Drawn By: KSW
Date: 7 15 2020

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SOUTHLAKE TEXAS

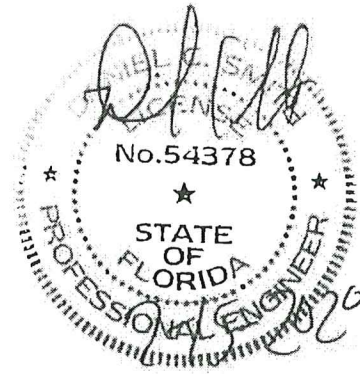
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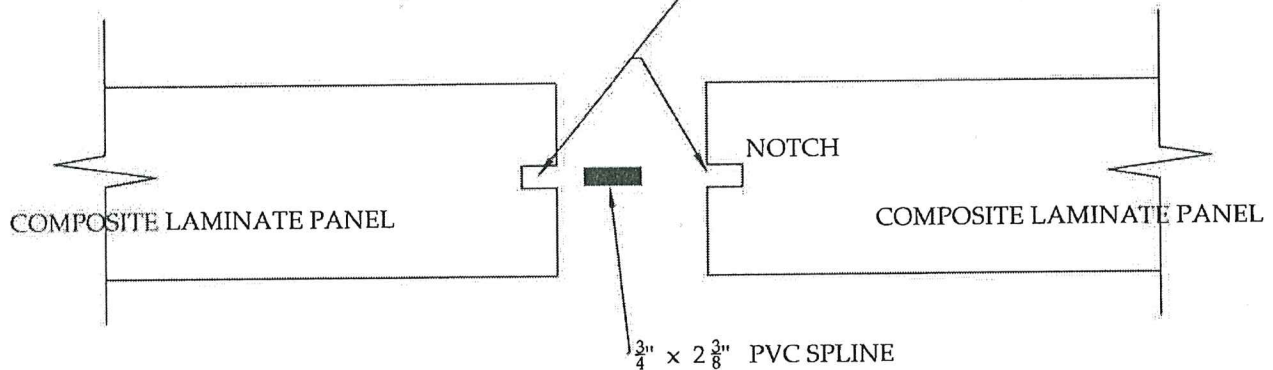
NOTES:

PURPOSE OF THE SPLINE IS TO KEEP TWO
PANELS FROM HAVING DIFFERENTIAL
TRANSVERSE DEFLECTION



APPLY SB105 INTO BOTH NOTCHES

THEN INSERT SPLINE



 SPLINE CONNECTION
ELEVATION VIEW

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NOA# 20-0213.01
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By H. A. Smith

ROOF-10

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020

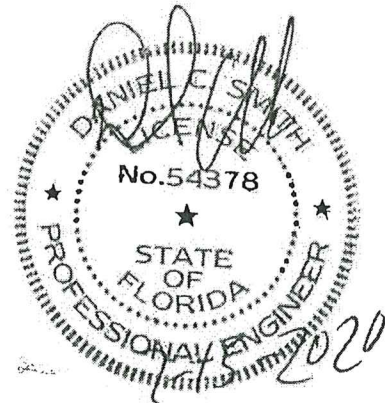
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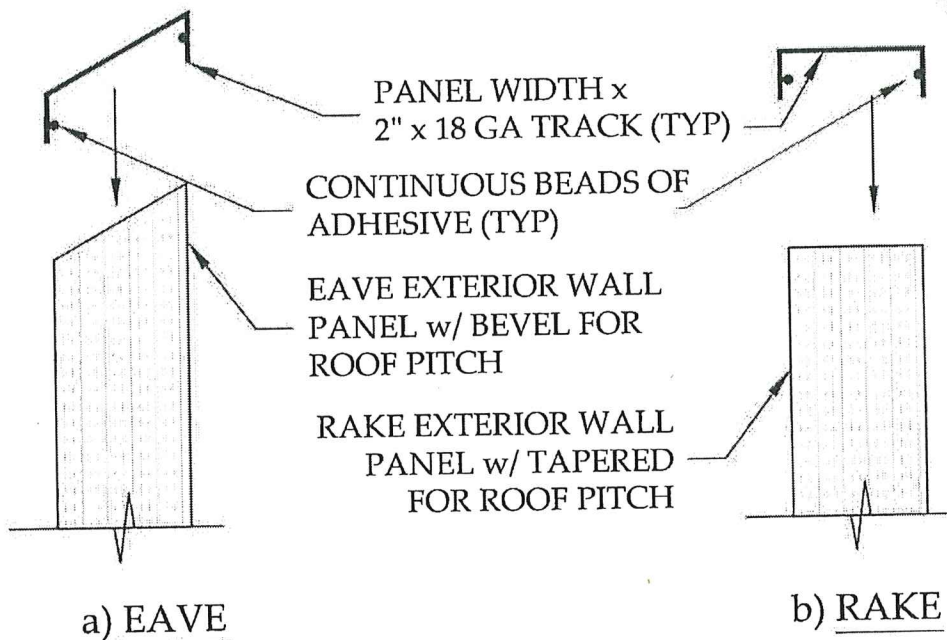
20-021301 Horton World Solutions, LLC
Horton Lanate (Roof Panel) Product #: HWS-001



