



Farabaugh Engineering and Testing LLC.

Project No. T362-25

Report Date: December 12, 2025

No. Pages: 32 (inclusive)

PERFORMANCE TEST REPORT TAS 201, 202 & 203

**FL PANEL SYSTEM
48"/96 3/4" WIDE X 48" HIGH X 0.063 ALUMINUM W/ 1/8" CLEAT
(TESTED WEEK OF 10/27/25 -ROUND 5 – SPECIMEN #19)**

FOR

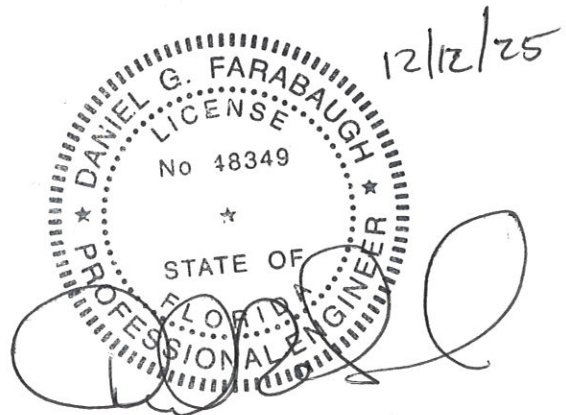
DRI-DESIGN
12480 SUPERIOR CT. SUITE #1
HOLLAND, MI. 49424

Prepared by:

Paul G. Farabaugh

Approved by:

Daniel G. Farabaugh, PE



DANIEL G. FARABAUGH, P.E.
255 Saunders Station Rd
Trafford, PA 15085
412-417-5153



PERFORMANCE TEST REPORT

Test Specimen

Manufacturer: Dri-Design
12480 Superior Court
Holland, MI 49424

Panel: FL Metal Panel, Panel perimeter length was 48" or 96 ¾" wide x 48" high. See installation drawings for panel coverage dimension. Panels consisted of 0.063" aluminum skin bonded with 0.063" aluminum "U" stiffeners spaced 16" o.c. using 3M G16 VHB tape and one 0.125" cleat per panel. See panel drawing for fabrication of each panel. Note: All stiffeners and perimeter supports were shop applied. See panel layout for location of panels and location of stiffeners on each panel.

Substrate 5/8" Dens Glass

Supports: C8 x 16 ga. steel channel supports

Test Date Completion: 10/31/2025

Design Pressure

SPECIMEN A, B, C = +90 PSF / -90 PSF

Test Witness:

Daniel G. Farabaugh, PE (Florida PE. #0048349)
255 Saunders Station Road
Trafford, PA. 15085

Test Assembly

- The test specimen mock-up consisted of metal panel system that measured as 12'-1"4" wide x 8'-4" high (approximately). The mock-up had two panels on the bottom with three horizontal panels on top. See Drawing 1 of 16 for layout of panels and panel dimensions. The mock-up support framing consisted of 16 ga. steel horizontal studs spaced at 16" o.c. that attached to a 16 ga. track at the ends of the studs.
- On top of the stud supports was a layer of 5/8" thick DensGlass that was attached to the metal studs with #6 x 1-1/4" long, #2 self drill pt. drywall screws with a spacing of 8" o.c. along each horizontal stud support. 16 ga. steel hat girts located at 16" o.c. were attached vertically to the top of the DensGlass and into the horizontal stud supports that were perpendicular to the girts using (2) 1/4-14 x 1-1/2" long, hex head, self-drilling fasteners.
- Before attaching the panels to the supports a 0.125" thick aluminum cleat was attached horizontally near the middle location of each panel using (2) 1/4-14 x 1-1/2" long, hex head, self-drilling fasteners at each vertical supports. The panels were then attached into 16ga. vertical steel girt supports that were located at 16" o.c. A single extruded aluminum start track was attached to the studs with (2) 1/4-14 x 1-1/2" long, hex head, self-drilling fasteners at each support. The bottom panels slid under the starter track leg. The back middle of the panel at the notched stiffener location slid into the horizontal cleat and the of the panel was then fastened to the steel girt supports with (2) 1/4-14 x 1-1/2" long, hex head, self-drilling fasteners at each girt support.. The next column of panels slid under the first set of panels and into the cleat and the opposite end was fastened to the steel girts located at 16" o.c. using same fasteners. See installation drawings for fastener locations and panel installation.
- 4 mil Plastic Sheeting was placed over top face of panel for the positive direction testing and then the panel had the plastic covering between the DensGlass substrate and the exposed back of the panel and tested in the negative direction.

Test Procedure

The tests were conducted in accordance with the following test methods:

- Testing Application Standard (TAS) 201-94 (Large Missile Test)
- Testing Application Standard (TAS) 202-94 Criteria for Testing Impact and Non Impact Resistant Building Envelope Components Using Static Air Pressure.
- Testing Application Standard (TAS) 203-94 Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.

TAS 201-94 LARGE MISSILE IMPACT TEST

TEST SPECIMEN #: A

SPECIMEN: FL Metal Panel, 0.063" thick aluminum panel w/16" o.c. stiffener w/cleat.

MANUFACTURER: DRI DESIGN

WT OF MISSILE & SABOT: 9.1 LB

IMPACT #1

LOCATION: CENTER OF 4' PANELS ON HORIZONTAL JOINT

MISSILE VELOCITY: 51.72 FT/SEC

MAX DEFLECTION: 3/8"

PERMANENT DEFORMATION ON FRONT FACE: 11/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #2

LOCATION: CENTER OF 4' AND 8' PANEL ON VERTICAL JOINT.

MISSILE VELOCITY: 51.32 FT/SEC

MAX DEFLECTION: 3/8"

PERMANENT DEFORMATION ON FRONT FACE: 1-5/8"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #3

LOCATION: MIDSPAN/MIDDLE OF 8' PANEL

MISSILE VELOCITY: 50.86 FT/SEC

MAX DEFLECTION: 1/2"

PERMANENT DEFORMATION ON FRONT FACE: 5/8"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

NOTE: See Large Missile Impact drawing for actual locations of impacted areas.

TAS 201-94

LARGE MISSILE IMPACT TEST (cont.)

TEST SPECIMEN #: **B**

SPECIMEN: FL Metal Panel, 0.063" thick aluminum panel w/16" o.c. stiffener w/cleat.

MANUFACTURER: DRI DESIGN

WT OF MISSILE & SABOT: 9.1 LB

IMPACT #1

LOCATION: MIDSPAN/MIDDLE OF 4' PANEL

MISSILE VELOCITY: 50.10 FT/SEC

MAX DEFLECTION: 3/8"

PERMANENT DEFORMATION ON FRONT FACE: 5/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #2

LOCATION: CORNER OF 4' PANEL AT 6" FROM TOP TIEDOWN

MISSILE VELOCITY: 51.94 FT/SEC

MAX DEFLECTION: 3/8"

PERMANENT DEFORMATION ON FRONT FACE: 1-1/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #3

LOCATION: CENTER OF 4' AND 8' PANEL ON VERTICAL JOINT.

MISSILE VELOCITY: 51.61 FT/SEC

MAX DEFLECTION: 3/4"

PERMANENT DEFORMATION ON FRONT FACE: 1"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #4

LOCATION: MIDSPAN/MIDDLE OF 8' PANEL

MISSILE VELOCITY: 51.71 FT/SEC

MAX DEFLECTION: 1/4"

PERMANENT DEFORMATION ON FRONT FACE: 7/8"

RESULTS: SMALL TEAR OBSERVED - LESS THAN 5" WIDE AND WAS LESS THAN 1/16" DEEP

NOTE: See Large Missile Impact drawing for actual locations of impacted areas.

TAS 201-94 LARGE MISSILE IMPACT TEST (cont.)

