

TREMCO CPG, INC.

MIAMI-DADE TEST REPORT

SCOPE OF WORK

TAS 202, TAS 203 AND ASTM E8 TESTING ON TREMCO CPG, INC. METALITE 8000® PANELS

REPORT NUMBER

T1273.01-801-18 R0

TEST DATE(S)

12/15/25 - 12/19/25

ISSUE DATE

05/04/26

MIAMI-DADE COUNTY NOTIFICATION NO.

ATITX1032501

LABORATORY CERTIFICATION NO.

22-0428-10

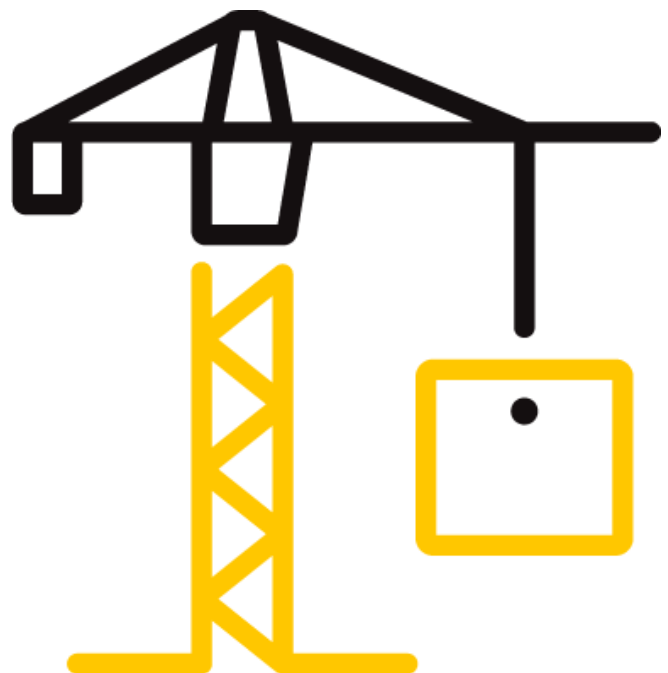
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TEST REPORT FOR TREMCO CPG, INC.

Report No.: T1273.01-801-18 R0

Date: 05/04/26

REPORT ISSUED TO

TREMCO CPG, INC.

3735 Green Road
Beachwood, OH 44122

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Tremco CPG, Inc. to perform TAS 202, TAS 203 and ASTM E8 testing in accordance with Miami-Dade County requirements on their Tremco Metalite 8000® Panels. Results obtained are tested values and were secured by using the designated test method(s). TAS 202 and 203 Testing was conducted at the Intertek B&C test facility in Plano, TX. ASTM E8 Testing was conducted at the Intertek B&C test facility in Lithia Springs, GA. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

The specimens tested met the performance requirements set forth in the protocols.

Product Type: MCM Aluminium Panel System

Series/Model: Metalite 8000®

Test Specimen #1-3 2ft Panels on Plywood with Metal and Wood Studs

SPEC.	TEST PROTOCOL	DESIGN PRESSURE
#1 A200-2	TAS 202/203	+120 / -120 psf
#2 C200-1	TAS 202/203	+120 / -120 psf
#3 C200-2	TAS 202/203	+120 / -120 psf

Test Specimen #4-6 4ft Panels on Plywood with Metal and Wood Studs

SPEC.	TEST PROTOCOL	DESIGN PRESSURE
#4 B200-2	TAS 202/203	+80 / -80 psf
#5 D200-1	TAS 202/203	+80 / -80 psf
#6 D200-2	TAS 202/203	+80 / -80 psf



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For INTERTEK B&C:

COMPLETED BY:	Jeffrey Crump, FMPC Laboratory Manager – Building & Construction
TITLE:	
SIGNATURE:	 Digitally Signed by: Jeffrey Crump
DATE:	05/04/26

JC:GR

REVIEWED BY:	Tyler Westerling, P.E.
TITLE:	Operations Manager
SIGNATURE:	 Digitally Signed by: Tyler Westerling
DATE:	05/04/26

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in general accordance with the following:

TAS 202-94, *Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure (Only Structural Loads Performed)*

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading (TAS 201 Impact Testing Not Performed)*

ASTM E8, *Tensile Strength of Metallic Materials*

SECTION 4

TEST PROCEDURE EXEMPTIONS AND ADJUSTMENTS:

1. Construct wall assemblies over 5/8" plywood over 18 ga. metal studs and 2x6 wood studs to pursue impact test exemption (TAS 201) and no positive cyclic pressure testing (TAS 203) per Miami-Dade Building Department Checklist #0250.
2. Exclude air and water testing and use plastic film during test procedures provided that a WRB is shown on the listing drawings.
3. Masonry/concrete substrate testing is not required if a 5/8" plywood over wood stud wall assembly as a conservative substitution is tested instead and masonry anchoring calculations and assembly drawings are submitted for review.

SECTION 5

MATERIAL SOURCE/INSTALLATION

Test specimens were provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of ten years from the test completion date.

Test Specimens #1 and 4

Test specimens were installed into a 18ga. 33 ksi steel stud test buck with studs spaced 11-11/16" between outermost metal studs and 16" O.C. with 5/8" plywood attached to front face of metal studs with 8-18 x 1-5/16" flat head #3 point fasteners, 1" from each end and 8" O.C. Backside bracing with 18" x 121" plywood at 1/3 points of metal studs. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Exterior face of plywood	12-14 x 2" HWH Drill-flex #3 point	Specimen #1 used 16 ga. Galvanized 1" deep zee girt (horizontal) and 16 ga. Galvanized 1" deep hat channel (horizontal) and specimen #4 used 14 ga. Galvanized 1" deep zee girt (horizontal) and 14 ga. Galvanized 1" deep hat channel (horizontal)

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Test Specimens #2, 3, 5, and 6

Test specimens were installed into a Southern Yellow Pine No.2 wood stud test buck with studs spaced 11-3/4" between outermost wood studs and 16" O.C. with 5/8" plywood attached to front face of wood studs with 1/4" x 3" S.S. SDS wood screws with 2" min. penetration of threads into wood studs, 1" from each end and 8" O.C. Backside bracing with 18" x 121" plywood at 1/3 points of wood studs. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Exterior face of plywood	1/4" x 3" S.S. SDS wood screws with 2" min. penetration of threads into wood studs	Specimens #2 and #3 used 16 ga. Galvanized 1" deep zee girt (horizontal) and 16 ga. Galvanized 1" deep hat channel (horizontal) and specimens #5 and #6 used 14 ga. Galvanized 1" deep zee girt (horizontal) and 14 ga. Galvanized 1" deep hat channel (horizontal)

