



LETTER REPORT

Date | 2023-05-12
Report Number | 0093-14-1
Client | Easy Trim Reveals
Address | 101-4441 76th Ave SE, Calgary, AB T2C 2G8

SUBJECT

Summary conclusion and application of test results derived from ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*, completed for Easy Trim's QuickPanel Systems.

TEST SUMMARY

Five (5) representative wall assemblies have been tested for Transverse Load – Negative Wind Load in accordance with ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*, at EasyTrim Reveals in Calgary, Alberta. Tests were witnessed by Chris Bowness, P.E. of Boca Engineering Co.

Product Description

QuickPanel Systems are aluminum composite panels with panel anchoring, serving as an exterior wall covering. The composite panel is nominally 4mm in thickness, composed of an inside and outside skin of nominal 0.5mm thick aluminum sheets bonded to a nominal 3mm thickness inner core of polyethylene with mineral (magnesium hydroxide) fire-retardant, and available in lengths of 10 ft.

Table 1: Test Assembly Configurations for QuickPanel

Test Series	Configuration	Stiffener Fixing	Framing	Fastener	Sheathing
QP-1	Horiz. stiffener @ 12" O.C. fastened to framing	Screw through stud, tape and silicon to panel	6" x 1(5/8)" 18 GA 50 ksi steel stud @16" o/c w/ solid blocking @ midspan	2-#10-12 x 1(1/2)" screw @ each stud, 12" o/c vertical, 3m double-sided tape and Dowsil 995 silicon at panel	1/2" exterior gypsum
QP-5	Horiz. stiffener @ 36" O.C. fastened to framing	Screw through stud, tape and silicon to panel	6" x 1(5/8)" 18 GA 50 ksi steel stud @16" o/c w/ solid blocking @ midspan	Backplate w/ 2 #10-12 x 1(1/2)" screw @ each stud, Dowsil 995 silicon and 3m double-sided tape at panel	1/2" exterior gypsum
QP-7	Horiz. stiffener @ 12"	Tape and silicon to panel	6" x 1(5/8)" 18 GA 50 ksi steel stud @16" o/c	Dowsil 995 silicon and 3m double-sided tape	1/2" exterior gypsum
QP-11	Horiz. stiffener @ 36" O.C. straight	Tape and silicon to panel	6" x 1(5/8)" 18 GA 50 ksi steel stud @16" o/c w/ solid blocking at midspan	Dowsil 995 silicon, 3m double-sided tape	1/2" exterior gypsum

-Table continued on the following page-



QP-13	Vert. stiffener @ 16" O.C. fastened to framing	Screw through stud, tape and silicon to panel	6" x 1(5/8)" 18 GA 50 ksi steel stud @16" o/c w/ solid blocking @ midspan	1-#10-12 x 1(1/2)" screw @ 16" o/c along stud through backplate, 3m double sided tape, Dowsil 995 silicon attaching E207 to panel	1/2" exterior gypsum
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Table 2: Testing Results

Test	Max Load (psf)	Allowable Design Load (psf) ³	Allowable Deflection Service Load (psf) ¹	Allowable Deflection ^{1,5} at Deflection Service Load				PASS/FAIL
				L/180 Limit (in.)	Measured Deflection (in.) ²	L/60 Limit (in.)	Measured Deflection (in.) ²	
				Wall		Panel		
QP-1	153.0	76.5	53.6	0.533	0.1023	0.267	0.0486	PASS
QP-5	90.7	45.4	31.7	0.533	0.0709	0.600	0.3444	PASS
QP-7	120.2	60.1	42.1	0.533	0	1.600	1.6142	FAIL
QP-11	120.7	60.4	42.2	0.533	0	1.600	1.2567	PASS
QP-13	90.2	45.1	31.6	0.533	0.0458	0.267	0.0653	PASS

1. Allowable Deflection Service Load is equal to Allowable Design Load multiplied by 0.7
2. A linear trendline was created for each data set and used to calculate the wall/panel deflection at the Allowable Deflection Service Load of the test series.
3. Allowable Design Load is equal to the test assembly's Maximum Load divided by two (2).
4. Measured wall deflection removed due to sensor failure.
5. Span (L) is the distance between anchorage points of the element being considered.

Table 3: Adjusted Allowable Design Load

Test	Allowable Deflection at Deflection Service Load, L/60 Limit (in.)	Adjusted Allowable Deflection Service Load (psf) ¹	Adjusted Allowable Design Load (psf) ¹
QP-7	1.600	41.5	59.2

1. Allowable design load has been calculated by finding from the test data trend line based on deflection limit.

CONCLUSION

This test report includes five (5) representative wall assemblies that have been tested for Transverse Load – Negative Wind Load in accordance with the criteria of ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*.

BOCA Engineering Co, recommends further testing to be completed on these exterior wall assemblies.

The testing results in Table 2 have been evaluated by engineering design methodology in general accordance with ASCE7-22 and Table 1 has been prepared in a format with design information that is based on the IBC and NBCC Codes. The results are intended to be for informational purposes at this time and not suitable for distribution or use for code compliance or building design.



Signed

This report has been prepared and reviewed on behalf of BOCA by:

Nico Nordal

Chris Bowness, P.Eng., P.E.



2023/05/15

Date

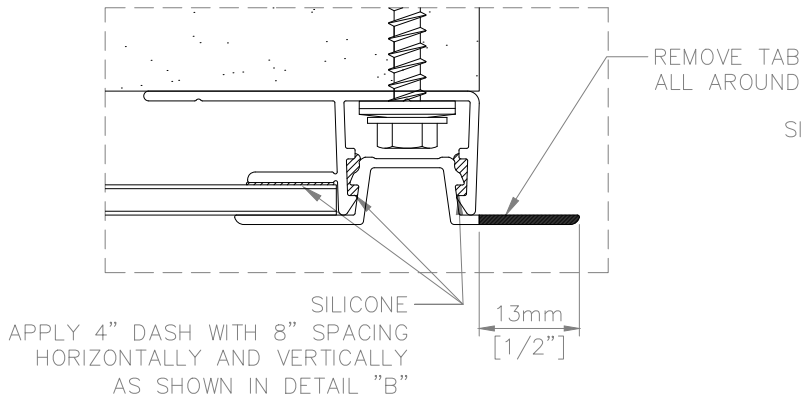
2023-05-15

Date

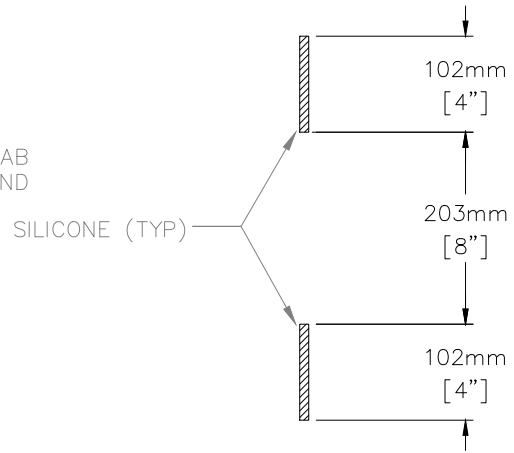
ATTACHMENTS:

- 1. Test Assembly Drawings _____ Pg. 4 – 9
- 2. QP-1 Test Results _____ Pg. 10 – 11
- 3. QP-5 Test Results _____ Pg. 12 – 13
- 4. QP-7 Test Results _____ Pg. 14 – 15
- 5. QP-11 Test Results _____ Pg. 16 – 17
- 6. QP-13 Test Results _____ Pg. 18 – 19

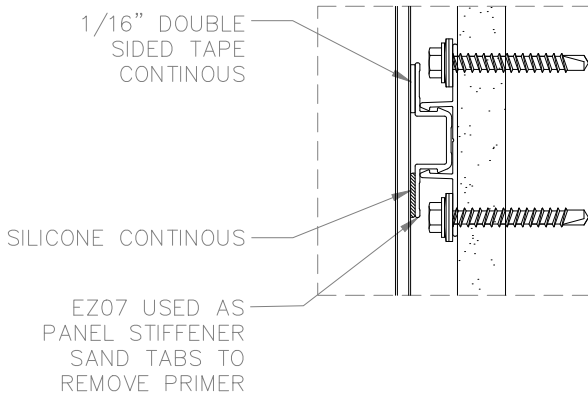
QP TEST DETAILS



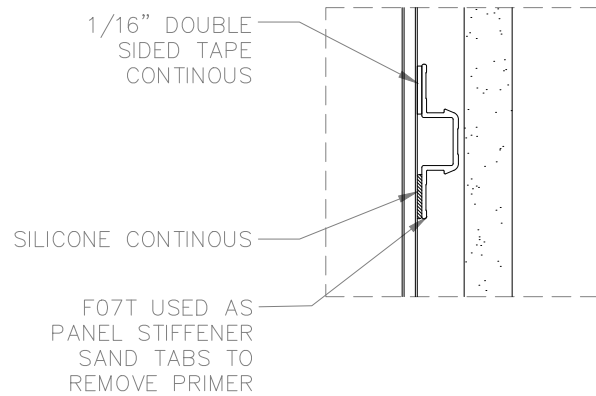
A QP FAB & SILICONE
Scale: NTS



