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FLEETWOOD WINDOWS & DOORS
TEST REPORT

SCOPE OF WORK
ASTM E283/E283M-19, ASTM E547-00(2016), ASTM E330/E330M-14(2021) and AAMA 1304-14 ON THEIR SERIES= 3200-T H - INSWING – SIDE HINGED DOOR

REPORT NUMBER
R6038.01-303-44 R2

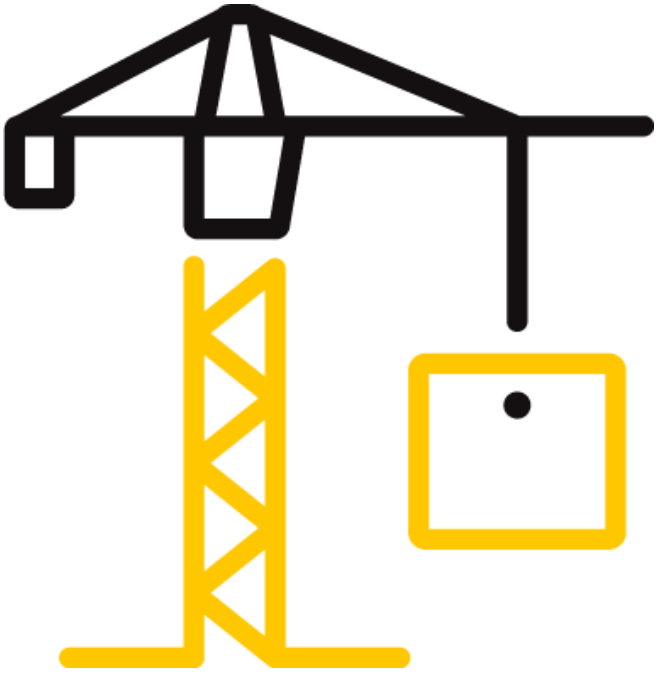
TEST DATES
07/26/24 - 07/29/24

ISSUE DATE
07/31/24

REVISION DATE
8/8/24

PAGES
13

DOCUMENT CONTROL NUMBER
RT-R-AMER-Test-2776 (04/21/23)



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TEST REPORT FOR FLEETWOOD WINDOWS & DOORS
Report No.: r6038.01-303-44 r2
Date: 07/31/24

REPORT ISSUED TO
FLEETWOOD WINDOWS & DOORS
1 Fleetwood way
Corona, CA 92879

SECTION 1
SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Fleetwood Window & Doors, 1 Fleetwood Way Corona, CA 92879 to perform testing in accordance with ASTM E283/E283M-19, ASTM E547-00(2016), ASTM E330/E330M-14(2021) and AAMA 1304-14 on their series 3200-T H INSWING – SIDE HINGED DOOR. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek Inc. test facility in Lake Forest, CA 92630.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, or other pertinent project documentation, will be retained for the entire test record retention period.

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.

SECTION 2
SUMMARY OF TEST RESULTS

The specimen tested met the performance requirements listed herein.

For INTERTEK B&C:

COMPLETED BY:	Benjamin Johns	**REVIEWED BY:**	Tyler Westerling
TITLE:	Project Manager Building & Construction	**TITLE:**	Regional Manager Building and construction
SIGNATURE:	Digitally Signed by: Benjamin Johns	**SIGNATURE:**	Digitally Signed by: Tyler Westerling
DATE:	08/08/24	**DATE:**	08/08/24

BAJ

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SECTION 3
TEST METHODS

The test specimens were evaluated in accordance with the following methods.

ASTM E283/E283M-19, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

ASTM E547-00(2016), *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference*

ASTM E330/E330M-14(2021), *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

AAMA 1304-14, *Voluntary Specification for determining Forced Entry Resistance of Side hinged Door Systems.*

SECTION 4
MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client.

The specimen was installed into a Douglas-Fir wood buck. The rough opening allowed for a 1/4" shim space and the exterior perimeter of the specimen was sealed to the test buck. Installation of the tested product was performed by Intertek Inc.

LOCATION	ANCHOR DESCRIPTION	ANCHOR SPACING
At corners	#6 X 2” Philips flat head phosphate wood screw	2” from each corner
Perimeter of the frame	#6 X 2” Philips flat head phosphate wood screw	12” perimeter of the jambs and the head
sill	GE 100% all-purpose silicone	Full length of the sill

SECTION 5
LIST OF OFFICIAL OBSERVERS

NAME	TITLE	COMPANY
Benjamin Johns	Project Manager	Intertek B&C

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SECTION 6
EQUIPMENT

Equipment calibration records are available for review at 130 Derry Court, York, PA 17406.