TEST SPECIMEN #: C

SPECIMEN: FL Metal Panel, 0.063" thick aluminum panel w/16" o.c. stiffener w/cleat.

MANUFACTURER: DRI DESIGN

WT OF MISSILE & SABOT: 9.1 LB

IMPACT #1

LOCATION: MIDSPAN/MIDDLE OF 4' PANEL

MISSILE VELOCITY: 50.05 FT/SEC

MAX DEFLECTION: 7/8"

PERMANENT DEFORMATION ON FRONT FACE: 1/2"

RESULTS: TEAR OBSERVED - LESS THAN 5" WIDE BUT WAS MORE THAN 1/16" DEEP

IMPACT #2

LOCATION: CENTER OF 4' AND 8' PANELS HORIZONTAL JOINT.

MISSILE VELOCITY: 50.80 FT/SEC

MAX DEFLECTION: 1/8"

PERMANENT DEFORMATION ON FRONT FACE: 1/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #3

LOCATION: MIDSPAN/MIDDLE OF 4' PANEL

MISSILE VELOCITY: 50.17 FT/SEC

MAX DEFLECTION: 3/8"

PERMANENT DEFORMATION ON FRONT FACE: 3/8"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

NOTE: See Large Missile Impact drawing for actual locations of impacted areas.

TAS 203-94

CYCLIC WIND PRESSURE LOADING

TEST SPECIMENS: A, B, C

SPECIMEN: 4' wide FL Metal Panel, 0.063" thick alum. panel w/16" o.c. stiffener w/cleat.

DESIGN PRESSURE: +90 PSF / -90 PSF

INWARD (+) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 45	600
0 TO 0.6P	0 TO 54	70
0 TO 1.3P	0 TO 117	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX. NET PERMANENT SET (IN)
A	0.575	< 1/16"
B	0.505	< 1/16"
C	0.541	< 1/16"

OUTWARD (-) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 45	600
0 TO 0.6P	0 TO 54	70
0 TO 1.3P	0 TO 117	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX NET. PERMANENT SET (IN)
A	0.301	< 1/16"
B	0.196	< 1/16"
C	0.229	< 1/16"

RESULTS

Upon completion of the cycles at the pressures noted above, there were no noticeable failures of the specimens.

TAS 203-94(cont.)

CYCLIC WIND PRESSURE LOADING

TEST SPECIMENS: A, B, C

SPECIMEN: 8'wide FL Metal Panel,0.063"thick alum. panel w/16" o.c. stiffener w/cleat.

DESIGN PRESSURE: +90 PSF / -90 PSF

INWARD (+) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 45	600
0 TO 0.6P	0 TO 54	70
0 TO 1.3P	0 TO 117	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX. NET PERMANENT SET (IN)
A	0.542	< 1/16"
B	0.489	< 1/16"
C	0.418	< 1/16"

OUTWARD (-) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 45	600
0 TO 0.6P	0 TO 54	70
0 TO 1.3P	0 TO 117	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX NET. PERMANENT SET (IN)
A	0.535	< 1/16"
B	0.368	<1/16"
C	0.172	<1/16"

RESULTS

Upon completion of the cycles at the pressures noted above, there were no noticeable failures of the specimens.

TEST SPECIMEN "A"

SPECIMEN: 4'wide FL Metal Panel,0.063"thick alum. panel w/16" o.c. stiffener w/cleat.

DESIGN PRESSURE = +90 psf / -90 psf

UNIFORM STATIC AIR PRESSURE TEST AT DESIGN LOAD

Test Load (psf)	Max. Net Deflection (in)
+90	0.232
-90	0.107

UNIFORM STATIC AIR PRESSURE TEST AT 1.5 X DESIGN LOAD

Test Load (psf)	Max. Net Permanent Set (in)
+135	0.021
-135	0.011

Results

Upon completion of the pressures noted above there were no noticeable failures of the specimen.

TAS 202-94 (cont.) UNIFORM STATIC AIR PRESSURE TEST

TEST SPECIMEN "A"

SPECIMEN: 8'wide FL Metal Panel,0.063"thick alum. panel w/16" o.c. stiffener w/cleat.

DESIGN PRESSURE = +90 psf / -90 psf

UNIFORM STATIC AIR PRESSURE TEST AT DESIGN LOAD

Test Load (psf)	Max. Net Deflection (in)
+90	0.202
-90	0.130

UNIFORM STATIC AIR PRESSURE TEST AT 1.5 X DESIGN LOAD

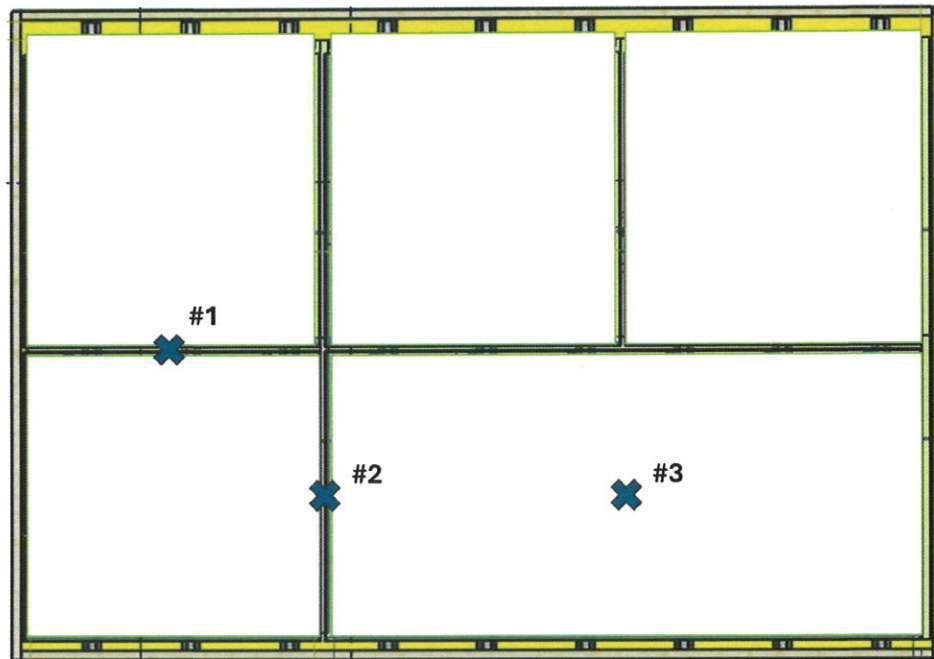
Test Load (psf)	Max. Net Permanent Set (in)
+135	0.022
-135	0.017

Results

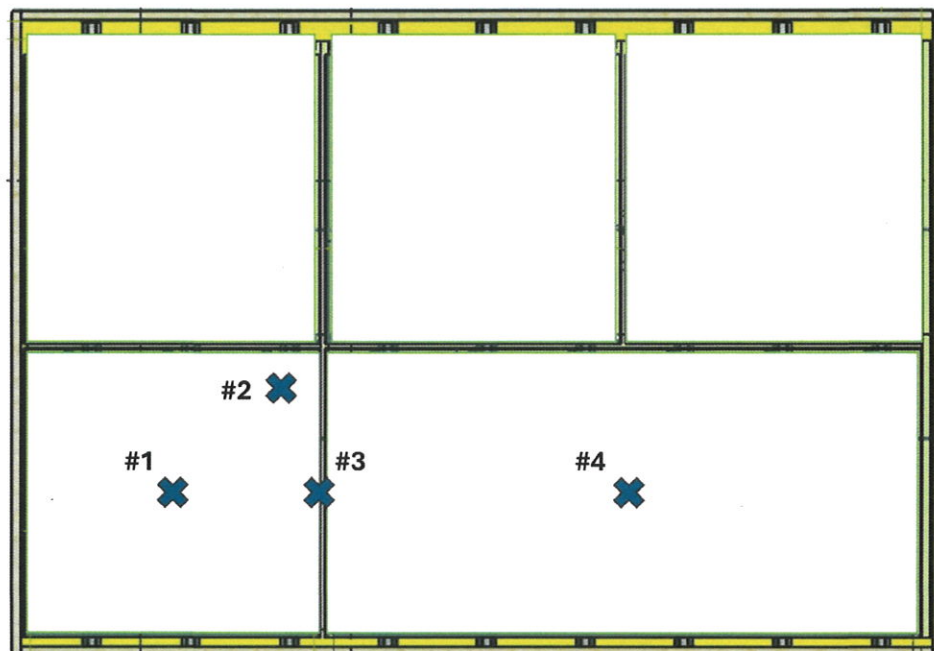
Upon completion of the pressures noted above there were no noticeable failures of the specimen.

