

**EVALUATION REPORT OF
CENTRIA TOTALCLAD XRIB PANELS**

**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 21859.4-R4
STRUCTURAL COMPONENTS
STRUCTURAL WALL**

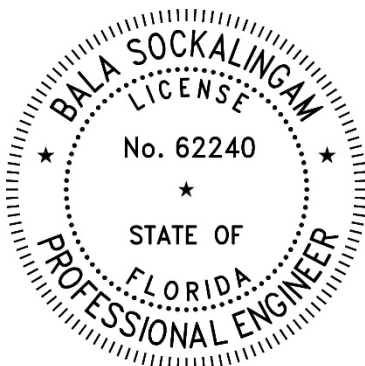
**Prepared For:
CENTRIA**

**A Nucor Company
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**Prepared By:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2756-5
Date: 1.23.2024**



This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

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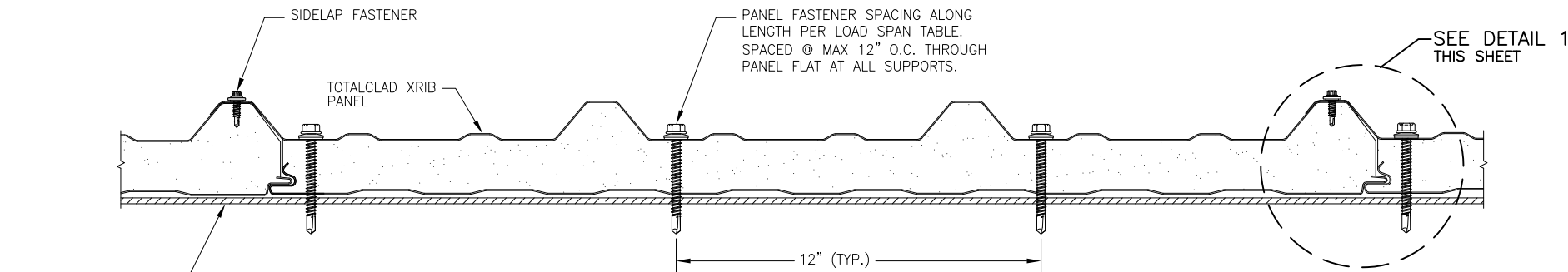
Manufacturer:	CENTRIA, a Nucor Company
Product Name:	TotalClad XRib Panel
Panel Description:	TotalClad XRib Panels are factory-assembled, metal faced, sandwich panels with a chemically bonded continuously foamed-in-placed foam plastic core. Maximum 36" coverage. Panel thickness: 1.5", 2", 2.5", 3" & 4".
Panel Core:	Polyurethane foam plastic designated as FE-242HD or FE-242FA. Nominal core density is 2.17 pcf with flame spread index of 20 and smoke-developed index of 450 when tested in accordance with ASTM E84-11.
Exterior skin:	Min. 26 ga., 33 ksi galvanized coated steel (ASTM A653), galvalume AZ50 or AZ55 coated steel (ASTM A792) or stainless steel (ASTM A240) with 1.25" high rib profiles with embossed, smooth or coated finish. as per FBC 2023 Section 1405.2. Minimum base metal thickness is 0.017".
Interior skin:	Min. 26 ga., 33 ksi galvanized coated steel (ASTM A653), galvalume AZ50 or AZ55 coated steel (ASTM A792) or stainless steel (ASTM A240) with 'Micro Planked' profiles with embossed or smooth finish. as per FBC 2023 Section 1405.2. Minimum base metal thickness is 0.017".
Support Description:	Min. 16 ga., 50 ksi steel section (Must be designed by others)
Design Pressure:	Inward and outward transverse loads are shown in the load span table. The allowable loads for panel strength, connection and deflection limit of L/180 were developed from test data. Maximum panel span is 90".
Panel Attachment:	Panels fastened to min. 16 ga. steel supports with ¼"-14 Type 3 hex head self- drilling screws with nominal 5/8" diameter neoprene bonded washers spaced at 12" o.c. through panel flat. Fastener shall be of sufficient length to penetrate through the support a minimum of 3/4". For 12 ga. or thicker steel, ¼"-20 or ¼"-28 Type 5 self-drilling screws with nominal 5/8" diameter neoprene bonded washers may be used. In lieu of self-drilling screws, self-tapping screws may be used. All fasteners are corrosion resistant.
Sidelap Attachment:	¼"-14 x 7/8" long Type 1 hex head self-drilling screws at max 24" o.c.
Test Standards:	Wall assembly tested in accordance with ASTM E1592-05 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference'.

