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BLACKWATER TECHNICAL SERVICES INC.

7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413 Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



Client:

JIREH FAÇADE DESIGN LLC 15665 SE 89TH TER SUMMERFIELD, FL 34491

Product Description: 7100 GLASS RAILING

Test Dates: Start:10/31/2024 End:11/01/2024

<u>Witness to Testing</u>: Mike Caldwell, P.E. Test Engineer, BT President Austin Hartwick, BT Lead Lab Technician

Testing Summary

Wind Loads TAS 202-94: Mock Up 1 was subjected to static wind loads in accordance with TAS 202-94. Mock Up 1 successfully completed the wind loads to verify a Design Load of +/-100.00 PSF.

Concentrated Loads: Mock Up 1 was subjected to concentrated loads of 400lb. Mock Up 1 passed testing criteria.

Distributed Loads: Mock Up 1 was subjected to distributed loads of 100 lb/ft. Mock Up 1 passed testing criteria.

Large Missile Impacts TAS 201-94: Mock Up 1 passed TAS 201-94 Large Missile Impact Testing.

Drop Ball Test ANSI Z97.1: Mock Up 1 was subjected to impacts per ANSI Z97.1 drop ball test. Mock Up 1 passed testing criteria.

Concentrated Loads: Mock Up 1 was subjected to concentrated loads of 200lb. Mock Up 1 passed testing criteria.

Distributed Loads: Mock Up 1 was subjected to distributed loads of 50lb/ft. Mock Up 1 passed testing criteria.

Wind Loads TAS 202-94: Mock Up 1 was subjected to static wind loads in accordance with TAS 202-94. Mock Up 1 successfully completed the pass/fail wind loads to verify a Design Load of +/-100.00 PSF.

<u>CONCLUSION</u>: Following testing Mock Up 1 was disassembled. No failures were observed in the panes, posts, fastenings, or anchorages. The "7100 GLASS RAILING" product was tested in accordance with and meets the requirements to comply with Florida Building Code 2023.

Revision 1 - Update client name from Werzalik to Jireh Facade Design LLC.





This item has been digitally signed and sealed by Michael Caldwell, PE, on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Mike Caldwell, President

Disclaimer: This is a general statement and does not supersede the specific product descriptions in this report. The specimens are in conformance with drawings provided by the manufacturer. These drawings have been marked to indicate the appropriate portions descriptive of this test series. Blackwater Technical Services, Inc., does not take responsibility of product performance and whose only purpose is to test and gather pertinent data under test report format for the client.

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Specimen Elevations:



Mock Up 1

Overall Size:

Mock Up 1: 217" W by 46- 5/16"H

Glass width:

Mock Up 1: 3X 71- 3/4" W by 43- 5/8"H

Test Sequence:

Mock Up 1

- 1. Concentrated Loads @400lbs
- 2. Distributed Loads @ 100lb/ft
- 3. TAS 202 @ +/-50.00 PSF
- 4. TAS 202 @ +/-100.00 PSF
- 5. TAS 202 @ +/-200.00 PSF
- 6. ANSI Z97.1 @ 48" Drop Height
- 7. TAS 201(L.M.I)
- 8. Distributed Loads @ 50lb/ft
- Distributed Loads @ 5010/11
 Concentrated Loads @ 200 lb
- 10. TAS 202 PASS/FAIL +/- 100.00 PSF
- Railing mounting substrate:

Mock Up 1

Base shoe was anchored down with ½"x5-1/2" Stainless steel hex head screw bolts into 3000 psi concrete. 4-1/4" min embed, 3-3/8" min edge dist.

Glazing Composition :

(G1)- 7/8" Laminated Glass

- 3/8" Clear Fully Tempered Glass
- 0.060" Interlayer SGP BY KURARAY
- 3/8" Clear Fully Tempered Glass

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Construction and Glass Bite:

- Screw anchored extruded aluminum base shoe with glass mechanically fastened (screw/shim) to base shoe.
- 3 ¹/₂" glass bite into Base Shoe
- Extruded aluminum railing cap

Anchoring Details for Mock Up 1

• A base shoe was anchored into the concrete 6" from the edge then every 12" O.C.



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Test Results



	ST ATIC		AQUEET	,	High	Low	T=89°F					
	SIATIC	LUAD DATA	ASHEEL		100	100	7					
					Р	ositive Pressu	re					
			1	A	1	В		С])	1	E
Load Factor	Load psf	Load Inch Water	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)
0.5DP	50	9.62	0.750	0.000	0.813	0.000	0.625	0.000	0.750	0.000	0.625	0.000
DP	100	19.23	1.313	0.063	1.313	0.063	1.063	0.063	1.313	0.063	1.063	0.063
2DP	200	38.46	3.625	0.125	3.625	0.125	3.375 0.125 3.625 0.125			0.125	3.375	0.125
					N	egative Pressu	re					
			1	A	1	В	3 C		D		1	E
Load Factor	Load psf	Load Inch Water	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)	Defl (in.)	Permanent Set (in.)
0.5DP	50	9.62	0.875	0.125	0.875	0.125	0.688	0.000	0.875	0.125	0.688	0.063
DP	100	19.23	1.500	0.125	1.500	0.125	1.125	0.125	1.500	0.125	1.125	0.125
2DP	200	38.46	3.875	0.125	3.875	0.125	3.500	0.125	3.875	0.125	3.500	0.125