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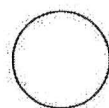
● = ADHESIVE BEADS ARE $\frac{3}{8}$ " THICK
AND CONTINUOUS. NO SKIPS



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Miami Dade Product Control

By

H. G. A. Alborn



TOP TRACK ADHESIVE
ELEVATION VIEW

ROOF-11

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020

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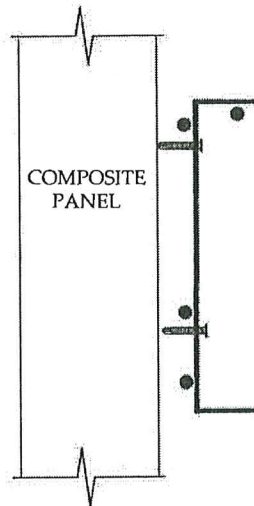
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ASTM A653 - 33 KSI STEEL
16 GA THICK WITH G-90 COATING

NOTE:
USE #6 DRYWALL SCREWS FOR HOLDING METAL
TO LAMINATE
WHILE ADHESIVE CURES

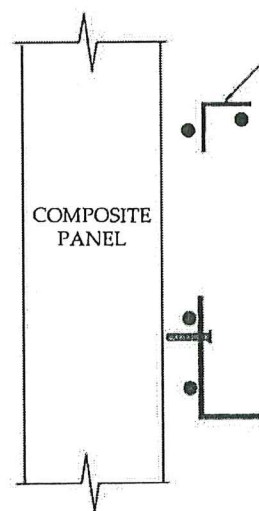
#6 COURSE SCREW INTO LAMINATE
ALLOWABLE LOADS

SHEAR = 113 LBS
WITHDRAWAL = 41 LBS



10" or 12" x 2" TRACK
(w/ or w/o ANGLE)

ONE PIECE OPTION



ADDED AFTER FLOOR PANEL INSTALLED

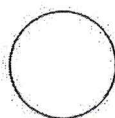
2" x 2" ANGLE

6" x 2" ANGLE

TWO PIECE OPTION

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SUPPORTING FLOOR PANELS

ELEVATION VIEW

ROOF - 12

DCSPE #: 6985
Drawn By: KSW
Date: 7-15-2020

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- = ADHESIVE BEADS ARE $\frac{3}{8}$ " THICK AND CONTINUOUS. NO SKIPS

NOTE:
ADD TYPICAL DRYWALL SCREW TO
HOLD METAL IN PLACE TIGHT TO WALL
WHILE ADHESIVE IS CURING.
WAIT 48 HOURS TO ADD DEAD WEIGHT

ALTERNATE:
SCREW DIRECTLY TO THE LAMINATE TO
HANG A CABINET OR TELEVISION.
EACH SECURE ALLOABLE PULLOUT IS 41 LBS

ASTM E72 SECTION 9 SHEAR TEST (SF = 5)