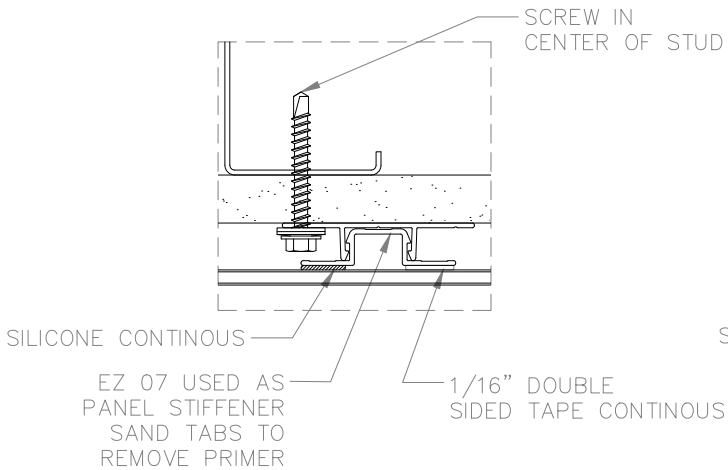
B QP SILICONE
Scale: NTS



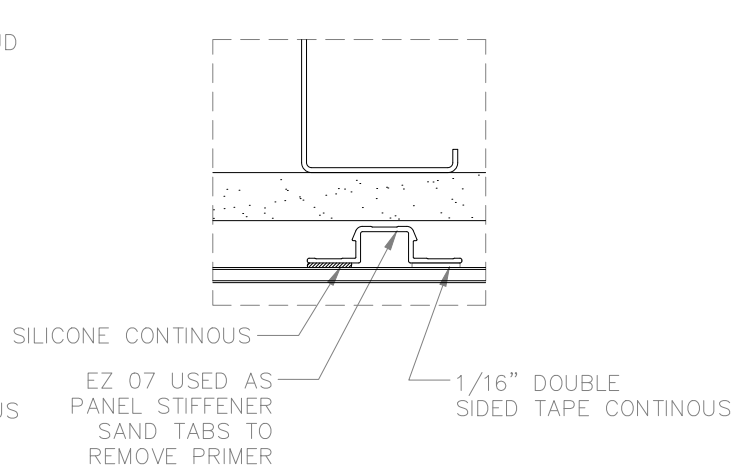
C EZ07 HORIZONTAL STIFFENER
Scale: NTS



D F07T HORIZONTAL STIFFENER
Scale: NTS



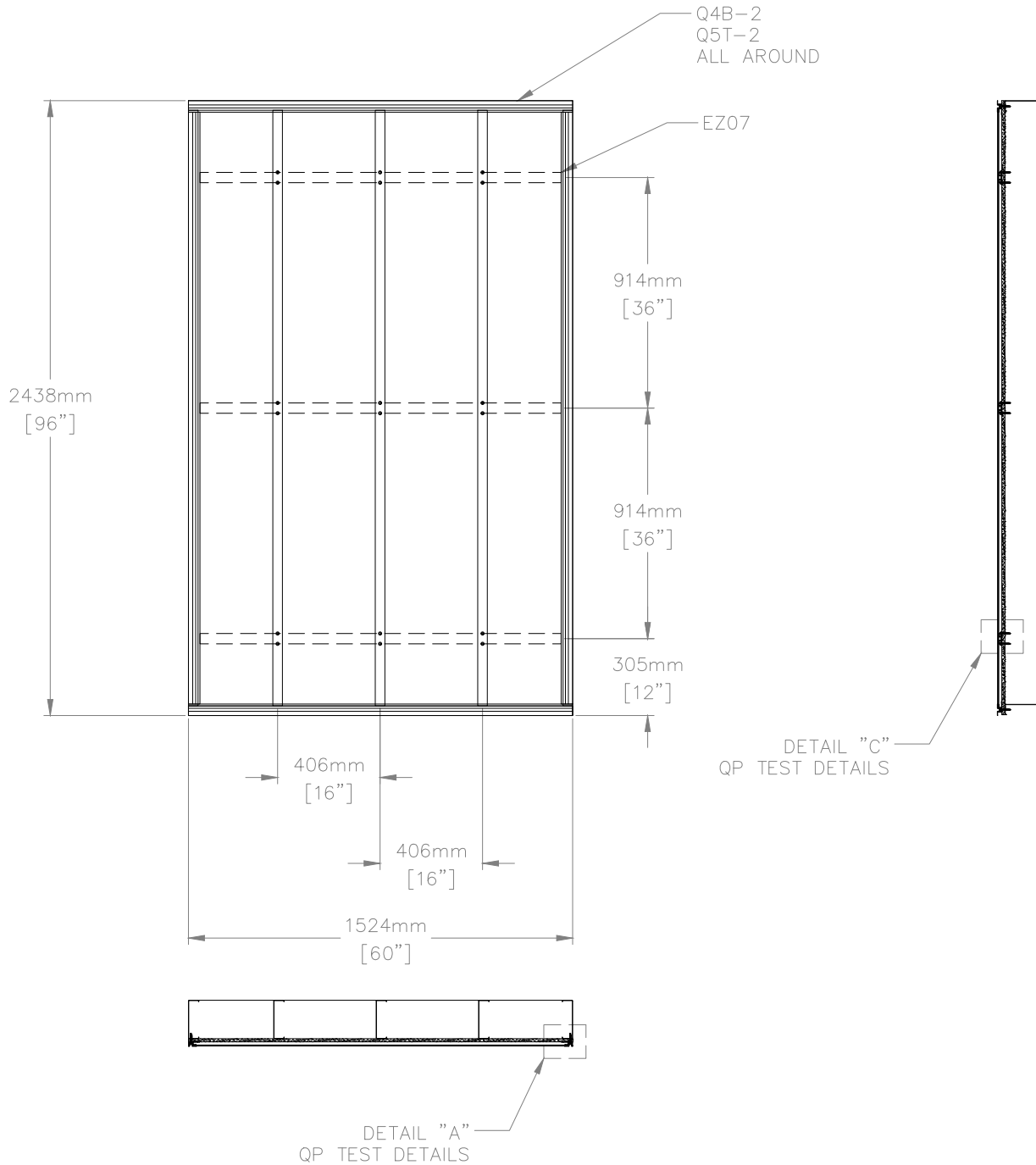
E EZ07 STIFFENER @ STUD
Scale: NTS



F F07T STIFFENER @ STUD
Scale: NTS

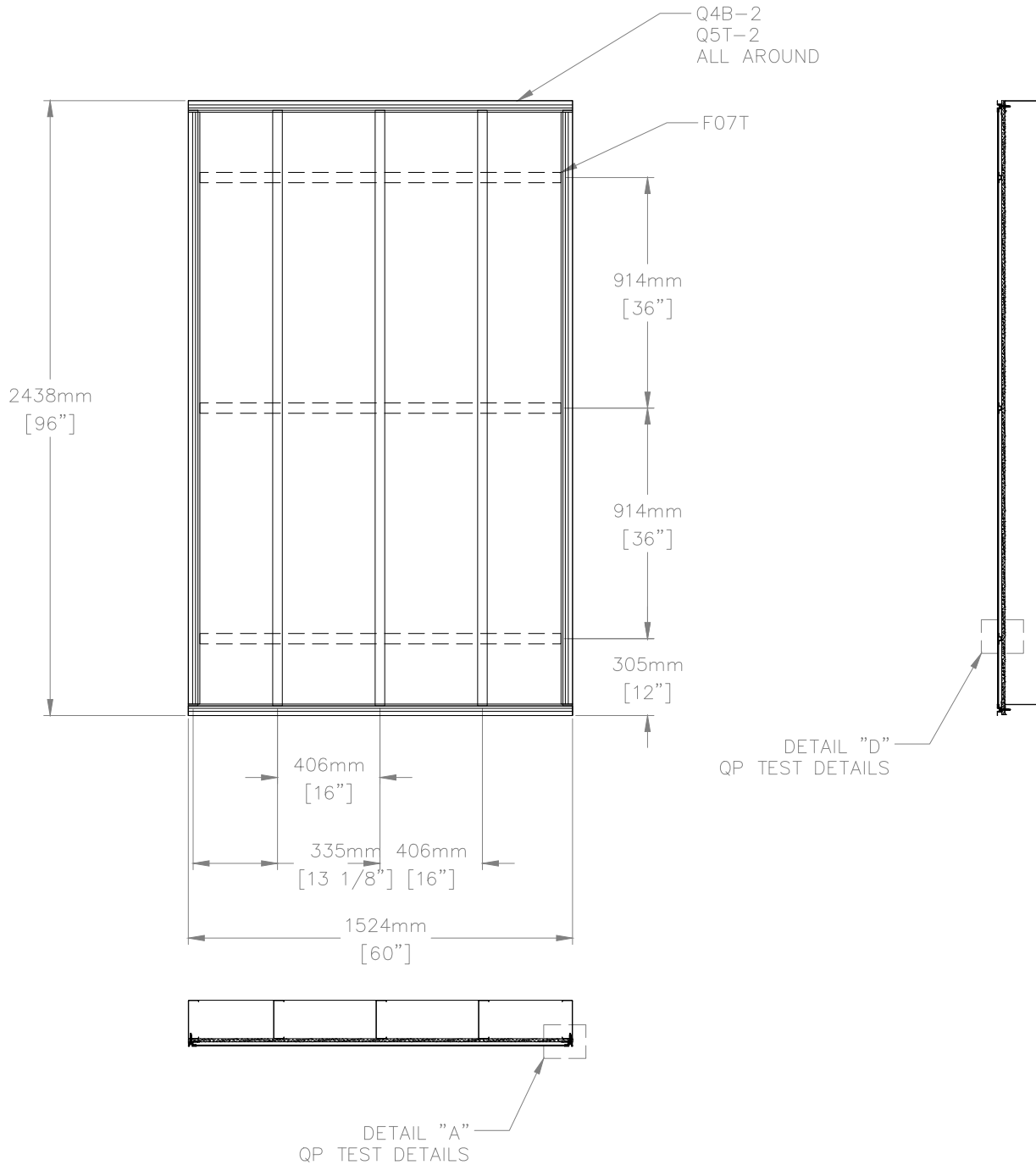
SILICONE TO BE DOWSIL 995
SILICONE STRUCTURAL SEALANT

