

HEXCORES FLORIDA BUILDING CODE TEST REPORT

SCOPE OF WORK

TAS 201, TAS 202, AND TAS 203 TESTING ON PIVOT DOORS

REPORT NUMBER

S4122.01-301-18-R1

TEST DATES

05/02/25 – 05/08/25

ISSUE DATE

07/11/25

REVISED DATE

7/16/25

LABORATORY CERTIFICATION NO.

24-0501.06

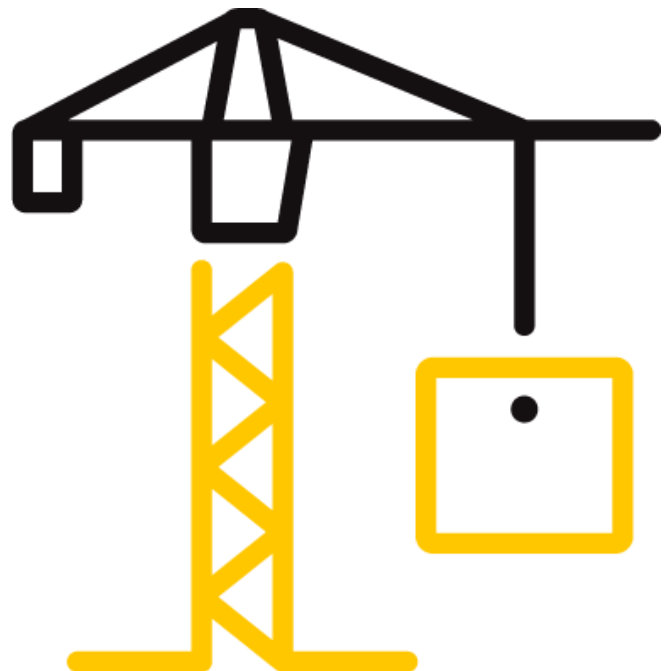
PAGES

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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2816 (06/21/24)

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TEST REPORT FOR HEXCORES

Report No.: S4122.01-301-18-R1

Date: 07/11/25

REPORT ISSUED TO

HEXCORES

1900 7th Street Unit B

Richmond, California 94801

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Hexcores to perform TAS 201, TAS 202, and/ TAS 203 testing in accordance with Florida Building Code for High Velocity Hurricane Zone and Miami-Dade County requirements on their Hexcores, Pivot Door. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in Fresno, California. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

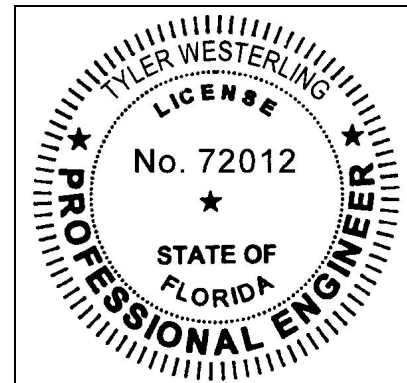
SUMMARY OF TEST RESULTS

The specimen(s) tested met the performance requirements set forth in the protocols.

Product Type: Pivot Door

Series/Model: Hexcores

SPEC.	TEST PROTOCOL	DESIGN PRESSURE
1	TAS 202	+60 / -60 psf
2	TAS 201/203 (Large Missile)	+60 / -60psf
3	TAS 201/203 (Large Missile)	+60 / -60 psf
4	TAS 201/203 (Large Missile)	+60 / -60 psf



For INTERTEK B&C:

COMPLETED BY: Nicholas Bean

TITLE: Technician

Nick Bean

SIGNATURE: Digitally Signed by: Nick Bean

DATE: 07/16/25

REVIEWED BY: Tyler Westerling, P.E.

TITLE: Regional Manager

Tyler Westerling

SIGNATURE: Digitally Signed by: Tyler Westerling

DATE: 07/16/25

TW:ms-BAJ

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

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*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen(s) was 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.

