

INNOVA PANEL, LLC

STRUCTURAL INSULATED PANEL - PLYWOOD/MgO FACE SHEETS

ROOF AND FLOOR

INSTALLATION DETAILS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN HAS BEEN TESTED TO THE FOLLOWING PERFORMANCE TESTING STANDARDS IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA BUILDING AND RESIDENTIAL CODES INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

1.1. ASTM E330-02

1.2. TAS 201-94

1.3. TAS 202-94, STATIC LOADING ONLY

1.4. TAS 203-94
2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED FENESTRATION TESTING LABORATORY TEST REPORT NO. 13-5033 AND ASSOCIATED LABORATORY DRAWINGS TO ASTM E330-02, TAS 201-94, TAS 202-94 AND TAS 203-94 CONSISTENT WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA BUILDING AND RESIDENTIAL CODES INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) .
3. ADEQUACY OF THE EXISTING STRUCTURAL FRAMING SYSTEM AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCTTRANSVERSE 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 USE WITH THIS DOCUMENT.
5. SEE SIP PANEL SCHEDULE TABLE ON THIS SHEET FOR APPROVED PANEL COMPOSITIONS.
6. SEE PERFORMANCE RATINGS TABLE ON THIS SHEET FOR DESIGN PRESSURE LIMITATIONS BASED ON THE FOLLOWING PARAMETERS. "NR" IN THE PERFORMANCE RATINGS TABLE INDICATE THE PANEL IS NOT RECOMMEND FOR THAT USE.

6.1. DP LIMITATION BASED ON DEFLECTION AT L/360, L/240 AND L/180

6.2. DP LIMITATION BASED ON ULTIMATE DESIGN LOADING ACHIEVED IN TESTING TO TAS 202 AND ASTM 330 DIVIDED BY THE FOLLOWING SAFETY FACTORS

6.2.1. NEGATIVE UPLIFT PRESSURE LOADING SAFETY FACTOR OF 2.

6.2.2. POSITIVE DOWNWARD PRESSURE LOADING SAFETY FACTOR OF 1.5.

6.3. DP LIMITATION BASED ON IMPACT/CYCLIC LOADING TESTING TO TAS 201/203.
7. OVERALL DESIGN PRESSURE DUE TO TRANSVERSE LOADING SHALL BE BASED ON THE LOWER OF DESIGN PRESSURES DUE TO THE FOLLOWING FROM PERFORMANCE RATING TABLES ON THIS SHEET:

7.1. FOR ROOF PANELS

7.1.1. DEFLECTION

7.1.2. STATIC TRANSVERSE LOADING

7.1.3. CYCLIC LOADING WHERE IMPACT PROTECTION IS REQUIRED.

7.2. FLOOR PANELS

7.1.1. DEFLECTION

7.1.2. STATIC TRANSVERSE LOADING

8. PLYWOOD/MgO FACE SHEET PANELS APPLICABLE TO AREAS INSIDE AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).FOR PANELS USED INSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ), ONLY THE TAS 201, TAS 202 AND TAS 203 RESULTS ARE APPLICABLE. FOR PANELS USED OUTSIDE THE HVHZ, THE ASTM E330 AND TAS 201, TAS 202 AND TAS 203 RESULTS ARE APPLICABLE.

9. MAXIMUM PANEL SIZE

9.1. MAXIMUM SPAN IS 13' (156")

9.2. HEIGHT IS NOT LIMITED BASED ON TESTING AND CAN BE CONNECTED USING THE PANEL-TO-PANEL CONNECTION DETAIL B ON SHEET 2 OR SPLICE PLATE CONNECTION DETAIL C SHOWN ON SHEET 4.

