

NEXGEN BUILDING PRODUCTS

NEXGEN - 8 11/16" MgO/PLY HIGH IMPACT ROOF/FLOOR PANEL

INSTALLATION DETAILS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN HAS BEEN TESTED TO THE FOLLOWING PERFORMANCE TESTING STANDARDS IN ACCORDANCE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE EIGHTH EDITION OF 2023 THE FLORIDA BUILDING CODE.
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED FENESTRATION TESTING LABORATORY TEST REPORT CRL NO. LAB
3. ADEQUACY OF THE EXISTING STRUCTURAL FRAMING SYSTEM AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT TRANSVERSE LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. THE DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED FOR THE USE WITH THIS DOCUMENT AS ALLOWED BY THE AUTHORITY HAVING JURISDICTION.
5. SEE SIP PANEL SCHEDULE TABLE AND PANEL SELECTION ON THIS SHEET FOR APPROVED PANEL COMPOSITION.
6. SEE PERFORMANCE RATINGS TABLE ON THIS SHEET FOR DESIGN PRESSURE LIMITATIONS BASED ON THE FOLLOWING PARAMETERS.
 - 6.1. DP LIMITATION BASED ON DEFLECTION AT L/180.
 - 6.1.1 DEFLECTIONS NOT EXCEEDING L/180 ALLOWS FOR FLEXIBLE FINISHES TO BE USED IN ACCORDANCE WITH DEFLECTION LIMITATIONS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE.
 - 6.2. DP LIMITATION BASED ON ULTIMATE DESIGN LOADING ACHIEVED IN TESTING TO TAS 202 DIVIDED BY A SAFETY FACTOR OF 1.5.
 - 6.3. DP LIMITATIONS BASED ON IMPACT/CYCLIC LOADING TESTING TO TAS 201/203.
 - 6.4. COMPRESSION LOAD LIMITATION BASED ON AVERAGE OF THREE TEST SPECIMENS DIVIDED BY ALLOWABLE STRESS DESIGN SAFETY FACTOR.
7. MAXIMUM PANEL SIZE
 - 7.1. INDIVIDUAL AND OVERALL PANEL HEIGHT IS LIMITED TO 24' (288").
 - 7.2. INDIVIDUAL AND OVERALL PANEL WIDTH IS LIMITED TO 4' (48").

INSTALLATION NOTES:

1. THE PRODUCT SHOWN SHALL BE INSTALLED IN A MANNER CONSISTANT WITH ITS TESTING AS DESCRIBED IN GENERAL NOTE 7 AND AS FOLLOWS.
2. SPLINE CONNECTIONS SHALL BE AS SHOWN IN DETAIL ON SHEET 3 of 5.
3. SIP END PLATES, BOTH HORIZONTAL AND VERTICAL, SHALL BE AS SHOWN IN DETAIL ON SHEET 4.
4. SIP OPENING FACE PLATES, VERTICAL ONLY, SHALL BE AS SHOWN IN DETAIL ON SHEET 3.
5. PANEL - TO - PANEL HEADER CONNECTIONS SHALL BE AS SHOWN IN DETAIL ON SHEET 4.
6. SIP SUBSTRATE CONNECTIONS SHALL BE AS FOLLOWS (SEE NOTE 7 BELOW):
 - 6.1. SILL
 - 6.1.1 SEE DETAIL ON SHEET 5 FOR INSTALLATION INTO CONCRETE SUBSTRATE.
 - 6.1.2 SEE DETAIL ON SHEET 5 FOR INSTALLATION INTO #2 SYP (OR WOOD WITH SG= 0.55 OR GREATER) SUBSTRATE.
 - 6.2. HEAD
 - 6.2.1 SEE DETAIL ON SHEET 5 FOR INSTALLATION INTO #2 SYP (OR WOOD WITH SG =0.55 OR GREATER) SUBSTRATE. INSTALLATION AT SILL IS SHOWN- REVERSE FOR HEAD INSTALLATION.
7. ANCHOR SCHEDULE
 - 7.1. CONCRETE (2500 PSI MINIMUM STRENGTH)
 - 7.1.1. ¼" HILTI KWIK BOLT 3, 1-1/8" MINIMUM EMBEDMENT, 2-3/4" MINIMUM EDGE DISTANCE.
 - 7.2. WOOD (SPECIFIC GRAVITY OF 0.55OR GREATER)
 - 7.2.1. 5/8" LAG SCREW, 3-3/8" MINIMUM EMBEDMENT (EXCLUDES SCREW TIP), 2-1/2" EDGE DISTANCE.