The specimen(s) was installed into a Pine wood test buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the specimen(s) was sealed with sealant. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
All Framing Members	4" Washer Head #14	Two rows in all framing members spaced 16"

SECTION 5

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,

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SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jeremiah Johnson	Hexcores
Greg Gomes	Hexcores
Nicholas Bean	Intertek B&C
Tyler Westerling	Intertek B&C

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Pivot Door

Series/Model: Hexcores

Product Size(s):

OVERALL AREA:	WIDTH	HEIGHT
151 ft ²	Inches	Inches
Overall Size	99	220
Panel	96	216

Frame Construction:

FRAME MEMBER	MATERIAL	DESCRIPTION
All	Mahogany	Routed to accept lock keepers.

	Joinery Type	Detail
All Corners	Butt	Sealed with silicone

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Panel Construction:

PANEL MEMBER	PART #	MATERIAL	DESCRIPTION
All	NA	Fir	Perimeter of panel framed with 3" x 3" lumber. Glued in place
Sill	NA	Aluminum	5" x 1/2" Saddle Threshold by PEMKO
Reinforcement	NA	Aluminium	3" x 3" x 1/4" Square tubes running vertically to the interior of each Fir rail with one centered in the panel. Glued in place.
Honeycomb Core	NA	Aluminium	3" thick 3000 Series commercial grade 3/8" by 3.6lb/cu.ft. aluminum honeycomb bonded to 3/8" thick marine plywood on the interior and exterior surface.
		Joinery Type	Detail
All Corners	Butt		Glued

Reinforcement: *See Panel Description*
Weatherstripping:

DESCRIPTION	QUANTITY	LOCATION
Silicone Sweep Seal WS17	2 Rows	Each jamb (see drawings for location)
Silicone Sweep Seal WS17	3 Rows	Head and Sill (see drawings for location)
Silicone Sweep Seal WS18	1 Row	Sill (see drawings for location)
Open sill foam weather sill gasket	1 Row	Jambs (see drawings for location)

Drainage: *No drainage was utilized.*

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Hardware:

DESCRIPTION	QUANTITY	LOCATION
FritsJurgen System One Pivot	2	12" in from corner at the top and bottom rail of the panel.
GU-SECURY A-Opener Locking System	2	Six-point lock held in place with #8 x 1-1/2" screws into both sides of the panel spaced approx. 16" on center
Keepers	12	In both jambs held in place with two #8 x 1-1/4" screws

Screen Construction: NA

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SECTION 8

TEST RESULTS

Protocol TAS 202-94, Static Air Pressure

Test Date(s): 05/02/25 through 05/08/25

The temperature during testing was 65 -85°F. The results are tabulated as follows:

Test Specimen #1: Air Leakage per TAS 202

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Air Leakage, Infiltration per TAS 202 at 1.57 psf (25 mph)	0.30cfm/ft ²	0.30 cfm/ft ² max.	1

Note 1: Test Date 05/02/25 / Time: 9:00 A.M. (Air Note Only)

Test Specimen #1: Preload and Design Load per TAS 202. Deflection and permanent set measured horizontally between the second lock set from bottom

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+45.0 50% of Test Pressure	Left	0.18	N/A	0.04	N/A
	Center	0.30	N/A	0.03	N/A
	Right	0.14	N/A	0.01	N/A
					N/A
+60.0 Design Pressure	Left	0.28	N/A	0.07	N/A
	Center	0.41	N/A	0.04	N/A
	Right	0.19	N/A	0.02	N/A
					N/A
-45.0 50% of Test Pressure	Left	0.19	N/A	0.00	N/A
	Center	0.37	N/A	0.03	N/A
	Right	0.29	N/A	0.05	N/A
					N/A
-60.0 Design Pressure	Left	0.25	N/A	0.01	N/A
	Center	0.45	N/A	0.02	N/A
	Right	0.33	N/A	0.03	N/A
					N/A

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Test Specimen #1: Water Penetration per TAS 202

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration, per TAS 202 at 9.19 psf	Pass	No leakage	2

Note 2: without insect screen.

Test Specimen #1: Structural Overload Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)		PERMANENT SET (in.)	
		MEASURED	ALLOWED	MEASURED	ALLOWED
+90.0 Test Pressure	Left	0.48	N/A	0.22	
	Center	0.65	N/A	0.18	0.38 (Net)
	Right	0.25	N/A	0.09	
			N/A		
			N/A		
-90.0 Test Pressure	Left	0.37	N/A	0.04	
	Center	0.82	N/A	0.11	0.38 (Net)
	Right	0.73	N/A	0.19	
			N/A		
			N/A		

Note 3: Positive and negative uniform static load test loads were held for 30 seconds.