SECTION 7
TEST SPECIMEN DESCRIPTION

Product Type: Side Hinged Door
Series/Model: 3200-T H-inswing door
Product Size:
Test Specimen #1

OVERALL, AREA:	**WIDTH**		**HEIGHT**	
3.28 m² (35.26 ft²)	**millimeters**	**inches**	**millimeters**	**inches**
Overall size	1075	42.32	3047	119.96
Operable Panel	1018	40.08	2989	117.69

Frame Construction:

MEMBER	**MATERIAL**	**DESCRIPTION**
Head, Sill & Jambs	Aluminum	Extruded

	JOINERY TYPE	**DETAIL**
All corners	Butt	Attached with screws.

Panel Construction:

MEMBER	**MATERIAL**	**DESCRIPTION**
Head, Sill & Jambs	Aluminum	Extruded

	JOINERY TYPE	**DETAIL**
All corners	Butt	Attached with screws

Reinforcement: *No reinforcement was utilized.*

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Date: 07/31/24

Weatherstripping:

DESCRIPTION	QUANTITY	LOCATION
Bulb Gasket	2 rows	At the perimeter of the jambs and head of the frame.
Bulb Gasket	2 rows	At the perimeter of the frame on the exterior side.
Bulb Gasket	1 Row	At the perimeter of the operable panel

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	SPACER TYPE	INTERIOR LITE	EXTERIOR LITE	GLAZING METHOD
1" IG	Aluminum/Butyl	1/4" Tempered	1/4" Tempered	Exterior glazing bead and interior glazing tape.

LOCATION	QUANTITY	DAYLIGHT OPENING		GLASS BITE
		millimeters	inches	
Operable panel	1	825 X 2800	32.48 X 110.24	9/16”

Drainage:

METHOD	SIZE	QUANTITY	LOCATION
Weep Hole	1/4" wide by 5/8" high	2	1 @ 1-1/2” on center from left jamb on the sill. 1 @ 1-1/2” on center from the right jamb on the sill.

Hardware:

DESCRIPTION	QUANTITY	LOCATION
Lock	1	78” on center from the head of the operable panel on the left jamb. Inside view.
Hinge	4	1 @ 10-1/2” 1 @ 35” 1 @ 83” 1 @ 107” from the head of the operable panel on the right jamb of the operable panel. Inside view.
Shoot bolt & keeper	1	1 shoot bolt at the left jamb of the operable panel locking into the keeper at the head and the sill. Inside view

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Date: 07/31/24

SECTION 8
TEST RESULTS

The temperature range during testing was (82°F). The results are tabulated as follows:

Test Specimen #1:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Air Leakage, Infiltration per ASTM E283 at 75 Pa (1.57 psf)	0.14 L/s/m^2 (0.03 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.	1
Air Leakage, Exfiltration per ASTM E283 at 75 Pa (1.57 psf)	0.10 L/s/m^2 (0.02 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.	1
Water Penetration, per ASTM E547 at 150 Pa (3.13 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E330 Deflections taken between the lock and the head of the specimen. +2880 Pa (+60.15 psf) -2880 Pa (-60.15 psf)	 0.49" 0.08"	 Report only	 3,4,5,6
Uniform Load Structural, per ASTM E330 Permanent set taken between the lock and the head of the specimen. +4320 Pa (+90.23 psf) -4320 Pa (-90.23 psf)	 <0.03" 0.02"	 0.31" max. 0.31" max.	 3,4,5,6
Forced Entry Resistance, per AAMA 1304	Pass	No entry	

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Note 1: Test Date 07/26/24 / Time: 11:00 AM (Air Note Only)

Note 2: Without insect screen.

Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 4: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

Note 5: Loads were held for 10 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.

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SECTION 9
DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen 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.*

TEST SPECIMEN DESCRIPTIONS

1. SERIES / MODEL: Series 3200–T
2. PRODUCT TYPE: HINGED DOOR– SINGLE; HINGED DOOR– DOUBLE

GENERAL NOTES

1. BUCKING OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER LOADS TO THE STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.
2. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
3. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF AAMA AND FLORIDA BUILDING CODE.

