

NEW PANEL KITS, LLC

4 1/4" HARDIE WALL PANEL - STRUCTURAL INSULATED PANEL

INSTALLATION DETAILS AND PERFORMANCE RATINGS

PRODUCT EVALUATION NOTES:

1.

THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORTS AND ASSOCIATED LABORATORY DRAWINGS TO THE PERFORMANCE STANDARDS LISTED IN PRODUCT EVALUATION REPORT NO. 2785 FOR PRODUCT APPROVAL RULE 61G20-3.005(1)(D) – PRODUCT EVALUATION REPORT BY A LICENSED PROFESSIONAL ENGINEER AND ARE CONSISTENT WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA BUILDING AND RESIDENTIAL CODES EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2.

TESTING IS DOCUMENTED IN CERTIFIED TESTING LABORATORIES TEST REPORT NO. CTLA 1949W, SIGNED AND SEALED BY RAMESH PATEL, FL P.E. NO. 20224 ON 2/27/09 AND ADDENDUM LETTER TO REPORT NO. CTLA 1949W, DATED 12/25/09. TESTING PERFORMED TO THE FOLLOWING.

2.1.

ASTM E1803-99

2.1.1.

SECTION 6, TRANSVERSE LOAD TEST REFERENCING ASTM E72, SECTION 11

2.2.

ASTM E72-05

2.2.1.

SECTION 11, TRANSVERSE LOAD TEST USING CHAMBER METHOD (UNIFORM PRESSURE LOADING)
3.

SEE PRODUCT EVALUATION NO. 2785 FOR PRODUCT EVALUATION PER PRODUCT APPROVAL RULE 61G20-3.005(1)(D) – PRODUCT EVALUATION REPORT BY A LICENSED PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA BUILDING AND RESIDENTIAL CODES EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
4.

THIS PRODUCT HAS NOT BEEN EVALUATED FOR USE IN THE HVHZ.
5.

THIS PRODUCT HAS NOT BEEN EVALUATED FOR IMPACT RESISTANCE.
6.

NOTES ON STRUCTURAL DESIGN OF PANELS:

6.1.

ADEQUACY OF THE STRUCTURAL FRAMING SYSTEM TO WITHSTAND AND TRANSFER APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT.

6.2.

TOP AND BOTTOM SIP PANEL INSTALLATION SHALL BE DESIGNED AND ANCHORED TO TRANSFER ALL LOADS TO THE SUPPORTING STRUCTURE. THIS DESIGN IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT.

6.3.

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC PROJECT. A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.

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SHEET	DESCRIPTION
1	GENERAL NOTES - PERFORMANCE RATINGS
2	ELEVATIONS AND SECTION DETAILS

Table 1 - 48" Wide x 144" Tall			
ALLOWABLE UNIFORM TRANSVERSE PRESSURE (WIND) LOADS (+/- PSF)			
PRESSURE (WIND) LOADS (psf)	DEFLECTION LIMITATION (L/x)	MAX. PANEL SPAN (ft)	Rx (lb/ft)
10	L/360	12.00	60.00
15	L/360	12.00	90.00
20	L/360	12.00	120.00
25	L/360	12.00	150.00
30	L/360	11.59	173.91
35	L/360	11.01	192.74
40	L/360	10.53	210.68
45	L/360	10.13	227.89
50	L/360	9.78	244.47
10	L/240	12.00	60.00
15	L/240	12.00	90.00
20	L/240	12.00	120.00
25	L/240	12.00	150.00
30	L/240	12.00	180.00
35	L/240	12.00	210.00
40	L/240	12.00	240.00
45	L/240	11.59	260.87
50	L/240	11.19	279.85
10	L/180	12.00	60.00
15	L/180	12.00	90.00
20	L/180	12.00	120.00
25	L/180	12.00	150.00
30	L/180	12.00	180.00
35	L/180	12.00	210.00
40	L/180	12.00	240.00
45	L/180	12.00	270.00
50	L/180	12.00	300.00
10	L/120	12.00	60.00
15	L/120	12.00	90.00
20	L/120	12.00	120.00
25	L/120	12.00	150.00
30	L/120	12.00	180.00
35	L/120	12.00	210.00
40	L/120	12.00	240.00
45	L/120	12.00	270.00
50	L/120	12.00	300.00

- TABLE 1 NOTES:
1.