10. THE MANUFACTURING OF THIS PRODUCT AS DEPICTED IN THIS PRODUCT APPROVAL DOCUMENT INVOLVES THE USE OF ONE OR MORE PATENTS. ANY UNAUTHORIZED DUPLICATION IS A VIOLATION OF THE ISSUED PATENTS.
- PERFORMANCE RATINGS
- | PLYWOOD and MgO
FACE SHEETS | ASTM E330 - OUTSIDE HVHZ | | | | TAS 202 - HVHZ | | | |
|--------------------------------|--------------------------|----------|----------|----------|--------------------------------|----------|----------|----------|
| | Parameter | | Negative | Positive | Parameter | | Negative | Positive |
| | DEFLECTION | L/360 | 97 | 97 | DEFLECTION | L/360 | NR | NR |
| | | L/240 | 103 | 97 | | L/240 | 103 | 97 |
| | | L/180 | 103 | 97 | | L/180 | 103 | 97 |
| | LOADING | STATIC | 103 | 97 | LOADING | STATIC | 103 | 97 |
| | | CYCLIC * | 137 | 97 | | CYCLIC * | 137 | 97 |
| * BASED ON TAS 201/203 TESTING | | | | | * BASED ON TAS 201/203 TESTING | | | |
- PERFORMANCE RATINGS TABLE NOTES
- NR MEANS "NOT RECOMMENDED"
 - SEE GENERAL NOTES 6, 7 AND 8 FOR TABLE USAGE NOTES
- | TABLE OF CONTENTS | |
|-------------------|--|
| SHEET | SHEET DESCRIPTION |
| 1 | GENERAL NOTES, PERFORMANCE RATING & PANEL SCHEDULE |
| 2 | SIP ELEVATIONS AND END DETAILS |
| 3 | SIP END DETAILS |
| 4 | SPLICE CONNECTION DETAILS |
- | SIP PANEL SCHEDULE | | | | |
|--|---|--|-------------------------|--|
| TOP (EXTERIOR) SKIN | BOTTOM (INTERIOR) SKIN | CORE | OVERALL PANEL THICKNESS | ADHESIVE |
| 19/32" THICK PLYWOOD
APA CLASS: EXPOSURE 1, EXTERIOR
FIRE CLASS: CLASS III OR C
CODE COMPLIANCE: PS 1-09 OR PS 2-10
FLAME SPREAD: 76-200 WITH SMOKE
DEVELOPED INDEX < 450 | 12 MM THICK
MAGNESIUM OXIDE
BOARD BY MGO CORP | 7 1/2" 1.0 PCF
INSULFOAM EXPANDED
POLYSTYRENE (EPS). | 8 11/16" | DUPONT BETAFUSE
643 & 654
LAMINATING
ADHESIVE |
- PROJECT NO. 422-0610
- INNOVA PANEL, LLC

1541B North Powerline Road

Pompano Beach, FL, 330639

TITLE: STRUCTURAL INSULATED PANEL - PLYWOOD/MgO FACE SHEETS

GENERAL NOTES, PERFORMANCE RATING & PANEL SCHEDULE

PREPARED BY:

