Farabaugh Engineering and Testing LLC

Project No. T101-26

Report Date: January 13, 2026

No. Pages: 10 (inclusive)

PERFORMANCE TEST REPORT

ANSI/SPRI/FM 4435/ES-1
TEST RE-3
PULLOFF TEST FOR COPINGS

ON

TALONLOCK SPRING PRO
16" WIDE X 24 GA STEEL

FOR

METALWYZE
106 PIERCES ROAD
NEWBURGH, NY 12550

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Approved by:

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ISO 17025

MIAMI-DADE COUNTY DADE COUNTY ACCREDITED LABORATORY

AAMA ACCREDITED LABORATORY

TDI TEXAS ACCREDITED LABORATORY

Community Affairs FLORIDA ACCREDITED LABORATORY & QC ENTITY

Objective:

The purpose of the testing was to determine the performance of the test specimens under the conditions set forth in the referenced standards and as provided herein.

Customer:

MetalWyze
106 Pierces Rd.
Newburgh, NY 12550

Test Specimen:

Coping Cover – 16.3" wide X 24 ga Steel Cover (0.025" measured thickness)

Coping Cleats – 12" long X 20ga Steel Anchor Cleats (0.037 " measured thickness)
With 8" long X 26 ga Stainless Steel Spring (0.019" measured thickness)

Test Assembly:

The mock- up consisted of a 24 ga Steel Cover attached to 20 ga Steel Anchor Cleats spaced at 40" o.c. that were attached to No. 2 Douglas Fir wood blocking as shown on the attached drawings.

Test Procedure:

The test procedure was per "ANSI/SPRI/FM 4435/ES-1 2022 Test RE-3 Test for Copings" and as provided herein. Controlled loading devices provided face and top loadings simultaneously. Loading was applied uniformly on 12" centers to the top of the coping and to the front face at the same time. The load was applied on parallel horizontal centerlines of the surface tested in an upward (top of coping) and outward (front face of coping). Between incremental loads, the loading was reduced to zero until the specimen stabilized or a recovery period of not more than 5 minutes. The procedure was repeated for the top of coping and back face on a separate test sample.

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TEST DATA

Test Date: 1/12/26

Test Specimen – 24 ga Steel Coping Cover with 20 ga Steel Anchor Cleats at 40” o.c.

Coping Length: 10 ft

Test “A” Top / Front Leg Test

Top Pressure (Vertical / Uplift) (PSF)	Front Leg Pressure (Horizontal / Lateral) (PSF)	Comments
25	14.5	PASS
50	28.9	PASS
60	34.7	PASS
70	40.5	PASS
80	46.2	PASS
90	52.0	PASS
100	57.8	PASS
110	63.6	PASS

Comments:

Maximum Test Load (held for 1 min with no failure) = 110 psf (vertical) / 63.6 psf (horizontal)

In attempt to reach the next loading increment, the front leg pulled off of the cleat.

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Test Date: 1/13/26

Test Specimen – 24 ga Steel Coping Cover with 20 ga Steel Anchor Cleats at 40” o.c.