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Load (lb/ft)	100	Safety Fac	tor= 2	Dire	ction		
Total Load			lb	Z	(perpendic	ular to glas	s)
			Gauge Lo	cation			
	4		3	(2	[)
	Permanent Set	Deflection	Permanent	Deflection	Permanent	Deflection	Permanent
Deflection (In.)	(In.)	(In.)	Set (In.)	(In.)	Set (In.)	(In.)	Set (In.)
0.375	0.063	0.250	0.063	0.375	0.063	0.000	0.000



|--|

Concentrated Load (#1)									
Load (lb)	400	Safety Fac	tor= 2	Dire	ction				
Total Load	4(00	lb	Z	(perpendic	ular to glas	s)		
	Gauge Location								
A	l		В	(0		D		
- 6 ()	Permanent	Deflection	Permanent	Deflection	Permanent	Deflection	Permanent		
Deflection (In.) Set (In.) (In.) Set (In.)			(In.)	Set (In.)	(In.)	Set (In.)			
0.500	0.500 0.063 0.313 0.063 N/A				N/A	N/A	N/A		

Concentrated Load (#2)									
Load (lb)									
Total Load	40	00	lb	Z	(perpendic	ular to glas	s)		
	Gauge Location								
A	۱.		В	(C	[)		
Permanent Deflection Permanent				Deflection	Permanent	Deflection	Permanent		
Deflection (In.) Set (In.) (In.) Set (In.)				(In.)	Set (In.)	(In.)	Set (In.)		
N/A	A N/A N/A N/A 0.500 0.063					N/A	N/A		

Concentrated Load (#3)								
Load (lb)	400	Safety Fac	tor= 2	Dire	ction			
Total Load	40	00	lb	Z	(perpendic	ular to glas	s)	
	Gauge Location							
A	l l		В	(С	l)	
	Permanent	Deflection	Permanent	Deflection	Permanent	Deflection	Permanent	
Deflection (In.) Set (In.) (In.) Set (In.)				(In.)	Set (In.)	(In.)	Set (In.)	
N/A	N/A	N/A	N/A	N/A	N/A	0.250	0.063	

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ANSI Impact Locations

Sample	Target	Area	Loca	tion	Results
			X (in.)	Y (in.)	
Sp1	1	Center Glass	36	23	PASS
SP1	2	Center Glass	107	23	PASS
Sp1	3	Center Glass	178	23	PASS
	-			-	-



X Large Missile Impact Locations

Specimen 1

LARGE MISSILE IMPACT DATA SHEET											
Ambient Temperature	T=76°F	L	Location Keyence Results								
	Shot	Area	X (in.)	Y (in.)	ft/s	Pass/Fail					
	1	CENTER	36	22	50.00	pass					
	2	CORNER	10	10	50.00	pass					
	3	CENTER	107	22	50.00	pass					
	4 CORNER 131 36 50.00 pass										
	5	CENTER	178	22	50.00	pass					
	6	CORNER	200	10	50.00	pass					
Notoo:											

Notes:

1. Large Missile Velocity 50 ft/s Measurements taken from bottom left corner.

2. Impacted with a 9.05 lb., 96 "long, S4S, 2x4, of No. 2 Southern Pine lumber.

3. Impact location is given on Cartesian Grid, right (x) and up (y) from lower left hand corner.

4. The location description is relative to the product assembly i.e. Corner, Center, and Left Center.

5. Impact velocity measured with a Keyence KV-16DR, verified by the video method.

STATIC LOAD DATA SHEET			High	Low	T=88°F				
	SIMIN	E LOND DITIN	SHEET	100	100				
				F	Positive Pressu	re			
Load Factor	Load psf	Load Inch Water		Pass/Fail					
DP	100	19.23				Pass			
				Ν	Jegative Pressu	re			
Load Factor	Load psf	Load Inch Water	Pass/Fail						
DP	100	19.23				Pass			

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Distributed Load (#1)							
Load (lb/ft) 50 Safety Factor= 1 Direction							
Total Load		lb	Z (perpendicu	ılar to glass)			
	Pass/Fail						
	Pass						



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Concentrated Load (#1)										
Load (lb) 200 Safety Factor= 1 Direction										
Total Load	20	00	lb		Z (perpendic	ular to glass)				
			Pass/	/Fail						
			Pas	SS						

Concentrated Load (#2)										
Load (lb) 200 Safety Factor= 1 Direction										
Total Load	20	00	lb		Z (perpendic	ular to glass)				
			Pass/	/Fail						
			Pas	ss						

	Concentrated Load (#3)									
Load (lb) 200 Safety Factor= 1 Direction										
Total Load	20	00	lb	Z (perp	pendic	ular to glass)				
			Pass/	'Fail						
			Pas	SS						

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SERIES 7100 GLASS RAILI TESTING DRAWINGS MOCKUP

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WERZALIK, LLC

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\bigcirc	2	WK7100-02	FEMALE POST	6005-T5
\mathbb{Z}	3	WK7100-03	SHOE	6005-T5
	4	WK7100-04	EXTERIOR COVER	6063-T5
\triangleleft	5	WK7100-05	INTERIOR COVER	6063-T5
	6	WK7000-06	CAP RAILING	6063-T5
()	7	WK-G700	GASKET	EPDM
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