EVALUATION REPORT OF UNION CORRUGATING COMPANY '24 GA. SL175 PANEL'

FLORIDA BUILDING CODE 7TH EDITION (2020) FLORIDA PRODUCT APPROVAL FL 20484.9-R2 ROOFING METAL ROOFING

Prepared For: Union Corrugating Company 701 S. King St. Fayetteville, NC 28301 Telephone: (910) 483-0479 Fax: (910) 483-1091

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
FAX: (866) 366-1543

This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Tables (2 Pages)

Report No. C2401-9 Date: 10.10.2020



Manufacturer: Union Corrugating Company

Product Name: SL175

Panel Description: Standing seam panel with max. 18" wide coverage and 1.75" high ribs

Materials: Minimum 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653)

or Galvalume coated steel (ASTM A792) or painted steel (ASTM

A755). Corrosion resistant as per FBC 2020 Section 1507.4.3.

Deck Description: Min. 15/32" thick APA rated plywood or min. 3/4" thick wood plank

(min SG of 0.42) for new and existing constructions. Designed by

others and installed as per FBC 2020.

Underlayment: Minimum underlayment as per FBC 2020 Section 1507.4.5.1

Slope: 1/4:12 or greater in accordance with FBC 2020 Section 1507.4.2

Design Uplift Pressure: 39.8 psf at clip spacing of 36" o.c. with felt underlayment

78.6 psf at clip spacing of 8" o.c. with felt underlayment

93.5 psf at clip spacing of 12" o.c. with self-adhering underlayment

Panel Attachment: 18 ga. SL175 UL Clip with (2) #10-12 x 1" long pancake head wood

screws per clip through underlayment into deck. Clips and fasteners are corrosion resistant as per FBC 2020 Section 1506.7 and 1507.4.4, respectively. Fastener shall be of sufficient length to penetrate through

the deck a minimum of 1/4".

Test Standards: Roof assembly tested in accordance with UL580-06 'Uplift Resistance

of Roof Assemblies' & UL1897-04 'Uplift Tests for Roof Covering

Systems'.

Test Equivalency: The test procedures in UL 1897-04 comply with test procedures

prescribed in UL 1897-12.

Code Compliance: The product described herein has demonstrated compliance with FBC

2020 Section 1507.4.

Product Limitations: Design wind loads shall be determined for each project in accordance

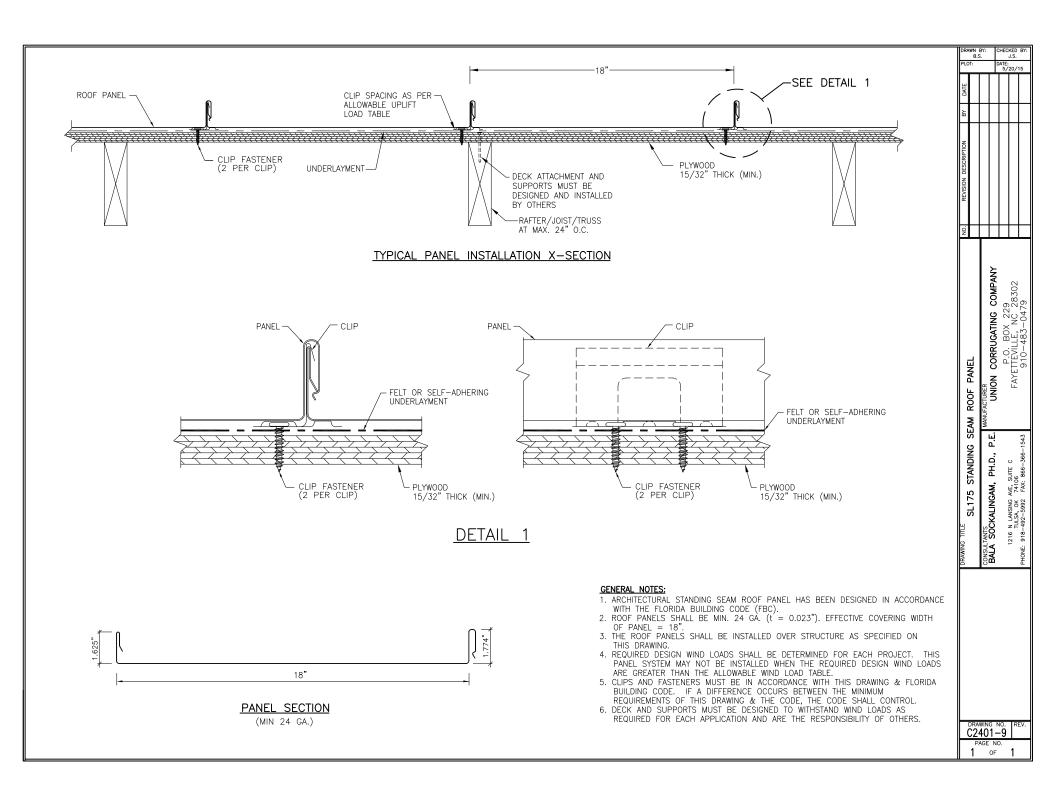
with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. Maximum clip spacing listed herein shall not be exceeded. The design pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Union load span tables. This product is not approved for use in the High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2020 Section 1505 and

FL 20484.9-R2 C2401-9 10.10.2020 Page 3 of 3

current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: UL580/UL1897 Test Report

Farabaugh Engineering and Testing Inc. Project No. T199-16, Reporting Date 5/16/16



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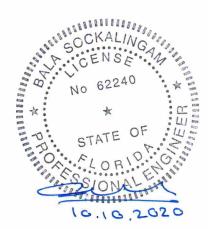
SL175 Panel Uplift Loads (Min 24 ga.)

With Felt Underlayment

Description	Clip Spacing	Allowable Uplift
	Along Panel Length	Load
	(in)	(psf)
Maximum Coverage Width:	8	78.6
18"	10	75.8
	12	73.1
18 ga. SL175 UL Clip	14	70.3
	16	67.5
	18	64.7
Clip Fasteners:	20	62.0
#10-12 x 1" long pancake head screws	22	59.2
	24	56.4
	26	53.7
	28	50.9
	30	47.8
	32	44.8
	34	42.1
	36	39.8

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 20484.9 and Union current installation procedure.



UNION CORRUGATING COMPANY

SL175 Panel Uplift Loads (Min 24 ga.)

With Self-Adhering Underlayment

Description	Clip Spacing	Allowable Uplift
	Along Panel Length	Load
	(in)	(psf)
Maximum Coverage Width:	12	93.5
18"	14	89.0
	16	84.6
18 ga. SL175 UL Clip	18	79.6
	20	71.6
	22	65.1
Clip Fasteners:	24	59.7
#10-12 x 1" long pancake	26	55.1
head screws	28	51.2
	30	47.8
	32	44.8
	34	42.1
	36	39.8

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 20484.9 and Union current installation procedure.