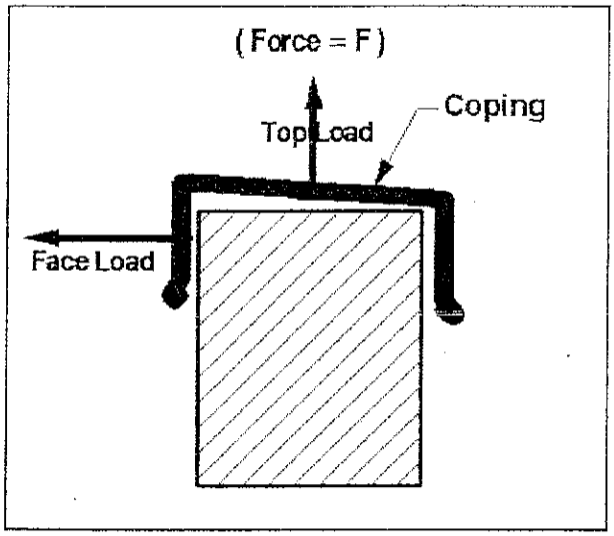
Coping Length: 10 ft

Test “B” Top / Back Leg Test

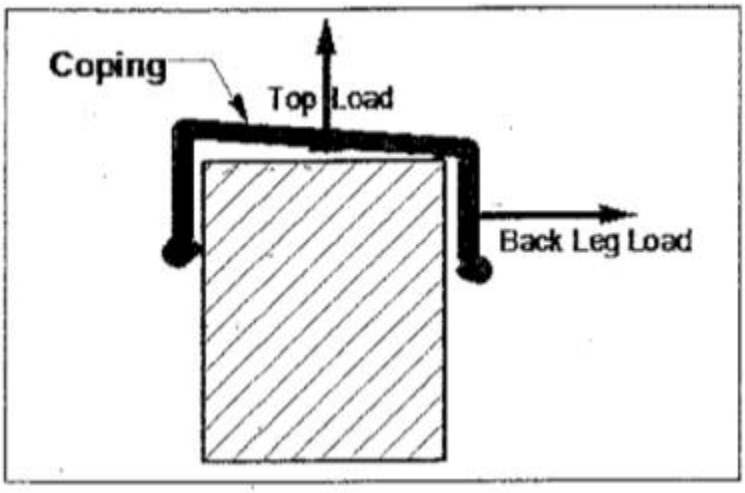
Top Pressure (Vertical / Uplift) (PSF)	Back Leg Pressure (Horizontal / Lateral) (PSF)	Comments
25	14.5	PASS
50	28.9	PASS
60	34.7	PASS
70	40.5	PASS
80	46.2	PASS
90	52.0	PASS
100	57.8	PASS
110	63.6	PASS
120	69.4	PASS

Comments:
Maximum Test Load (held for 1 min with no failure) = 120 psf (vertical) / 69.4 psf (horizontal)
In attempt to reach the next loading increment, the back leg pulled off of the cleat.

Results:
As a result of both tests “A” and “B”
Test Load (held for 1 min with no failure) = 110 psf (vertical) / 63.6 psf (horizontal)


(Force = F)
Top Load
Coping
Face Load

TEST “A”


Coping
Top Load
Back Leg Load

TEST “B”