QP5 TEST WALL



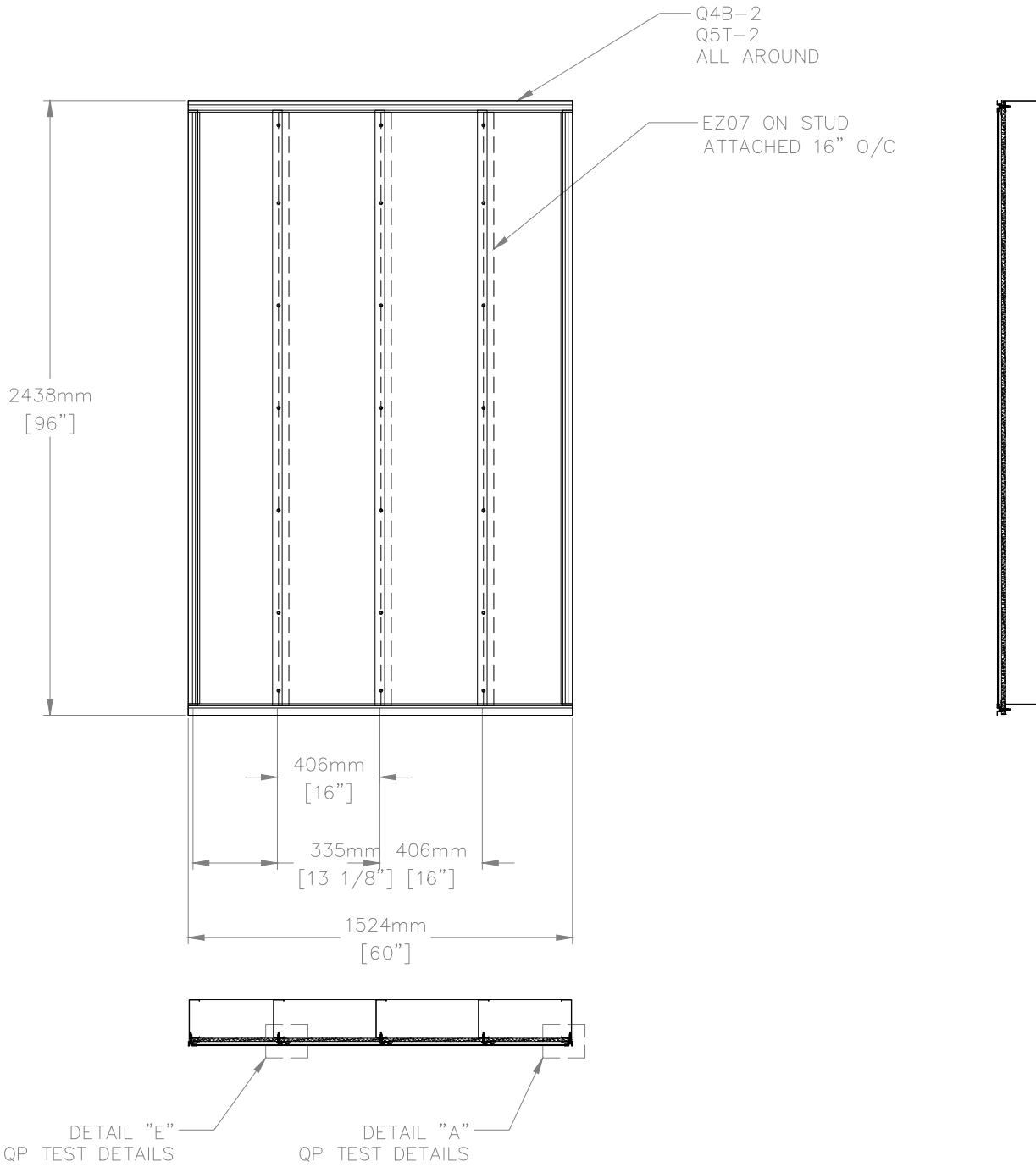
ONE MOCK-UP REQUIRED
 2x6 18 Ga. STEEL STUDS W/ 1/2" DENSGLOSS
 #10-12 X 1-1/2" HWH SELF DRILLING SCREWS C/W
 EDPM WASHER
 EZ07 PANEL STIFFENERS @ 36" O/C HORIZONTALLY
 (STARTING @ CENTER)

QP11 TEST WALL



ONE MOCK-UP REQUIRED
 2x6 18 Ga. STEEL STUDS W/ 1/2" DENSGLOSS
 #10-12 X 1-1/2" HWH SELF DRILLING SCREWS C/W
 EDPM WASHER
 F07T PANEL STIFFENERS @ 36" O/C HORIZONTALLY
 (STARTING @ CENTER)

QP13 TEST WALL

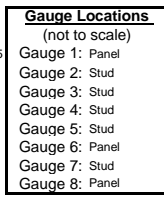


ONE MOCK-UP REQUIRED
 2x6 18 Ga. STEEL STUDS W/ 1/2" DENSGLASS
 #10-12 X 1-1/2" HWH SELF DRILLING SCREWS C/W
 EDPM WASHER
 EZ07 PANEL STIFFENERS @ 16" O/C VERTICALLY

Test: **Transverse Load - Negative Wind Load** Test#: **QP-1**
 Client: FastPlank - 101-4441 76th Ave SE, Calgary, AB T2C 2G8
 Date: 14-Apr-23
 Product: **Quick Panel**
 Test Method(s): ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

Project#: 0093
 Technician(s): Jordan
 Reviewer: C. Bowness
 Location: 101-4441 76 Ave. SE Calgary AB T2C2G8

Installation:
 Configuration: Horizontal stiffener @ 12" o/c with screw attached backplate, silicon
 Framing: 5" * 1(5/8)" 18 GA 50 ksi steel stud @ 16" o/c
 Fastener: 2-#10-12 * 1(1/2)" screw @ each stud, 12" o/c vertical, 3m double-sided tape, dowsil 995
 Sheathing: 1/2" exterior gyp
 Air Seal: Tape used to air seal plank gaps, tape will not influence test results



