

**EVALUATION REPORT OF
KIRBY BUILDING SYSTEMS
'SS360 PANEL'**

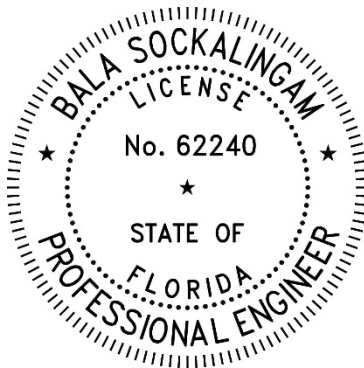
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 4838.3-R6
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
Kirby Building Systems
124 Kirby Drive
Portland, TN 37148
Telephone: (615) 745-6007**

**Prepared By:
Bala Sockalingam, Ph.D., P.E.
Florida Professional Engineer #62240
1216 N Lansing Ave., Suite C
Tulsa, OK 74106
Telephone: (918) 492-5992**

**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2729-6
Date: 9.22.2023**



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

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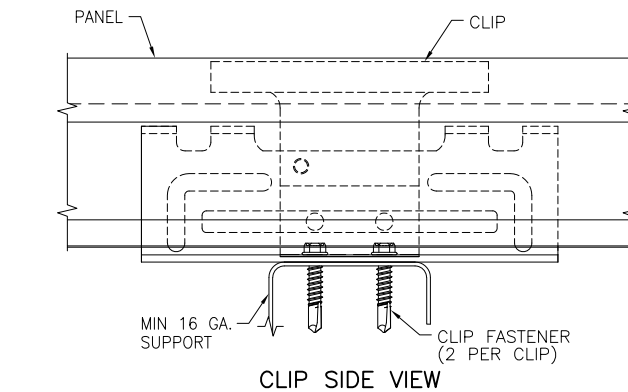
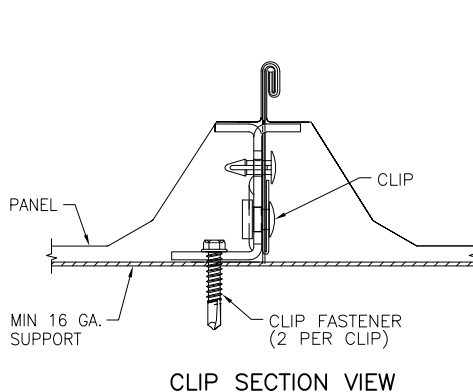
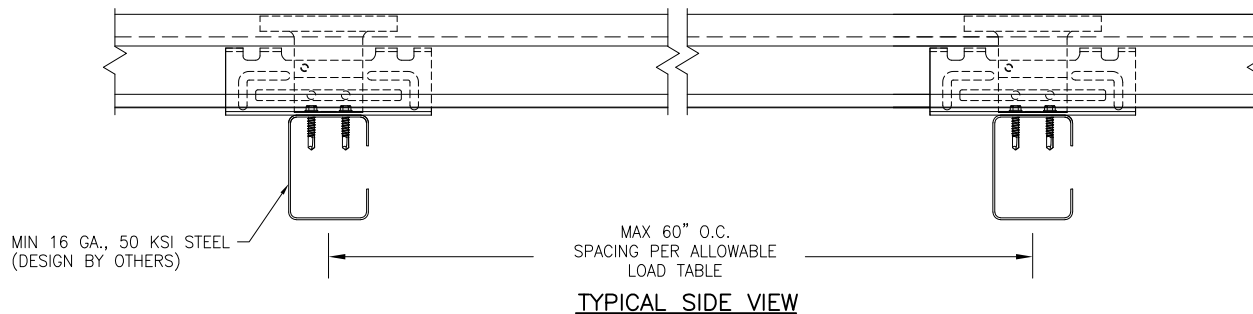
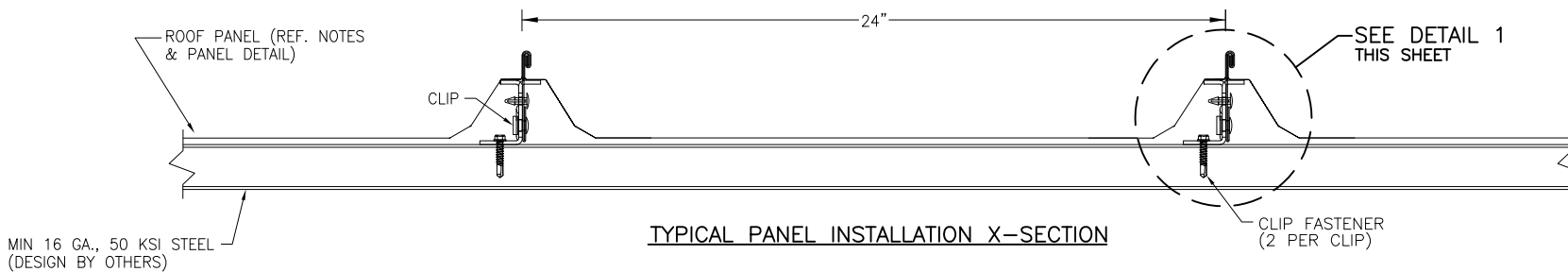
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Manufacturer:	Kirby Building Systems
Manufacturing Locations:	124 Kirby Drive, Portland, TN 37148 200 Whetstone Road, Swansea, SC 29160 600 Apache Trail, Terrell, TX 75160
Product Name:	SS360 (Standing Seam 360) Panel
Panel Description:	Standing seam panel with 24" wide coverage and 3" high ribs. Mechanical seaming operation required for SS360.
Materials:	Min 24 ga. with galvalume coated steel (ASTM A792) ($F_y = 50$ ksi). Corrosion resistant as per FBC 2023 Section 1507.4.3.
Support Description:	Min. 16 ga., 50 ksi steel section (Must be designed by others)
Slope:	1/4:12 or greater in accordance with FBC 2023 Section 1507.4.2
Design Uplift Pressure: (Factor of Safety = 2)	40.2 psf at clip spacing of 60" o.c. 66.8 psf at clip spacing of 24" o.c.
Panel Attachment:	S3PC-1, S3PC-2T or S3PC-5T sliding clips Fastened to min. 16 ga. supports with (2) ¼"-14 x 1.25" long self-drilling screws. Clips and fasteners are corrosion resistant as per FBC 2023 Section 1506.7 and 1507.4.4, respectively.
Test Standards:	Roof assembly tested in accordance with TAS 125-03 'Standard Requirements for Metal Roofing Systems' and FM 4471 Section 5.4 'Resistance to Foot Traffic'.
Code Compliance:	The product described herein has demonstrated compliance with FBC 2023 Section 1507.4.
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 clip spacing listed herein shall not be exceeded. The design uplift pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Kirby's load span table. This product is not approved for use in the High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2023 Section 1505 and current approved roofing materials directory for fire ratings of this product.