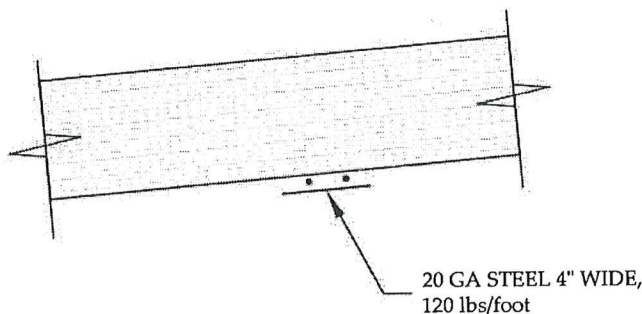
20 GA METAL PLATE TO LAMINATE

6" x 6" METAL PLATE:

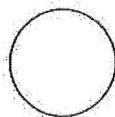
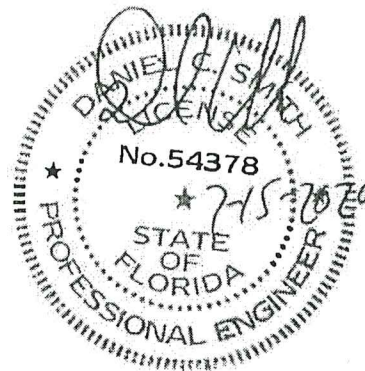
- MIN. OF 80% COVERAGE WITH AFCAT 955
- 126 LBS

CONTINUOUS 4" STRAP

- MIN. OF 80% COVERAGE WITH AFCAT 955
- 168 LBS PER FOOT



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By [Signature]



SECURING FANS AND LIGHTS
ELEVATION VIEW

ROOF - 13

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Date: 7-15-2020

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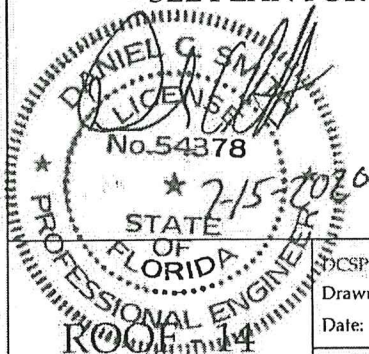
CONSTRUCTION OF HOUSES WITH THESE HORTON WORLD SOLUTION COMPOSITE PANELS REQUIRES TRAINING AND FIELD SUPERVISION BY HORTON EMPLOYEES. NO CHANGES TO PLANS CAN BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

FIELD INSTALLATION NOTES:

- #1) LAYOUT WALLS ON CONCRETE SLAB.
 - CHECK DIAGONAL DIMENSIONS FOR SQUARE.
 - DRILL ANCHOR BOLT HOLES. SEE BOTTOM TRACK PLAN FOR LOCATIONS.
- #2) CLEAN BOLT HOLES.
 - CLEAN OUT DUST FROM BOLT HOLES PER MANUFACTURER'S REQUIREMENTS.
 - SWEEP AREA TO REMOVE DUST OFF OF SLAB.
- #3) LAY BOTTOM TRACK.
 - CLEAN ALL SURFACES OF BOTTOM TRACK w/ PURPLE POWER & CLEAN RAGS.
 - APPLY FIELD ADHESIVE (SEE NOTES) TO CONCRETE.
 - SET BOTTOM TRACK.
 - INSTALL ANCHOR BOLTS.
- #4) INSTALL WALL PANELS.
 - APPLY FIELD ADHESIVE (SEE NOTES) TO INSIDE (3) SIDES OF BOTTOM TRACK.
 - POSITION NEXT PANEL $\frac{1}{8}$ " AWAY FROM INSTALLED PANEL.
 - INSERT SPLINE FROM ABOVE (SEE DETAIL).
 - APPLY SOULDA FOAM ADHESIVE TO BOTH FACES OF VERTICAL GAP BETWEEN PANELS.
 - CLEAN ALL SURFACES OF TOP TRACK w/ PURPLE POWER & CLEAN RAGS.
 - REPEAT PROCESS FOR NEXT WALL PANEL.
- #5) WORK AROUND ENTIRE PERIMETER.
 - APPLY FIELD ADHESIVE (SEE NOTES) TO INSIDE (3) SIDES OF TOP TRACK.
 - PLACE TOP TRACK ON WALL w/ BUTT JOINTS STAGGERED 24" AWAY FROM PANEL SEAMS.
- #6) INSTALL ROOF PANELS.
 - SEE PLAN FOR SCREW AND SPACING PATTERN.

