

BUTLER MANUFACTURING COMPANY

*BUTLERIB II HVHZ WALL LITE*PANL*

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1.

THIS PRODUCT HAS BEEN TESTED AND IS DESIGNED TO COMPLY WITH THE FOLLOWING AT THE DESIGN PRESSURE(S) STATED HEREIN.
- 1.1.

9TH EDITION (2026) FLORIDA BUILDING CODE REQUIREMENTS FOR THE HIGH VELOCITY HURRICANE ZONE, LARGE MISSILE IMPACT.
- 1.2.

THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. B8760.02-450-1, DATED 5/2/13 AND ASSOCIATED LABORATORY STAMPED DRAWINGS BY ARCHITECTURAL TESTING INC. TO THE FOLLOWING.
- 1.2.1.

TAS 202-94, STRUCTURAL OVERLOAD TEST TO +/-195 PSF AND DESIGN LOAD TEST TO +/-130 PSF.
- 1.2.2.

TAS 202-94, WATER PENETRATION TEST OF 15% OF POSITIVE DESIGN LOAD.
- 1.2.3.

TAS 201-94, LARGE MISSILE IMPACT
- 1.2.4.

TAS 203-94, CYCLIC WIND PRESSURE LOADING AT +/-130 PSF.
2.

ADEQUACY OF THE EXISTING STRUCTURAL MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
3.

CONFORMANCE TO CHAPTER 26 OF THE 9TH EDITION (2026) FLORIDA BUILDING CODE - PLASTICS FIRE RESISTIVE TESTING AND OUTDOOR EXPOSURE HAVE BEEN DETERMINED BY TESTING AS FOLLOWS.
- 3.1.

200 IFW 8.0 INTERIOR FIBERGLASS REINFORCED PANEL
- 3.1.1.

ASTM D1929 SELF-IGNITION TEMP > 650°F.
- 3.1.1.1.

ATI REPORT NO. B8609.02-106-18, DATED 11/07/12 DOCUMENTED RESULT OF 752°F.
- 3.1.2.

ASTM E84 SMOKE DEVELOPED INDEX (SMOKE DENSITY) < 450.
- 3.1.2.1.

ATI REPORT NO. B8609.03-121-24, DATED 11/09/12 DOCUMENTED RESULT OF 400.
- 3.1.3.

ASTM D635 RATE OF BURN CLASSIFICATION CC1 OR CC2.
- 3.1.3.1.

ATI REPORT NO. B8609.02-106-18, DATED 11/07/12 DOCUMENTED RESULT OF CC1.
- 3.1.4.

ASTM D638/G155 OUTDOOR EXPOSURE - TENSILE STRENGTH CHANGE +/-10% MAXIMUM.
- 3.1.4.1.

ATI REPORT NO. B8609.01-106-18, DATED 12/19/12 DOCUMENTED RESULT OF +0.2%.
- 3.2.

200 STW 8.0 EXTERIOR FIBERGLASS REINFORCED PANEL
- 3.2.1.

ASTM D1929 SELF-IGNITION TEMP > 650°F.
- 3.2.1.1.

ATI REPORT NO. B8609.05-106-18, DATED 11/07/12 DOCUMENTED RESULT OF 842°F.
- 3.2.2.

ASTM E84 SMOKE DENSITY < 450.
- 3.2.2.1.

ATI REPORT NO. B8609.04-121-18, DATED 11/09/12 DOCUMENTED RESULT OF 300.
- 3.2.3.

ASTM D635 RATE OF BURN CLASSIFICATION CC1 OR CC2.
- 3.2.3.1.

ATI REPORT NO. B8609.05-106-18, DATED 11/07/12 DOCUMENTED RESULT OF CC2.
- 3.2.4.

ASTM D638/G155 OUTDOOR EXPOSURE - TENSILE STRENGTH CHANGE +/-10% MAXIMUM.
- 3.2.4.1.

ATI REPORT NO. B8609.01-106-18, DATED 12/19/12 DOCUMENTED RESULT OF -1.1%.

INSTALLATION NOTES:

1.

SEE ANCHOR SCHEDULE ON SHEET 4 FOR REQUIRED FASTENERS AND APPLICABLE FASTENER SPACING.
2.