DATE: 06/24/14

DRAWN BY: RJA

DRAWING NO: IEBS0001

SCALE: NONE

SHEET: 1 OF 4

REV: E

PTC PRODUCT DESIGN GROUP, LLC

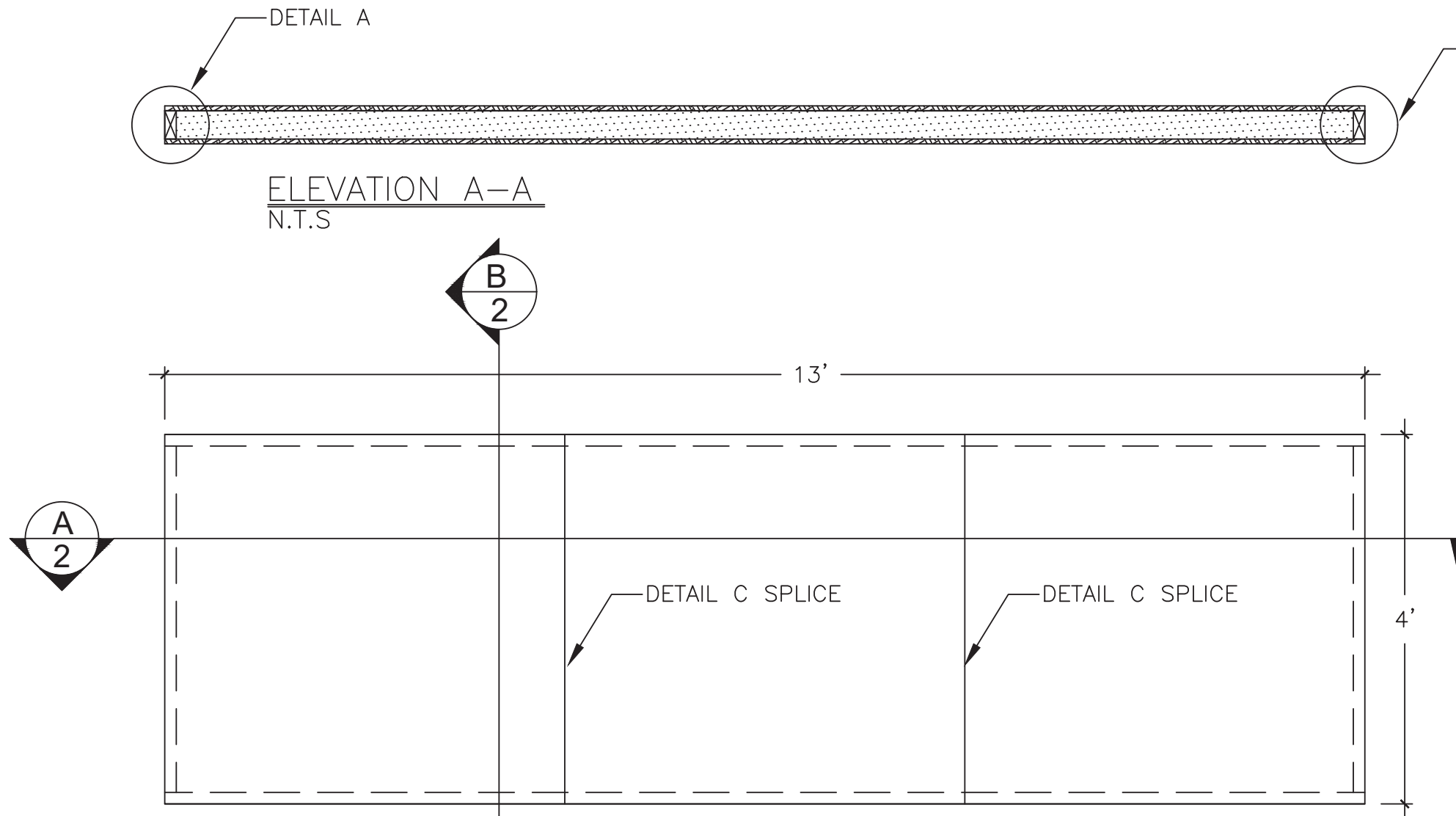
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Email: info@ptg-corp.com
- Robert J. Amoruso, P.E.
Florida P.E. No. 49752
-
- Digitally signed
by Robert J Amoruso
Date: 2024.02.15
16:13:53 -05'00'



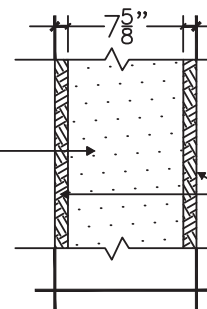
ELEVATION A-A
N.T.S

PLAN
N.T.S

1.0 PCF INSULFOAM EXPANDED
POLYSTYRENE FOAM CORE PER CURRENT
MD NOTICE OF ACCEPTANCE (NOA)

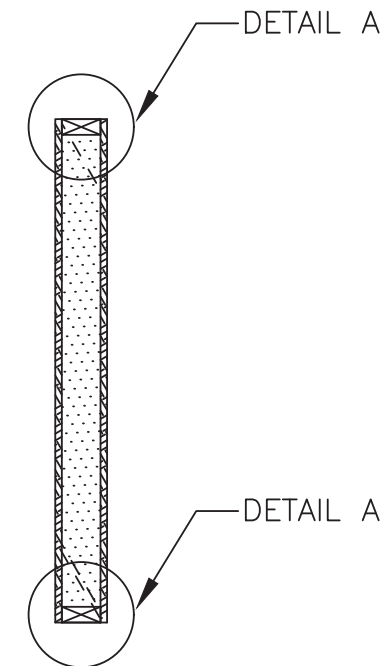
PANEL SECTION
N.T.S

VARIES BY PANEL TYPE
SEE PANEL SCHEDULE
ON SHEET 1



VARIES BY PANEL TYPE
SEE PANEL SCHEDULE
ON SHEET 1

SEE PANEL SCHEDULE
ON SHEET 1



ELEVATION B-B
N.T.S

PROJECT NO. 422-0610

REV	DESCRIPTION	DATE	BY
E	GENERAL UPDATE	1/6/23	RJA
D	UPDATE TO CURRENT FBC	10/14/20	RJA
REV	DESCRIPTION	DATE	BY

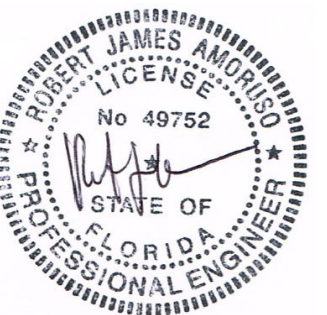
INNOVA PANEL, LLC
1541B North Powerline Road
Pompano Beach, FL, 330639