SECTION 6

EQUIPMENT

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: Linear transducers

SECTION 7

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Melissa McMullins, P.E.	Tremco Inc.
Yelena Straight, P.E.	Tremco Inc.
Alexei Buruian	Intertek B&C
Jovica Cijuk	Intertek B&C
Tyler Westerling, P.E.	Intertek B&C

SECTION 8

TEST SPECIMEN DESCRIPTION

Product Type: MCM Aluminium Panel System

Series/Model: Metalite 8000

Product Size(s):

OVERALL, AREA:	WIDTH	HEIGHT
81.2 ft ²	inches	inches
Overall Size	121	97-1/2

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2 ft Panel Construction:

The specimens consisted of Metalite 8000 with horizontal and vertical joints. The panels consisted of 4mm ACM at the exterior. The edges of the panels were metered and folded to make a 90 degree corner around the perimeter. Metalite 8000 panels were fastened to hat channels and zee-girts with #12-14 x 1" HWH Dril-flex #3 point screws. 16GA. galvanized 1" deep zee-girts (horizontal) at top and bottom (typ.) and 16GA. galvanized 1" deep hat channels (horizontal) were installed at 24" o.c. Hat channels and zee-girts were fastened through plywood to metal studs with #12-14 x 2" HWH Dril-flex #3-point screws. Hat channels and zee-girts were fastened through plywood to wood studs with 1/4" x 3" S.S. SDS wood screws. Refer to attached drawings for fastener spacing and quantity.

4 ft Panel Construction:

The specimens consisted of Metalite 8000 panels with horizontal and vertical joints. The panels consisted of 4mm ACM at the exterior. The edges of the panels were mitered and folded to make a 90 degree corner around the perimeter. Metalite 8000 panels were fastened to hat channels and zee-girts with #12-14 x 1" HWH Dril-flex #3 point screws. 14GA. galvanized 1" deep zee-girts (horizontal) at top and bottom (typ.) and 14GA. galvanized 1" deep hat channels (horizontal) were installed at 16" o.c. Hat channels and zee-girts were fastened through plywood to metal studs with #12-14 x 2" HWH Dril-flex #3 point screws. Hat channels and zee-girts were fastened through plywood to wood studs with 1/4" x 3" S.S. SDS wood screws. Refer to attached drawings for fastener spacing and quantity.

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SECTION 9
TEST RESULTS

Protocol TAS 202-94, Static Air Pressure & Protocol TAS 203-94, Cyclic Wind Pressure Loading (Negative Only)

Test Date(s): 12/8/25 through 12/12/25

The temperature during testing was 22°F - 72°F. The results are tabulated as follows:

Test Specimen #1: A200-2 2ft Panels with Metal Studs - Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+90.00 50% of Test Pressure	1	0.09	0.01	N/A
	2	0.43	0.01	N/A
	3	0.13	0.01	N/A
	4	0.42	0.02	N/A
	5	0.52	0.01	N/A
	6	0.32	0.01	N/A
+120.00 Design Pressure	1	0.11	0.01	
	2	0.52	0.03	0.24
	3	0.16	0.01	
	4	0.51	0.03	
	5	0.65	0.03	0.05
	6	0.37	0.02	
-90.00 50% of Test Pressure	1	0.06	0.01	N/A
	2	0.47	0.04	N/A
	3	0.15	0.02	N/A
	1	0.46	0.05	N/A
	2	0.58	0.04	N/A
	3	0.44	0.03	N/A
-120.00 Design Pressure	1	0.12	0.02	
	2	0.67	0.05	0.24
	3	0.24	0.03	
	4	0.65	0.05	
	5	0.79	0.05	0.05
	6	0.69	0.04	

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Test Specimen #1: A200-2 2ft Panels with Metal Studs - Test Overload per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+180.00 Test Pressure	1	0.14	0.01	
	2	0.74	0.07	0.24
	3	0.22	0.03	
	4	0.71	0.08	
	5	0.96	0.07	0.05
	6	0.47	0.05	
-180.00 Test Pressure	1	0.20	0.03	
	2	0.95	0.13	0.10
	3	0.40	0.03	
	4	0.92	0.13	
	5	1.13	0.13	0.05
	6	0.92	0.12	

Note 1: Positive and negative uniform static load test loads were held for 30 seconds.

Note 2: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film not influence the results of the test.

Note 3: See Sketch #1 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Test Specimen #1: A200-2 2ft Panels with Metal Studs Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+120.0 / -120.0 psf	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 60	0 – 72	0 – 156
AVERAGE CYCLE TIME (sec.)	3	3	1
NUMBER OF CYCLES	600	70	1

Test Specimen #2: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	NET MAXIMUM DEFLECTION (in.)	NET PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
2	0.79	0.02	97	>90
5	0.96	0.02	98	> 90

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Note 4: See Sketch #1 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Test Specimen #2: C200-1 2ft Panels with Wood Studs Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+90.00 50% of Test Pressure	1	0.22	0.03	N/A
	2	0.33	0.06	N/A
	3	0.04	0.01	N/A
	4	0.32	0.07	N/A
	5	0.40	0.01	N/A
	6	0.26	0.01	N/A
+120.00 Design Pressure	1	0.17	0.02	
	2	0.37	0.02	0.24
	3	0.04	0.01	
	4	0.38	0.03	
	5	0.44	0.03	0.05
	6	0.23	0.03	
-90.00 50% of Test Pressure	1	0.28	0.02	N/A
	2	0.50	0.03	N/A
	3	0.07	0.01	N/A
	1	0.38	0.02	N/A
	2	0.69	0.02	N/A
	3	0.11	0.01	N/A
-120.00 Design Pressure	1	0.31	0.02	
	2	0.64	0.03	0.24
	3	0.10	0.01	
	4	0.47	0.02	
	5	0.73	0.03	0.05
	6	0.19	0.02	

Test Specimen #2: C200-1 2ft Panels with Wood Studs Test Overload per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION SET (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+180.00 Test Pressure	1	0.18	0.05	
	2	0.78	0.11	0.24
	3	0.25	0.02	
	4	0.73	0.12	
	5	1.02	0.12	0.05
	6	0.49	0.12	

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LOAD (psf)	INDICATOR LOCATION	DEFLECTION SET (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
-180.00 Test Pressure	1	0.23	0.08	
	2	0.98	0.15	0.24
	3	0.45	0.14	
	4	0.96	0.14	
	5	1.19	0.14	0.05
	6	0.97	0.13	

Note 5: Positive and negative uniform static load test loads were held for 30 seconds.