THE TABULATED VALUES ARE FOR PANELS WITH SINGLE SPAN SIMPLY SUPPORTED CONDITIONS WITH THE PANELS SUPPORTED AT EACH END.
2.

TABULATED VALUES ARE APPLICABLE TO 4 1/4" THICK PANELS.
3.

AXIAL PANEL LOADS (Rx) ARE SHOWN IN UNITS OF POUNDS PER LINER FOOT (PLF).
4.

TABULATED VALUES ARE APPLICABLE TO PANELS WITH SPLINES INSTALLED AT LONGITUDINAL (VERTICAL) PANEL JOINTS.
5.

TABULATED VALUES ARE APPLICABLE TO PANELS INSTALLED WITH THE STRONG AXIS OF THE PANEL FACES PARALLEL TO THE PANEL SPAN.
6.

MAXIMUM PANEL SPAN IS 12' (144"). MAXIMUM PANEL WIDTH IS 4' (48"). SPAN AND WIDTHS LESS THAN THE MAXIMUM ARE ACCEPTABLE.
7.

VALUES SHOWN ARE BASED ON PANEL STRENGTH WITH A FACTOR OF SAFETY OF 1.5.

PROJECT NO. 422-0614

NEW PANEL KITS, LLC
510 PAUL MORRIS DRIVE
ENGLEWOOD, FL 34223

TITLE:
4-1/4" HARDIE WALL PANEL - STRUCTURAL INSULATED PANEL
GENERAL NOTES - PERFORMANCE RATINGS

DATE:
3/14/23

DRAWING NO:
NPKIT0002

SHEET:
1 OF 2

REV:

DESCRIPTION

DATE

BY

PREPARED BY:

PTC PRODUCT DESIGN GROUP, LLC
P.O. Box 520775
Longwood, FL 32752-0775
FBPE Cert. of Auth. No. 25935

Drawn By: RJA

Scale: NONE

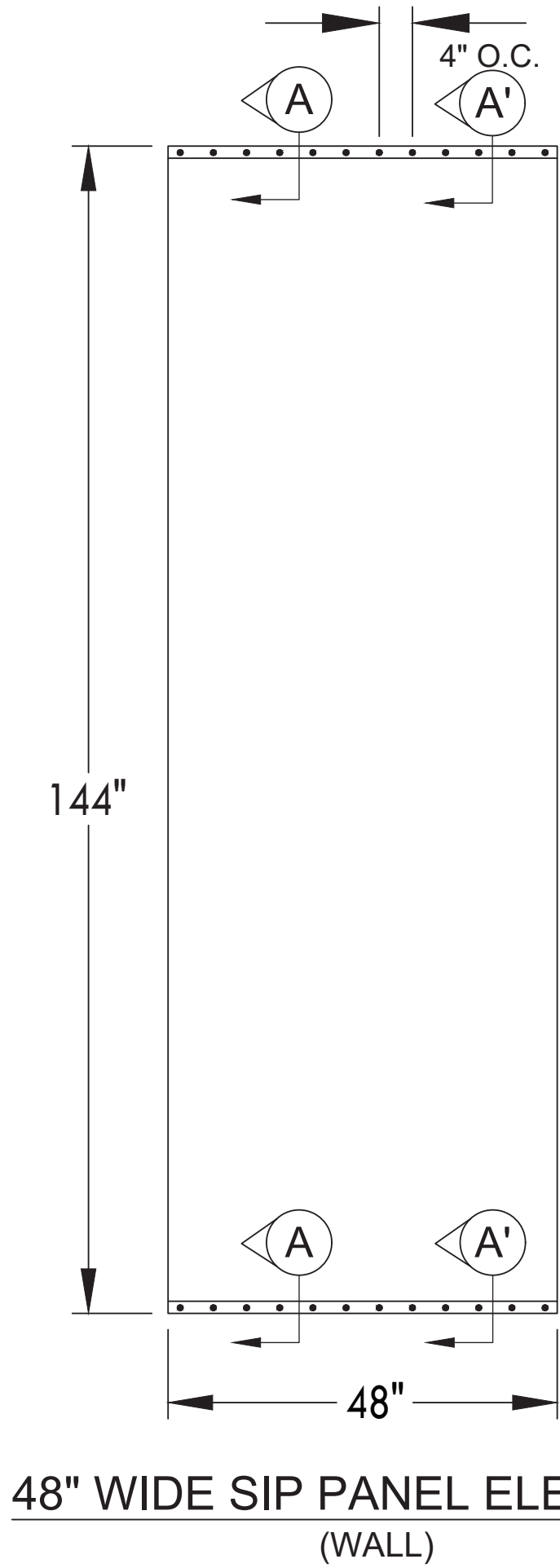
Rev:

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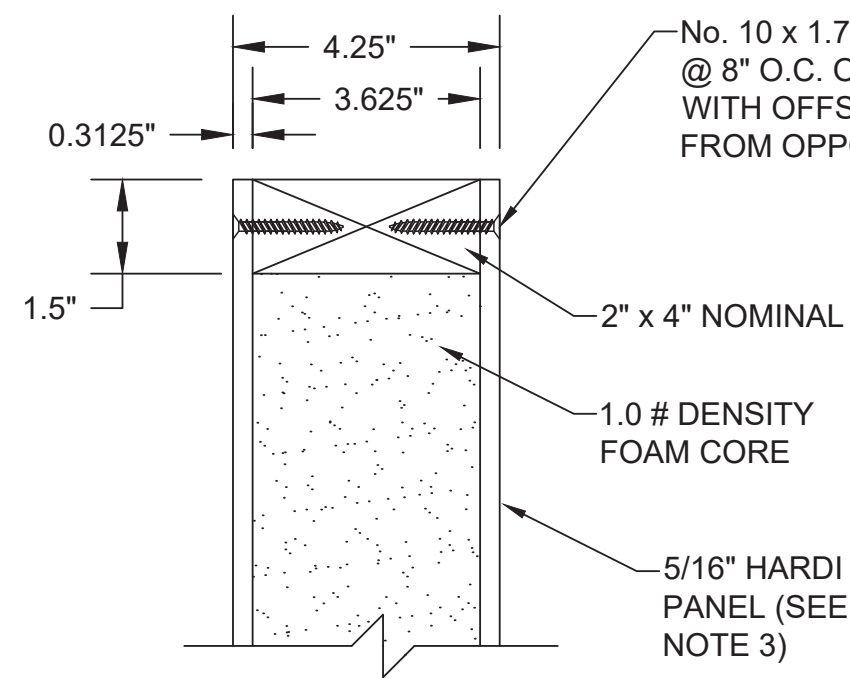
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Robert J. Amoruso, P.E.
Florida P.E. No. 49752