INSTALLATION ANCHORS SHALL BE INSTALLED AS SHOWN IN SECTIONS B-B AND C-C ON SHEET 4 USING THE PANEL WALL ELEVATION ON SHEET 3 AS GUIDANCE.
3.

INSTALLATION ANCHOR COMPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
- 3.1.

GIRT OR OTHER SECONDARY SUPPORT MEMBER BY OTHERS.
- 3.1.1.

MIN. 16 GAUGE, GRADE 50 (FTY = 50 KSI) MATERIAL.
4.

INSTALLATION FASTENER MATERIAL/SURFACE TREATMENT REQUIREMENTS.
- 4.1.

ALL INSTALLATION FASTENERS TO BE CORROSION RESISTANT, AND/OR HAVE A CORROSION RESISTANT COATING.
- 4.2.

WHEN EXPOSED TO SALTWATER ENVIRONMENTS WITHIN 3,000 FEET OF A SALTWATER COASTLINE MEET THE REQUIREMENTS OF SECTION 1711, 9TH EDITION (2026) FBC AND SECTION R332, 9TH EDITION (2026) FRC WHEN APPLICABLE.

This item has been digitally signed and sealed by Robert J. Amoruso, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

TABLE OF CONTENTS		
SHEET	REV.	SHEET DESCRIPTION
1	A	GENERAL & INSTALLATION NOTES
2	A	LITE*PANL SPECIFICATIONS
3	A	LITE*PANL INSTALLATION - WALL ELEVATION
4	A	LITE*PANL INSTALLATION - SECTIONS

PRODUCT RATING	
DESIGN PRESSURE RATING	IMPACT RATING
+/- 130 PSF	LARGE AND SMALL MISSILE IMPACT
Note: THIS SYSTEM WAS TESTED FOR WATER INFILTRATION IN ACCORDANCE WITH TAS 202.	

BUTLER MANUFACTURING COMPANY
1540 Genessee St.
Kansas City, MO 64102

BUTLERIB II HVHZ WALL LITE*PANL INSTALLATION ANCHORAGE DETAILS	DATE	BY	REVISION DESCRIPTION		
	6/30/15	RJA	UPDATE TO THE 5TH EDITION (2014) FBC	UPDATE TO THE 6TH EDITION (2017) FBC	UPDATE TO THE 9TH EDITION (2026) FBC
	12/11/17	RJA			
	9/11/26	RJA			

DATE: 5/15/13	DWN BY: RJA	CHK BY: n/a	SCALE: NONE
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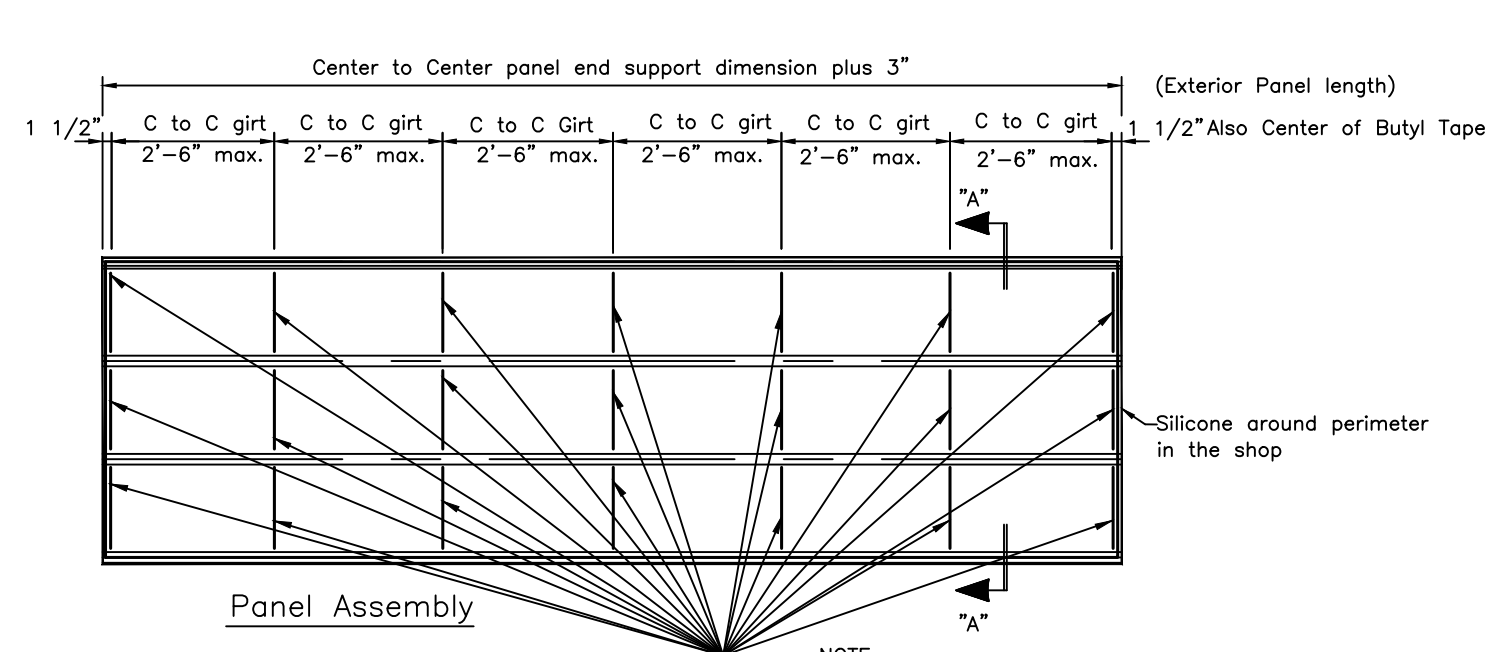