Note 4: Tape and film were not 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 #1: Forced Entry Resistance per TAS 202

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Forced Entry Resistance, per AAMA 1304	Pass	No entry	

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Date: 07/11/25

Protocol TAS 201-94, Large Missile Impact Procedures

Test Date(s): 05/05/25 through 05/08/25

The temperature during testing was 70°F - 80°F. The results are tabulated as follows:

Test Specimen #1

IMPACT	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)	DEFLECTION	
				INSTANTANEOUS (in.)	PERMANENT (in.)
Center of Door	9.0	96	49.5	NA	NA
Bottom Right Corner			50.2	NA	NA

Test Specimen #2

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)	DEFLECTION	
				INSTANTANEOUS (in.)	PERMANENT (in.)
Top Left Corner	9.0	96	49.7	NA	NA
Center of Door			50.9	NA	NA

Test Specimen #3

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)	DEFLECTION	
				INSTANTANEOUS (in.)	PERMANENT (in.)
Bottom Left Corner	9.0	96	50.2	NA	NA
Center of Door			50.4	NA	NA

TEST REPORT FOR HEXCORES

Report No.: S4122.01-301-18-R1

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Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Date(s): 05/05/25 through 05/08/25

The temperature during testing was 70°F - 80°F. The results are tabulated as follows:

Test Specimen #1: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
60 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 – 30.0	0 – 36.0	0 – 78.0
AVERAGE CYCLE TIME (sec.)	3.78	4.14	-
NUMBER OF CYCLES	600	70	1
	4	5	6
NEGATIVE PRESSURE RANGE (psf)	0 – 30.0	0 – 36.0	0 – 78.0
AVERAGE CYCLE TIME (sec.)	3.94	4.02	-
NUMBER OF CYCLES	600	70	1

Test Specimen #2: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
60 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 – 30.0	0 – 36.0	0 – 78.0
AVERAGE CYCLE TIME (sec.)	4.37	4.2	-
NUMBER OF CYCLES	600	70	1
	4	5	6
NEGATIVE PRESSURE RANGE (psf)	0 – 30.0	0 – 36.0	0 – 78.0
AVERAGE CYCLE TIME (sec.)	3.84	4.39	-
NUMBER OF CYCLES	600	70	1

Test Specimen #3: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE		
60 psf	1	2	3
POSITIVE PRESSURE RANGE (psf)	0 – 30.0	0 – 36.0	0 – 78.0
AVERAGE CYCLE TIME (sec.)	3.8	4.01	-
NUMBER OF CYCLES	600	70	1
	4	5	6
NEGATIVE PRESSURE RANGE (psf)	0 – 30.0	0 – 36.0	0 – 78.0
AVERAGE CYCLE TIME (sec.)	3.65	3.92	-
NUMBER OF CYCLES	600	70	1

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SECTION 9

CONCLUSIONS

The large missiles impacted each intended target. Each impact location was carefully inspected. No signs of penetration, rupture, or opening after the large missile impact test were observed; as such, each test specimen satisfies the large missile requirements of TAS 201. Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building.

AND

No signs of failure were observed in any area of the test specimen 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.

AND

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.