Note 6: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 7: See Sketch #2 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Test Specimen #2: C200-1 2ft Panels with Wood Studs Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+120.0 / -120.0 psf	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 60	0 – 72	0 – 156
AVERAGE CYCLE TIME (sec.)	3	3	1
NUMBER OF CYCLES	600	70	1

Test Specimen #2: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	NET MAXIMUM DEFLECTION (in.)	NET PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
2	0.71	0.02	97	> 90
5	0.98	0.02	98	> 90

Note 8: See Sketch #2 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

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Test Specimen #3: C200-2 2ft Panels with Wood Studs Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+90.00 50% of Test Pressure	1	0.06	0.02	N/A
	2	0.42	0.09	N/A
	3	0.12	0.01	N/A
	4	0.40	0.09	N/A
	5	0.40	0.11	N/A
	6	0.31	0.13	N/A
+120.00 Design Pressure	1	0.05	0.01	
	2	0.45	0.02	0.24
	3	0.13	0.01	
	4	0.43	0.02	
	5	0.39	0.02	0.05
	6	0.26	0.03	
-90.00 50% of Test Pressure	1	0.08	0.01	N/A
	2	0.33	0.04	N/A
	3	0.12	0.02	N/A
	1	0.30	0.03	N/A
	2	0.42	0.07	N/A
	3	0.28	0.10	N/A
-120.00 Design Pressure	1	0.12	0.01	
	2	0.46	0.03	0.24
	3	0.09	0.01	
	4	0.44	0.03	
	5	0.54	0.03	0.05
	6	0.30	0.04	

Test Specimen #3: C200-2 2ft Panels with Wood Studs Test Overload per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION SET (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+180.00 Test Pressure	1	0.10	0.03	
	2	0.76	0.11	0.24
	3	0.18	0.05	
	4	0.73	0.11	
	5	0.65	0.11	0.05
	6	0.43	0.12	

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LOAD (psf)	INDICATOR LOCATION	DEFLECTION SET (in.)		PERMANENT SET (in.)	
		MEASURED		MEASURED	ALLOWED
-180.00 Test Pressure	1	0.23		0.03	
	2	0.85		0.11	0.24
	3	0.22		0.04	
	4	0.81		0.10	
	5	0.95		0.13	0.05
	6	0.62		0.16	

Note 9: Positive and negative uniform static load test loads were held for 30 seconds.

Note 10: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 11: See Sketch #3 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Test Specimen #3: C200-2 2ft Panels with Wood Studs Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+120.0 / -120.0 psf	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 60	0 – 72	0 – 156
AVERAGE CYCLE TIME (sec.)	3	3	1
NUMBER OF CYCLES	600	70	1

Test Specimen #3: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	NET MAXIMUM DEFLECTION (in.)	NET PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
2	0.57	0.03	95	> 90
5	0.68	0.03	96	> 90

Note 12: See Sketch #3 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

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Test Specimen #4: B200-2 4ft Panels with Steel Studs Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+60.00 50% of Test Pressure	1	0.17	0.02	N/A
	2	0.43	0.09	N/A
	3	0.14	0.08	N/A
	4	0.43	0.08	N/A
	5	0.59	0.10	N/A
	6	0.29	0.10	N/A
+80.00 Design Pressure	1	0.17	0.01	
	2	0.44	0.03	0.24
	3	0.08	0.01	
	4	0.45	0.03	
	5	0.56	0.02	0.10
	6	0.23	0.02	
-60.00 50% of Test Pressure	1	0.05	0.01	N/A
	2	0.26	0.03	N/A
	3	0.06	0.03	N/A
	1	0.25	0.02	N/A
	2	0.42	0.08	N/A
	3	0.26	0.12	N/A
-80.00 Design Pressure	1	0.06	0.01	
	2	0.31	0.02	0.24
	3	0.04	0.01	
	4	0.30	0.02	
	5	0.47	0.02	0.10
	6	0.19	0.02	

Test Specimen #4: B200-2 4ft Panels with Steel Studs Test Overload per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+120.00 Test Pressure	1	0.20	0.01	
	2	0.60	0.07	0.24
	3	0.11	0.02	
	4	0.61	0.07	
	5	0.68	0.05	0.10
	6	0.28	0.04	

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LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
-120.00 Test Pressure	1	0.17	0.02	
	2	0.56	0.06	0.24
	3	0.11	0.04	
	4	0.57	0.06	
	5	0.93	0.06	0.10
	6	0.39	0.05	

Note 13: Positive and negative uniform static load test loads were held for 30 seconds.

Note 14: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 15: See Sketch #4 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Test Specimen #4: B200-2 4ft Panels with Steel Studs Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+80.0 / -80.0 psf	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 60	0 – 72	0 – 156
AVERAGE CYCLE TIME (sec.)	3	3	1
NUMBER OF CYCLES	600	70	1

Test Specimen #4: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	NET MAXIMUM DEFLECTION (in.)	NET PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
2	0.57	0.05	91	> 90
5	0.90	0.07	92	> 90

Note 16: See Sketch #4 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

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Test Specimen #5: D200-1 4ft Panels with Wood Studs Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+60.00 50% of Test Pressure	1	0.09	0.04	N/A
	2	0.35	0.08	N/A
	3	0.08	0.03	N/A
	4	0.34	0.08	N/A
	5	0.45	0.08	N/A
	6	0.23	0.08	N/A
+80.00 Design Pressure	1	0.07	0.01	
	2	0.38	0.02	0.24
	3	0.06	0.01	
	4	0.36	0.02	
	5	0.47	0.02	0.10
	6	0.20	0.01	
-60.00 50% of Test Pressure	1	0.08	0.01	N/A
	2	0.30	0.02	N/A
	3	0.07	0.01	N/A
	1	0.27	0.02	N/A
	2	0.67	0.03	N/A
	3	0.22	0.03	N/A
-80.00 Design Pressure	1	0.10	0.01	
	2	0.42	0.01	0.24
	3	0.08	0.01	
	4	0.34	0.02	
	5	0.87	0.02	0.10
	6	0.29	0.01	

Test Specimen #5: D200-1 4ft Panels with Wood Studs Test Overload per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+120.00 Test Pressure	1	0.10	0.01	
	2	0.56	0.04	0.24
	3	0.08	0.02	
	4	0.54	0.05	
	5	0.63	0.05	0.10
	6	0.29	0.04	

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LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
-120.00 Test Pressure	1	0.18	0.00	
	2	0.66	0.01	0.24
	3	0.16	0.01	
	4	0.55	0.01	
	5	1.32	0.01	0.10
	6	0.01	0.01	

Note 17: Positive and negative uniform static load test loads were held for 30 seconds.