SPECIFICATIONS

1. AAMA/WDMA/CSA 101/I.S.2/A440
2. A440 S1 (CANADIAN SUPPLEMENT)

PAGE #
DETAIL #

CORNERS CONSTRUCTION

1. FRAME CORNER: THE JAMBS ARE BUTTED TO THE HEAD AND ATTACHED WITH SCREWS.
2. PANEL CORNER: THE HORIZONTAL RAILS ARE BUTTED TO THE VERTICALS AND ATTACHED WITH 3/8–16 BOLTS, NUTS, BACK–UP PLATE AND WELDED CORNER KEY.

ANCHOR SCHEDULE

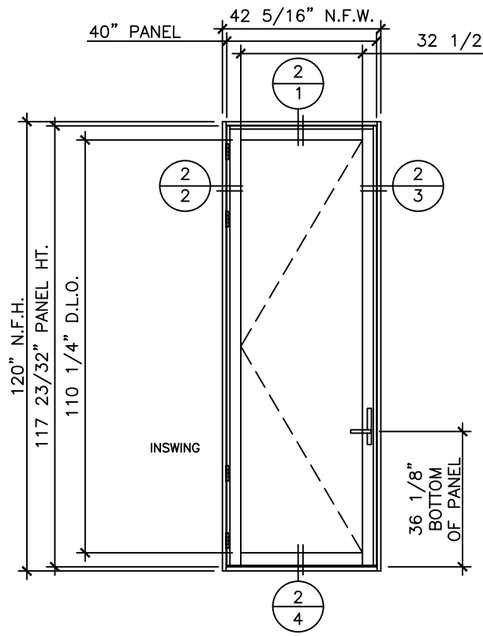
1. OPENING TYPE (SUBSTRATE): 2X– WOOD FRAME, STEEL STUD, CONCRETE
2. FRAME: NO. 10 SCREW, 8" FROM END, 16" O.C. MAX.
   MINIMUM EMBEDMENT: 1 1/2"
   MINIMUM EDGE DISTANCE: 3/4"

GLAZING : SEE PAGE 3

*FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	(1) NO. 8 SMS SCREW	1 1/2"	3/4"
MIN. 18 GA. 33 KSI STEEL STUD	(1) NO. 8 SMS SCREW	FULL	3/8"
CMU/CONCRETE	(2) 3/16" CONCRETE SCREWS	1 1/4"	2 5/8"

(1) SMS SCREWS
(2) CONCRETE SCREWS SHALL BE 3/16" ITW TAPCON



2 H–INSWING
Series 3200–T
QTY: 1
GLASS: 1"; 6mm, A.S., 6mm–T

NOTES:
1. INSWING
2. NAIL–ON FRAME
3. 3–POINT LOCK
4. INACTIVE LEVER SHOOTBOLTS

SPEC 4: A440

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DRAWN BY: CJ
DATE: 2/6/24
JOB NUMBER: 574516

NOTES:
PROJECT #:
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: 3200-T TESTING

1 FLEETWOOD WAY
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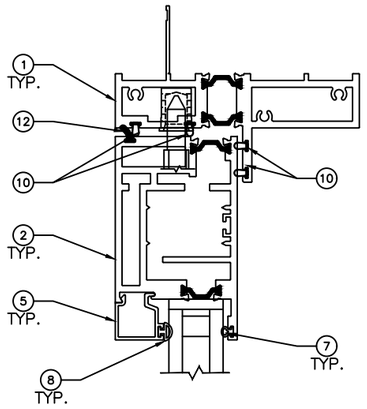
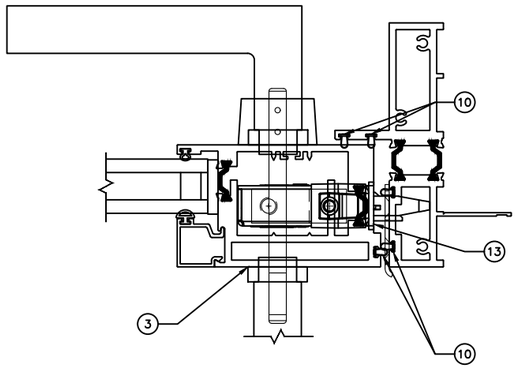
FLEETWOOD WINDOWS & DOORS

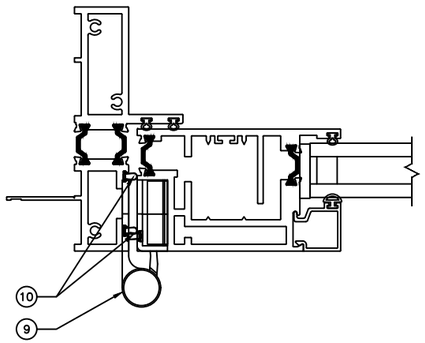
SCALE : N.T.S.
DRAWING NO. : (1)
SHEET : 1 OF 3