TAS 201 LARGE MISSILE TEST SHOT LOCATIONS

SPECIMEN A

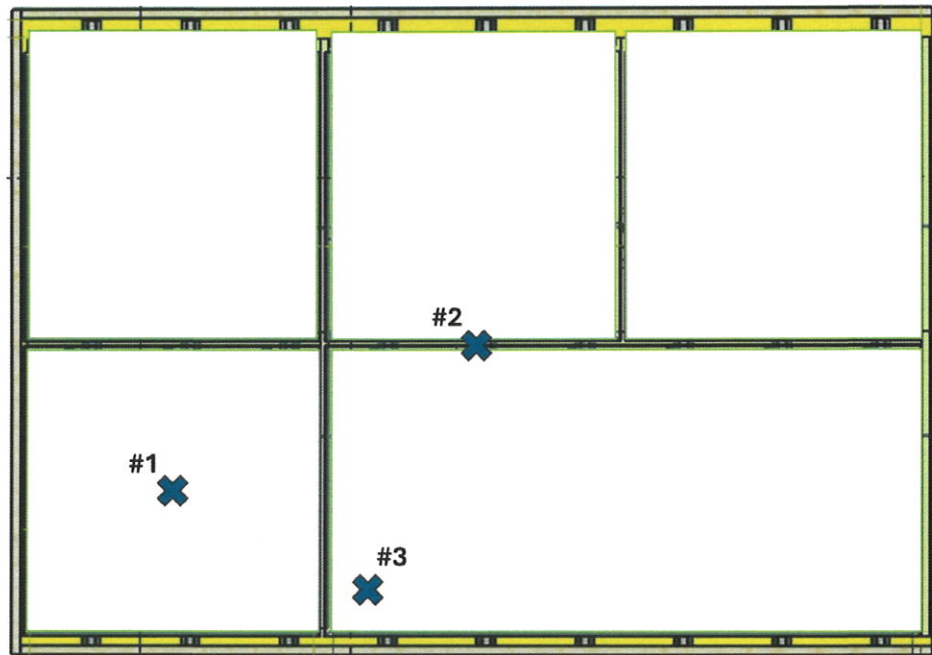


SPECIMEN B



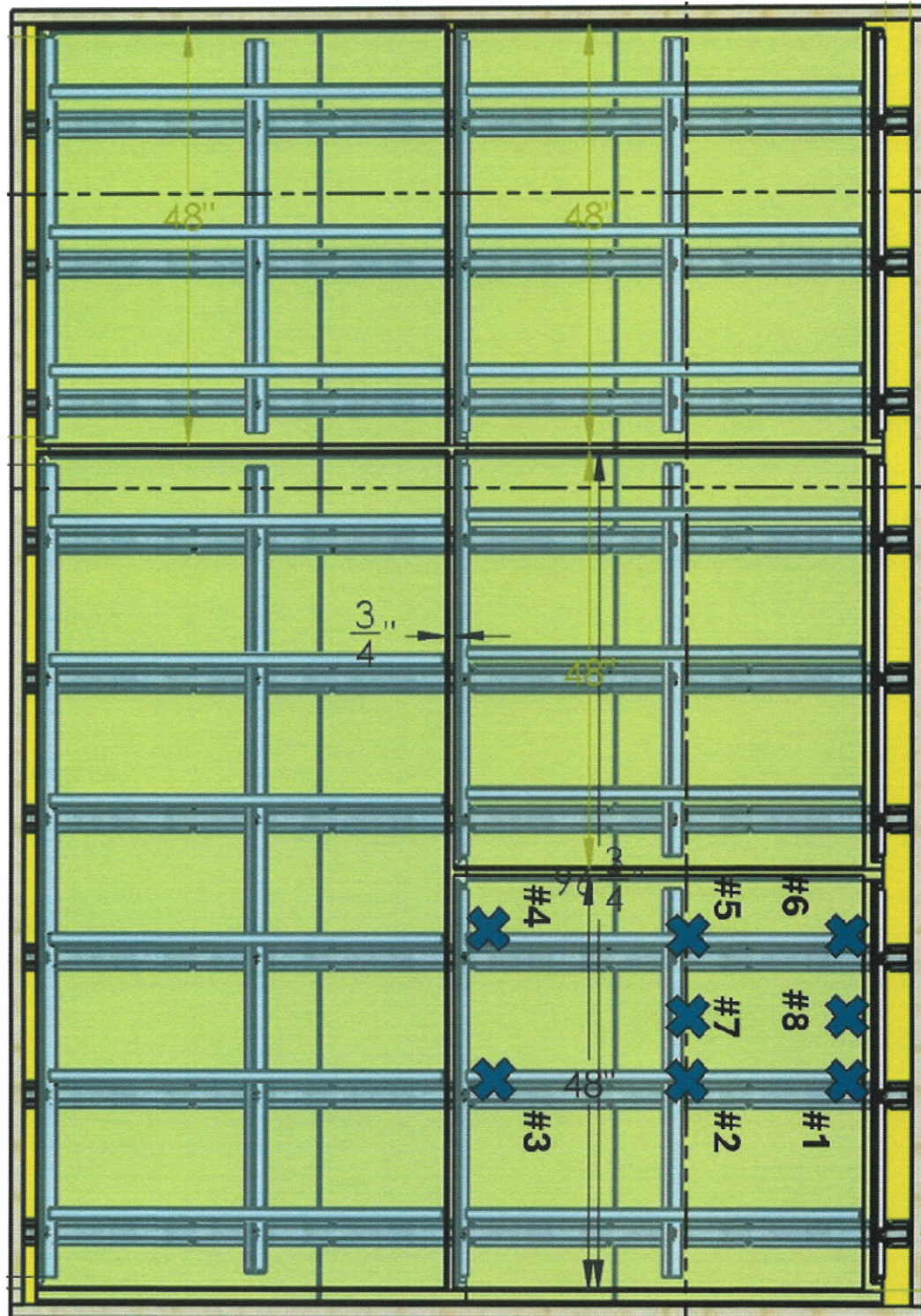
TAS 201 LARGE MISSILE TEST SHOT LOCATIONS (CONT.)