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PROJECT#: ACE-2026-160

DWG/REV: BMC0001, Rev C

SHT: 1 of 4



1. PRESS PANEL TO A FLAT PLANE WHEN CHECKING DIMENSIONS.
2. THE TOLERANCES ARE AVERAGES TAKEN FROM DIMENSIONS AT CENTER AND ENDS OF ALL PANELS. FOR PANELS 156" AND LONGER, TWO ADDITIONAL QUARTER POINT DIMENSIONS ARE REQUIRED FOR AVERAGES. THE MAXIMUM TOLERANCES AT ANY POINT THROUGHOUT LENGTH IS $\pm 3/16$.
3. CENTERLINE DIMENSIONS SHOWN ARE TO BE ϕ OF CORRUGATIONS AND MUST BE HELD WITHIN TOLERANCES THROUGHTOUT LENGTH OF PANEL.

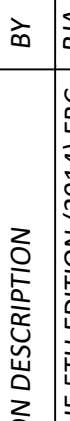
▲ CRITICAL DIMENSIONS TO BE HELD TO TOLERANCES SHOWN. TOLERANCES SHOWN MAY NOT BE ACCUMULATIVE.

INTERIOR CC1 PANEL DESCRIPTION:
The IsoTuff High Strength Class A Fire Rated (IFW) Fiberglass Reinforced Plastic (FRP) panels (Fired rated per ASTM E-84) use an Isophthalic Neopentyl Glycol (NPG) resin system with improved chemical and corrosion resistance. This resin is combined with woven roving and random chopped fiberglass to achieve high strength.

BUTLERB II HVHZ WALL LITE*PANL INSTALLATION ANCHORAGE DETAILS				
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B	UPDATE TO THE 6TH EDITION (2017) FBC	RJA	12/11/17	
C	UPDATE TO THE 9TH EDITION (2026) FBC	RJA	9/11/26	

