



MIAMI-DADE COUNTY PERFORMANCE TEST REPORT

Report No.: E8390.03-301-18

Rendered to: FLEETWOOD WINDOWS AND DOORS Corona, California

PRODUCT TYPE: Sliding Door **SERIES/MODEL**: 3070-T Corner Door/Pocket Door

This report contains in its entirety:

Cover Page:1 pageReport Body:14 pagesSketch:1 pageDrawings:12 pages

Test Start Date:	07/16/15
Test End Date:	11/11/15
Report Date:	02/03/16
Revision 4 Date:	07/25/16
Test Record Retention End Date:	11/11/25
Miami-Dade County Notification No.:	ATI CA15003





1.0 Client Identification:

.1 Report Issued To: Fleetwood Windows & Doors		
	1 Fleetwood Way	
	Corona, California 92879	
1.2 Contact Person :	Joe Zammit	

2.0 Laboratory Identification:

2.1	Test Laboratory :	Architectural Testing, Inc.,
		an Intertek company ("Intertek-ATI")
		2524 East Jensen Avenue
		Fresno, California 93706
2.2	Phone Number:	(559) 233-8705

3.0 Project Summary:

3.1 Introduction: Intertek-ATI was contracted by Fleetwood Windows and Doors to conduct TAS 201, TAS 202, and TAS 203 testing in accordance with Florida Building Code for High Velocity Hurricane Zone and Miami-Dade County requirements. The two specimen(s) tested met the performance requirements set forth in the protocols. The results are summarized in Table 1.

Specimen #	Test Protocol	Design Pressure
1	TAS 202	+50 / -50 psf
2	TAS 201 / 203 (Large Missile)	+50 / -55 psf

Table 1: Summary of Test Results

- 3.2 Product Type: Sliding Door
- 3.3 Series/Model: 3070-T Corner Door/Pocket Door
- 3.4 Miami-Dade County Notification No.: ATI CA0003
- 3.5 Laboratory Certification No.: 12-0808.05
- **3.6 Test Date(s)**: 07/16/15 11/11/15
- **3.7 Test Record Retention End Date**: 11/11/25
- **3.8 Test Location**: Intertek-ATI test facility in Fresno, California.





3.0 Project Summary: (Continued)

- **3.9 Test Specimen Source**: The test specimen(s) were provided by the client. Representative samples of the test specimen(s) will be retained by Intertek-ATI for a minimum of ten years from the test completion date.
- **3.10 Drawing Reference**: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix B. Any deviations are documented herein and on the drawings.

3.11 List of Official Observers:

<u>Name</u>

Company

Nathan Baker	Fleetwood
Dennis Janzen	Intertek-ATI
Tyler Westerling	Intertek-ATI

4.0 Test Protocol(s):

TAS 201-94, Impact Test Procedures

TAS 202-94, Criteria for Testing Impact & Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure

TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading





5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area : 22.9 m^2 (242)	verall Area: Width		Height	
22.8 m (243 ft ²)	millimeters	inches	millimeters	inches
MAX Pocket wall size	4,572	180	3,048	120
MAX 90 Degree Corner wall size	4,572	180	3,048	120
MAX 135 Degree Corner wall size	3,048	120	3,048	120
MAX Panel size	1,588	62-1/16	2,997	118

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member	Material	Description
Sill	Thermally Broken Aluminum	Three piece sill
Sill pan	Aluminum	With a 3" tall interior leg
Sill filler	Aluminum	Snapped in place where panels do not slide
Jamb	Thermally Broken Aluminum	With snapped in jamb filler where panel is not engaged
Head	Thermally Broken Aluminum	With snapped in head filler where panel is not engaged

	Joinery Type	Detail
All corners	Butt	Sealed with silicone. Top corners fastened with one #10 x 2" Phillips head screw each. Bottom corners fastened with one #10 x 2". Two 1/4-20 x 1" Phillips head screws were fastened into each roller.





5.0 Test Specimen Description: (Continued)

5.3 Panel Construction:

Panel Member	Material	Description
A11	Thermally Broken	See drawings for details
7111	Aluminum	see drawings for details.

	Joinery Type	Detail
All corners	Butt	Sealed with silicone. Top corners fastened with two #8 x 3.5" Phillips head screw each. Bottom corners fastened with two #8 x 3.5" and two 1/4-20 x 1" Phillips head screw.