CONTRACTOR or OWNER MUST
GET THE FOOTINGS INSPECTED
BEFORE THE CONCRETE IS POURED
--- NO EXCEPTIONS ---

GENERAL CONTRACTOR SHALL
VERIFY ALL DIMENSIONS BEFORE
CONSTRUCTION BEGINS.



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Miami Dade Product Control
By H. G. A. M. M.

DCSPE #: 6985
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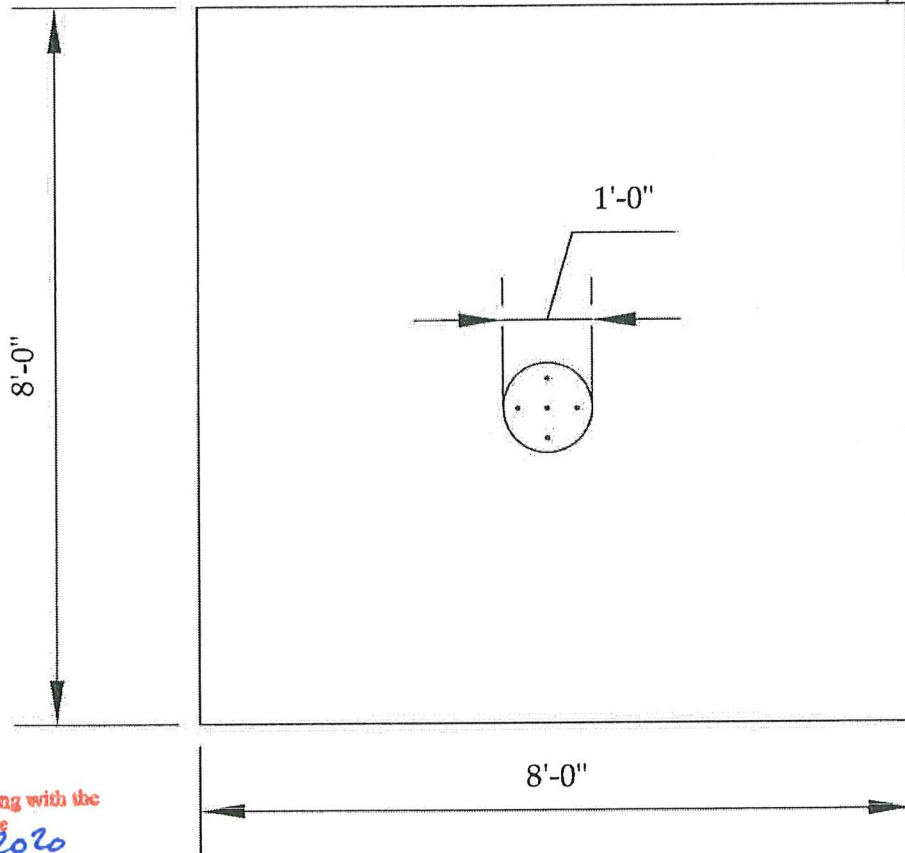
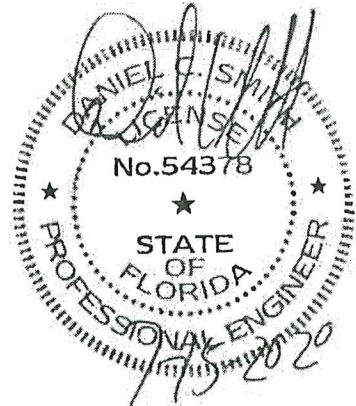
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NOTES:

IF DELAMINATION AREA IS MORE THAN 12" IN DIAMETER -
THEN CUT UP THE PANEL AND SAVE THE GOOD PORTION.