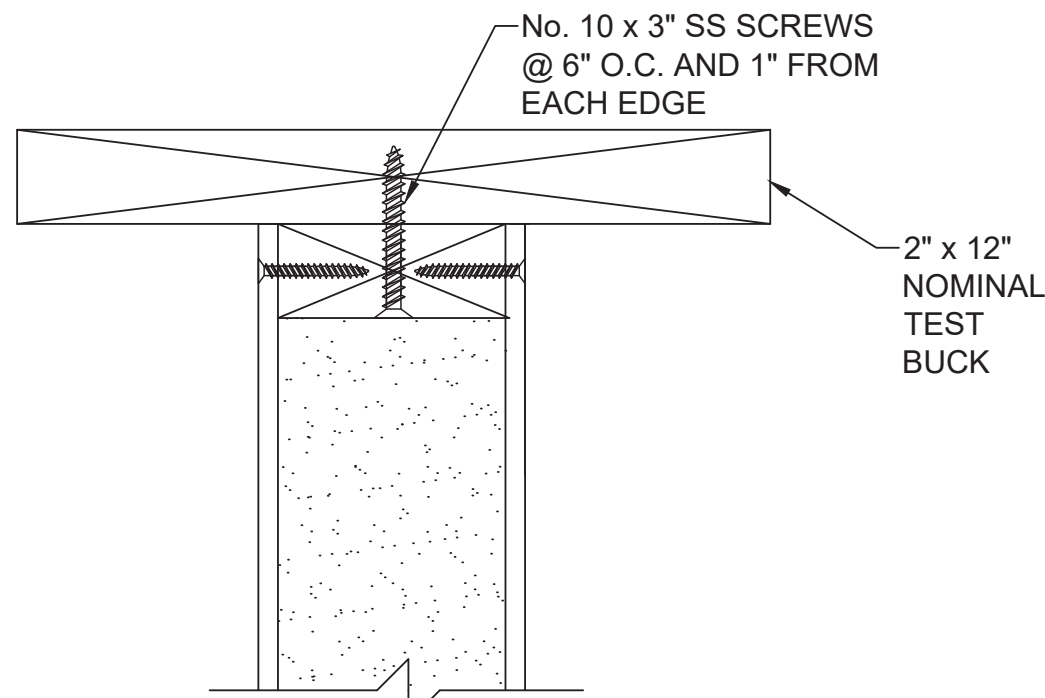
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Date: 2023.03.24 12:44:05 -04'00'



48" WIDE SIP PANEL ELEVATION
(WALL)



A EDGE DETAIL - HORIZONTAL
WALL PANEL ASSEMBLY
FASTENING W/O EDGE SUPPORT
SEE SECTION A' FOR EDGE
SUPPORT USED IN TESTING
(SEE NOTE 1 THIS SHEET)



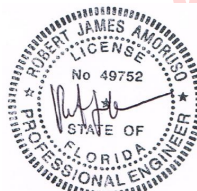
A' EDGE DETAIL - HORIZONTAL
WALL PANEL ASSEMBLY
WITH EDGE SUPPORT
SEE SECTION A FOR PANEL
ASSEMBLY FASTENING
(SEE NOTE 2 THIS SHEET)

- NOTES:
- ELEVATION A SHOWS THE SIP PANEL TOP AND BOTTOM END ASSEMBLY FASTENING DETAILS.
 - ELEVATION A' SHOWS THE SIP PANEL SUPPORT CONNECTION USED IN TESTING.
 - TESTING WAS PERFORMED, AND DATA COLLECTED AS SHOWN ON THESES INSTALLATION INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL TO SPECIFY FASTENER SIZE, FREQUENCY AND OTHER ENGINEERING ELEMENTS REQUIRED BY THE NEEDS INDIVIDUAL DESIGNS.
 - THE DESIGN PROFESSIONAL FOR SITE-SPECIFIC INSTALLATIONS SHALL ESTABLISH PROPER CONNECTION DETAILS FOR INSTALLATION OF THE SIP PANELS.
 - HARDIE PANEL SECURED TO FOAM CORE WITH ISOGRIP 2020 GLUE BY ASHLAND SPECIALITY CHEMICAL COMPANY)

NEW PANEL KITS, LLC 510 PAUL MORRIS DRIVE ENGLEWOOD, FL 34223			PROJECT NO. 422-0614		
TITLE: 4-1/4" HARDIE WALL PANEL - STRUCTURAL INSULATED PANEL ELEVATIONS AND SECTION DETAILS					
PREPARED BY: 					
DRAWN BY: RJA			DATE: 3/14/23		
SCALE: NONE			DRAWING NO: NPKIT0002		
REV: ---			SHEET: 2 OF 2	REV	DATE
PTC PRODUCT DESIGN GROUP, LLC P.O. Box 520775 Longwood, FL 32752-0775 FBPE Cert. of Auth. No. 25935 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com			BY		

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