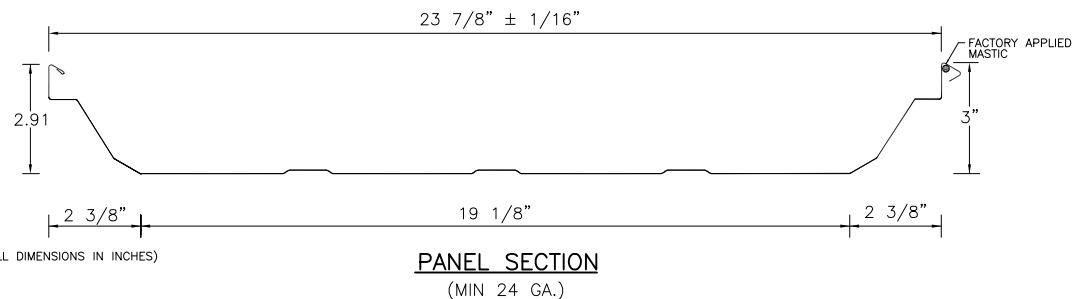
Supporting Documents: TAS 125-03 Test Report
Farabaugh Engineering and Testing Inc.
Project No. T192-21, Reporting Date 6/29/2021

FM 4471 Test Report
FM Approvals
Project ID 3000525, Reporting Date 9/2/1999

(Kirby Building Systems is authorized to use Nucor Building Group's
Test Reports)



DETAIL 1



GENERAL NOTES:

1. STRUCTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 24 GA. (t = 0.022"). MAX. EFFECTIVE COVERING WIDTH OF PANEL = 24".
3. THE ROOF PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. 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 THIS DRAWING.
5. CLIPS AND FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. PURLINS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.	CHECKED BY: J.S.
PLOT:	DATE: 9/18/2023
NO.	DATE
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE SS360 PANEL	MANUFACTURER KIRBY BUILDING SYSTEMS 124 KIRBY DRIVE PORTLAND, TN 37148 615-745-6007
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 1216 N LANSING AVE, SUITE C TULSA, OK 74106 PHONE: 918-492-5992 FAX: 966-366-1543	
DRAWING NO. 2729-6	REV.
PAGE NO. 1	OF 1

Kirby Building Systems
SS360 Panel
Allowable Uplift Loads

Description	Clip Spacing (in)	Allowable Uplift Load (psf)
SS360 Panel Min. 24 ga., 24" wide Clip S3PC-1, S3PC-2T or S3PC-5T sliding clips Clip Fasteners (2) 1/4"-14 SDS Support Min 16 ga.	24	66.8
	27	64.6
	30	62.4
	33	60.1
	36	57.9
	39	55.7
	42	53.5
	45	51.3
	48	49.0
	51	46.8
	54	44.6
	57	42.3
	60	40.2

Notes:

1. The bold numbers indicate design loads calculated from test data with safety factor of 2.
2. Panels must be installed as per Evaluation Report FL 4838.3 and Kirby's current installation procedure.
3. Three or more spans condition.