REPAIR METHOD:

- DRILL IN A $\frac{1}{2}$ " LONG SCREW AND PULL UP TO DETERMINE
SIZE OF THE DELAMINATION AREA
- DRILL $\frac{3}{8}$ " - $\frac{1}{2}$ " DIAMETER HOLE IN CENTER OF AREA
- DRILL ADDITIONAL HOLES IF NECESSARY AT 4" O.C.
FROM CENTER HOLE
- LIMIT HOLES TO 5 .
- SQUEEZE IN ADHESIVE
- APPLY 25 LB WEIGHTS TO THE REPAIR AREA. (PLYWOOD)
-



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PLAN VIEW

ROOF-15

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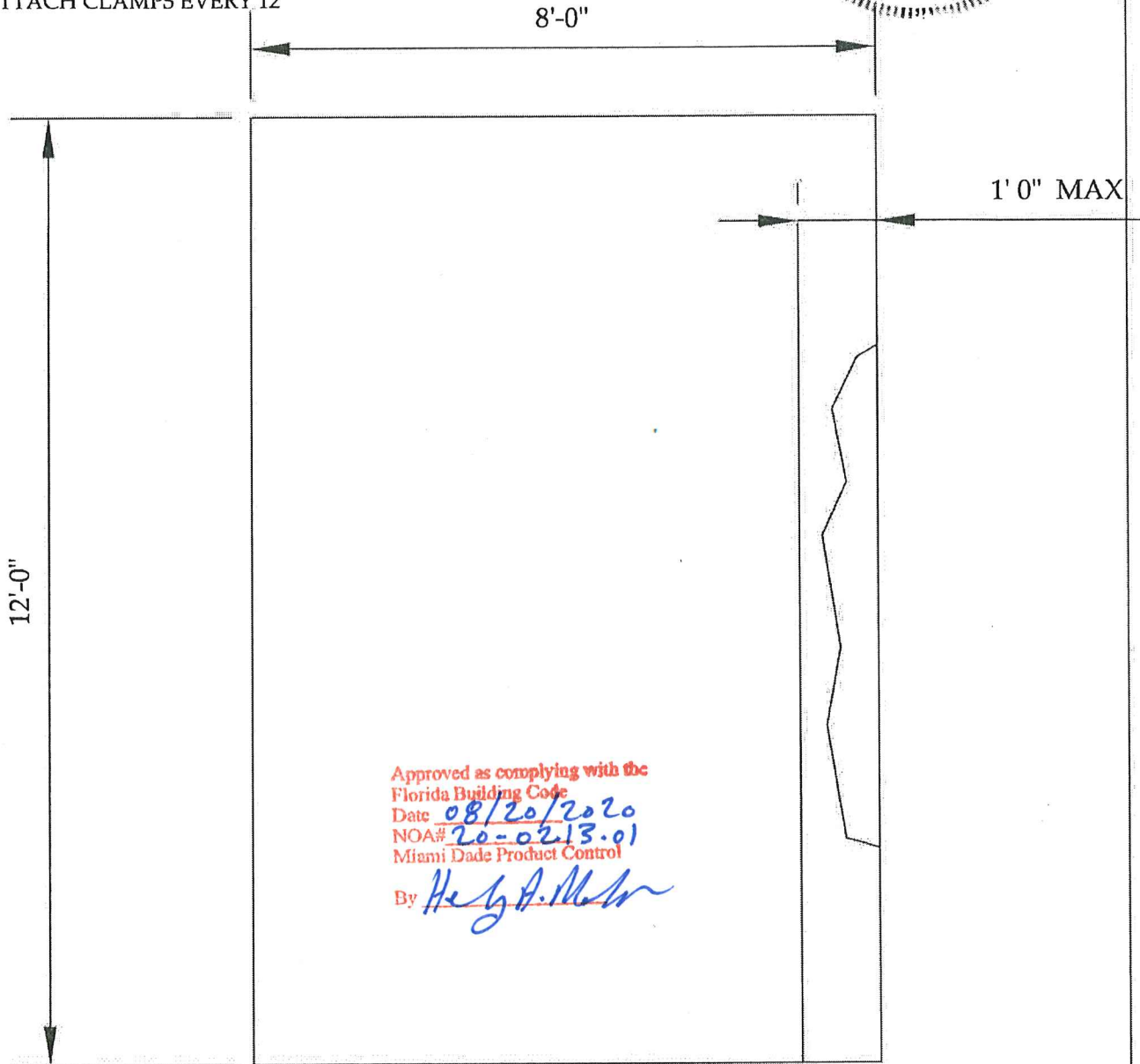
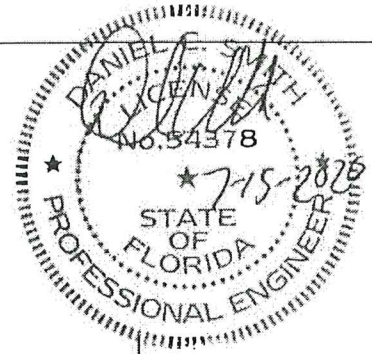
NOTES:

IF DELAMINATION IS MORE THAN 4 SQ FT - CUT UP PANEL

REPAIR PROCESS

USE NOZZLE TO SLIDE UNDERNEATH LAMINATE.
ADD ADHESIVE WHILE PULLING OUT THE NOZZLE

- ATTACH CLAMPS EVERY 12"



PLAN VIEW

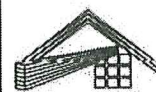
ROOF-16

DCSPE #: 6985
Drawn By: KSW
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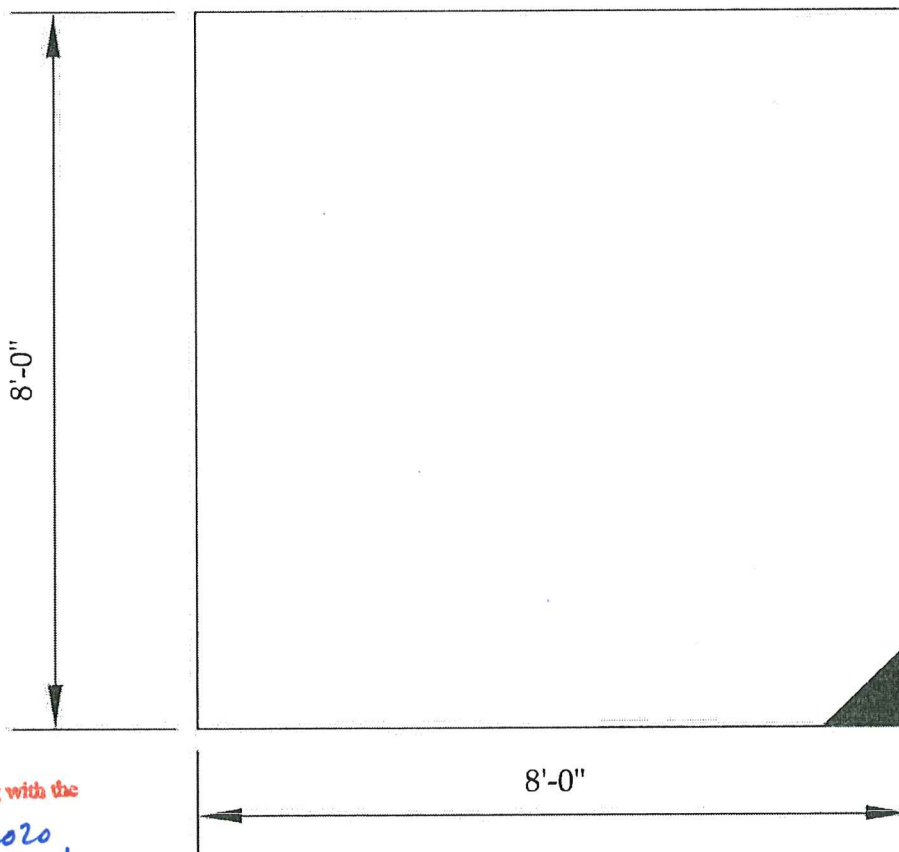
NOTES:

SHIPPING KNOCKS OUT A CHUCK OF FOAM.

LAMINATE IS IN GOOD CONDITION

REPAIR METHOD:

- CREATE PANEL SHAPE WITH PLYWOOD AND CLAMPS
- SPRAY IN THE EXPANDED FOAM ADHESIVE.
- LET CURE AND THEN CUT OFF EXCESSIVE FOAM.
- RESTRICT VOLUME TO 70 CUBIC INCHES OF REPAIR.



PLAN VIEW

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ROOF-17

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