1 NAIL–FIN HEAD
SCALE: FULL SIZE



3 MEETING STILE
SCALE: FULL SIZE



2 NAIL–FIN JAMB
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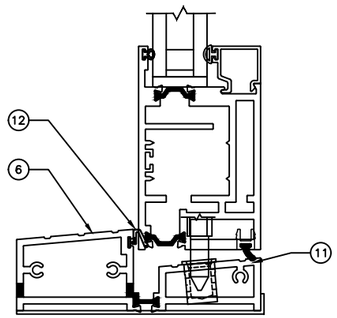

4 STANDARD OUT–SWING SILL
SCALE: FULL SIZE

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JOB NAME:	3200-T TESTING
DRAWN BY:	CJ
DATE:	2/6/24
JOB NUMBER:	574516

REVISIONS	DATE	DRAWN BY	COMMENTS

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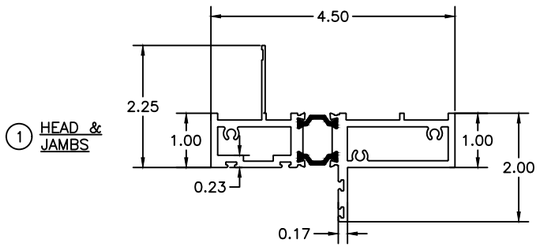
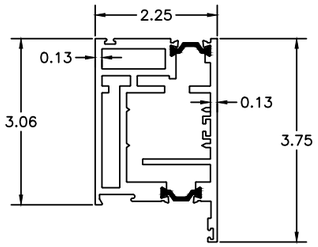
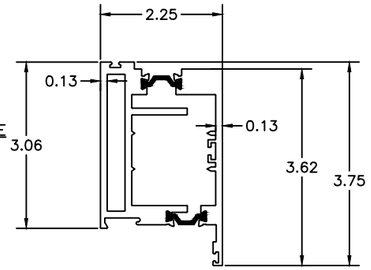


1 HEAD & JAMBS

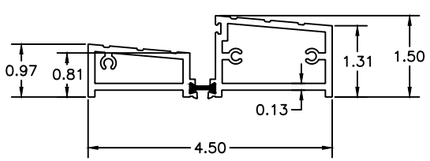


2 HINGE STILE
TOP RAIL
BOTTOM RAIL

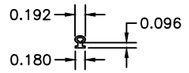


3 ACTIVE LOCK STILE

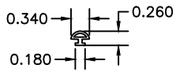
5 1" GLASS STOP



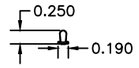
6 INSWING SILL



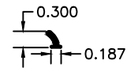
7 MINI BULB VINYL



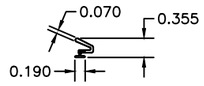
8 LARGE BULB VINYL



10 Q-LON FOAM SEAL



11 Q-LON FOAM SEAL

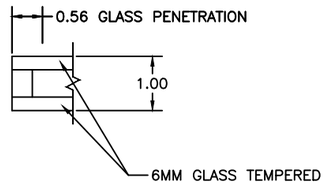


12 Q-LON FOAM SEAL

BILL OF MATERIALS

ITEM NO.	FWID	PART DESCRIPTION	VENDOR NAME	VENDOR PART NO.
		EXTRUSIONS		
1	3208	OUT-SWING FRAME	SIERRA	700753-700759
2	3203	HINGE STILE/TOP/BOTOM RAIL	SIERRA	700755-906273
3	3204	ACTIVE STILE	SIERRA	700756-906274
5	3907	1" GLASS STOP	MERIT	10887
6	3904	IN-SWING SILL	MERIT	10891 - 10892
		HARDWARE		
7	25199	MINI BULB VINYL	TREMCO	TX20801E
8	25031	LARGE BULB VINYL	TREMCO	TX19638E
9	25232	ADJUSTABLE HINGE	TRUTH	48.01.5E.111
10	25190	Q-LON (250X190)	SCHLEGEL	PQ21BL-00000
11	25196	Q-LON 32390	AMESBURY	32390
12	25059	Q-LON FOAM SEAL (QEZ 376)	AMESBURY	QEZ 376
13	27389	ACTIVE 3 POINT LOCK	TRUTH	1900117