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TEST REPORT FOR HEXCORES

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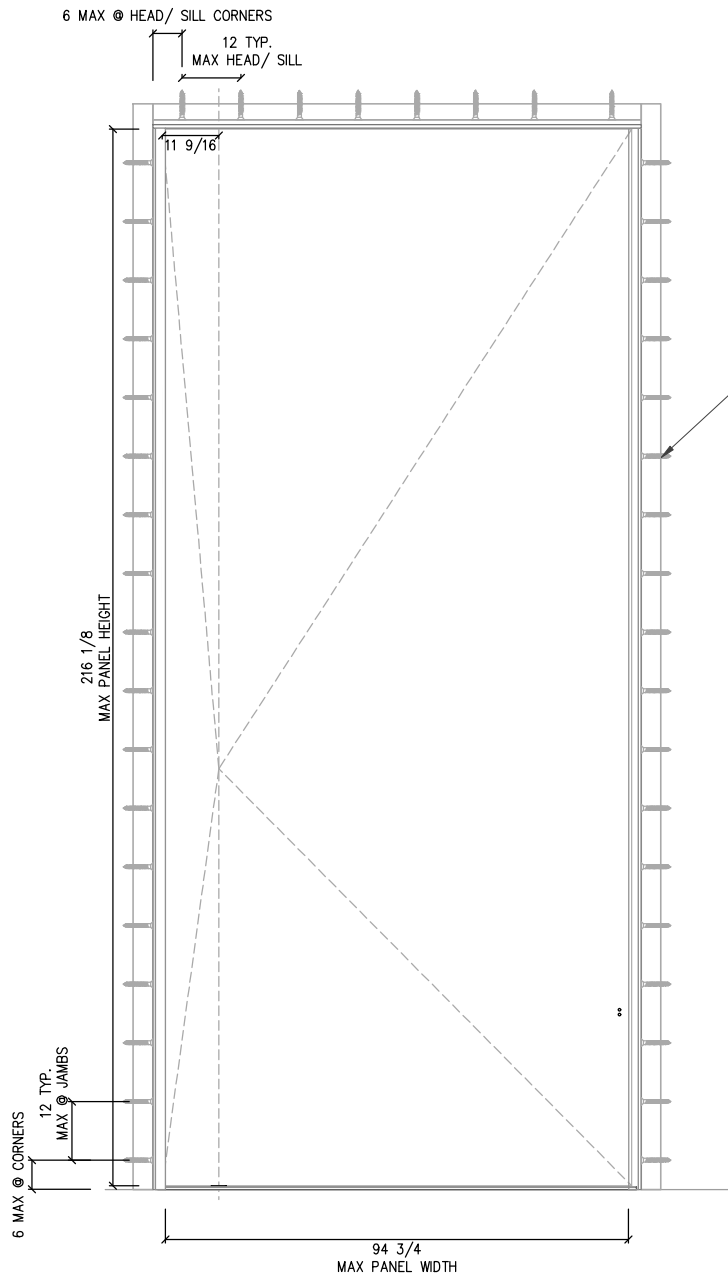
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SECTION 10

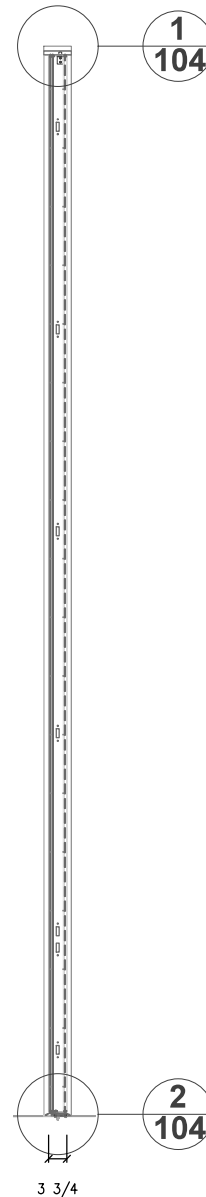
DRAWINGS

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.*



1 PIVOT DOOR - EXTERIOR ELEVATION
SCALE= 1/2" = 1'



2 PIVOT DOOR ELEVATION
SCALE= 1/2" = 1'

INSWING/OUTSWING WOOD PIVOT DOOR

DOORS WITH SILL APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

DOORS WITHOUT SILL NOT APPROVED FOR WATER INFILTRATION RESISTANCE.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BY NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

THESE DOORS ARE RATED FOR SMALL AND LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED

MAXIMUM DESIGN LOAD = +60PSF
-60PSF
(FOR MAX SIZE SHOWN OR SMALLER AS PERMITTED BY FBC REQ'TS)