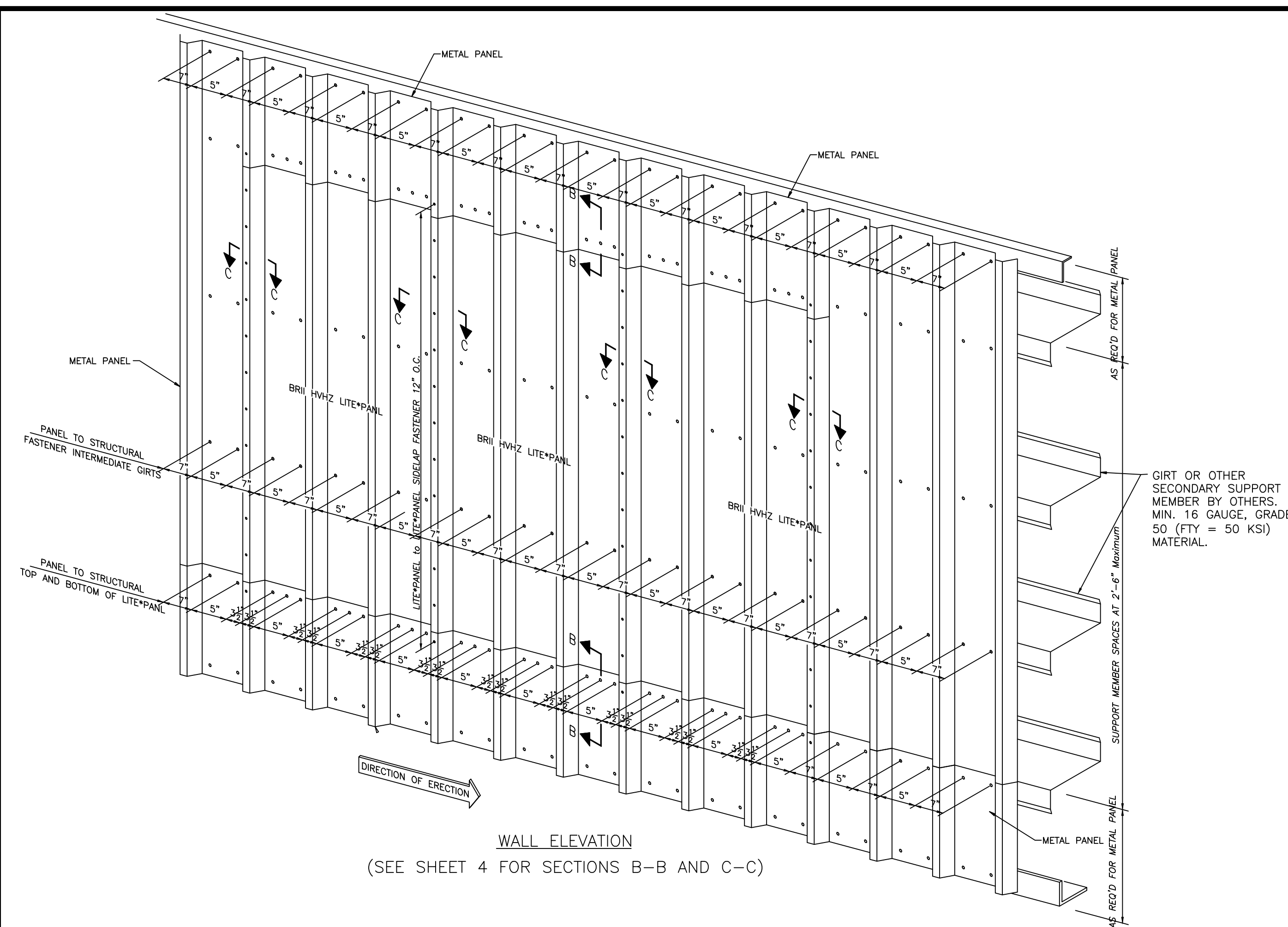
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SHT:	2 of 4



WALL ELEVATION
(SEE SHEET 4 FOR SECTIONS B-B AND C-C)