Note 18: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 19: See Sketch #5 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Test Specimen #5: D200-1 4ft Panels with Wood Studs Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+80.0 / -80.0 psf	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 40	0 – 48	0 – 156
AVERAGE CYCLE TIME (sec.)	3	3	1
NUMBER OF CYCLES	600	70	1

Test Specimen #5: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	NET MAXIMUM DEFLECTION (in.)	NET PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
2	0.66	0.05	92	> 90
5	1.32	0.04	97	> 90

Note 20: See Sketch #5 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

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Test Specimen #6: D200-2 4ft Panels with Wood Studs Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+60.00 50% of Test Pressure	1	0.10	0.02	N/A
	2	0.36	0.08	N/A
	3	0.10	0.03	N/A
	4	0.36	0.08	N/A
	5	0.53	0.11	N/A
	6	0.30	0.13	N/A
+80.00 Design Pressure	1	0.10	0.01	
	2	0.38	0.02	0.24
	3	0.09	0.01	
	4	0.38	0.02	
	5	0.51	0.02	0.10
	6	0.22	0.02	
-60.00 50% of Test Pressure	1	0.05	0.01	N/A
	2	0.22	0.01	N/A
	3	0.01	0.00	N/A
	1	0.20	0.01	N/A
	2	0.54	0.01	N/A
	3	0.12	0.00	N/A
-80.00 Design Pressure	1	0.07	0.02	
	2	0.33	0.03	0.24
	3	0.05	0.02	
	4	0.30	0.02	
	5	0.76	0.02	0.10
	6	0.21	0.02	

Test Specimen #6: D200-2 4ft Panels with Wood Studs Test Overload per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
+120.00 Test Pressure	1	0.15	0.01	
	2	0.60	0.01	0.24
	3	0.13	0.00	
	4	0.60	0.01	
	5	0.72	0.01	0.10
	6	0.38	0.01	

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LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)	
		MEASURED	MEASURED	ALLOWED
-120.00 Test Pressure	1	0.17	0.00	
	2	0.67	0.02	0.24
	3	0.16	0.03	
	4	0.62	0.02	
	5	1.34	0.02	0.10
	6	0.48	0.02	

Note 21: Positive and negative uniform static load test loads were held for 30 seconds.

Note 22: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 23: See Sketch #6 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Test Specimen #6: D200-2 4ft Panels with Wood Studs Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
+80.0 / -80.0 psf	1	2	3
NEGATIVE PRESSURE RANGE (psf)	0 – 40	0 – 48	0 – 156
AVERAGE CYCLE TIME (sec.)	3	3	1
NUMBER OF CYCLES	600	70	1

Test Specimen #6: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	NET MAXIMUM DEFLECTION (in.)	NET PERMANENT SET (in.)	PERCENT RECOVERY	
			MEASURED %	ALLOWED %
2	0.45	0.00	100	> 90
5	1.05	0.01	99	> 90

Note 24: See Sketch #6 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

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SECTION 10

CONCLUSIONS

No signs of failure were observed in any area of test specimens #1-6 during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202. Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

No signs of failure were observed in any area of the test specimens during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203. Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1625 of the Florida Building Code, Building.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

ADDITIONAL TESTS

Test specimens #7-8 do not satisfy the requirements of TAS 202 or TAS 203

Test Specimens #7 and 8

Test specimens were installed into a 18ga. 33 ksi steel stud test buck with studs spaced 11-11/16" between outermost metal studs and 16" O.C. with 5/8" plywood attached to front face of metal studs with 8-18 x 1-5/16" flat head #3 point fasteners, 1" from each end and 8" O.C. Backside bracing with 18" x 121" plywood at 1/3 points of metal studs. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Exterior face of plywood	12-14 x 2" HWH Drill-flex #3 point	Specimen #1 used 16 ga. Galvanized 1" deep zee girt (horizontal) and 16 ga. Galvanized 1" deep hat channel (horizontal) and specimen #4 used 14 ga. Galvanized 1" deep zee girt (horizontal) and 14 ga. Galvanized 1" deep hat channel (horizontal)

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Test Specimen #7: A200-1 2ft Panels with Metal Studs Test Overload per TAS 202

LOAD (psf)	Results
-235.00 Test Pressure 30 sec	Pressure achieved before failure

Note 25: Negative uniform static load test loads were held for 30 seconds.

Note 26: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Test Specimen #8: B200-1 2ft Panels with Metal Studs Test Overload per TAS 202

LOAD (psf)	Results
-183.00 Test Pressure 30 sec	Pressure achieved before failure

Note 27: Negative uniform static load test loads were held for 30 seconds.

Note 28: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

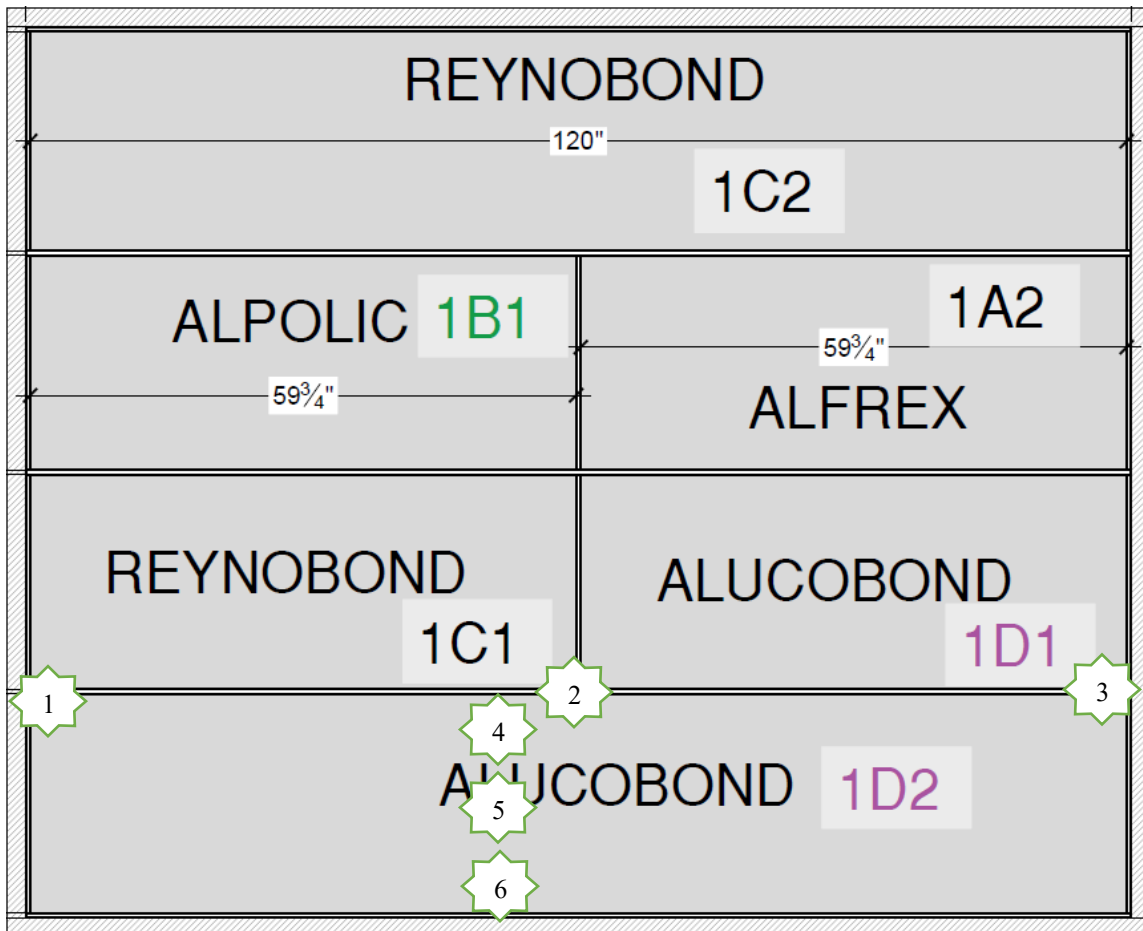
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SKETCH(ES)