HEXCORES

PIVOT LH OUTSWING

PROJECT: --

SUBMITTAL DATE

3/13/2025

REVISION DATES

APPROVAL DATE: --

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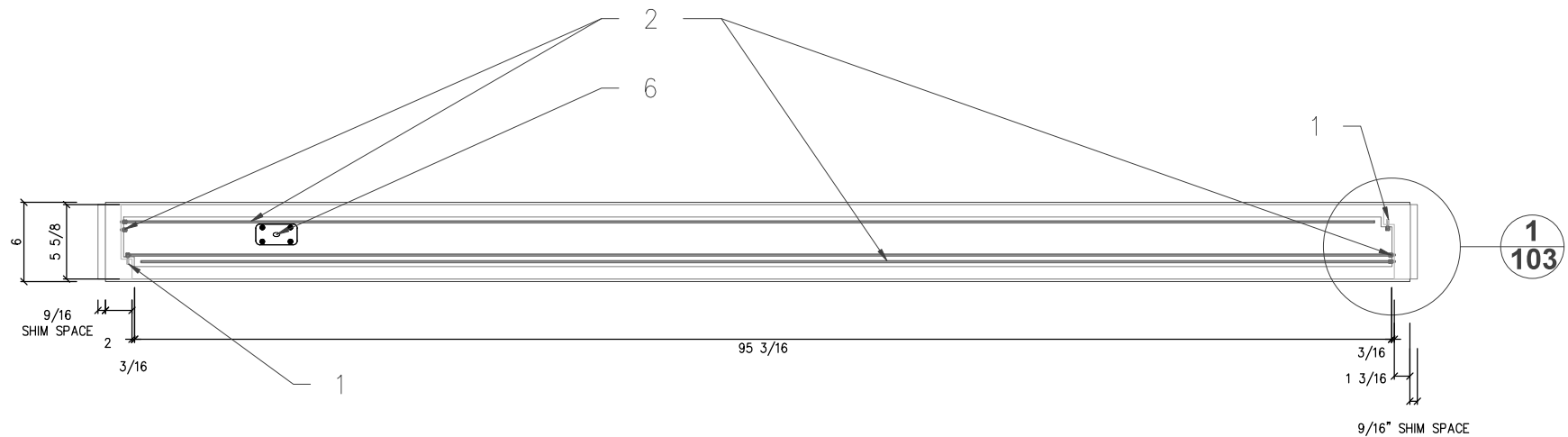
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Verified by: *Virginia John*



EXTERIOR

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1 PIVOT DOOR PLAN
SCALE= 1 1/2" = 1'