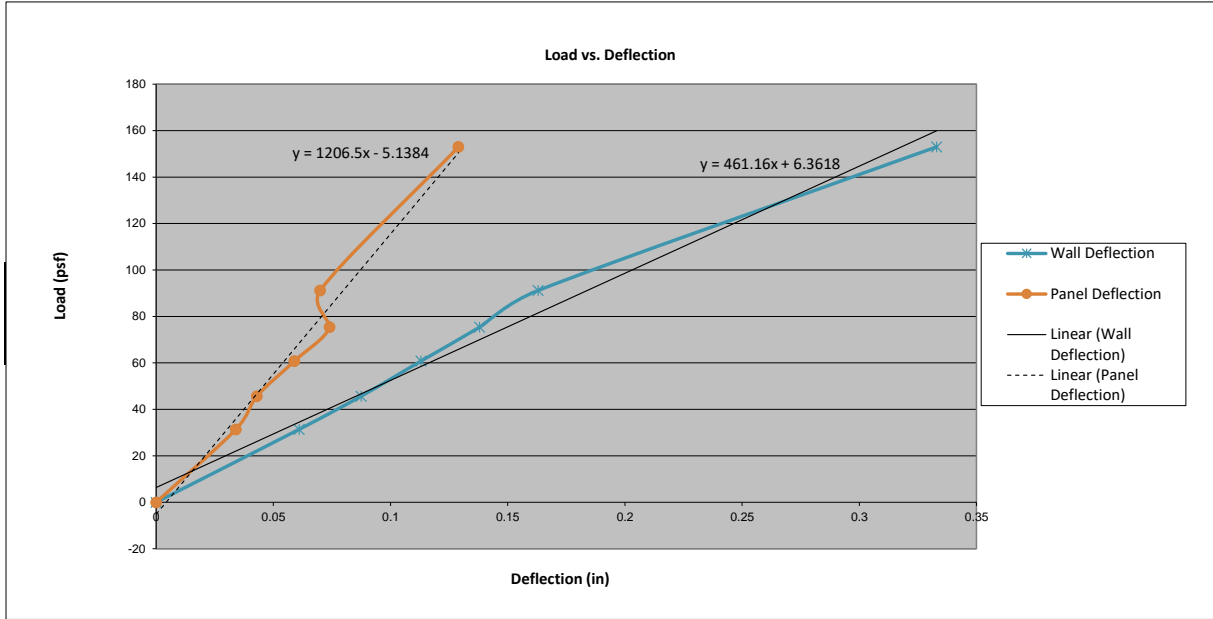
Equipment:
 Pressure Chamber Deflection Gauges/ Phidget potentiometers
 Motor: Greenco s/n XB810-7AH27 Sensor 1: GALT s/n 20160504
 Press. Controller: s/n G205141344 Sensor 2: GALT s/n 20160504
 Pressure Sensors: Sensor 3: GALT s/n 20160504
 +/- 2 kPa: p/n 1136 Sensor 4: GALT s/n 20160504
 +/- 7 kPa: p/n 1137 Sensor 5: GALT s/n 20160504
 50 kPa: p/n 1138 Sensor 6: GALT s/n 20160504
 Phidget: s/n 628179 Sensor 7: GALT s/n 20160504
 Sensor 8: GALT s/n 20160504

	Description	Taken [✓]
Photo 1:	Before test, back of wall	✓
Photo 2:	Before test, front of wall	✓
Photo 3:	After test, back of wall	
Photo 4:	After test, front of wall	
Photo 5:		

Time/Temp/RH:		
Start:	10:37 AM	Temp: 18.5 °C
Finish:	11:38 AM	%RH 19 %RH

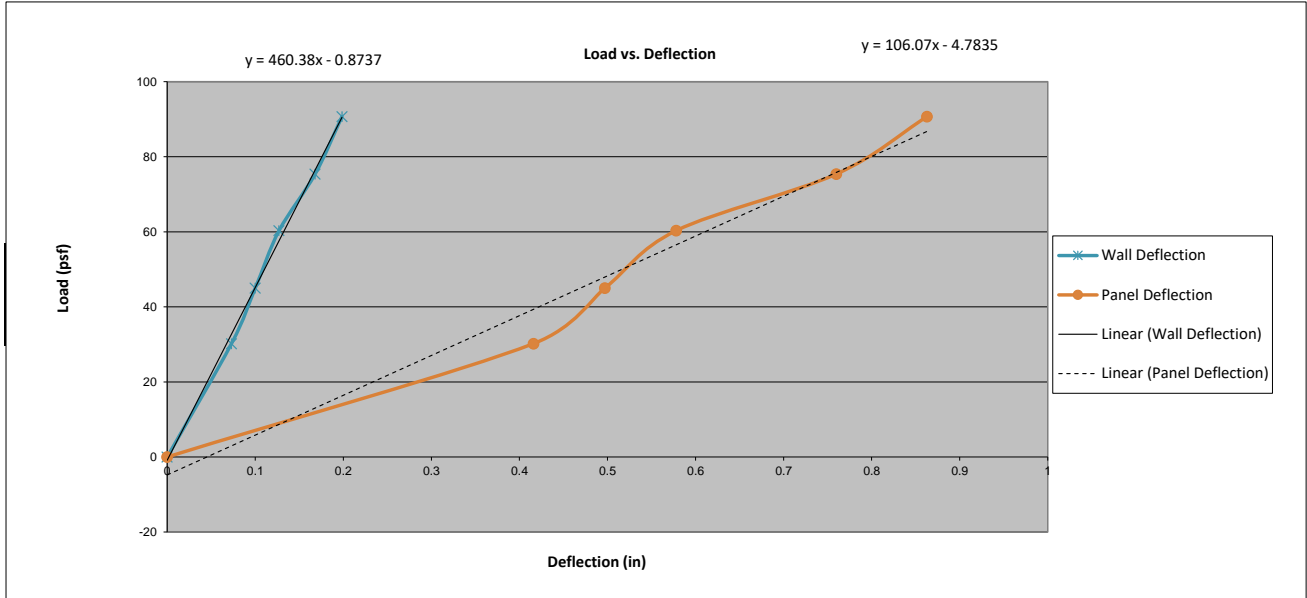
Test Assembly											
Width (in)		Length (in)				Panel Anchorage Spacing (in)					
60.0		96.0				16					
Target Load (psf)	Actual Load (psf)	Time	Gauge 1 (in.)	Gauge 2 (in.)	Gauge 3 (in.)	Gauge 4 (in.)	Gauge 5 (in.)	Gauge 6 (in.)	Gauge 7 (in.)	Gauge 8 (in.)	Observations
0	0.0	immed.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
15	15.1	10 sec.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
0	0.0	1-5mins	Zero Deflection Gauges								
30	31.4	10 sec.	0.150	0.119	0.041	0.075	0.116	0.125	0.094	0.044	
0	0.0	1-5mins	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
45	45.7	10 sec.	0.210	0.166	0.066	0.091	0.167	0.185	0.135	0.053	
0	0.0	1-5mins	0.016	0.009	0.016	0.009	0.009	0.019	0.009	0.013	
60	60.8	10 sec.	0.266	0.216	0.081	0.125	0.207	0.241	0.175	0.069	
0	0.0	1-5mins	0.034	0.019	0.016	0.016	0.016	0.022	0.019	0.022	
75	75.4	10 sec.	0.332	0.266	0.106	0.150	0.258	0.298	0.225	0.085	
0	0.0	1-5mins	0.034	0.028	0.025	0.016	0.025	0.025	0.025	0.019	
90	91.2	10 sec.	0.388	0.316	0.131	0.175	0.318	0.360	0.266	0.085	
0	0.0	1-5mins	0.047	0.044	0.031	0.025	0.035	0.034	0.025	0.022	
105	104.1	10 sec.	0.501	0.401	0.172	0.215	0.409	0.448	0.322	0.135	
0	0.0	1-5mins	0.047	0.044	0.031	0.025	0.035	0.034	0.025	0.022	
120	153.0	10 sec.	0.698	0.573	0.240	0.240	0.569	0.645	0.435	0.213	
0	0.0	1-5mins									
135	0.0	10 sec.									
0	0.0	1-5mins									
150	0.0	10 sec.									
0	0.0	1-5mins									
165	0.0	10 sec.									
0	0.0	1-5mins									
180	0.0	10 sec.									
0	0.0	1-5mins									
195	0.0	10 sec.									
0	0.0	1-5mins									
210	0.0	10 sec.									
0	0.0	1-5mins									
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0	0.0	1-5mins									
0	0.0	10 sec.									
0	0.0	1-5mins									
0	0.0	10 sec.									