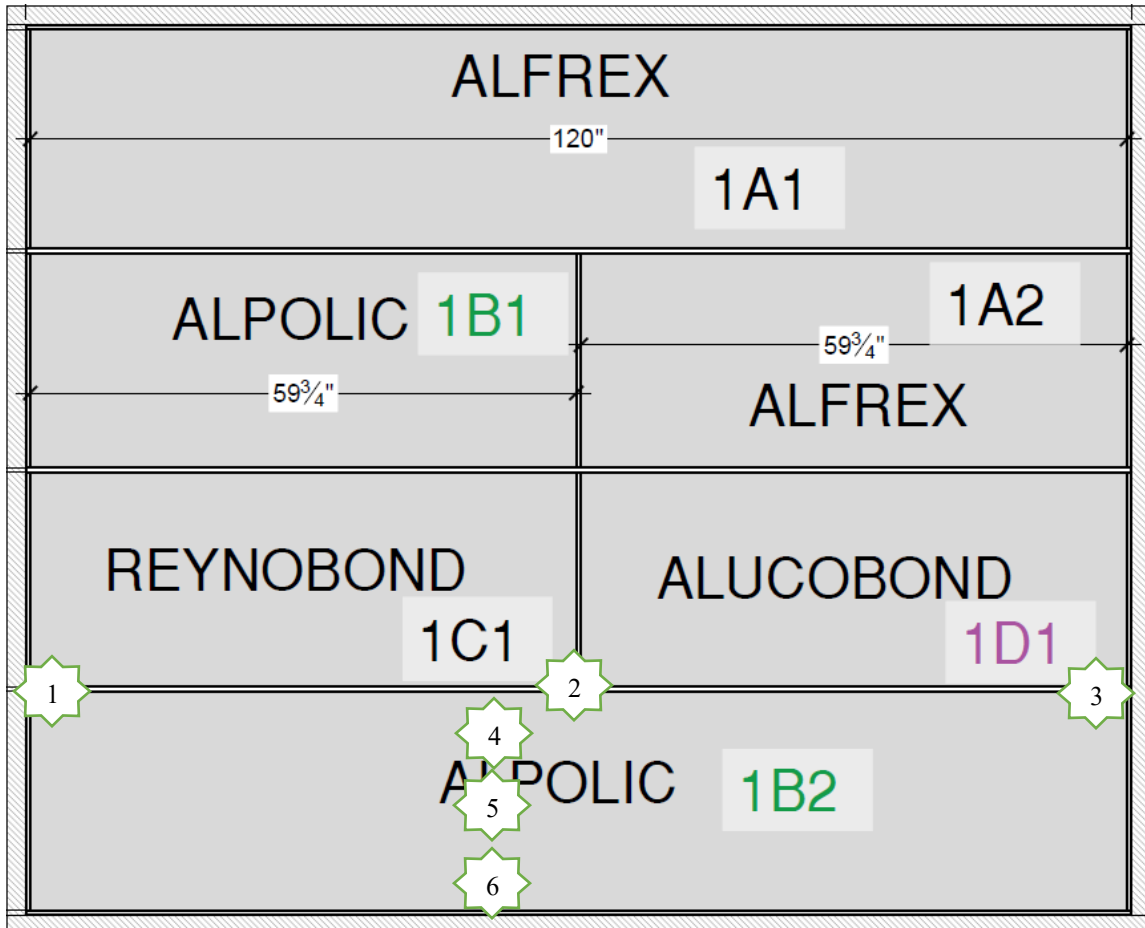
Sketch No. 1

A200-2 TAS 202 & 203 Indicator Locations

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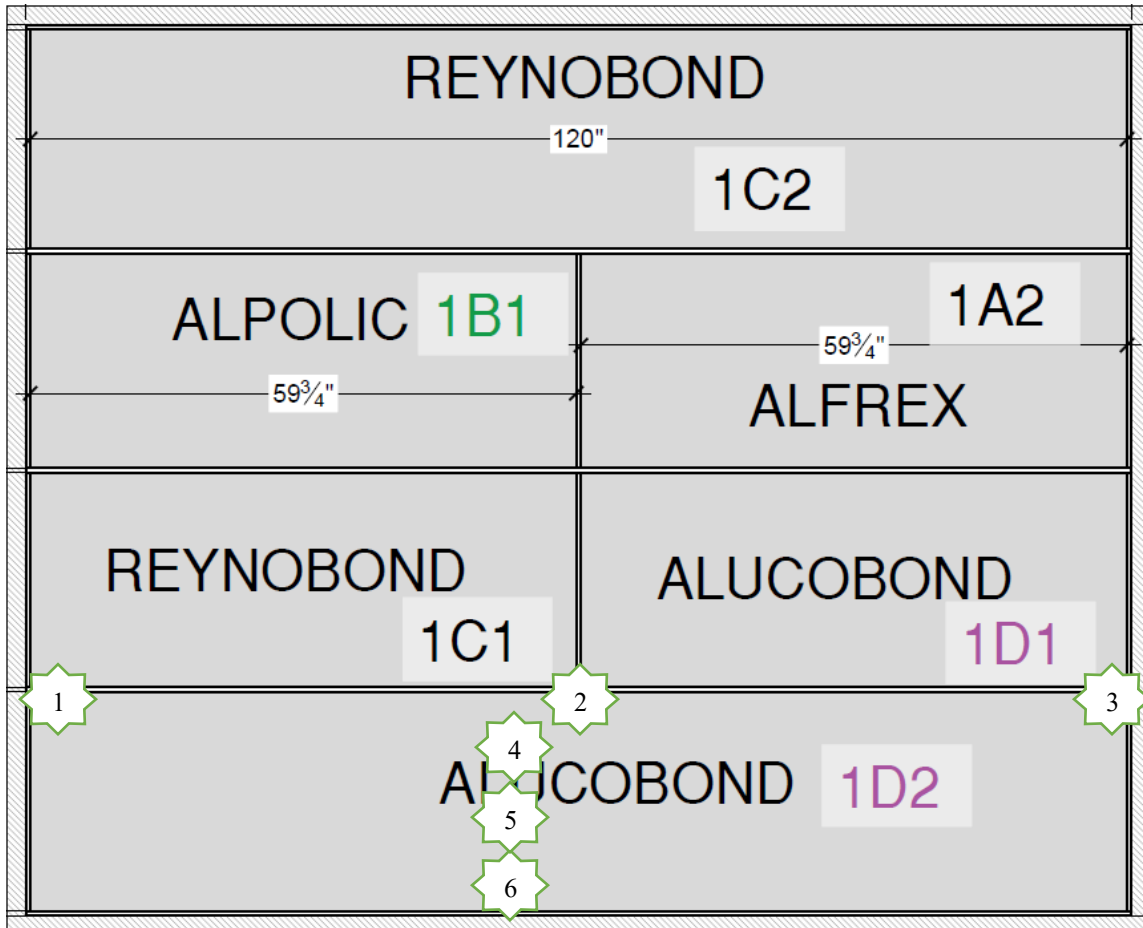


