

NEXGEN BUILDING PRODUCTS

NEXGEN - 6" MgO HIGH IMPACT WALL PANEL

INSTALLATION DETAILS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN HAS BEEN TESTED TO THE FOLLOWING PERFORMANCE TESTING STANDARDS IN ACCORDANCE WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE LATEST EDITION OF THE FLORIDA BUILDING CODE.
 - 1.1. TAS 201-94
 - 1.2. TAS 202-94, STATIC LOADING ONLY
 - 1.3. TAS 203-94
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED LABORATORY TEST REPORT CRL NO. LAB AND ASSOCIATED LABORATORY DRAWINGS TO TAS 201-94, TAS 202-94, AND TAS 203-94.
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. DEFLECTION 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. DEFLECTION LIMITATION BASED ON ULTIMATE DESIGN LOADING ACHIEVED IN TESTING TO TAS 202 DIVIDED BY A SAFETY FACTOR OF 1.5.
 - 6.3. DEFLECTION 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 12' (144").
 - 7.2. INDIVIDUAL AND OVERALL PANEL WIDTH IS LIMITED TO 4' (48").
 - 7.3. OPENINGS ARE LIMITED TO 12' X 8' MAXIMUM.

SIP PANEL SCHEDULE

EXTERIOR SKIN	INTERIOR SKIN	CORE	OVERALL PANEL THICKNESS	ADHESIVE	REINFORCEMENT
12 MM THICK MAGNESIUM OXIDE BOARD BY NEXGEN BP/ MAXTERA ICC-ESR-5193	12 MM THICK MAGNESIUM OXIDE BOARD BY NEXGEN BP/ MAXTERA ICC-ESR-5193	5-3/4" 1.0 PCF INSULFOAM EXPANDED POLYSTYRENE (EPS) W/ 500PPM PREVENTOL	6-3/4"	DUPONT BETAFUSE 654 LAMINATING ADHESIVE	CPX 10424M X 48 HOT MELT

INSTALLATION NOTES:

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

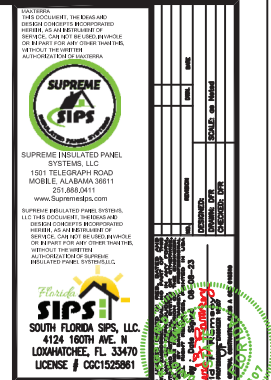
PERFORMANCE RATING	
BASED ON TAS 201,TAS 202, TAS 203	
TRANSVERSE LOADING DESIGN PRESSURE (PSF)	IMPACT RATING
THIS WALL PANEL SYSTEM IS NOT APPROVED FOR AIR INFILTRATION AND WATER PENETRATION. AIR INFILTRATION AND WATER PENETRATION TESTING TO TAS 202 WAS NOT PERFORMED	
BASED ON ASTM E72-10, SECTION 9 COMPRESSION LOADING *	
CONCENTRATED LOADING (LBS)	DISTRIBUTED LOADING (LBS/FT)
TRANSVERSE DEFLECTION DID NOT EXCEED $L/360$. COMPRESSION LOAD BASED ON AVERAGE OF THREE DIVIDED BY ALLOWED STRESS DESIGN SAFETY FACTOR PER AISI.	
* THE ONLY LOADING PERFORMED PER ASTM 72-10 WAS THE COMPRESSION LOADING. THE TENSION OR RACKING LOADS WERE NOT PERFORMED. THEREFORE, NEITHER THE TENSION OR RACKING CAPACITIES ARE APPROVED.	

Index of Sheets

- 1. Cover Sheet**
- 2. 8 x 19 Panel Wall and Details**
- 3. 4 x 12 Panel Wall and Details**
- 4. Details 1**
- 5. Details 2**

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David F Ramsey, Florida Professional Engineer
15307 on the date adjacent to the seal.
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David F
Ramsey