Test#:	QP-1	
Max Load	153.0	psf
Allowable Design Load = Max Load / 2	76.5	psf
Deflection Service Load = Allowable * 0.7	53.6	psf
Wall Deflection limit = L / 180 of wall height	0.533	in
Panel Deflection limit = L / 60 of panel anchorage spacing	0.267	in
Wall Deflection @ Deflection Service Load	0.1023	in
Panel Deflection @ Deflection Service Load	0.0486	in



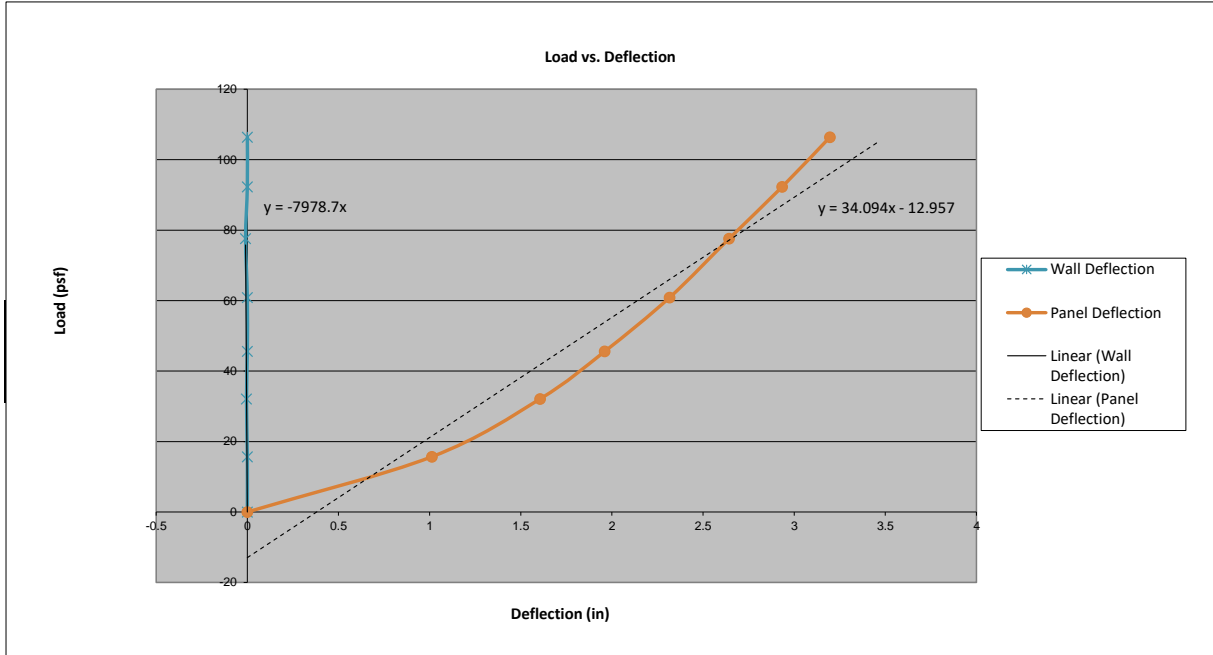
Target Load (psf)	Wall Deflection (= ga 2 - ga 3 + ga 4)/2 (in)	Panel Deflection (= ga 6 - ga 5) (in)
0	0.0000	0.000
0		
31	0.0610	0.034
0	0.0000	0.000
46	0.0875	0.043
0	-0.0035	0.007
61	0.1130	0.059
0	0.0030	0.018
75	0.1380	0.074
0	0.0075	0.009
91	0.1630	0.070
0	0.0160	0.012
104	0.2075	0.092
0	0.0160	0.012
153	0.3330	0.129

Test#:	QP-5	
Max Load	90.7	psf
Allowable Design Load = Max Load / 2	45.4	psf
Deflection Service Load = Allowable * 0.7	31.7	psf
Wall Deflection limit = L / 180 of wall height	0.533	in
Panel Deflection limit = L / 60 of panel anchorage spacing	0.600	in
Wall Deflection @ Deflection Service Load	0.0709	in
Panel Deflection @ Deflection Service Load	0.3444	in