- Test Equivalency: The test procedures in ASTM E84-11 comply with test procedures prescribed in ASTM E84-18b.
The test procedures in ASTM E1592-05 comply with test procedures prescribed in ASTM E1592-05(2017).
- Code Compliance: The product described herein has demonstrated compliance with FBC 2023 Section 1404.5 and 2603.3.
- Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2023 Section 1609 or ASCE 7-22 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or CENTRIA load span table. This evaluation report is not applicable in High Velocity Hurricane Zone.
- Supporting Documents: ASTM E1592 Test Reports
ENCON Technology Inc.
C1900-1, Reporting Date 5/6/2013
C1900-2, Reporting Date 5/7/2013

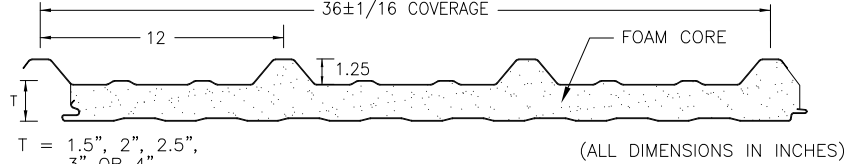
ASTM E84 Test Report
Underwriters Laboratories, Inc., Northbrook, IL
11NK15951, Reporting Date 3/19/2012

(CENTRIA is authorized to use the above Metl-Span Test Reports)

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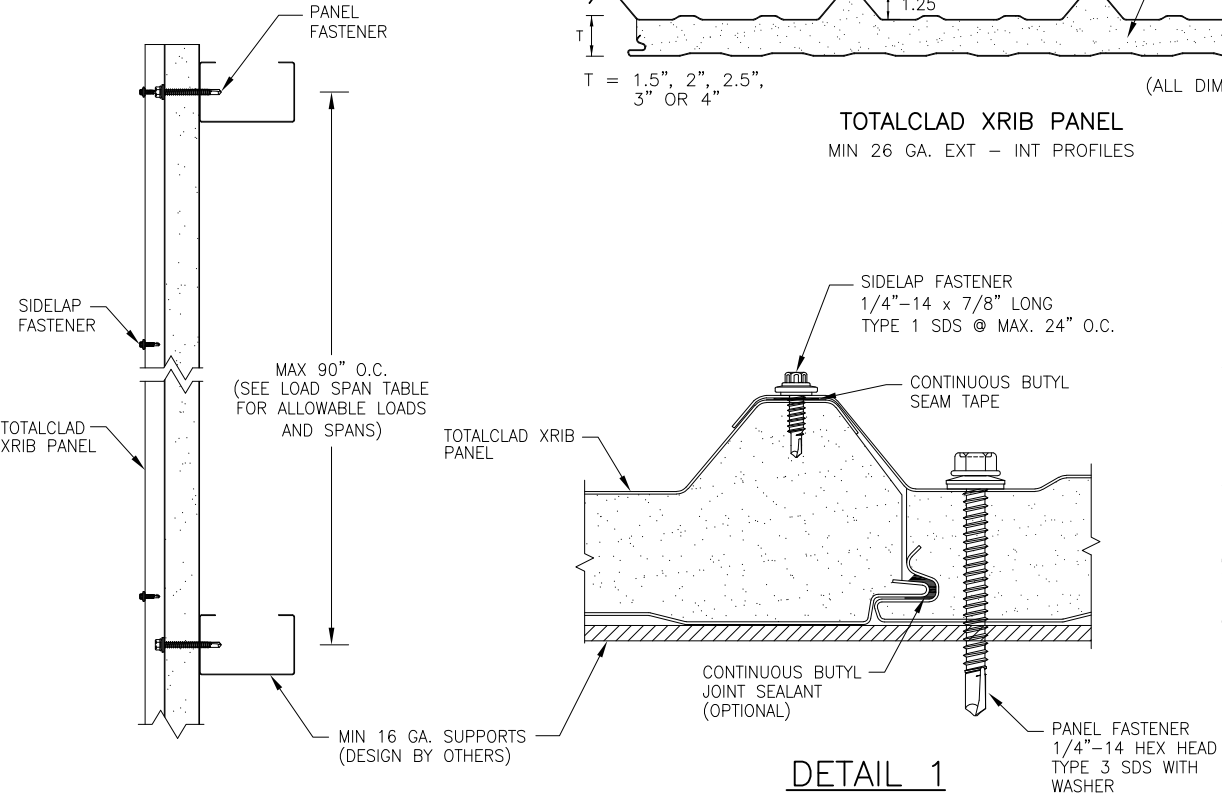
TYPICAL PANEL INSTALLATION X-SECTION