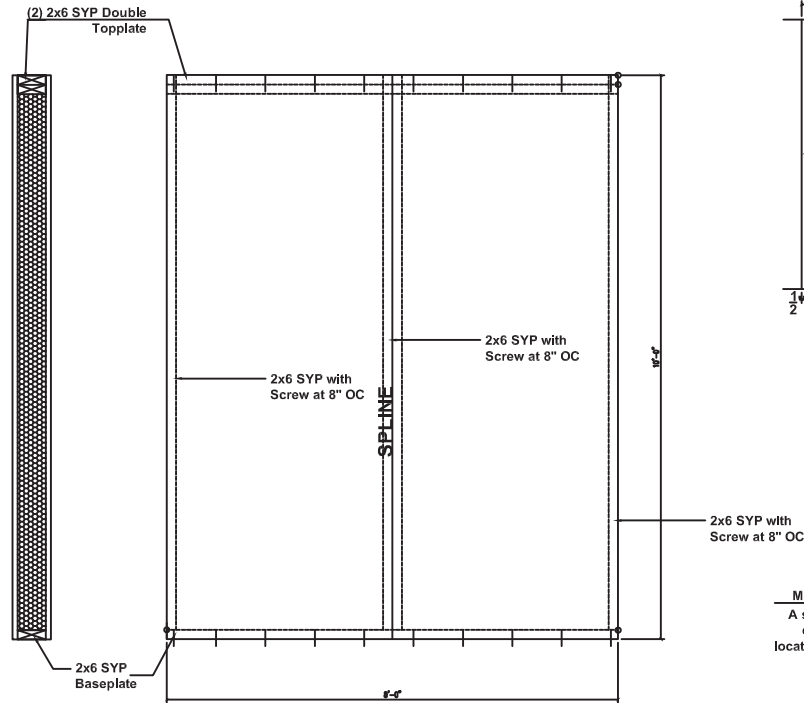


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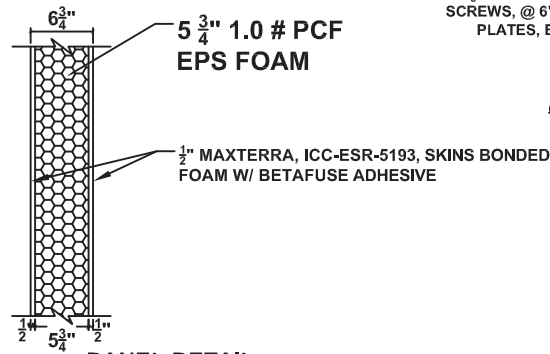
General Notes

Sheet Number
1 of 5

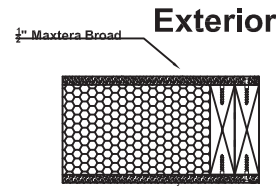
Job # 4-1022



**MAXTERRA / MAXTERRA
PANEL END CONNECTIONS
N.T.S**



**PANEL DETAIL
N.T.S**



Materra Skin Fastened to 2"X Using
A single row of #10 x 1 1/2" Flat Head,
coated fiber cement board screws
located @ 3" from each end and 6" OC

1 5/8" COATED FLAT HEAD
SCREWS, @ 6" O.C., BOTH
PLATES, BOTH SIDES

6 3/4" SIPS
PANEL

(2)2X SYP PT
TOP PLATE

**DOUBLE TOP PLATE DETAIL
N.T.S**

6" SIPS
PANEL

1 5/8" COATED FLAT HEAD
SCREWS, @ 6" O.C.,
BOTH SIDES

2X SYP PT
BASEPLATE

1" X 5 1/2" RED HEAD CONCRETE
WEDGE ANCHOR OR EQUAL
TO BE 2' O.C.

**BASEPLATE DETAIL
N.T.S**

#10 X 1 1/2" COATED FLAT
HEAD SCREWS, @ 6" O.C.,
BOTH PLATES, BOTH
SIDES (OFFSET SCREWS 2"
FROM OPPOSING PANEL
FACE)

TEST APPARATUS W/ #14
SCREWS @ 3'-0" O.C.

6 3/4" SIPS
PANEL

(2) 2X6 SYP PT
TOP PLATE

**TOP PLATE APPARATUS ANCHORING DETAIL
N.T.S**



SPLINE

2" SHOP - CUT
SLOT BOTH SIDES.