5.4 Weatherstripping:

Description	Quantity	Location
0.230 polypile with center fin	4	In sill contracting interior and exterior of each panel leg
0.230 polypile with center fin	2	In head contracting interior and exterior of panel face
0.290 Polypile with center fin	1	In each pocket interlock extrusion
0.230 polypile with center fin	2	In interior and exterior meeting stile locking extrusion.
0.290 polypile with center fin	1	In each interlock extrusion
Q-lon foam seal	1	In interior and exterior of jamb extrusion
Panel corner air barrier	1	At each exposed panel bottom and top corner.



5.0 Test Specimen Description: (Continued)

5.5 Glazing: No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.

Glass Type	Glazing	Glazing Method
IG	1/4" temp/air space/ lami (5/32" HS .090SGP 5/32: HS)	Channel glazed into frame. Dry glazed at all top and bottom rails and interlocks. Wet glazed at locking vertical stiles only

Location	Quantity	Daylight Opening		
Location	Quantity		inches	GIASS DILE
All Lights	8	1435 x 2845	56-1/2 x 112	5/8

5.6 Drainage:

Drainage Method	Size	Quantity	Location
Weep Notch	1" wide by 3/16" tall	6	6" from the end of each sill member

5.7 Hardware:

Description	Quantity	Location
	2 tandem	
Rollers, Tandem	rollers each	Bottom panel rail
	panel	
Archetype narrow Lock	2	Locking meeting panel
Archetype II lock	1	Locking meeting panel

5.8 Reinforcement:

Drawing Number	Location	Material
37	All small interlock hallows	Aluminum
38	All small interlock hallows	Aluminum

5.9 Screen Construction: No screen was utilized.





6.0 Installation:

The specimen was installed into a Pine wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the window was sealed with sealant. See drawing on sheet 8 of 12 for installation details.





7.0 Test Results: The temperature during TAS 202 testing was 65°F. Results are tabulated as follows:

7.1 Protocol TAS 202-94, Static Air Pressure

Table #1 provides the results for the air infiltration test.

Tuble #1. Test Specifien #1 115 202,111 minitation rest Results				
Test Pressure	Results			
Air Infiltration at 1.57 psf (25 mph)	0.15 cfm/ft ²			
Air Exfiltration at 1.57 psf (25 mph)	0.15 cfm/ft ²			

Table #1: Test Specimen #1 TAS 202, Air Infiltration Test Results

Table #2 provides the results for positive and negative uniform static load test at a duration of 30 seconds.

Load	Indicator	Deflection (in.)		Permanent	Set (in.)
(psf)	Location	Measured	Allowed	Measured	Allowed
	Interlock	1.24	N/A	0.01	N/A
+40.00	90 degree corner	0.33	N/A	0.01	N/A
Pressure	135 degree corner	0.38	N/A	0.00	N/A
	Interlock	1.80	N/A	0.00	N/A
+50.0	90 degree corner	0.38	N/A	0.03	N/A
Pressure	135 degree corner	0.52	N/A	0.00	N/A
	Interlock	1.18	N/A	0.01	N/A
-45.1	90 degree corner	0.12	N/A	0.00	N/A
Pressure	135 degree corner	0.29	N/A	0.01	N/A
	Interlock	1.36	N/A	0.02	N/A
-50.0 Design	90 degree corner	0.16	N/A	0.01	N/A
Pressure	135 degree corner	0.36	N/A	0.01	N/A

Table #2: Test Specimen #1 TAS 202, Preload and Design Load Test Results





7.0 Test Results: (Continued)

7.1 Protocol TAS 202-94, Static Air Pressure (Continued)

Table #3 provides the results for the water penetration test.

Title of Test	Pressure	Results
Water Penetration 3/4" Sill Pan <15% of Positive Design Pressure	0 psf	Pass
Water Penetration 1" Sill Pan <15% of Positive Design Pressure	1 psf	Pass
Water Penetration 1-1/2" Sill Pan <15% of Positive Design Pressure	3.13 psf	Pass
Water Penetration 1-3/4" Sill Pan <15% of Positive Design Pressure	4.59 psf	Pass
Water Penetration 2" Sill Pan <15% of Positive Design Pressure	6.06 psf	Pass
Water Penetration 2-3/4" Sill Pan >15% of Positive Design Pressure	9.19 psf	Pass

Table #3: Test Specimen #1 TAS 202, Water Penetration Test Results





7.0 Test Results: (Continued)

7.1 Protocol TAS 202-94, Static Air Pressure (Continued)

Table #4 provides the results for the structural overload test.