TOTALCLAD XRIB PANEL
MIN 26 GA. EXT - INT PROFILES

GENERAL NOTES:

1. THIS STRUCTURAL WALL PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH 2023 FLORIDA BUILDING CODE (FBC). THE DESIGN PRESSURES AS DETERMINED FROM SECTION 1609 AND ASCE 7-22 MUST BE MULTIPLIED BY 0.6.
2. PANELS ARE MAX 36\"
3. PANELS SHALL BE INSTALLED OVER WALL STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. PANELS MUST BE INSTALLED OVER MIN. 2 SUPPORTS. HORIZONTAL SEAMS MAY BE PRESENT AT CENTERLINE OF SUPPORTS PROVIDING THE SEAMS ARE FLASHED & PROPERLY SEALED PER MBCI SPECIFICATIONS AND EACH PANEL END IS SECURED PER THIS DRAWING.
5. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON LOAD SPAN TABLE.
6. ALL SCREWS SHALL BE CORROSION RESISTANT SCREWS.
7. THE SUPPORTING STRUCTURE, OVER WHICH THE PANELS ARE TO BE INSTALLED, MUST BE MINIMUM 16 GAGE (MIN. 0.059\") STEEL WITH MIN. $F_y = 50$ KSI.
8. THESE WALL PANELS SHALL NOT BE CONSIDERED TO OR BE USED FOR TRANSFER OF DIAPHRAGM ACTION OF WALL TO SUPPORTING STRUCTURE.



SECTION VIEW

DETAIL 1

CENTRIA
TotalClad XRib Panel
Allowable Inward & Outward Loads

Panel Description	Support Spacing (in)	Allowable Inward Load (psf)	Allowable Outward Load (psf)
TotalClad XRib Panel Min. 26 ga. Exterior & Interior Skins Panel Core Thickness: 1.5", 2", 2.5", 3" & 4"	30	126.0	122.5
	36	105.0	113.1
	42	90.0	97.0
	48	78.8	84.8
	54	70.0	75.4
	60	63.0	67.9
	66	57.3	61.7
	72	52.5	56.6
	78	48.5	52.2
	84	45.0	48.5
	90	42.0	45.3

Notes:

1. Allowable load is the lowest value of panel strength, connection strength & deflection limit of L/180.
2. Allowable load is applicable to two or more span conditions.
3. The bold numbers indicate design loads obtained from test reports.
4. Panels must be installed as per Evaluation Report FL 21859.4 and CENTRIA current installation procedure.
5. The structural capacity of support beam are not considered and must be examined independently. by others.
6. Minimum bearing width of support is 2.25".