PANEL JOINT

1/2" GAP
TYPICAL

MANUS BOND

MANUS BOND

1 3/8" APA PLY / COATED FIBER
CEMENT BOARD SCREWS #10 x
1 1/4" AND MANUS BOND 75 AM
@ 1 1/4" O.C. ON BOTH SIDES OF
JOINT OFFSET SCREW PATTERN
EACH SIDE OF WALL

**DETAIL A
TYPICAL MgO SIPS' S WALL PANEL
JOINT
N.T.S**

SUPREME SIPS
SUPREME INSULATED PANEL
SYSTEMS, LLC
1501 TELEGRAPH ROAD
MOBILE, ALABAMA 36611
251.385.0411
www.supremesips.com
SUPREME INSULATED PANEL SYSTEMS,
LLC HAS BEEN QUALIFIED BY THE
INTERNATIONAL CODE COUNCIL OF
BUILDING OFFICIALS (ICC) AS AN
APPROVED PROVIDER OF TRAINING
AND SUPPORT FOR ALL OTHER TRAINING
PROVIDERS WHOSE TRAINING
MATERIALS ARE APPROVED BY ICC.
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NEXGEN Building Products, LLC

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8 x10 Wall Panel with Details

Sheet Number
2 of 5
Job # 4-1022

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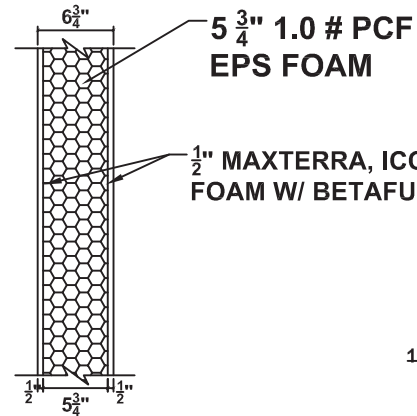
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2X6 S.Y.P. DOUBLE TOPPLATE

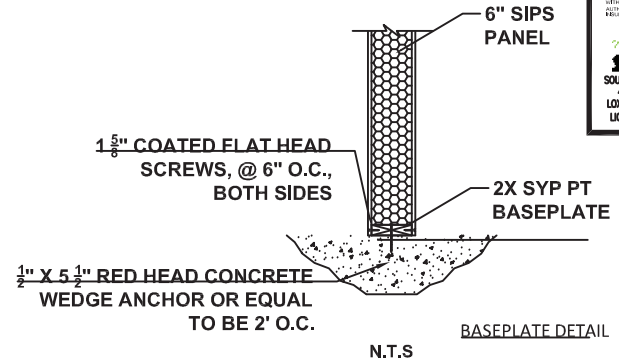
2X6 S.Y.P. BASEPLATE

4'-0"

12'-0"



PANEL DETAIL
N.T.S



BASEPLATE DETAIL
N.T.S

#10 X 1 5/8" COATED FLAT
HEAD SCREWS, @ 6" O.C.,
BOTH PLATES, BOTH
SIDES(OFFSET SCREWS 2"
FROM OPPOSING PANEL
FACE)