Load	Indicator	Deflection (in.)		Permanent	Set (in.)
(psf)	Location	Measured	Allowed	Measured	Allowed
	Interlock	2.01	N/A	0.02	0.48
+75.0 Test	90 degree corner	0.42	N/A	0.03	0.48
Pressure	135 degree corner	0.60	N/A	0.01	0.48
	Interlock	1.99	N/A	0.04	0.48
-75 Tost	90 degree corner	0.40	N/A	0.02	0.48
Pressure	135 degree corner	0.54	N/A	0.02	0.48

Table #4: Test Specimen #1 TAS 202, Structural Overload Test Results

Table #5 provides the results for the forced entry resistance test.

Table #E.	Toot Sn	agimon	#1 T	15 202	Forced	Entru	Toot	Docul	to
$fable \pi J$.	resusp	echnen	$\pi 1 1$	13 202,	rorceu	LIIUY	ICSU	nesui	ιs

Title of Test	Results	Allowed
Forced Entry Resistance	Dage	No Entry
in accordance with F842	Pass	NO EIIII Y

Note: Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Conclusion: Intertek-ATI observed no signs of failure in any area of the test specimen during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202.





7.0 Test Results: (Continued) The temperature during TAS 201 testing was 65°F. Results are tabulated as follows:

7.2 Protocol TAS 201-94, Large Impact Procedures

Conditioning Temperature: 18°C (65°F) **Missile Weight**: 4080 g (9.0 lbs) **Missile Length**: 2.4 m (8' 0") **Muzzle Distance from Test Specimen**: 5.2 m (17' 0")

Test Unit #1: Orientation within ±5° of horizontal

Impact #1: Missile Velocity: 15.5 m/s (50.9 fps)				
Impact Area: Top left corner of jamb panel				
Observations :	Missile hit target area			
Results:	Pass			

Impact #2: Missile Velocity: 15.4 m/s (50.6 fps)		
Impact Area: Center of jamb panel		
Observations :	Missile hit target area	
Results:	Pass	

Impact #3: Missile Velocity: 15.3 m/s (50.1 fps)			
Impact Area:	Center of center panel between 135 degree corner and jamb		
Observations:	Missile hit target area		
Results:	Pass		

Impact #4: Missile Velocity: 15.2 m/s (49.8 fps)			
Impact Area	Lower right corner of center panel between 135		
inipact Area.	degree corner and jamb		
Observations :	Missile hit target area		
Results:	Pass		

Impact #5: Missile Velocity: 15.2 m/s (49.9 fps)		
Impact Area:	Center of vertical stile of 135 degree corner	
Observations :	Missile hit target area	
Results:	Pass	





7.0 Test Results: (Continued)

7.2 Protocol TAS 201-94, Large Impact Procedures (Continued)

Test Unit #1: Orientation within ±5° of horizontal (Continued)

Impact #6: Missile Velocity: 15.3 m/s (50.2 fps)				
Impact Area:	Center of corner panel next to 135 degree meeting			
	stile			
Observations :	Missile hit target area			
Results:	Pass			

Impact #7: Missile Velocity: 15.0 m/s (49.1fps)			
Impact Area:	Top right corner of corner panel next to 135 degree meeting stile		
Observations :	Missile hit target area		
Results:	Pass		

Impact #8: Missile Velocity: 15.0 m/s (49.3 fps)			
Impact Area:	Center of right hand vertical stile of the center panel between 90 and 135 degree corners		
Observations:	Missile hit target area		
Results:	Pass		

Impact #9: Missile Velocity: 15.0 m/s (49.3 fps)		
Impact Area:	Center of panel to the right of 90 degree corner	
Observations:	Missile hit target area	
Results:	Pass	

Impact #10: Missile Velocity: 15.1 m/s (49.6 fps)			
Impact Area:	Lower left corner of panel to the right of 90 degree		
	corner		
Observations :	Missile hit target area		
Results:	Pass		

Impact #9: Missile Velocity: 15.2 m/s (49.9 fps)		
Impact Area:	Center of 90 degree corner stile	
Observations:	Missile hit target area	
Results:	Pass	





7.0 Test Results: (Continued) The temperature during TAS 203 testing was 65°F. Results are tabulated as follows:

7.3 Protocol TAS 203-94, *Cyclic Wind Pressure Loading*

Test Unit #1 Design Pressure: a +2640/-2880 Pa (+50/-55psf)

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
10 to 25	3500	2.61	
0 to 30	300	4.89	
25 to 40	600	2.58	
15 to 50	100	4.91	

POSITIVE PRESSURE

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
16.5 to 55	50	4.96	
27.5 to 44	1050	3.22	
0 to 33	50	4.77	
11 to 27.5	3350	2.83	

Result: Pass

Conclusion: Intertek-ATI observed no signs of failure 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.