SPECIMEN C

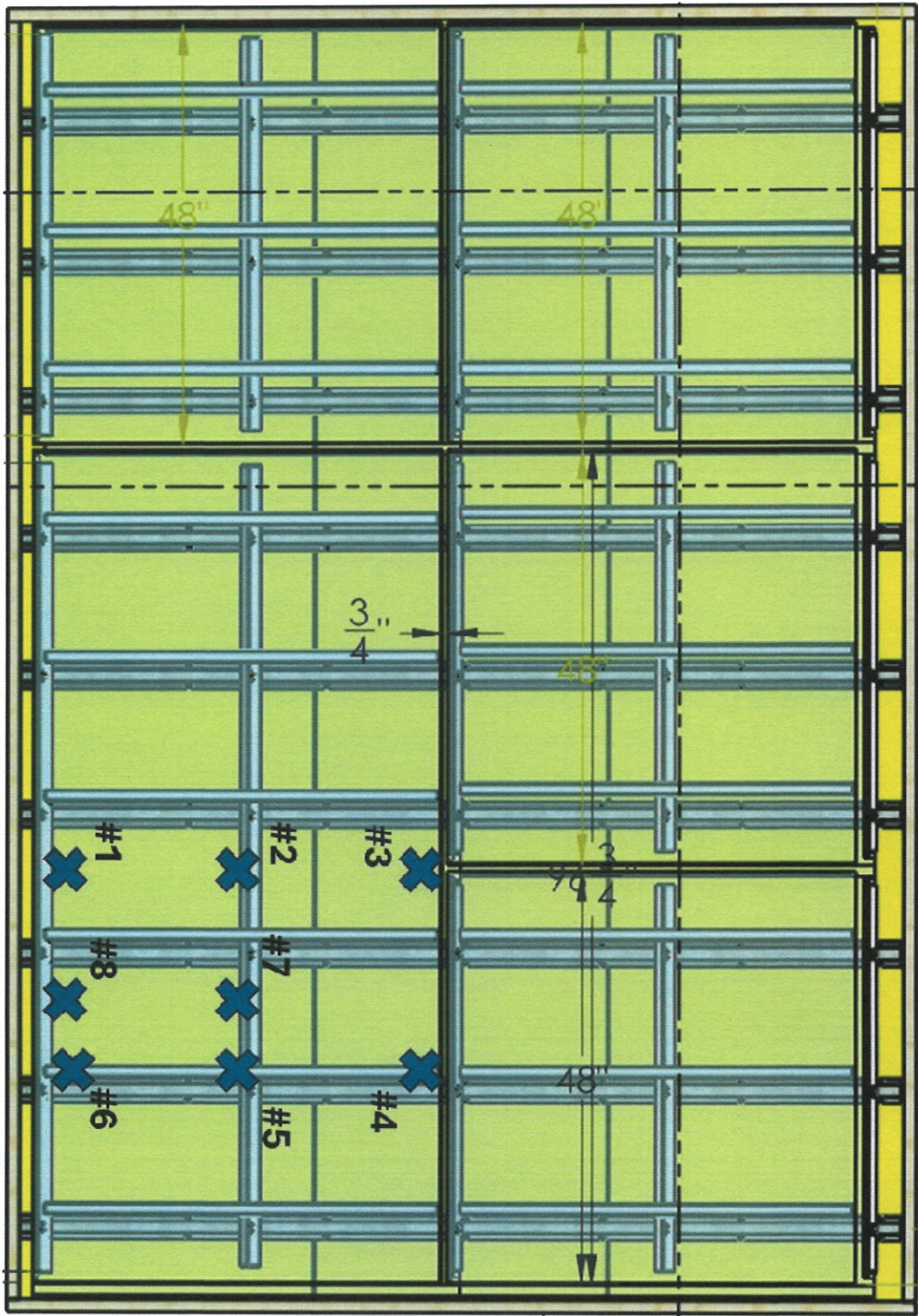


TAS 202 & TAS 203 DEFLECTOMETER LOCATIONS

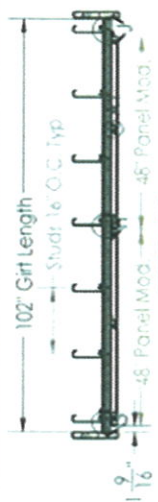
4' Panel



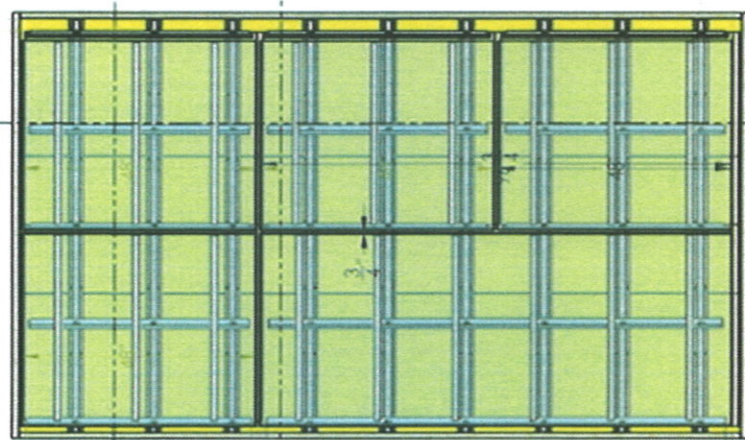
8' Panel



4 3 2 1



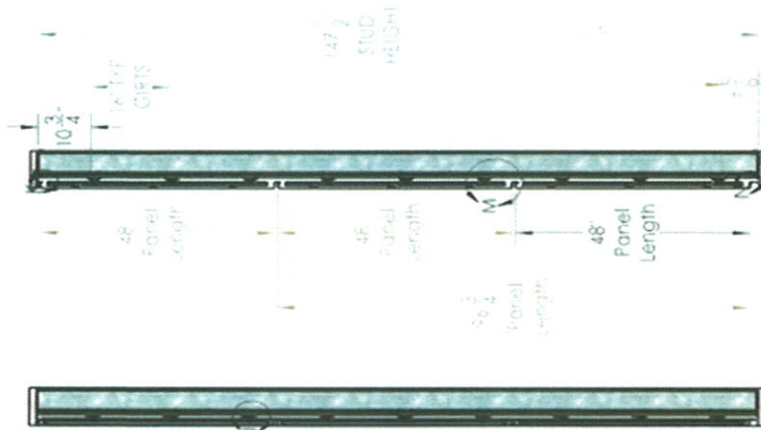
SECTION B-B
SCALE 1:28



B

A

As Tested
Design Load 90 PSF
Impact tested



SECTION A-A
SCALE 1:28

- Test Setup #19 (TAS 201, 202, 203)
- (4) 48" x 48" Panels ✓
 - (1) 48" x 96 3/4" Panel ✓
 - .063" Panel Skins ✓
 - .063" Stiffeners, 16" O.C. ✓
 - *** (1) Cleat Per Panel*** ✓
 - 1" Wide 3M G16 VHB Tape ✓
 - 16 GA Girts, 16" O.C. ✓
 - 16 GA Studs, 16" O.C. ✓
 - 2x 1/4-14 Fasteners, 16" O.C. ✓
 - .125" Formed Aluminum Start Tracks ✓
 - 1x .063" Top Edge ✓
 - 2x .080" Top Edge ✓

✓ - 3F

F E T INC
Review for general compliance
with test report AS NOTED ONLY
BY: **3F**
PROJECT # **7362-25**

A

TITLE
Test Assembly 063
R5 Cleat T19
REV
B As Tested
SIZE DWG. NO.
SCALE 1:24 WEIGHT: SHEET 1 OF 17