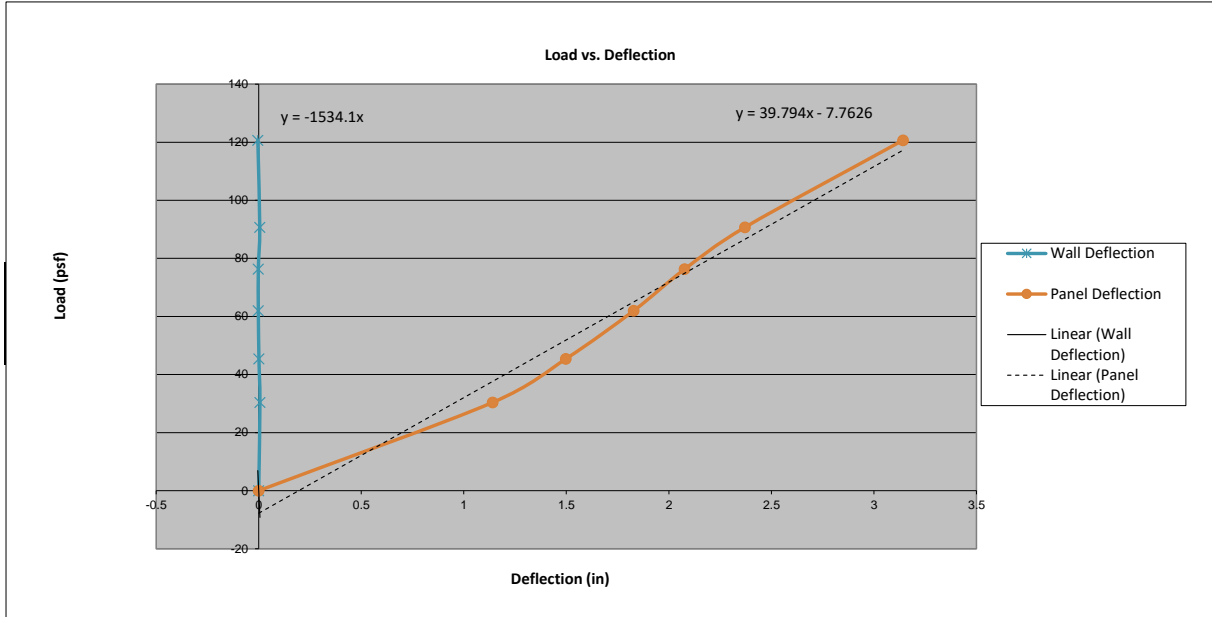
Target Load (psf)	Wall Deflection (= ga 2 - (ga 3 + ga 4)/2) (in)	Panel Deflection (= ga 6 - ga 5) (in)
0	0.0000	0.000
0	0.0000	0.000
30	0.0730	0.416
0	0.0000	0.000
45	0.1000	0.497
0	0.0033	0.027
60	0.1270	0.578
0	0.0065	0.053
75	0.1680	0.760
0	0.0250	0.119
91	0.1985	0.863
0	0.0200	0.150

Test#:	QP-7	
Max Load	120.2	psf
Allowable Design Load = Max Load / 2	60.1	psf
Deflection Service Load = Allowable * 0.7	42.1	psf
Wall Deflection limit = L / 180 of wall height	0.533	in
Panel Deflection limit = L / 60 of panel anchorage spacing	1.600	in
Wall Deflection @ Deflection Service Load	-0.0053	in
Panel Deflection @ Deflection Service Load	1.6142	in



Target Load (psf)	Wall Deflection (= ga 2 - ga 3 + ga 4)/2 (in)	Panel Deflection (= ga 6 - ga 5) (in)
0	0.0000	0.000
0		
16	0.0060	1.141
0	0.0090	0.016
32	0.0010	1.498
0	0.0100	0.032
46	-0.0020	1.829
0	0.0100	0.050
61	-0.0020	2.077
0	0.0100	0.106
78	0.0050	2.371
0	0.0030	0.257
92	0.0005	2.697
0	0.0000	0.596
106	-0.0045	3.142
0	0.0090	1.143
120	-0.0080	3.458
0	0.0000	0.450

Test#:	QP-11	
Max Load	120.7	psf
Allowable Design Load = Max Load / 2	60.4	psf
Deflection Service Load = Allowable * 0.7	42.2	psf
Wall Deflection limit = L / 180 of wall height	0.533	in
Panel Deflection limit = L / 60 of panel anchorage spacing	1.600	in
Wall Deflection @ Deflection Service Load	-0.0275	in
Panel Deflection @ Deflection Service Load	1.2567	in

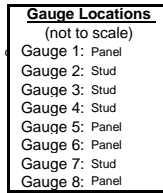


Target Load (psf)	Wall Deflection (= ga 2 - (ga 3 + ga 4)/2) (in)	Panel Deflection (= ga 6 - ga 5) (in)
0	0.0000	0.000
0		
30	0.0060	1.141
0	0.0090	0.016
45	0.0010	1.498
0	0.0100	0.032
62	-0.0020	1.829
0	0.0100	0.050
76	-0.0020	2.077
0	0.0100	0.106
91	0.0050	2.371
0	0.0030	0.257
106	0.0005	2.697
0	0.0000	0.596
121	-0.0045	3.142
0	0.0090	1.143

Test: **Transverse Load - Negative Wind Load** Test#: **QP-13**
 Client: FastPlank - 101-4441 76th Ave SE, Calgary, AB T2C 2G8
 Date: 13-Apr-23
 Product: **Quick Panel**
 Test Method(s): ASTM E330/E330M-14, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

Project#: 0093
 Technician(s): Jordan
 Reviewer: C. Bowness
 Location: 101-4441 76 Ave. SE Calgary AB T2C2G8

Installation:
 Configuration: Vertical stiffener @ 16" o/c w/ mechanically attached backplate / silicon, Alucoil 4mm AM
 Framing: 6" * 1(5/8)" 18 GA 50 ksi steel stud @ 16" o/c w/ solid backing
 Fastener: 1-#10-12 * 1(1/2)" screw @ 16" o/c along stud through backplate, 3m double sided tape,
 Sheathing: 1/2" exterior gypsum
 Air Seal: Tape used to air seal plank gaps, tape will not influence test results



Equipment:
 Pressure Chamber
 Motor: Greenco s/n XB810-7AH27
 Press. Controller: s/n G205141344
 Pressure Sensors:
 +/- 2 kPa: p/n 1136
 +/- 7 kPa: p/n 1137
 50 kPa: p/n 1138
 Phidget: s/n 628179

Deflection Gauges/ Phidget potentiometers)
 Sensor 1: GALT s/n 20160504
 Sensor 2: GALT s/n 20160504
 Sensor 3: GALT s/n 20160504
 Sensor 4: GALT s/n 20160504
 Sensor 5: GALT s/n 20160504
 Sensor 6: GALT s/n 20160504
 Sensor 7: GALT s/n 20160504
 Sensor 8: GALT s/n 20160504