Sketch No. 2
C200-1 TAS 202 & 203 Indicator Locations

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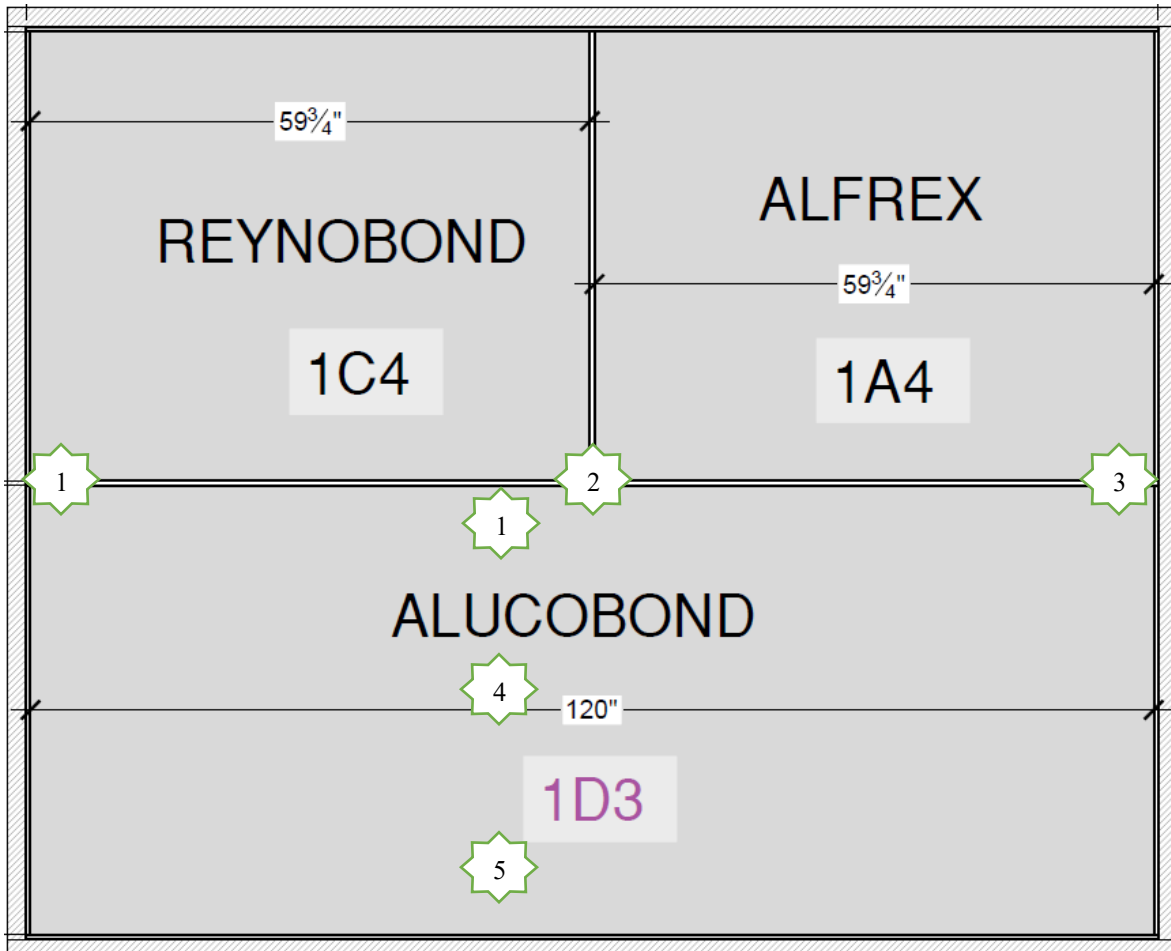


Sketch No. 3
C200-2 TAS 202 & 203 Indicator Locations

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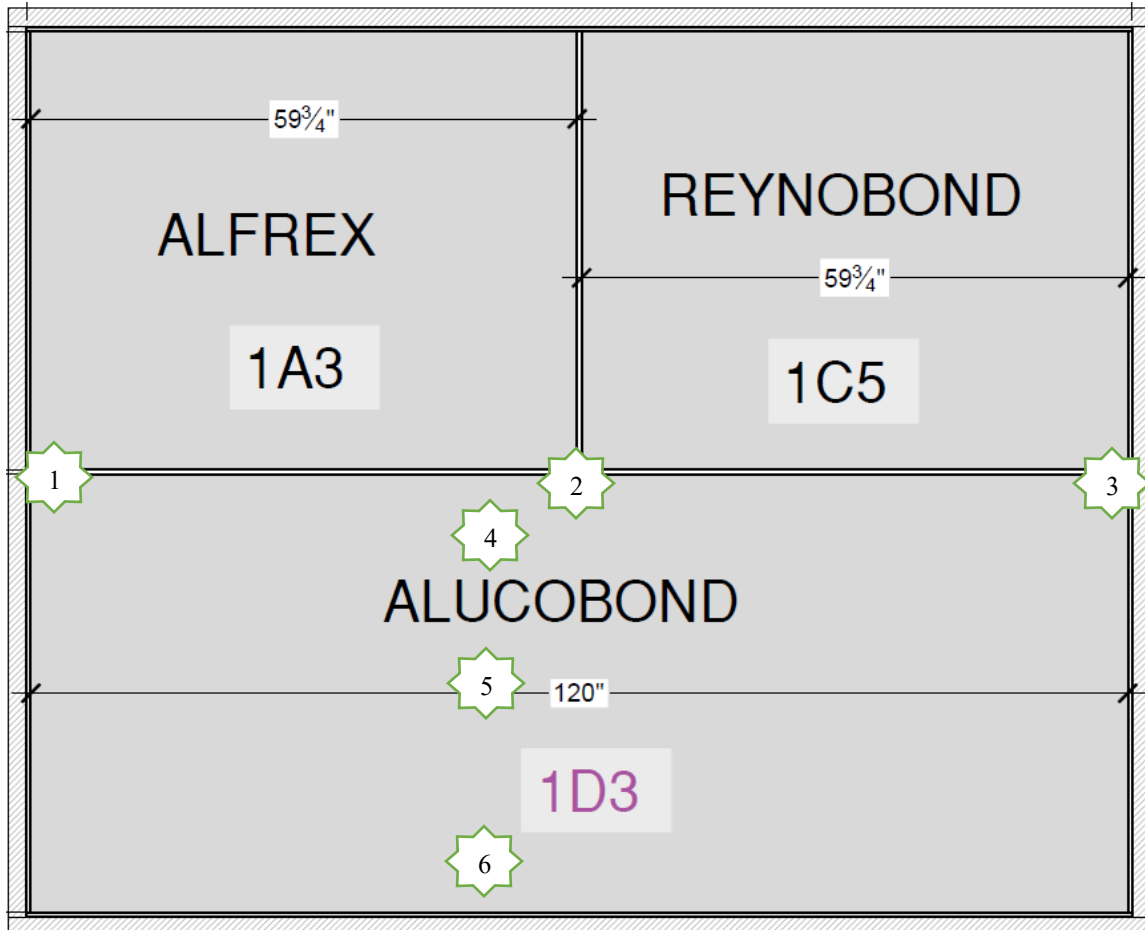