DATE	NAME	REVISION

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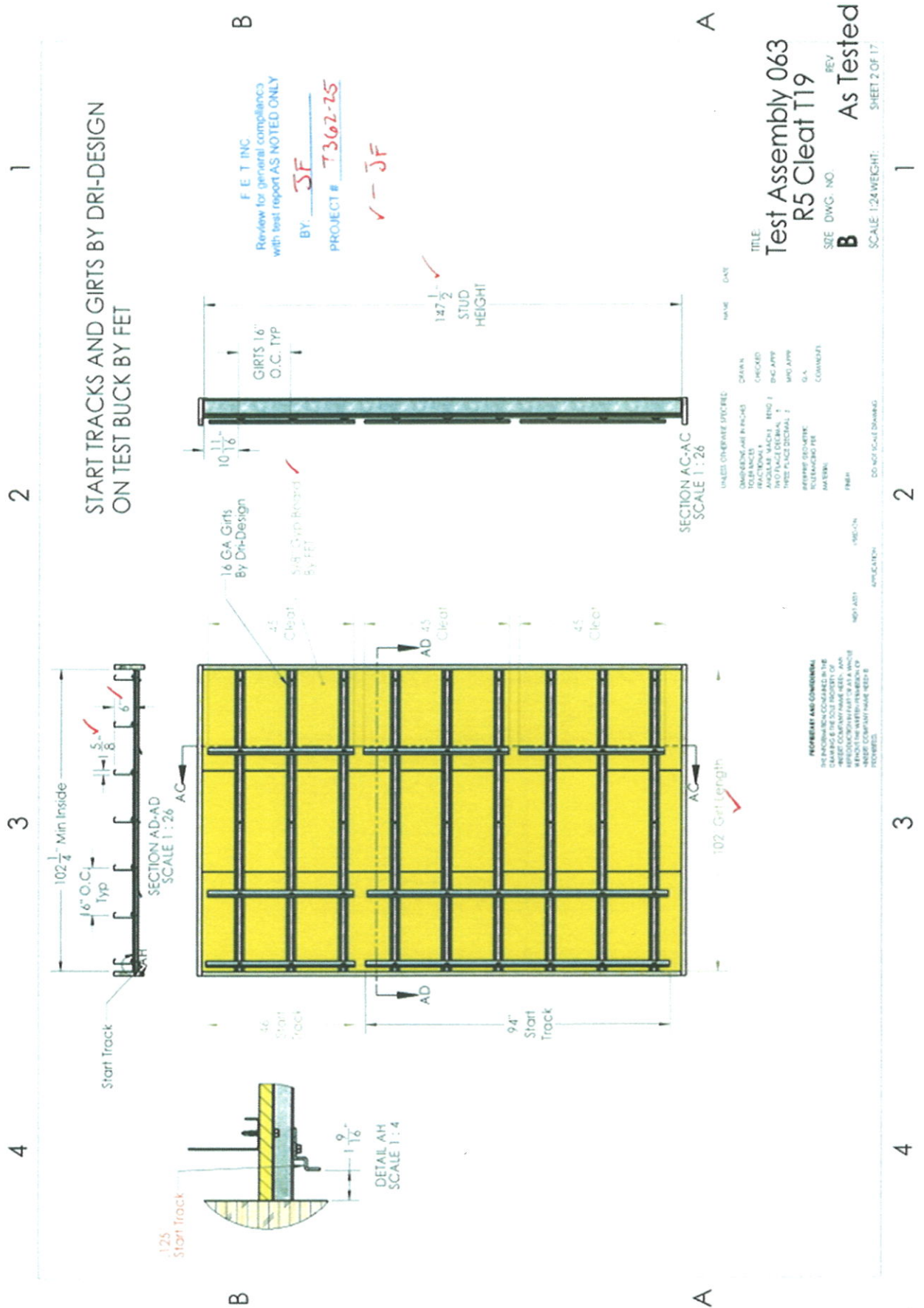
Note:
All 063 components 3003-H14 Aluminum
ALL 125 components 5052-H32 Aluminum
All 16 GA hats / girts G90 Galvanized steel
All 1/4-14 Fasteners 300 Series stainless steel