TITLE: STRUCTURAL INSULATED PANEL - PLYWOOD/MGO FACE SHEETS
SIP ELEVATIONS AND END DETAILS

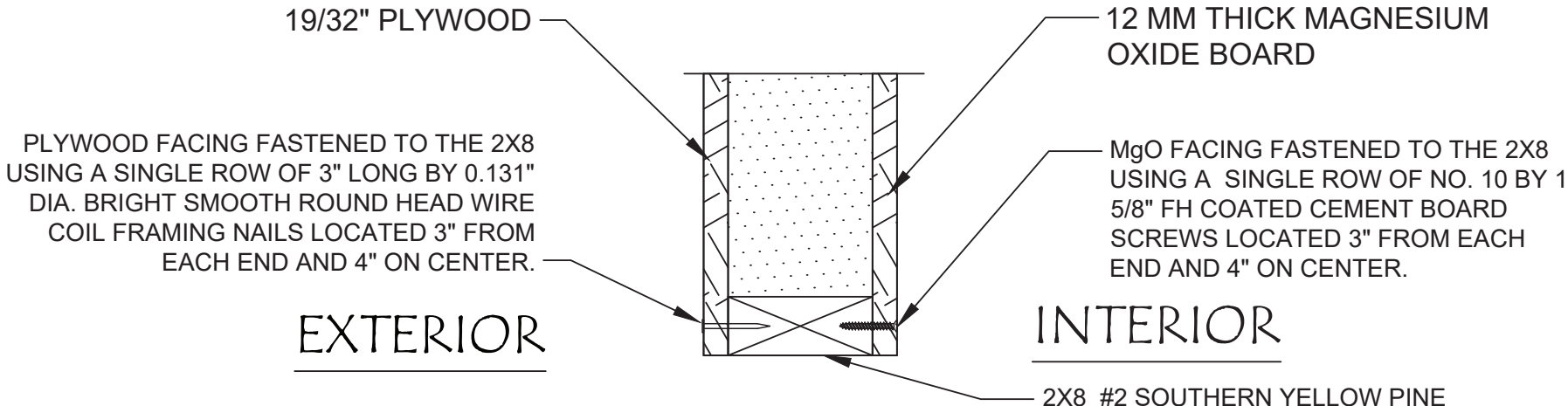
DATE:	06/24/14
DRAWING NO:	IEBS0001
SHEET:	2 OF 4
DRAWN BY:	RJA
SCALE:	NONE
REV:	E