SIP PANEL SCHEDULE					
EXTERIOR SKIN	INTERIOR SKIN	CORE	OVERALL PANEL THICKNESS	ADHESIVE	REINFORCEMENT
¾" THICK PLYWOOD APA CLASS: EXPOSURE 1 EXTERIOR FIRE CLASS: CLASS III OR C CODE COMPLIANCE: PS 140 OR PS 240 FLAME SPREAD: 75000 WITH SMOKE DEVELOPED INDEX 440	12 MM THICK MAGNESIUM OXIDE BOARD BY NEXGEN BY MAXTERRA	7 ½" 1.0 PCF INSULFOAM EXPANDED POLYSTYRENE (EPS) W/ 500PPM PREVENTOL	8-11/16"	DUPONT BETAFUSE 654 LAMINATING ADHESIVE	CPX 10424M X 48 HOT MELT

- Index of Sheets
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 2. Roof Panel Sheet 1
 3. Roof Panel Sheet 2
 4. Roof Panel Sheet 3
 5. Roof Panel Sheet 4

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NEXGEN Building Products, LLC

Cover Sheet and General Notes

Sheet Number

1 of 5

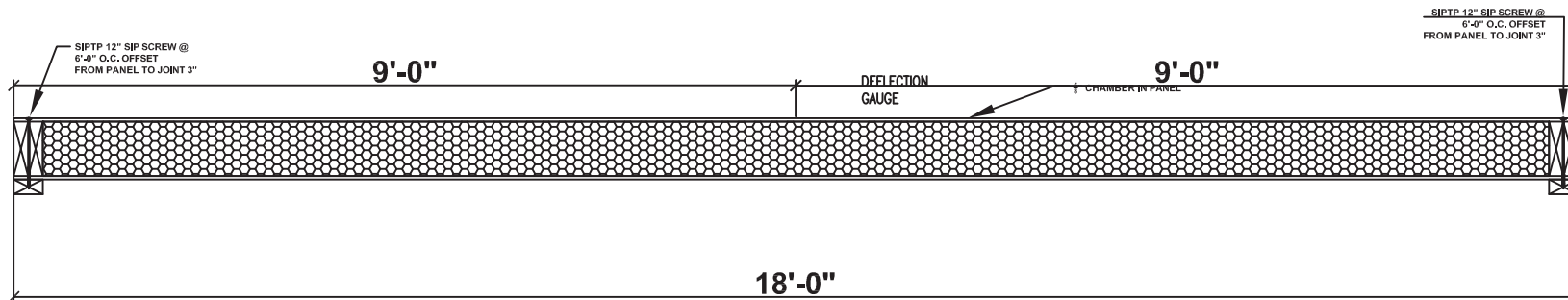
Job #

4-1022



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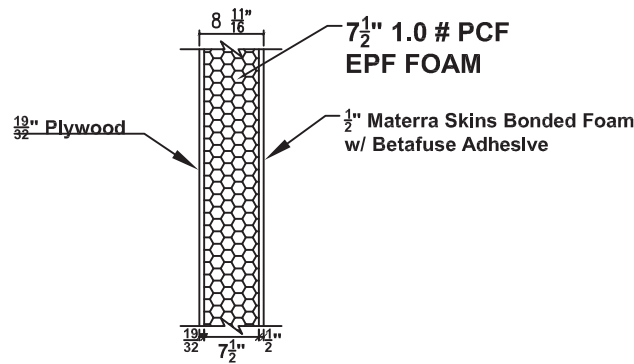
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4124 100TH AVE. N
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NSE # C0C1525961

DATE	10/04/2023
BY	David F Ramsey
CHECKED BY	David F Ramsey
SCALE	AS SHOWN
PROJECT	454 E. Main Street, Suite 200, Windy, FL 33470
CLIENT	Nextgen Building Products, LLC
DESIGNER	David F Ramsey, P.E.
SEAL	David F Ramsey, P.E.