8.0 Test Equipment:

Cannon: Constructed from steel piping utilizing compressed air to propel the missile

Missile: 2x4 Southern Pine

Timing Device: Electronic beam type

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

Deflection Measuring Device: Linear transducers

Laboratory Compliance Statements: The following are provided as required by the protocols for the testing reported herein:

Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building. AND

Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

AND

Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code, Building.

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.





Intertek-ATI will service this report for the entire test record retention period. Test records such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For ARCHITECTURAL TESTING, INC.:

Dennis Janzen Technician Tyler Westerling, P.E. Senior Project Engineer

TW:ss

Attachments (pages): This report is complete only when all attachments listed are included. Appendix A: Sketches (1) Appendix B: Drawings (12)

This report produced from controlled document template ATI 00651, revised 07/08/15.





Revision Log

<u>Rev. #</u>	Date	Page(s)	Revision(s)
0	02/03/16	N/A	Original report issue.
1	02/09/16	Appendix B	Revised drawings.
2	05/02/16	4	Corrected panel corner detail.
2	05/02/16	3	Corrected installation details.
2	05/02/16	Appendix B	Updated drawing package.
2	05/02/16	1	Corrected 202 design pressure.
3	07/13/16	Appendix B	Updated drawing package.
4	07/25/16	5	Revised glazing description.

This report produced from controlled document template ATI 00651, revised 07/08/15.





Appendix A

Sketch









Appendix B

Drawings



TABLE OF CONTENTS				
SHEET #	DESCRIPTION			
1	Table of contents and test elevation			
2	Panel details			
3	Panel details			
4	Horizontal cross section			
5	Horizontal cross section			
6	Horizontal cross section			
7	Vertical cross sections			
8	Frame anchoring			
9	Hardware components			
10	Hardware components			
11	Components			
12	Bill of materials, components and glazing details			





1. Roller attached to bottom rail utilizing (2) 1/4-20 x 1/2" PFH Screw and attached to Stile utilizing (2) 1/4 -20 x 1" PPH Screw.

DRNER DETAIL	DRAWN BY: DATE: REVISIONS DATE DRAWN BY COMMENTS BL 6/22/15 REV-1 6/28/16 BL UPDATED GLASS JOB NUMBER: 385199-V2 385199-V2 1 1
Report #: E8390-301-18 Date: 07/13/16 Verified by: Z.C.	ND DOORS NNA 92879 - WW.flettwoodus.com LOB NAME: FLEETWOOD TAS & AAMA TEST
	SCALE : DO NOT SCALE DRAWING NO. : 2 SHEET : 2 OF 12



1. Roller attached to bottom rail utilizing (2) 1/4-20 x 1/2" PFH Screw and attached to Stile utilizing (2) 1/4 -20 x 1" PPH Screw. TYP. CC

DRNER DETAIL	EVISIONS DATE DRAWN BY COMMENTS REV-1 6/28/16 BL UPDATED GLASS	
#8x 3.5" PFH SMS	DRAWN BY: DATE: R BL 6/22/15	JOB NUMBER: 385199-V2
	MATERIAL: SERIES 3070-T	CUSTOMER: FLEETWOOD WINDOWS AND DOORS JOBNAME: FLEETWOOD TAS & AAMA TEST
Report #: <u>E8390-301-18</u> Date: 07/13/16 Verified by: 24. 2000	EETWOOD	DOWS AND DOORS



EXTERIOR







NOTE: 1.8" from each end then 12" on center

TE: REVISIONS DATE DRAWN BY COMMENTS	22/15 REV-1 6/28/16 BL UPDATED GLASS			
DRAWN BY: DA	BL 6/2	AUN BOUL		385199-V2
MATERIAL: SERIES 3070-T				JOB NAME: FLEETWOOD TAS & AAMA TEST
				1 FLEETWOOD WAY CORONA, CALIFORNIA 92879 - www.fleetwoodusa.com
	L S]	
DF	D NC	S		LE). :

(37)

INTERIOR

EXTERIOR







NOTE: 1. 6" from each end then 18" on center

WIBY: DATE: [REV-1	REV-1 6/28/16 BL		385199-V2
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NOTE:

1.1" from each end then 60" on center

2. Interior or exterior (gasket cut 2" from top rail and bottom rail on stile).

DRAWN BY: DATE: REVISIONS DATE DRAWN BY COM	BL 6/22/15 REV-1 6/28/16 BL UPDATED GL				385199-V2	
MATERIAL: SERIES 3070-T					JOB NAME: FLEETWOOD TAS & AAMA TEST	
					1 FLEETWOOD WAY CORONA, CALIFORNIA 92879 - www.fleetwoodusa.com	