PREPARED BY:
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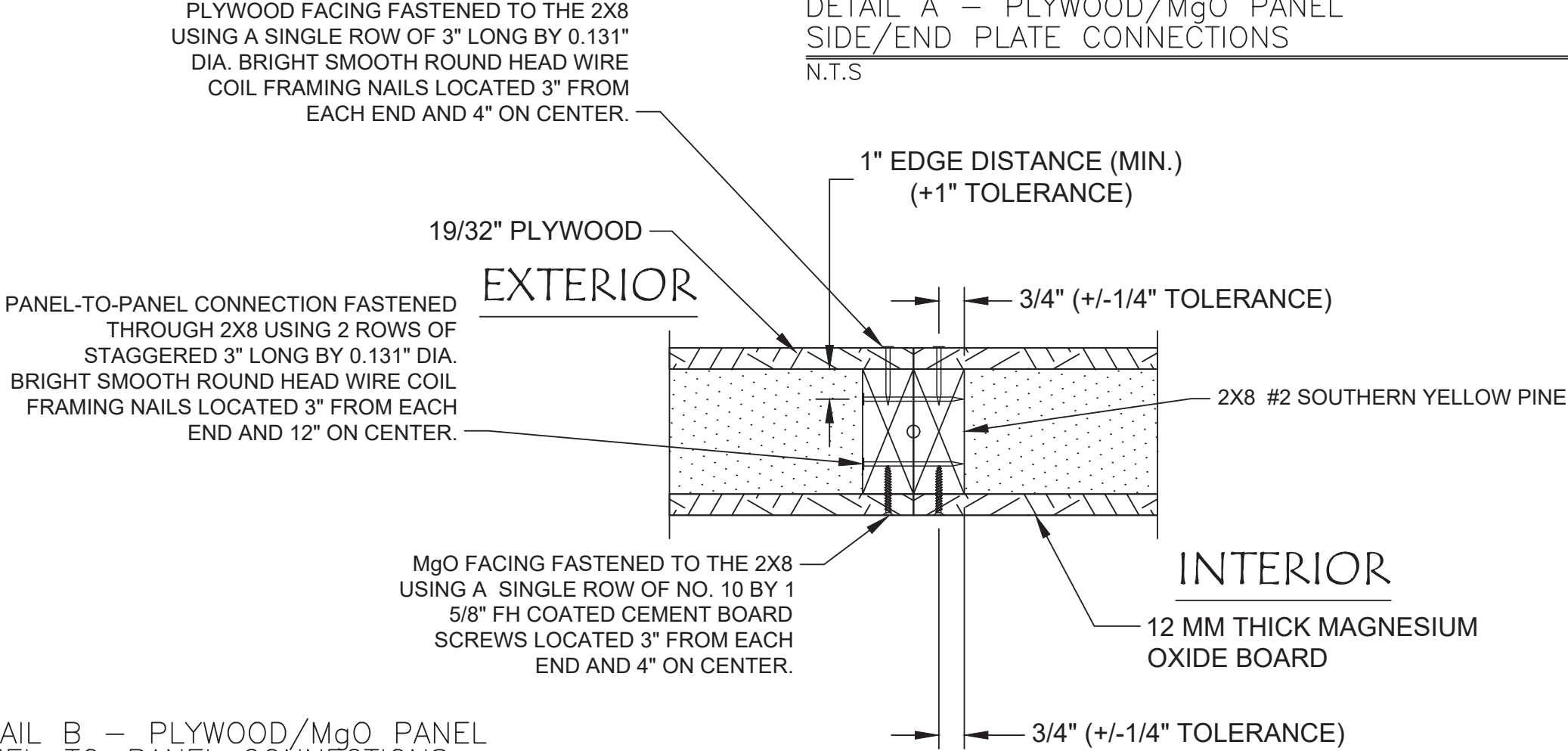
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DETAIL A – PLYWOOD/MgO PANEL
SIDE/END PLATE CONNECTIONS
N.T.S



DETAIL B – PLYWOOD/MgO PANEL
PANEL-TO-PANEL CONNECTIONS
N.T.S

PROJECT NO. 422-0610

		RJA	BY
		1/6/23	DATE
	GENERAL UPDATE		
E	UPDATE TO CURRENT FBC	10/14/20	
D	DESCRIPTION		
REV			

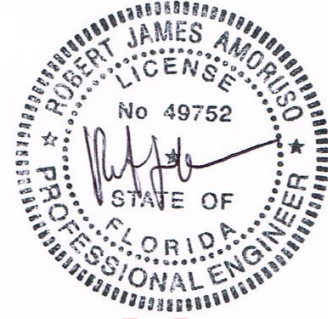
INNOVA PANEL, LLC
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Pompano Beach, FL, 330639