6 3/4" SIPS
PANEL

(2) 2X6 SYP PT
TOP PLATE

TOP PLATE APPARATUS ANCHORING DETAIL
N.T.S

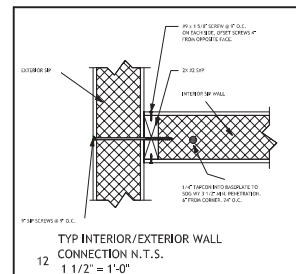
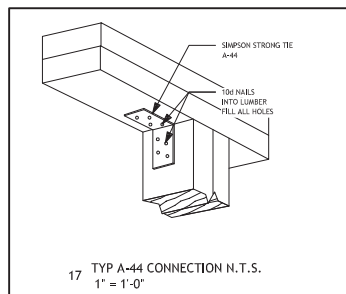
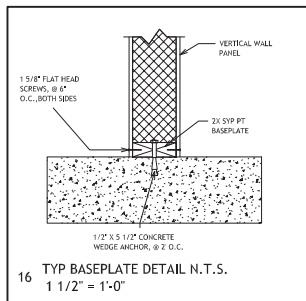
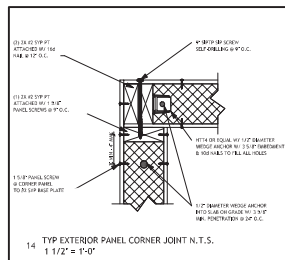
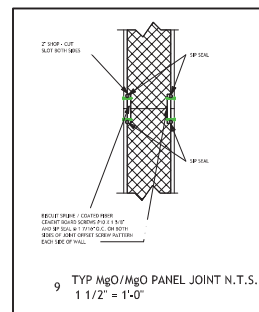
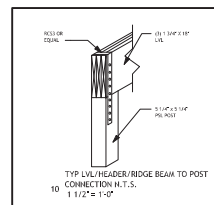
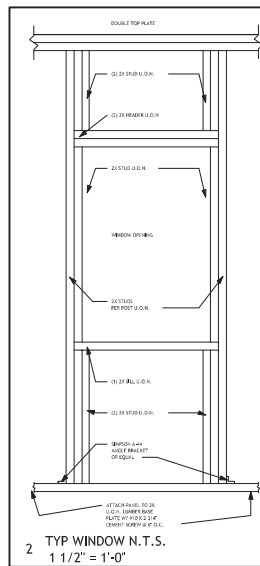
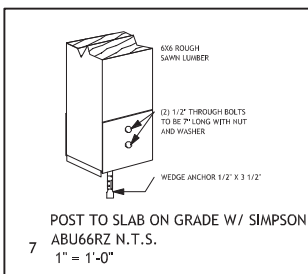
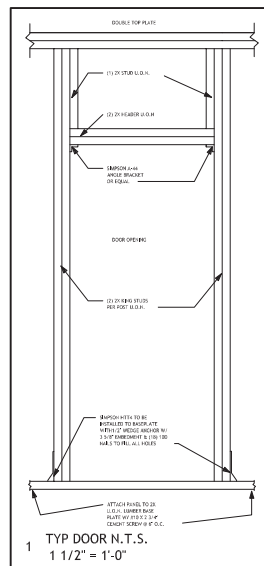
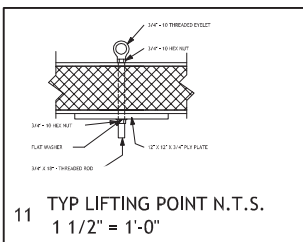
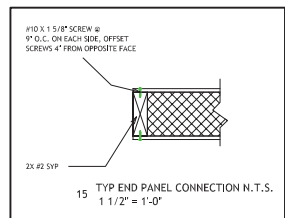
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4 x 12 Wall with Details
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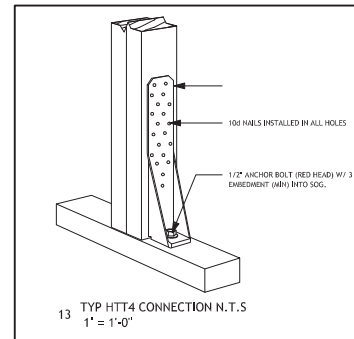
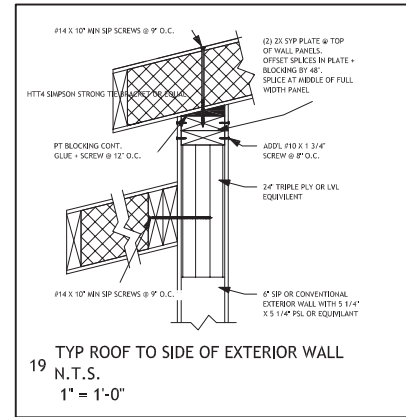
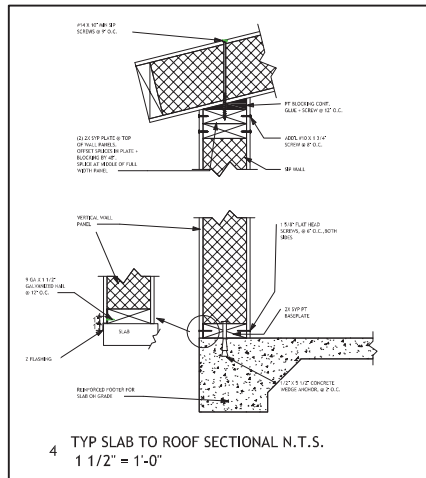
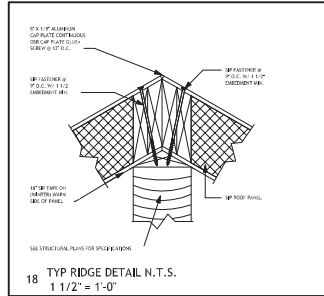
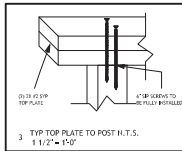
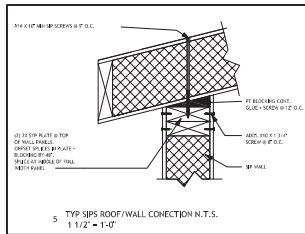
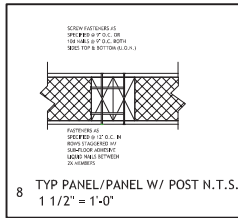
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Details 1

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Details 2

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