



Farabaugh Engineering and Testing Inc.

Project No. T213-21

Report Date: July 13, 2021

No. Pages: 6 (inclusive)

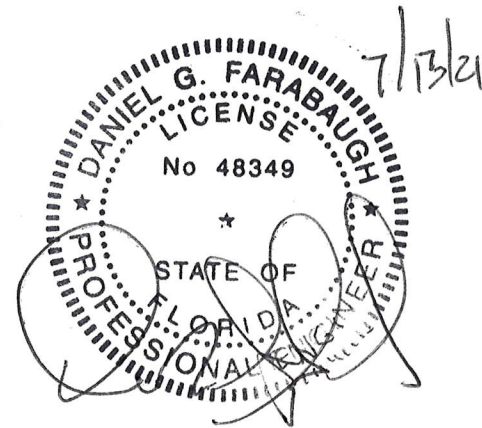
FOOT TRAFFICE RESISTANCE TEST

ELITE RIB PANEL
36" WIDE COVERAGE X 29 GA.
(3 SPAN @ 5'-0" O.C.)

FOR

ELITE METAL MANUFACTURING, LLC.
10121 88TH TRACE
LIVE OAK, FL. 32064

DANIEL G. FARABAUGH, P.E.
255 Saunders Station Rd
Trafford, PA 15085
412-373-9238



Prepared by:

Paul G. Farabaugh

Approved by:

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Project No. T213-21

Purpose

The referenced test methods were used to evaluate the panel specimens under concentrated load as provided herein.

Test Date

7-6-21

Test Specimen

Manufacturer: Elite Metal Manufacturing LLC.
10121 88th Trace
Live Oak, FL. 32064

Test Specimen: Elite Rib Metal Panel 36" wide coverage x 29 ga.

Test Reference

FM 4470 (2016) Section 4.6 "Resistance to Foot Traffic Test"

Installation

The panel were installed onto 18 ga. supports using #12-14 X 1" long, hex head, self-drilling fasteners with sealing washers at supports. The panel joint was a overlap for the panel lap. See fastening pattern for location of fasteners at ends supports and interior supports. See attached drawings for assembly details.

Test Equipment

The load device used a hydraulic ram with a calibrated load cell. The bearing surface plate was a 3" X 3" steel plate with rounded corners.

Test Procedure

The test specimen was subjected to a series of 200 lb loads using a 3 in square steel plate base with rounded corners. The 200 lb load was placed on the test specimen at the designated locations, lifted off the specimen, and reloaded additionally for a total of 5 cycles.

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CONCENTRATED LOAD TEST DATA

Specimen: Elite Rib Metal Panel 36" wide coverage x 29 ga.