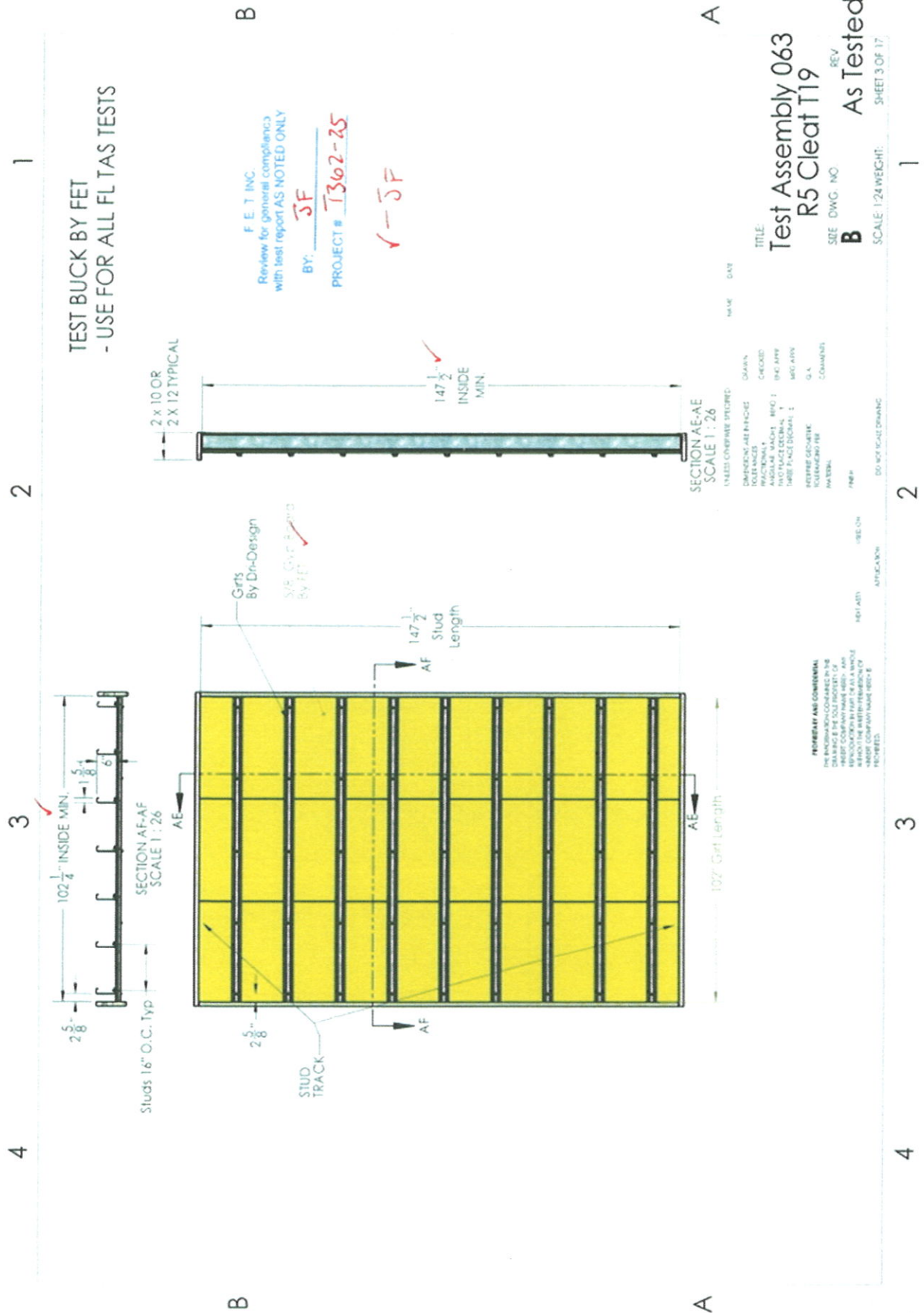
4

3

2

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4 3 2 1

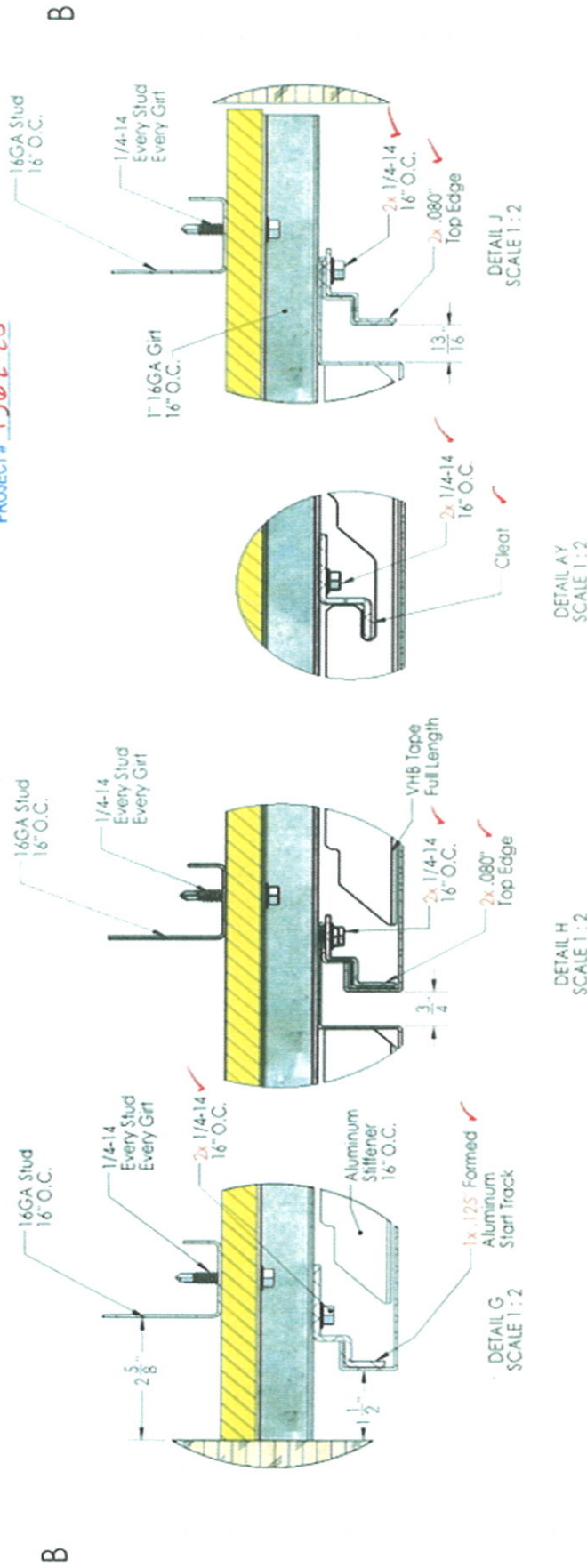
Vertical Panel Joints

F. E. T. INC.
Review for general compliance
with test report AS NOTED ONLY

BY: **JF**

PROJECT # **T362-25**

V-JF



A

Test Assembly 063
R5 Cleat T19

REV **B** As Tested

SCALE 1:24 WEIGHT: SHEET 4 OF 17

DATE	BY	CHKD	DATE
01/11/17	JF	CT	01/11/17

UNLESS OTHERWISE SPECIFIED:

CONNECTIONS ARE BY BOLT

FRANCHISE

ANGULAR WELDING

IN PLACE OF CORNER

THREE PLATE CORNER

WELDED CONNECTION

TOLERANCE

AS NOTED

DO NOT SCALE DRAWING

4

3

2

1

Panel Skin .063" x 48"

F. E. T. INC.
Review for general compliance
with test report AS NOTED ONLY

BY: JS

PROJECT # T362-25

✓-54

BY:

PROJECT # T362-25

✓-54

SECTION AG-AG

A

time

SIZE DWG. NO.

Test Assembly 063 RS Global

SCALE: 1:12 WEIGHT: SHEET 7 OF 17

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DETAIL R
SCALE 1:1.5

DO NOT SCALE OR MARK

4 3 2 1

Panel Assembly .063" x 96 3/4"

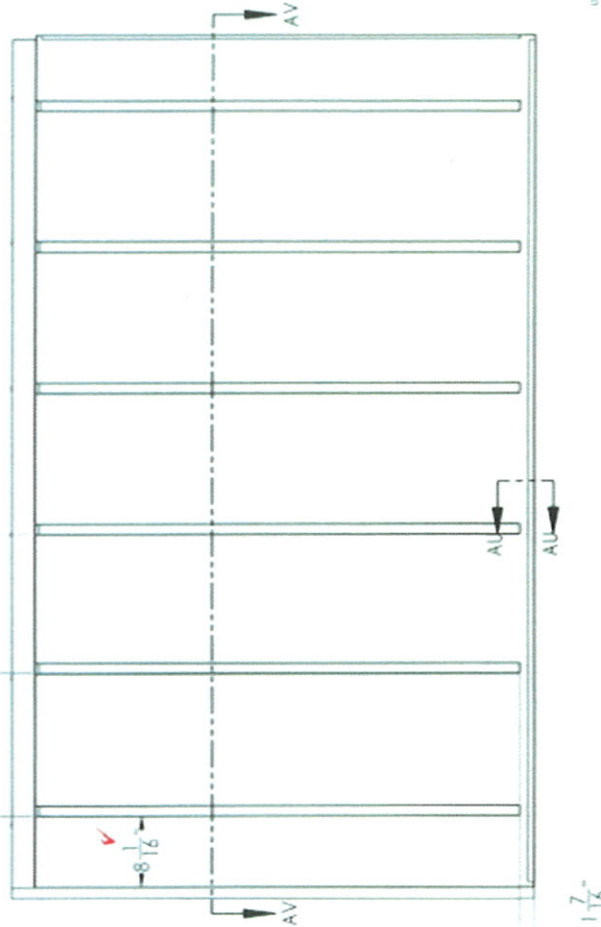
G1.6 VHB Application Procedure:

Prepare mating surfaces of bare Aluminum:

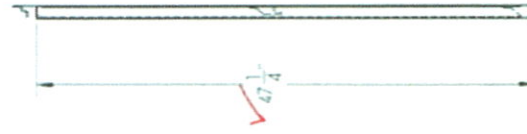
- 1) Abrade surfaces with Scotch-Brite 7447 Pro or 220-300 grit sandpaper (3 swipes min).
- 2) Wipe clean with 50:50 or 70:30 mixture of Isopropyl alcohol and water
- 3) Apply AP111 using Wypoll X60 or equal (use only towels w/o binders). Min application temp: 55°F
- 4) Assemble within 10 minutes to prevent contamination of surface
- 5) Use J-Roller to apply 1.5 PSI min full length of stiffener



SECTION AV-AV



SECTION AU-AU
SCALE 1:4



F. C. T. R. O.
Review for general compliance
with test report AS NOTED ONLY
BY: JF
PROJECT # T362-25

✓ - JF

A B

UNLESS OTHERWISE SPECIFIED	EXAMIN	DATE
CONFORMANCE IN INCHES	CHECKED	
FRACTIONAL	ANGULAR	END VIEW
ANGULAR	END VIEW	END VIEW
TWO PLACE DECIMAL	THREE PLACE DECIMAL	Q.A.
REFERENCE	REFERENCE	REFERENCE
TOLERANCE	TOLERANCE	TOLERANCE
FINISH	FINISH	FINISH
DO NOT SCALE DRAWING		

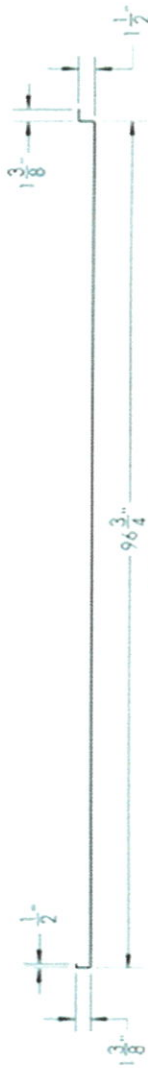


TITLE:
Test Assembly 063
R5 Cleat T19
REV
As Tested
SITE DWG. NO. B
SCALE 1:12 WEIGHT: SHEET 8 OF 17