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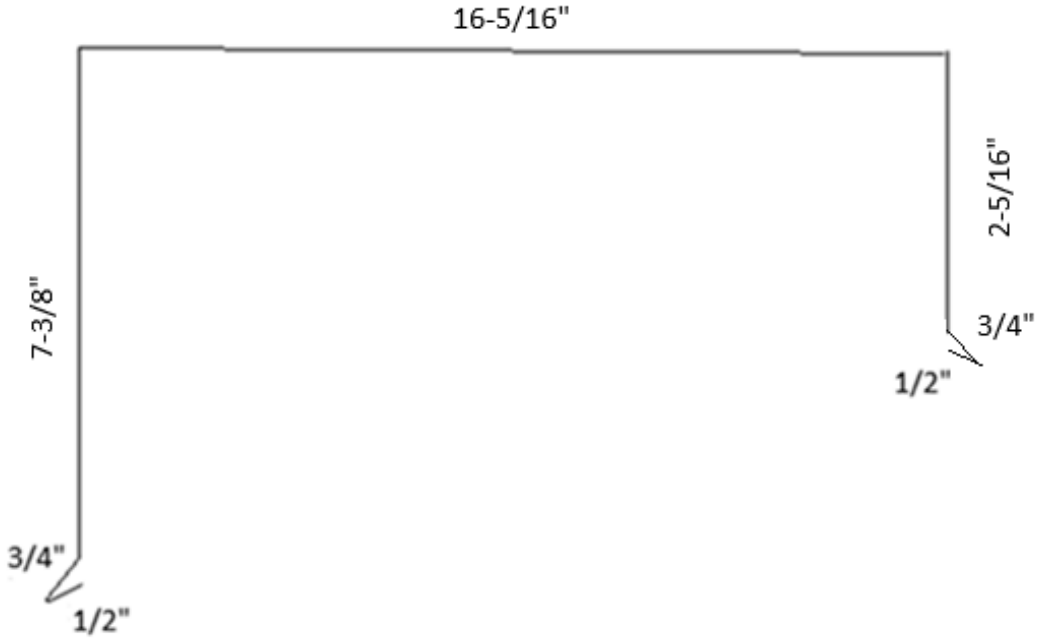
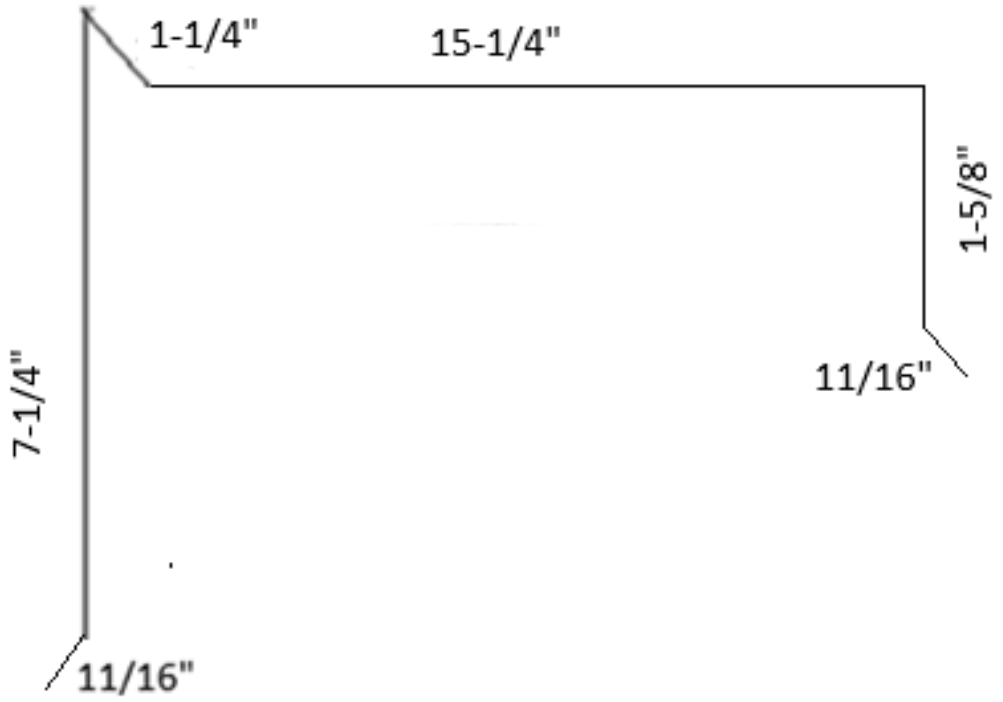
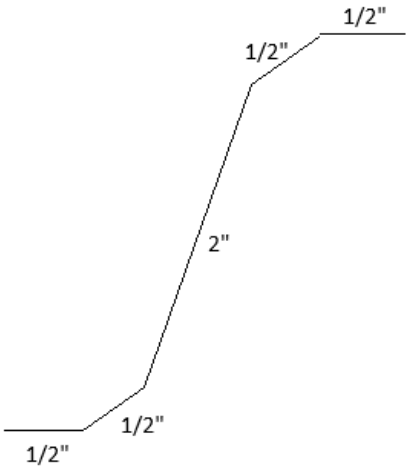