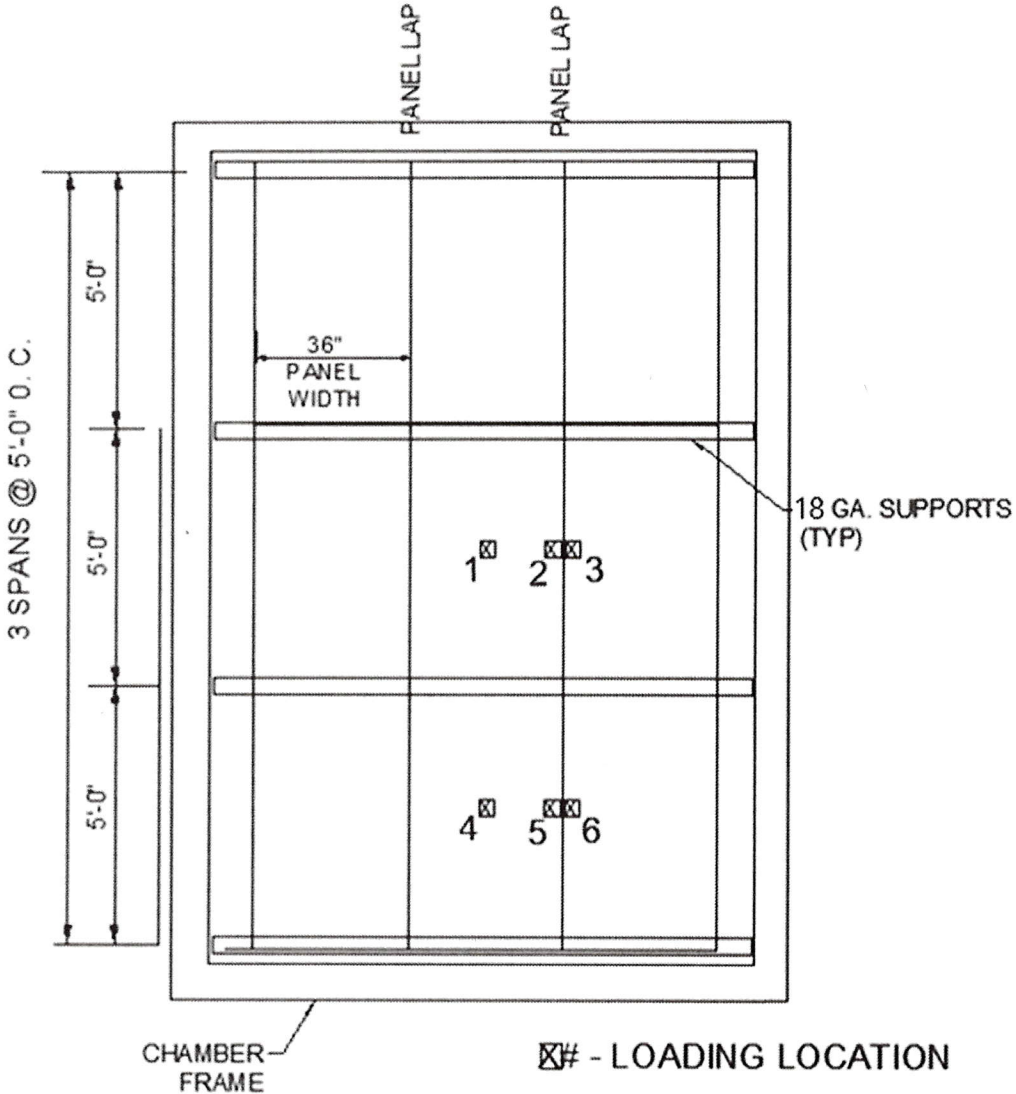
Span Condition: Spans @ 5'

Load Bearing Plate: 3" X 3"

Load Point	Load Location (Reference Plan View)	Test Load	# of Load Cycles
L1	Center of Panel Flat at Mid-Span	200 lb	5
L2	Panel Flat Adjacent to Rib at Mid-Span	200 lb	5
L3	Panel Flat Adjacent to Rib at Mid-Span	200 lb	5
L4	Center of Panel Flat at End-Span	200 lb	5
L5	Panel Flat Adjacent to Rib at End-Span	200 lb	5
L6	Panel Flat Adjacent to Rib at End-Span	200 lb	5

Results

As a result of the loads imposed on the panel specimens, the panels showed no punctures, no visual buckling of the ribs and no visible seam separation after any of the load applications.