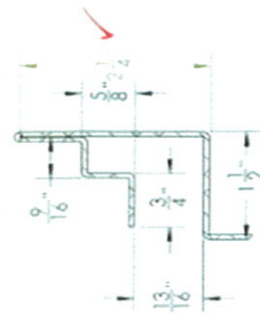
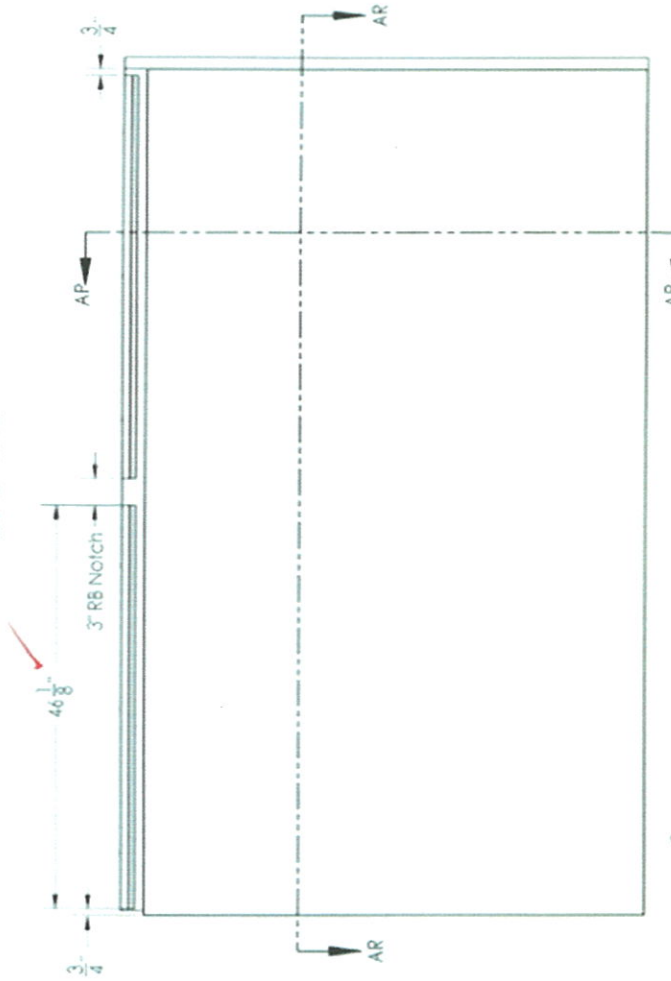
4 3 2 1

Panel Skin .063" x 96 3/4"

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with test report AS NOTED ONLY

BY: **3F**PROJECT # **T362-25****✓-3F**

SECTION AR-AR

DETAIL AT
SCALE 1:1.5

SECTION AP-AP

NAME DATE

TITLE:

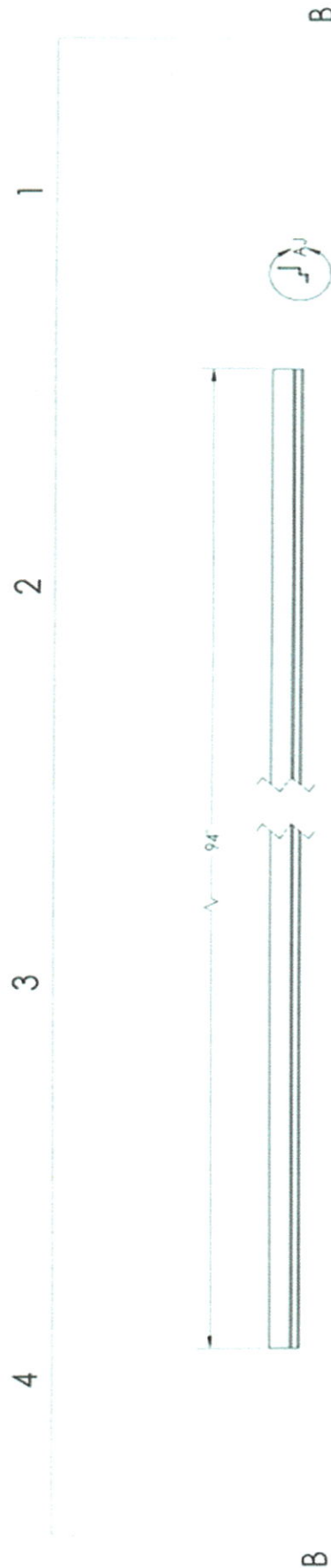
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS
ANGULAR SIZES
TOLERANCES
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MATERIAL
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APPLICATOR
DATE
DRAWN
CHECKED
BY
DATE
G.A.
COMMENTS

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SIZE DWG. NO. REV
Test Assembly 063 RS
T362-25

SCALE: 1/2"=1'-0"

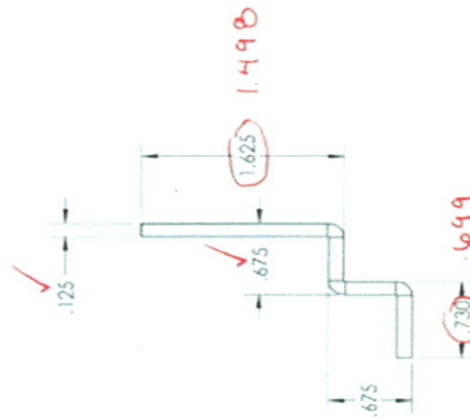
SHEET 9 OF 17



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with test report AS NOTED ONLY