Intertek







EXTERIOR

INTERIOR

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INTERIOR

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Report #:	E8390-301-18
Date:	07/13/16
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INTERIOR

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FLEETWOOD WAY CORONA, CALIFORNIA 20079 - WINDOWS AND DOORS MATERIAL: SERIES 3070-T DATE: WINDOWS AND DOORS USTOMER: FLEETWOOD WINDOWS AND DOORS JOB NUMBER:	REVISIONS	REV-1					
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DRAWING NO. \$		SHEET \$					













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BILL OF MATERIALS						
ITEM #	DESCRIPTION	PART#	MATERIAL			
В	2X BUCK SG >= 0.55	N/A	WOOD			
С	1/4" MAX. SHIM SPACE	N/A	-			
D	#10 x 2-1/2" PFH WOOD SCREW	N/A	STEEL			
F	#10 x 2" PPH WOOD SCREW	N/A	STEEL			
G	#8 x 1-1/2" PFH WOOD SCREW	N/A	STEEL			
Н	#8 x 3/4" PPH SMS	N/A	STEEL			
1	THERMAL HEAD (SINGLE TRACK)	3700	6063-T6 ALUM			
4	THERMAL SILL (SINGLE TRACK)	3749	6063-T6 ALUM			
7	THERMAL JAMB (SINGLE TRACK)	3711	6063-T6 ALUM			
9	HEAD FILLER	3014	STAINLESS STELL			
10	SILL FILLER	3747	STAINLESS STELL			
11	JAMB FILLER	3710	STAINLESS STELL			
12	J-POST INTERLOCKER SNAP-IN	3755	STAINLESS STELL			
13	S.S. TRACK	FW1020	-			
14	SILL PAN (3-TRACK)	3720-3	-			
15	SILL PAN (3-TRACK)(POCKET)	3720-3	-			
16	SMALL FIN SEAL .230	19118	6063-T6 ALUM			
17	9/16" GLAZING VINYL (ASTM C864)	25033	6063-T6 ALUM			
18	LARGE FIN SEAL .290	19117	6063-T6 ALUM			
19	Q-LON (U5212)	19120	6063-T6 ALUM			
20	THERMAL TOP RAIL	3004	6063-T6 ALUM			
21	THERMAL BOTTOM RAIL	3027	6063-T6 ALUM			
23	LOCK STILE (ARCHETYPE NARROW)	3773	6061-T6 ALUM			
24	THERMAL LOCK STILE	3771	6061-T6 ALUM			
25	HP THERMAL FIXED INTERLOCKER	3728	6061-T6 ALUM			
26	HP THERMAL INTERLOCKER	3031	6061-T6 ALUM			
27	FEMALE YOKE	3040	6061-T6 ALUM			
28	MALE YOKE	3039	6061-T6 ALUM			
29	WINDLOAD ADAPTOR	3715	6061-T6 ALUM			
30	THERMAL HP ADAPTOR	3716	STAINLESS STEEL			
31	0.31" X 1" SOLID ALUMINUM	N/A	6061-T6 ALUM			
32	1.25" X 1.5" SOLID ALUMINUM	N/A	6061-T6 ALUM			
33	135° SOLID YOKE BLOCK (ALUMINUM)	N/A	6061-T6 ALUM			
37	0.75" X 1.25" SOLID ALUMINUM	N/A	6061-T6 ALUM			
38	AIR BARRIER (SILL)	25383	-			
39	AIR BARRIER (HEAD)	24097	-			
40	6" AIR BARRIER FOR HP INTERLOCKER	25562				
41	STRIKE PLATE	24980	STEEL			
42	BACK UP PLATE	24981	STEEL			
43	10-32 X .5" FHP	N/A	STEEL			
44	#10 X 1" PHP	N/A	STEEL			
45	#8 TEK X 1/2"	N/A	STEEL			
46	DOW 995 SILICONE	N/A	-			
47	POST INTERLOCKER NAIL-FIN	3756	6061-T6 ALUM			
48	FLUSH PULL	-	S.S.			
49	ARCHETYPE NARROW LOCK	-	=			
50	ARCHETYPE LOCK	-	-			
51	ARCHETYPE ROLLERS	-	<u> </u>			









	Report #:	E8390-301-18
Intertek	Date:	07/13/16
	Verified by:	2 for mon