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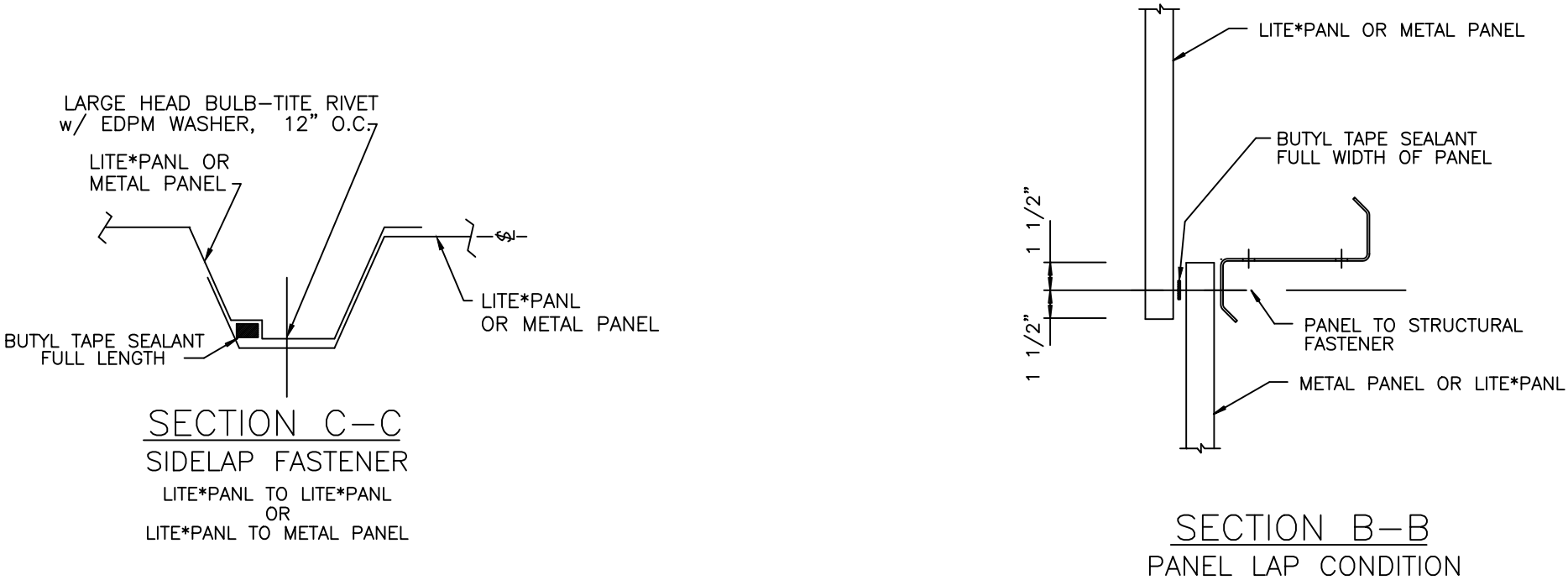


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DWG/REV: BMC0001, Rev C

SHT: 3 of 4



SECTION C-C / PANEL SIDELAP ATTACHMENT INSTALLATION DETAILS		
FASTENER LOCATION	FASTENER REQUIREMENT	FASTENER SPACING
LITE*PANL TO LITE*PANL	9/32" X 1-3/32" ALUMINUM, BULB-TITE RIVET WITH A 5/8" DIAMETER HEAD AND 1/16" THICK EDPM WASHER	FASTENERS ARE SPACED 1" FROM EACH END AND 12" ON CENTER THEREAFTER. A CONTINUOUS 3/16" X 1/4" STRIP OF BUTYL TAPE SHALL BE APPLIED BETWEEN THE PANELS.
LITE*PANL TO METAL PANEL		
METAL PANEL TO METAL PANEL	1/4-14 X 7/8" GALVANIZED STEEL SELF-DRILLING SCREW WITH A 1" DIAMETER HEAD AND RUBBER WASHER	

SECTION B-B / PANEL ATTACHMENT INSTALLATION DETAILS		
FASTENER LOCATION	FASTENER SPACING	FASTENER REQUIREMENT
METAL PANEL - INTERMEDIATE	TWO FASTENERS ARE USED BETWEEN EACH RIB, SPACED 7" APART AND 2-1/2" FROM THE CENTERLINE OF EACH RIB	1/4-14 X 1-1/2" GALVANIZED STEEL SELF-DRILLING SCREW WITH A 1" DIAMETER HEAD AND RUBBER WASHER
LITE*PANL- INTERMEDIATE	TWO FASTENERS ARE USED BETWEEN EACH RIB, SPACED 7" APART AND 2-1/2" FROM THE CENTERLINE OF EACH RIB	
LITE*PANL TO METAL PANEL END CONNECTIONS	THREE FASTENERS ARE USED BETWEEN EACH RIB, SPACED 3-1/2" APART AND 2-1/2" FROM THE CENTERLINE OF EACH RIB	
METAL PANEL - ENDS	TWO FASTENERS ARE USED BETWEEN EACH RIB, SPACED 7" APART AND 2-1/2" FROM THE CENTERLINE OF EACH RIB	

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