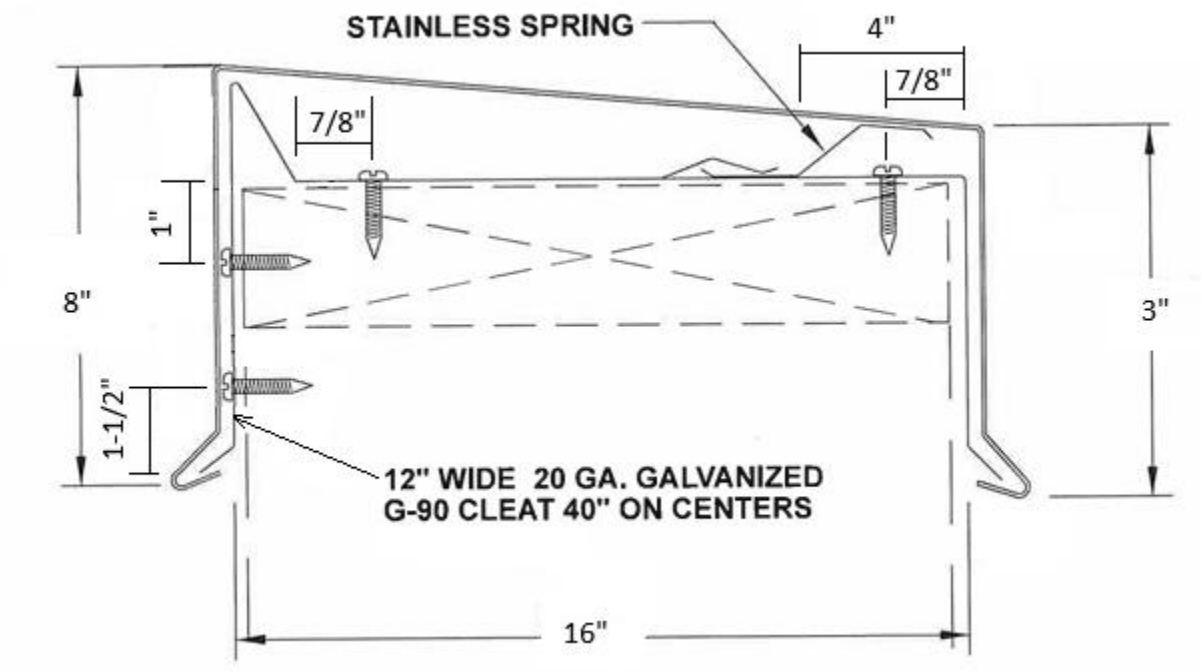
COPING COVER



ANCHOR CLEAT

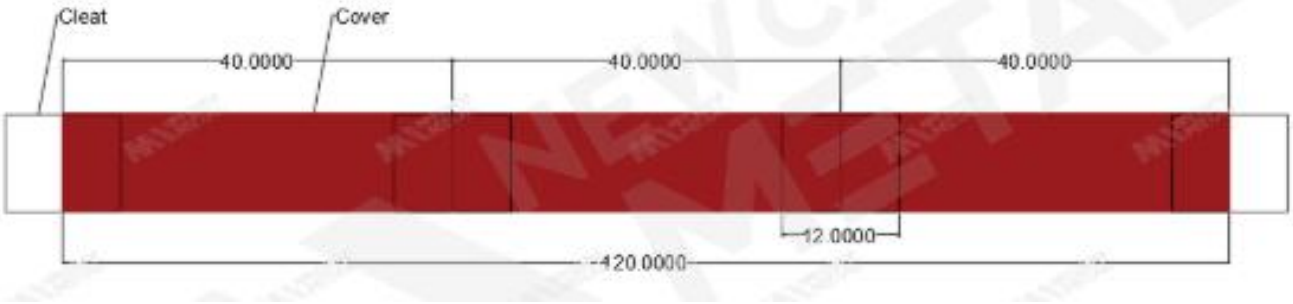


STAINLESS STEEL SPRING



ASSEMBLY DETAIL

Notes: - Anchor Cleats were attached to No.2 Douglas Fir Wood Blocking
With #10-13 X 1-1/2” GP SS Pancake Head Fasteners (4 per top and 4 per front).