Sketch No. 4
B200-2 TAS 202 & 203 Indicator Locations

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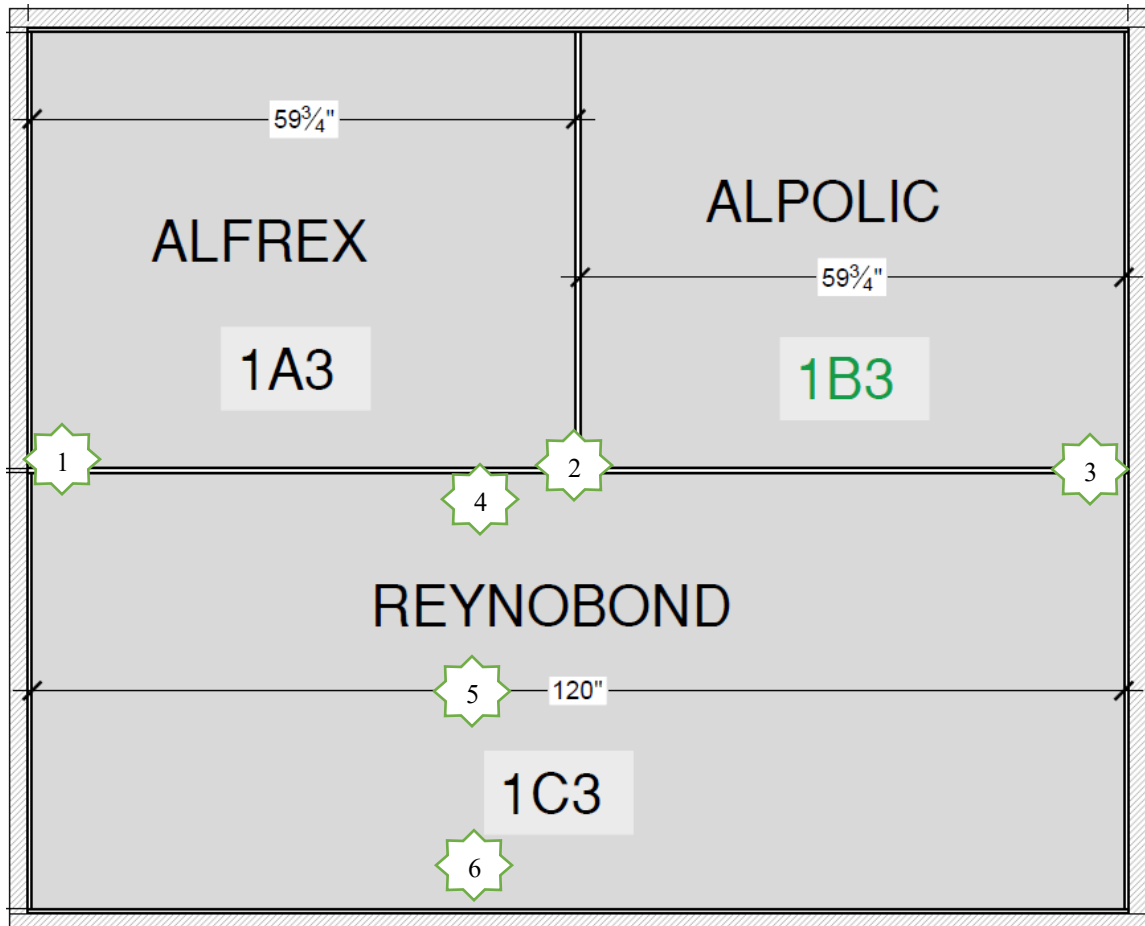