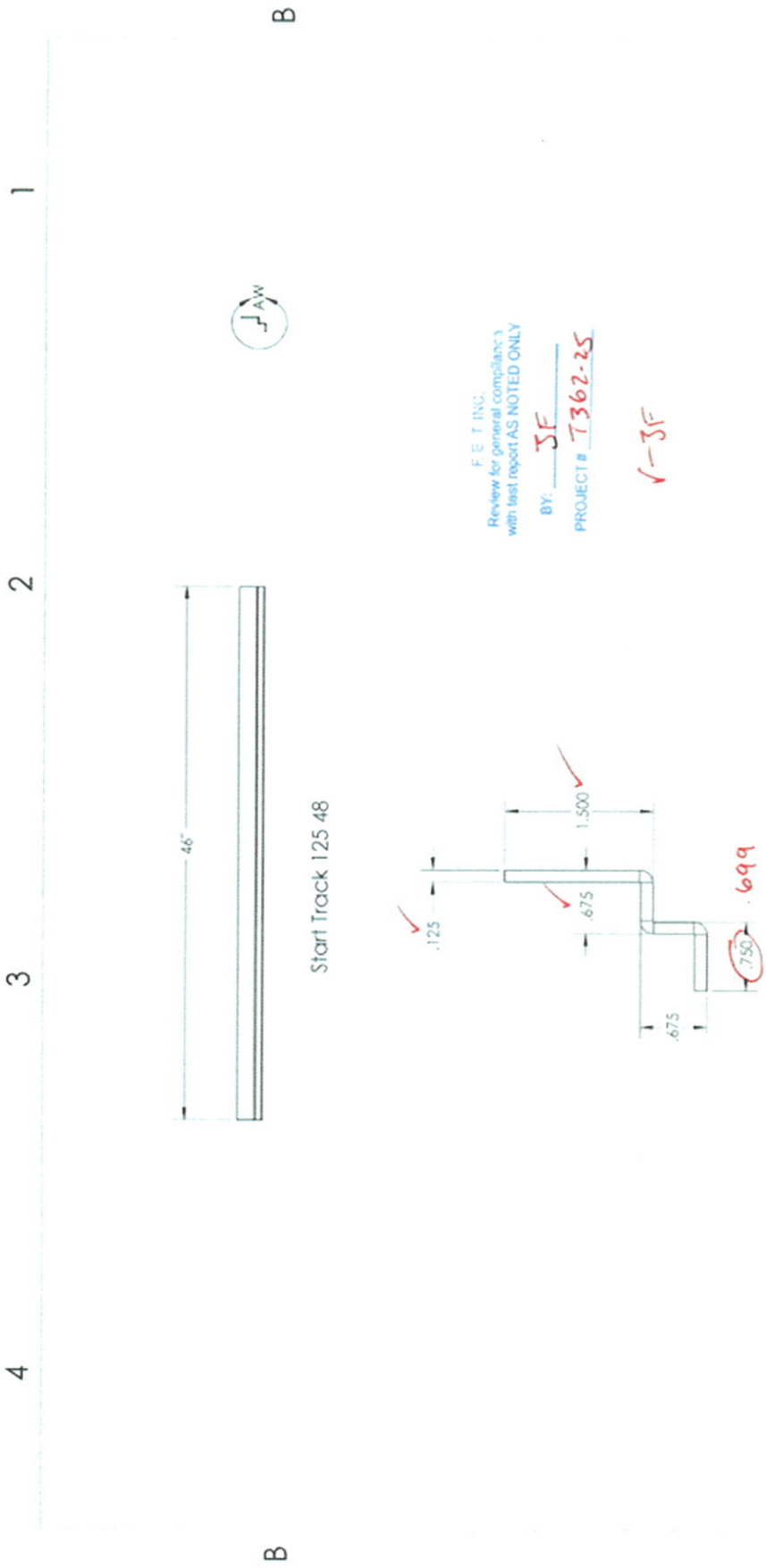
BY: 5F
PROJECT # T302-25

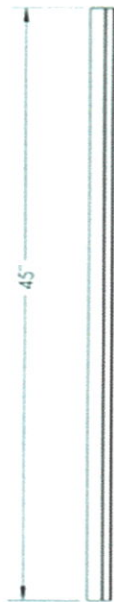
✓ 15E



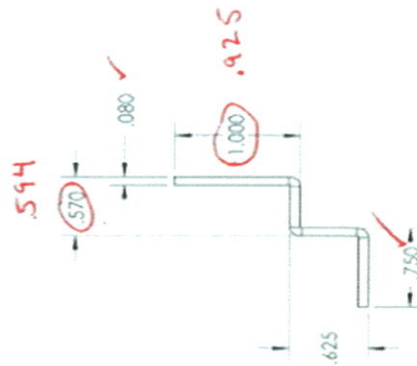
Start Track 125 96

[illegible]

[illegible]



Top Edge 080 48



DETAIL AN
SCALE 1:1

F E T INC.
Review for general compliance
with test report AS NOTED ONLY

BY: JF

PROJECT # T362-25

V-5F

UNLESS OTHERWISE SPECIFIED		NAME	DATE
DURANGO AIR FINCHES		CPAN	
TOLERANCES		CHECKED	
FRACTIONS		DATE	
UNIT CONVERSIONS		BY	
DIMENSIONS		BY	
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Cleat 125 96

F. E. T. INC.
Review for general compliance
with test report AS NOTED ONLY
BY: JF
PROJECT # T362-25



DETAIL BB
SCALE 1:1

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UNLESS OTHERWISE SPECIFIED	DATE	REVISION	BY	DATE
CHANGES ARE PERMITTED:				
1. MATERIALS				
2. FABRICATION				
3. ANALYSIS				
4. INSPECTION				
5. TESTING				
6. REPORTING				
7. RECORDING				
8. MAINTENANCE				
9. DISPOSAL				
10. OTHER				

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TEST ASSEMBLY 063 R5 Cleat T19

SITE DWG. NO. **B** REV **As Tested**

SCALE: 1:16 WEIGHT: SHEET 13 OF 17

4 3 2 1

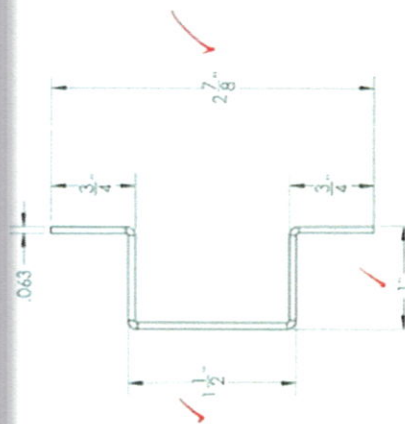


F. E. T. INC.
Review for general compliance
with test report AS NOTED ONLY

BY: JF

PROJECT # T362-25

16 GA. G-90, 50 KSI (min) Steel

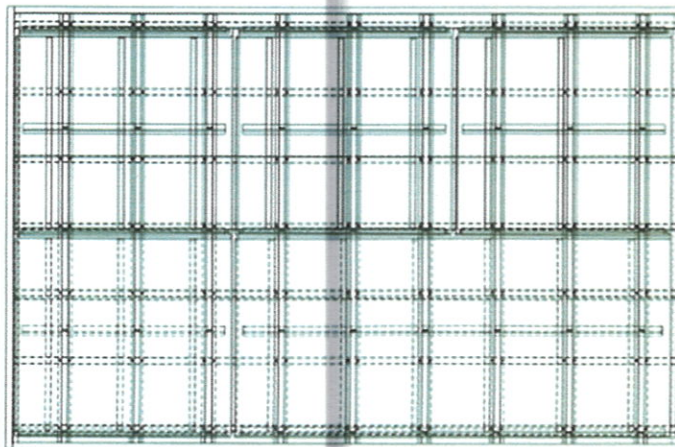
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Test 19 R5

F. E. T. INC.
Review for general compliance
with test report AS NOTED ONLY

BY: 3F

PROJECT # 1862-25



B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FL Panel 48x96 063		1
2	Stiffener Indexing 063 48		18
3	Start Track Formed Zee 125 96		1
4	Hex Head Drilling Screw 150		162
5	Hot 750		9
6	Stud 6 in		7
7	Stud Track 6 in		2
8	2x10 Sides		2
9	2x10 Top Bolt		2
10	90364A-620	External Hex Head Drilling Screws for Metal	72
11	FL Panel 48x48 063		4
12	Top Edge Formed Zee 080 48		7
13	Start Track Formed Zee 125 48		1
14	Cleat 125 48		4
15	Cleat 125 96		2
16	DensGlass		6

A

UNLESS OTHERWISE SPECIFIED
DRAWING: J.E.F. INC.
CHECKED: J.E.F. INC.
ANALYST: J.E.F. INC.
DESIGNED: J.E.F. INC.
DATE: 10/10/2018
REVISION: 1
SCALE: 1/2"=1'-0"

REVISIONS AND COMMENTS
1. REVISION: 1
2. REVISION: 2
3. REVISION: 3
4. REVISION: 4
5. REVISION: 5
6. REVISION: 6
7. REVISION: 7
8. REVISION: 8
9. REVISION: 9
10. REVISION: 10
11. REVISION: 11
12. REVISION: 12
13. REVISION: 13
14. REVISION: 14
15. REVISION: 15
16. REVISION: 16

Test Assembly 063 R5
SIZE: DWG. NO. 1862-25
SCALE: 1/2"=1'-0"

SHEET 17 OF 17

1

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TENSILE TEST REPORT

Client: Dri-Design
12480 Superior Court, Suite #1
Holland, MI 49424

Test Date: 12/12/25

Test Method: ASTM B557-10

Material Description: FL Metal Panel, 0.063" thick aluminum panel

Sample No.	Width (in)	Thickness (in)	Yield Load (lb)	Max. Load (lb)	0.2% Offset Yield Strength (psi)	Tensile Strength (psi)	Elongation (% in 2 inches)
25258	0.494	0.060	604.47	657.44	20,394	22,181	2.84

Equipment Used: Tensile Machine #QT7-061196-020
Caliper #1074379
Extensometer #10311744D
Micrometer #110596927

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	12/12/25	N/A	Original report issue.

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