GLAZING DETAILS



G1 GLAZING DETAIL

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DATE: 2/6/24
DRAWN BY: CJ
JOB NUMBER: 574516

NOTES:
PROJECT #:
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: 3200-T TESTING

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SCALE: N.T.S.
DRAWING NO.: (3)
SHEET: 3 OF 3

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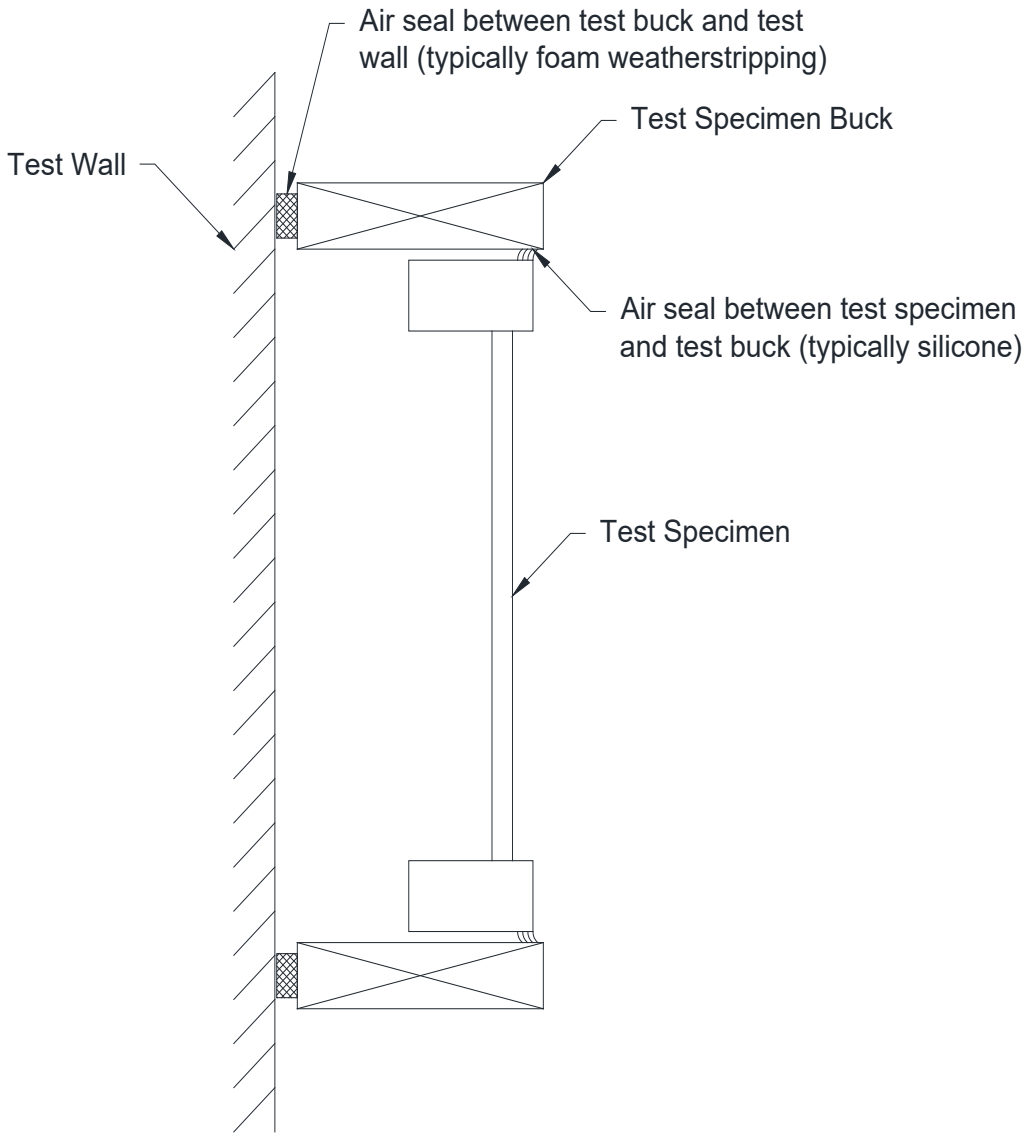
SECTION 10
LOCATION OF AIR SEAL

The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.



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SECTION 11
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	07/31/24	N/A	Original Report Issue
1	08/07/24	1,2,4&5	Add series # to the test report, Adjust height of the panel add inside view to all hardware descriptions and add joinery type. Adjust height on the panel description.
2	08/08/24	5	Fix glass bite to 9/16”