TITLE: STRUCTURAL INSULATED PANEL - PLYWOOD/MgO FACE SHEETS
SIP END DETAILS

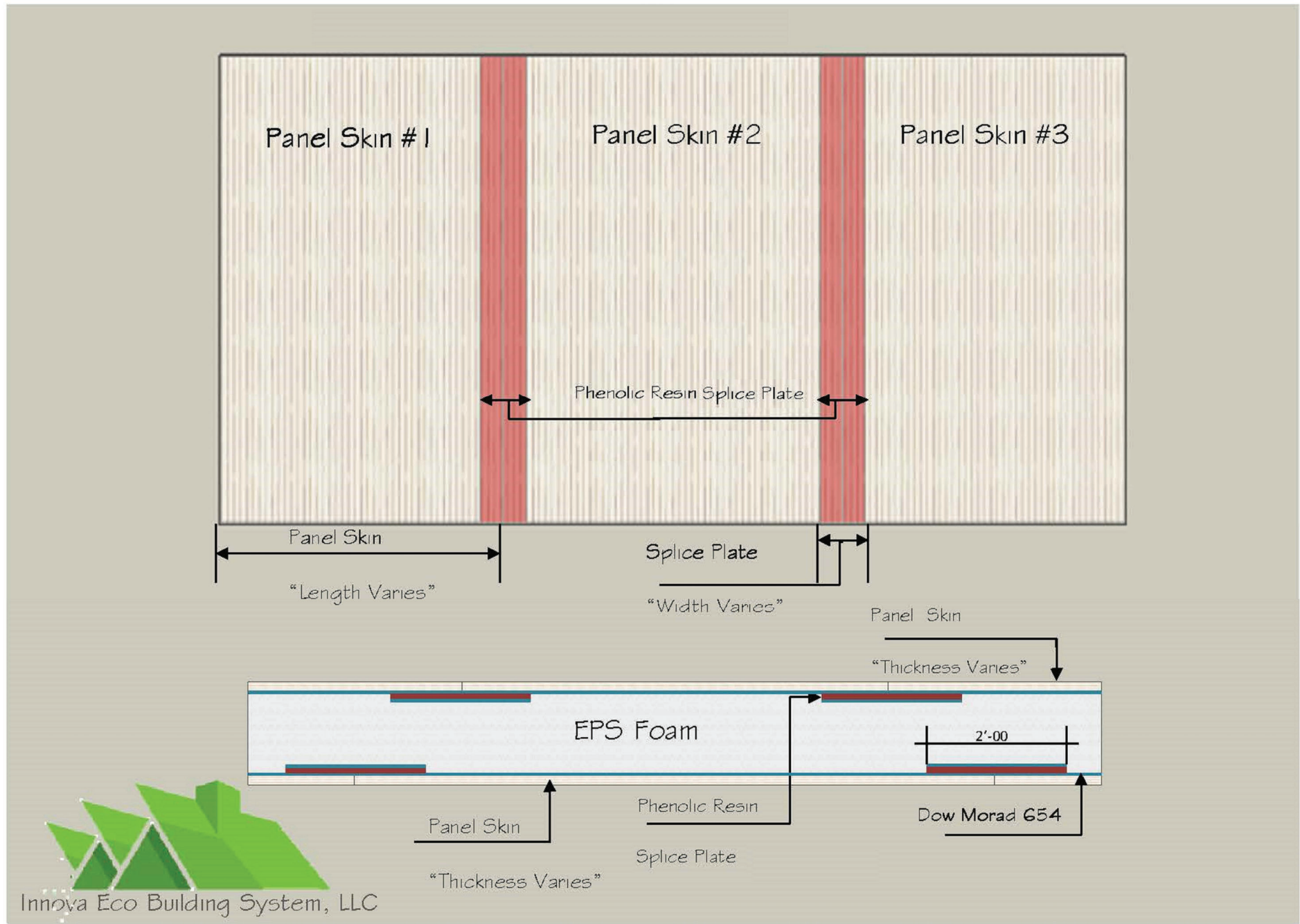
DATE:	06/24/14	DRAWING NO:	IEBS0001	SHEET:	3 OF 4
DRAWN BY:	RJA	SCALE:	NONE	REV:	E

PTC
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DETAIL C
SPLICE PLATE
CONNECTION
N.T.S

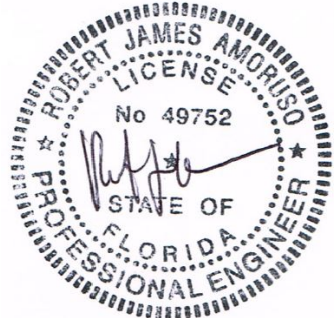
DETAIL C NOTES:

- LENGTH VARIES: INDICATES LOCATION OF SPLICE IS VARIABLE AND AS REQUIRED TO FACILITATE PANEL FABRICATION. LIMITED TO TWO SPLICES MAXIMUM PER SIDE OVER MAXIMUM 13' SPAN PERPENDICULAR TO SPLICE.
- THICKNESS VARIES: REFERS TO FACING SKIN THICKNESS AND MATERIAL. SEE SIP PANEL SCHEDULE ON SHEET 1.
- WIDTH VARIES: MINIMUM 2' WIDE PHENOLIC RESIN SPLICE PANEL USED.

PROJECT NO. 422-0610				
			RJA	BY
			1/6/23	
		GENERAL UPDATE		
		UPDATE TO CURRENT FBC	10/14/20	
		DESCRIPTION		DATE
		REV		

INNOVA PANEL, LLC 1541B North Powerline Road Pompano Beach, FL, 330639				
TITLE: STRUCTURAL INSULATED PANEL - PLYWOOD/MGO FACE SHEETS				
SPLICE CONNECTION DETAILS				
DATE:	06/24/14	DRAWN BY:	RJA	DATE:
DRAWING NO:	IEBS0001	SCALE:	NONE	DRAWN BY:
SHEET:	4 OF 4	REV:	E	SCALE:
				REV:

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