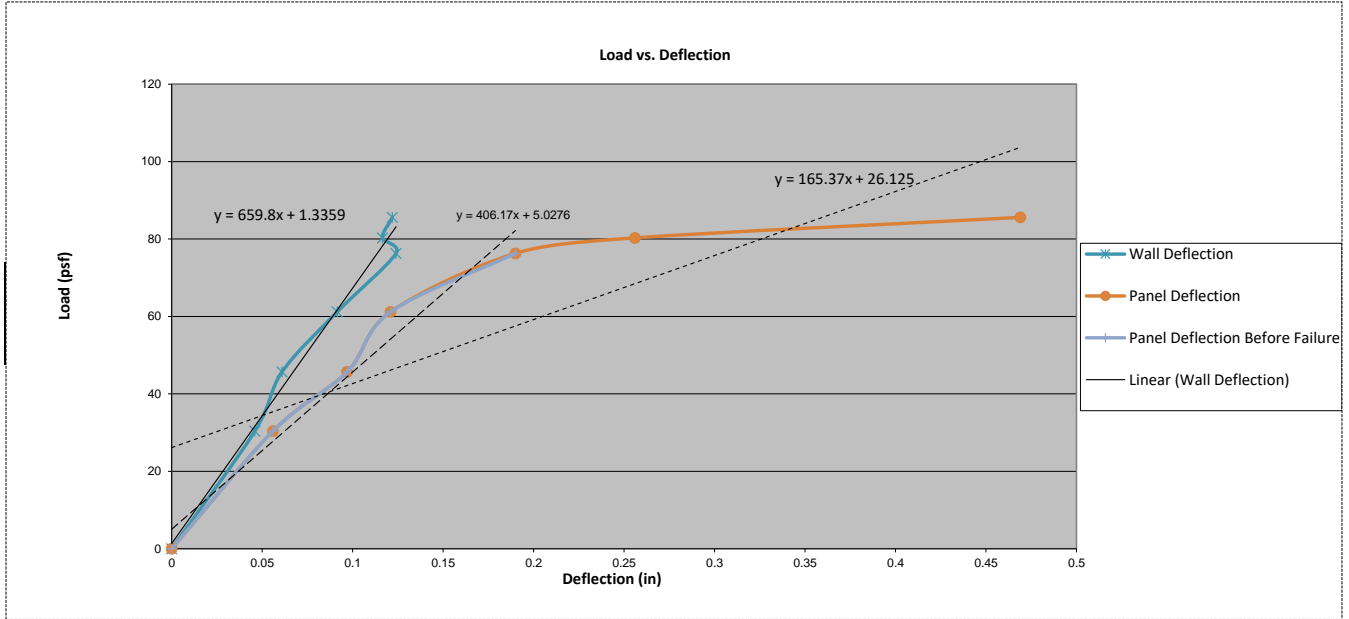
	Description	Taken [✓]
Photo 1:	Before test, back of wall	✓
Photo 2:	Before test, front of wall	✓
Photo 3:	After test, back of wall	✓
Photo 4:	After test, front of wall	✓
Photo 5:		

Time/Temp/RH:		
Start:	10:05 AM	Temp: 18.7 °C
Finish:	11:00 AM	%RH 19 %RH

Test Assembly		
Width (in)	Length (in)	Panel Anchorage Spacing (in)
60.0	96.0	16

Target Load (psf)	Actual Load (psf)	Time	Gauge 1 (in.)	Gauge 2 (in.)	Gauge 3 (in.)	Gauge 4 (in.)	Gauge 5 (in.)	Gauge 6 (in.)	Gauge 7 (in.)	Gauge 8 (in.)	Observations
0	0.0	immed.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
15	15.5	10 sec.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
0	0.0	1-5mins									
30	30.4	10 sec.	0.135	0.091	0.031	0.059	0.125	0.147	0.075	0.022	
0	0.0	1-5mins	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
45	45.7	10 sec.	0.207	0.131	0.056	0.084	0.251	0.228	0.110	0.047	
0	0.0	1-5mins	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
60	61.2	10 sec.	0.272	0.182	0.081	0.100	0.383	0.303	0.160	0.097	
0	0.0	1-5mins	0.034	0.016	0.016	0.099	0.025	0.019	0.019	0.006	
75	76.3	10 sec.	0.370	0.232	0.100	0.116	0.696	0.422	0.210	0.160	1
0	0.0	1-5mins	0.094	0.025	0.016	0.016	0.157	0.097	0.019	0.009	
80	80.3	10 sec.	0.482	0.232	0.106	0.125	0.863	0.488	0.216	0.194	1
0	0.0	1-5mins	0.172	0.025	0.019	0.019	0.156	0.025	0.025	0.016	
85	85.6	10 sec.	0.554	0.247	0.125	0.125	1.064	0.716	0.241	0.254	2
0	0.0	1-5mins	0.279	0.022	0.025	0.016	0.235	0.256	0.025	0.019	
90	90.2	10 sec.	0.767	0.257	0.131	0.125	1.202				3
0	0.0	1-5mins									
135		10 sec.									
0	0.0	1-5mins									
150		10 sec.									
0	0.0	1-5mins									
165		10 sec.									
0	0.0	1-5mins									
180		10 sec.									
0	0.0	1-5mins									
195		10 sec.									
0	0.0	1-5mins									
210		10 sec.									
0	0.0	1-5mins									
0	0.0	10 sec.									
0	0.0	1-5mins									
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0	0.0	1-5mins									
0	0.0	10 sec.									
0	0.0	1-5mins									

Test#:	QP-13	
Max Load	90.2	psf
Allowable Design Load = Max Load / 2	45.1	psf
Deflection Service Load = Allowable * 0.7	31.6	psf
Wall Deflection limit = L / 180 of wall height	0.533	in
Panel Deflection limit = L / 60 of panel anchorage span	0.267	in
Wall Deflection @ Deflection Service Load	0.0458	in
Panel Deflection @ Deflection Service Load	0.0653	in



Target Load (psf)	Wall Deflection (= ga 2 - (ga 3 + ga 4)/2) (in)	Panel Deflection (= ga 6 - ga 5) (in)
0	0.0000	0.000
0		
30	0.0460	0.056
0	0.0000	0.000
46	0.0610	0.097
0	0.0000	0.000
61	0.0915	0.121
0	-0.0415	0.003
76	0.1240	0.190
0	0.0090	0.072
80	0.1165	0.256
0	0.0060	0.000
86	0.1220	0.469
0	0.0015	0.234
90	0.1290	-0.257