ANCHOR CLEAT LAYOUT

COPING COVER

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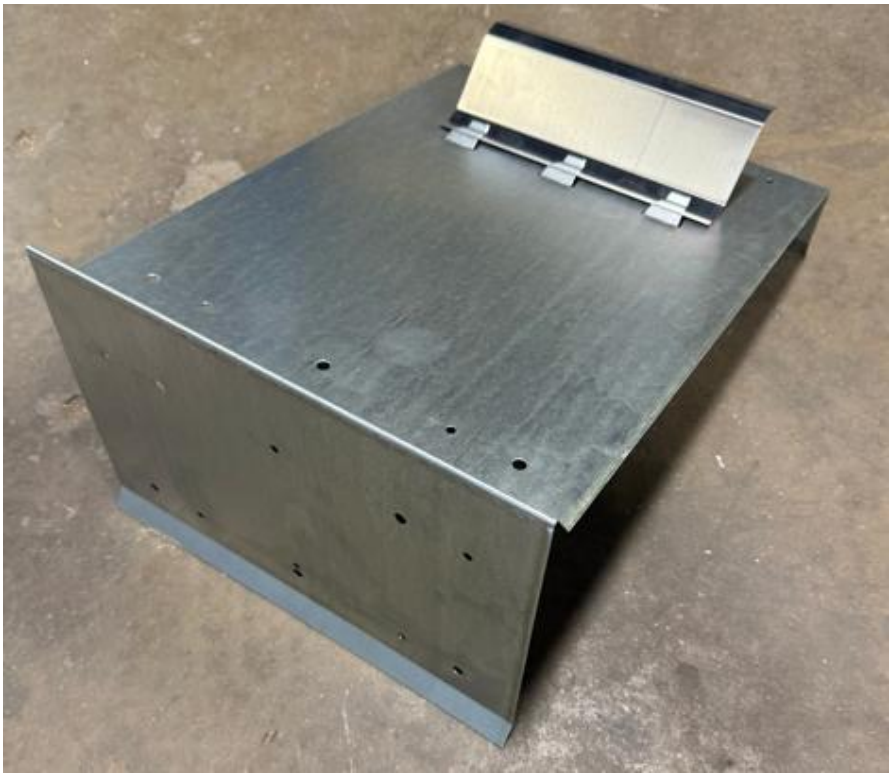
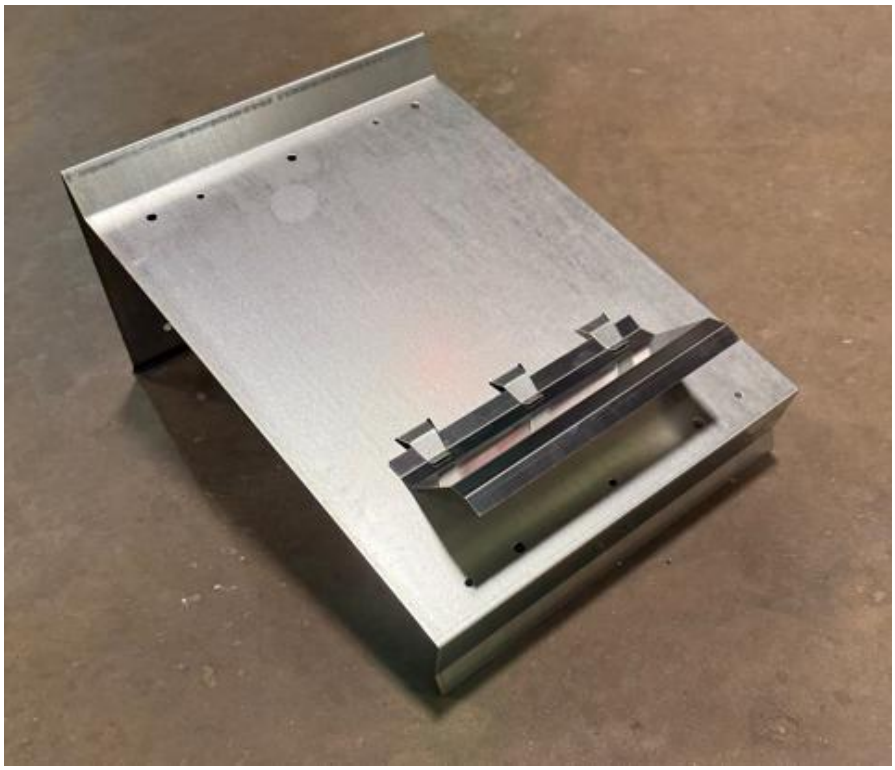
CLEAT ANCHOR





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Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	1/13/26	N/A	Original report issue.