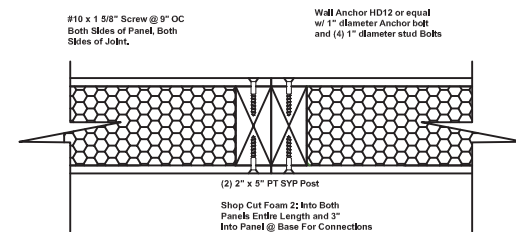
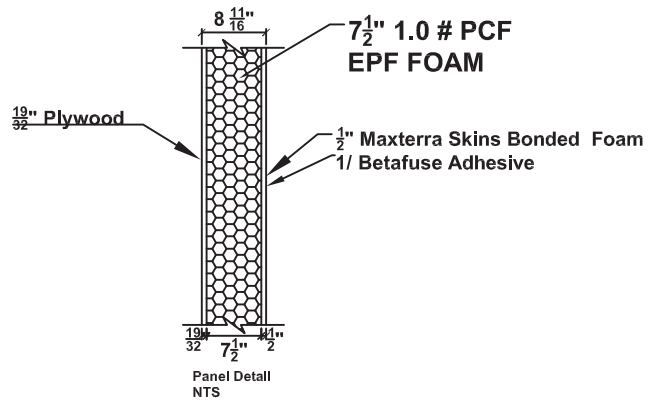
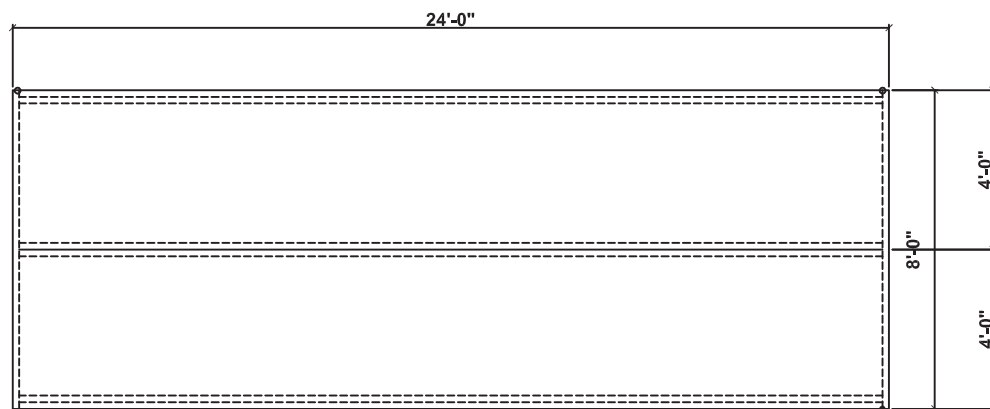
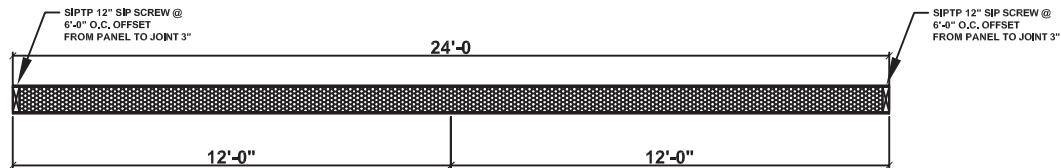
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Roof Panel Sheet 2
for
Nextgen Building Products, LLC
10/04/2023
3 of 5
Job # 4-1022



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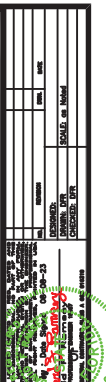
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Typical Roofing Spline Connection Detail
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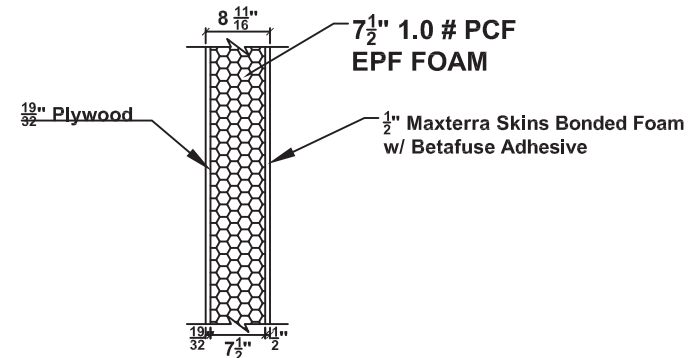
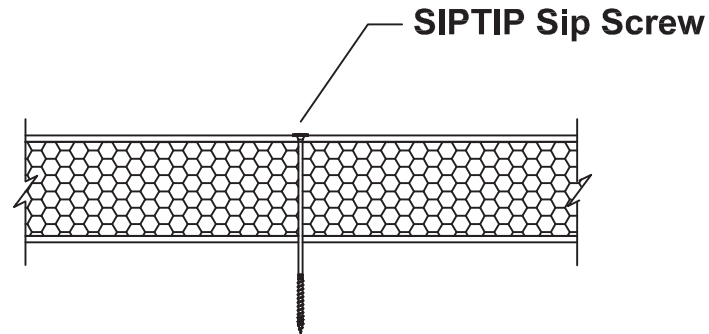
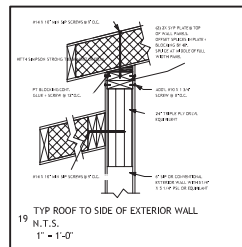
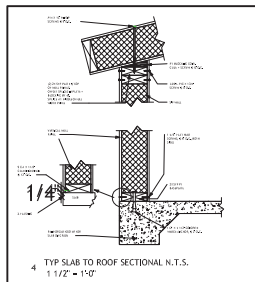
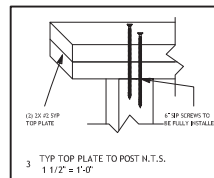
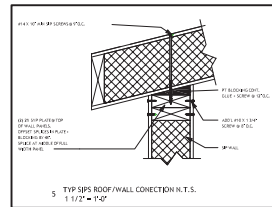
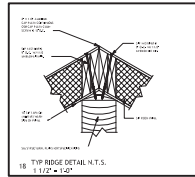
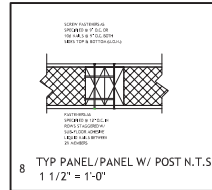
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Roof Panel Sheet 3
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Panel Detail
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Roof Panel Sheet 4
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