Sketch No. 5
D200-1 TAS 202 & 203 Indicator Locations

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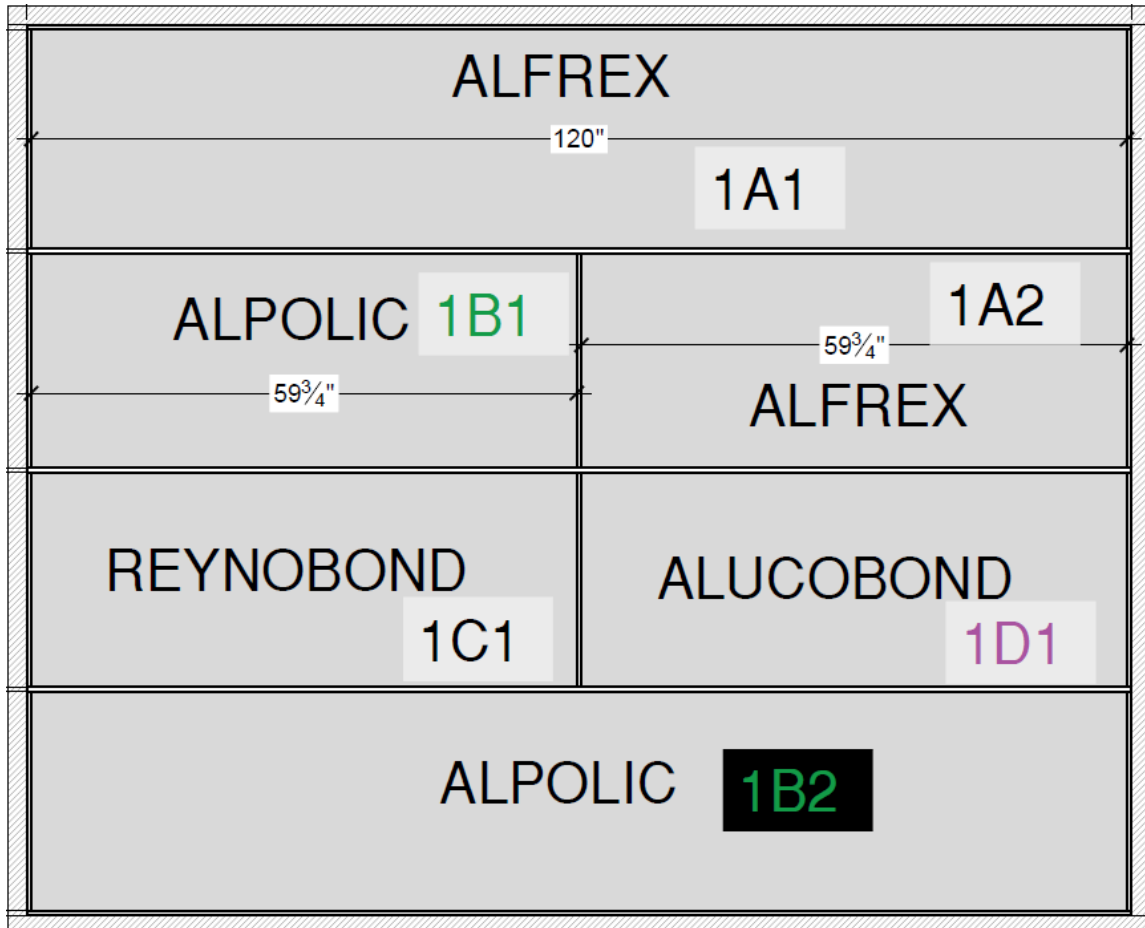


Sketch No. 6
D200-2 TAS 202 & 203 Indicator Locations

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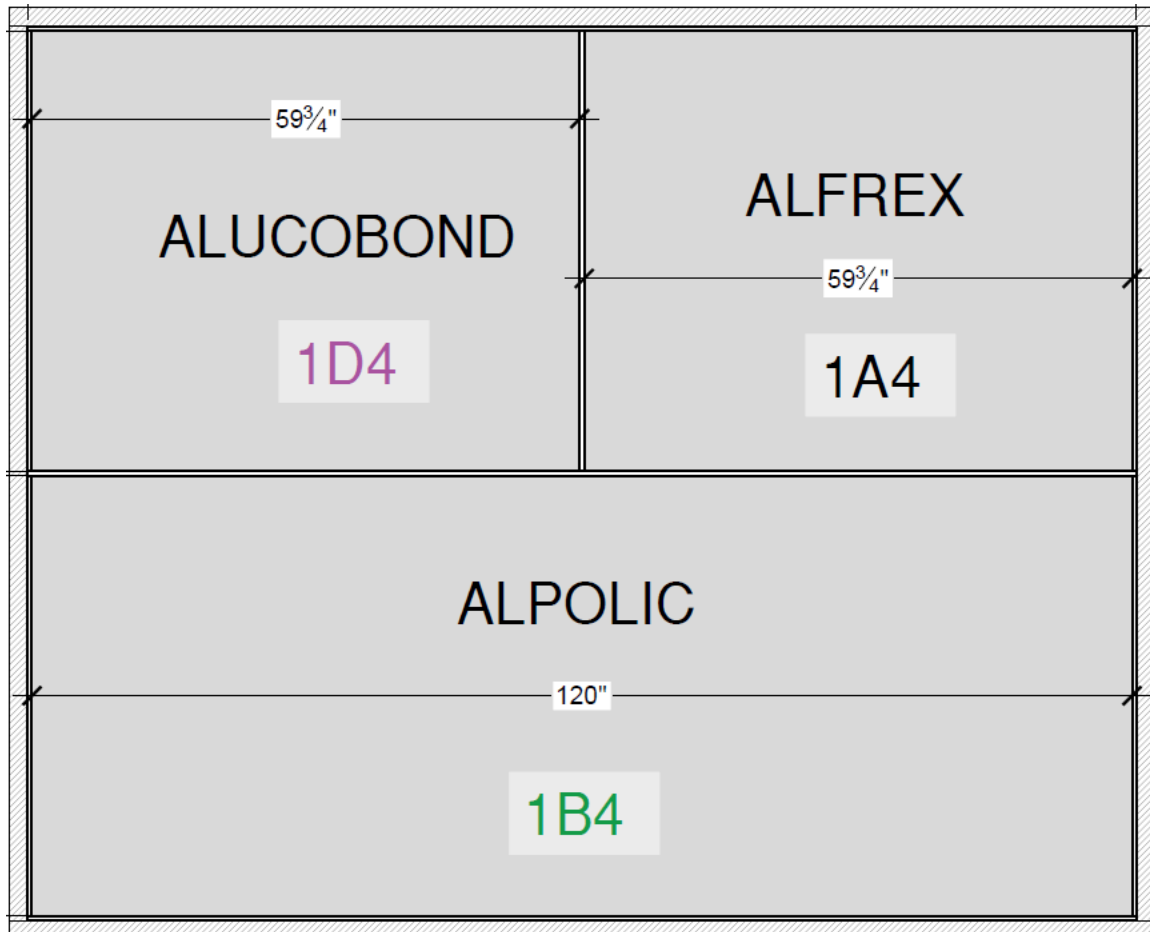


Sketch No. 7
A200-1

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Sketch No. 8
B200-1

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SECTION 12

TENSILE TEST RESULTS

The test specimens were evaluated in accordance with the most recent revision of ASTM E8, *Standard Test Methods for Tensile Testing of Metallic Materials*. The tensile coupons were machined from the metal members to the dimensions of the sheet-type 0.5" wide specimen given in Figure 1 of ASTM E8. Elongation was measured at fracture.

Test Method:	ASTM E8/E8M-21			
Orientation:	Longitudinal			
Specimen No.	Yield Strength @ 0.2% Offset (psi)	Yield Point Elongation (%)	Tensile Strength (psi)	Elongation in 2" (%)
1	32537.93	0.42	32547.52	11.0
2	32973.63	0.84	33012.53	10.0
3	33798.94	1.13	33808.90	11.0
Average	33103.50	0.80	33122.98	10.67

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SECTION 13

PHOTOGRAPH



Photo No. 1
TAS 202 & 203 Testing



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1909 10th Street, Suite 100
Plano, Texas 75074

Telephone: 469-814-0687
www.intertek.com/building

SECTION 14

DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

Note: *Complete drawings packet on file with Intertek B&C.*



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1909 10th Street, Suite 100
Plano, Texas 75074

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www.intertek.com/building

SECTION 15

REVISION LOG

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