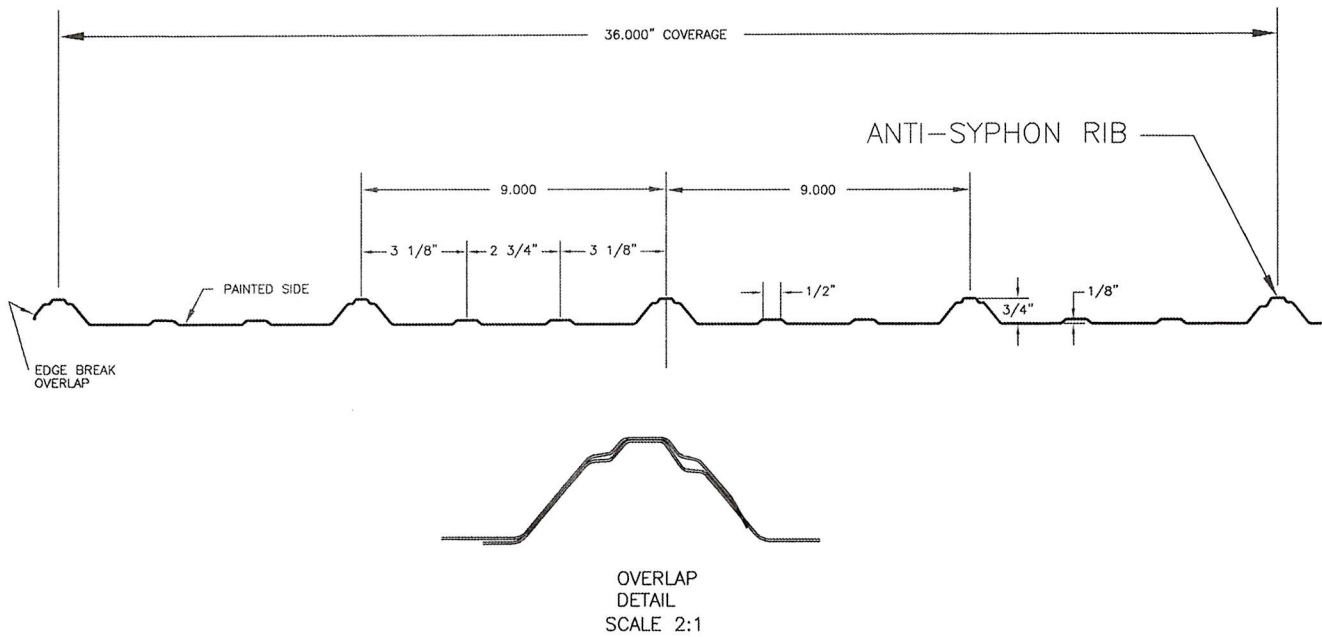


NOTE-200# APPLIED ON 3\"
SQUARE BLOCK @ LOADING
LOCATIONS

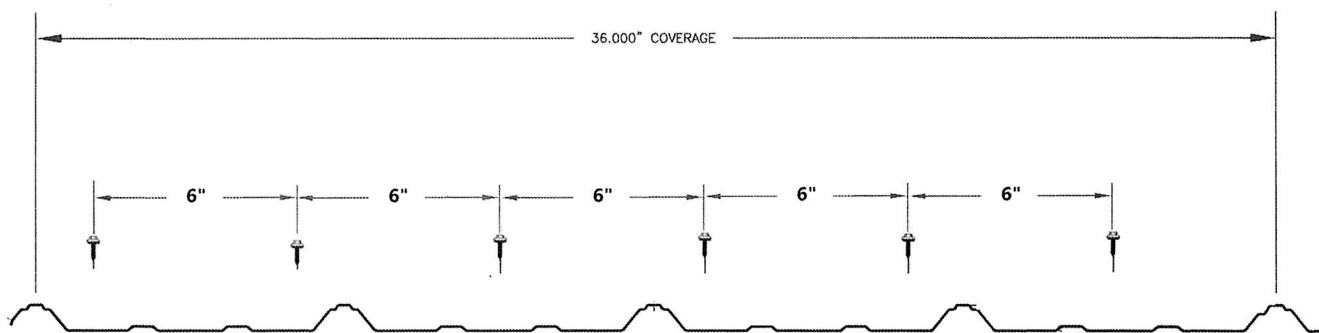
PLAN VIEW

ELITE RIB PANEL

STRIP WIDTH = 40.875



ELITE RIB PANEL



6-6-6-6-6 PATTERN AT ALL SUPPORTS

Spectrochemical Laboratories-Material Evaluation, Inc.

155 Prominence Drive, New Kensington, PA. 15068

Phone: (724) 334-4140 Fax: (724) 334-4143

Date: 29-Jun-21

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Report of Tensile Testing

Client: Farabaugh Engineering & Testing (Ref PO #: Verbal - P. Farabaugh)

PIN #	Dimensions (in.) Width x Thickness	Area (sq. - in.)	Yield Point (lb.)	Tensile Strength (lb.)	Yield Strength (psi.)	Tensile Strength (psi.)	Elongation (% in 2 in.)	Fracture Location
ELITE RIB PANEL	0.5009 x 0.0124	0.0062	672	707	108100	113800	0.5	U/4 (Out of GL)

Test Method: Q2300.04 rev. 14 (ASTM A370-20, E8-21, or E646-16 : Yld. by 0.2% offset, Elong. after fracture)

Equipment Used: Instron 5900R60HVL (s/n: 1602) w/ Extensometer (s/n: E93054)

Performed By: T. Ault

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Please send your comments and concerns to us at feedback@spectrochemicalinc.com

For more information call: 724-334-4140

Respectfully submitted,



Todd A. Ault

Laboratory Manager