HEXCORES

PIVOT LH OUTSWING

PROJECT: --

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3/13/2025

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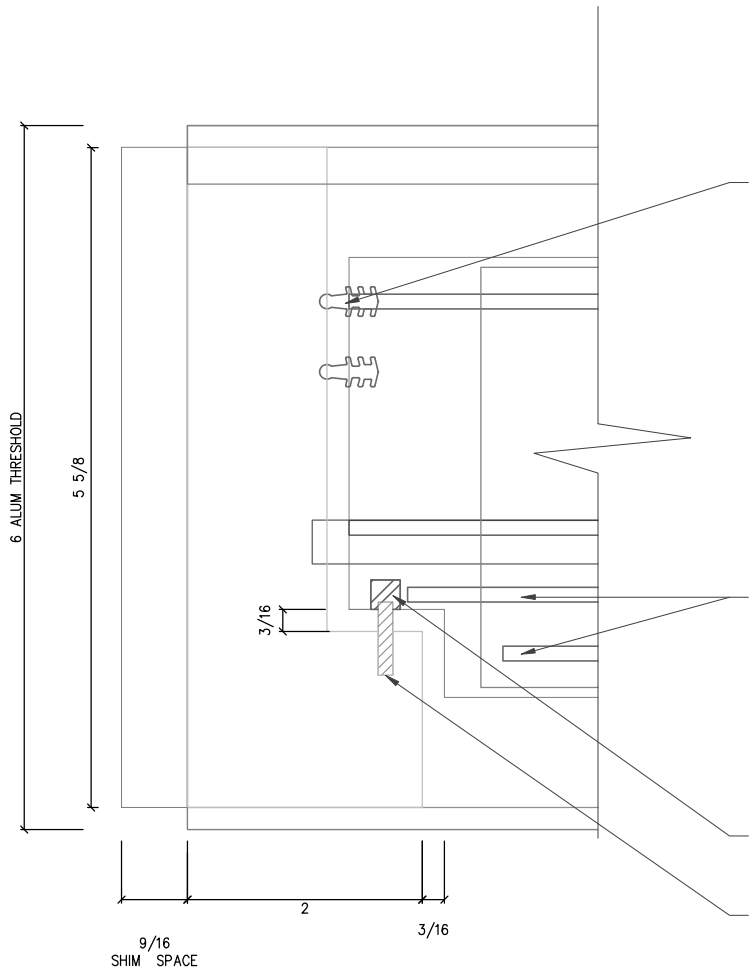
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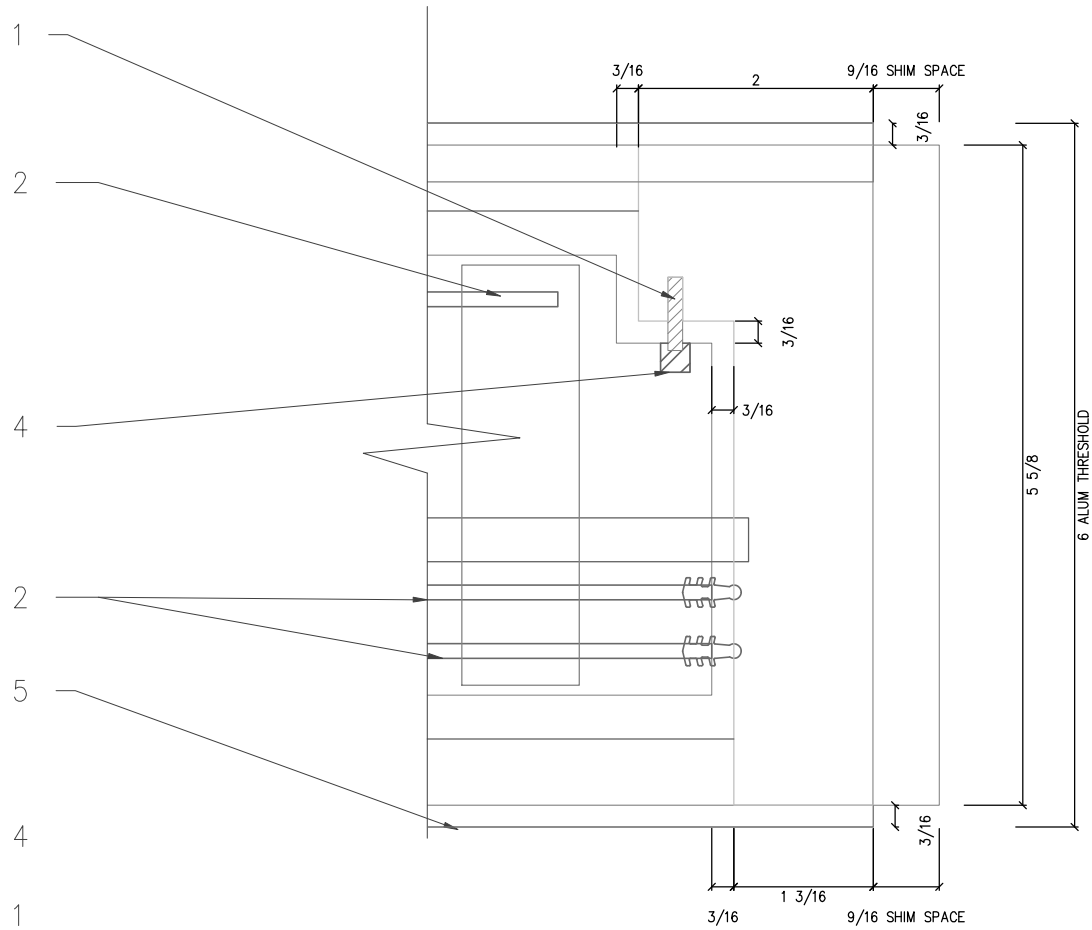
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**1 PIVOT DOOR
HORIZONTAL SECTION**
SCALE= 1' = 1'



**2 PIVOT DOOR
HORIZONTAL SECTION**
SCALE= 1' = 1'

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HEXCORES

PIVOT LH OUTSWING

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1.1.103

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#14 WOOD SCREWS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

1/4" DIA. TAPCON BY 'ITW' (Fu=125 KSI, Fy=100 KSI)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

1/4"-20 TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

3/16" DIA. TAPCON BY 'ITW' (Fu=125 KSI, Fy=100 KSI)
 DIRECTLY INTO CONCRETE
 1-1/2" MIN. EMBED INTO CONCRETE

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

LOCKS:

MLS 1

LOCK STILE / PIVOT STILE:

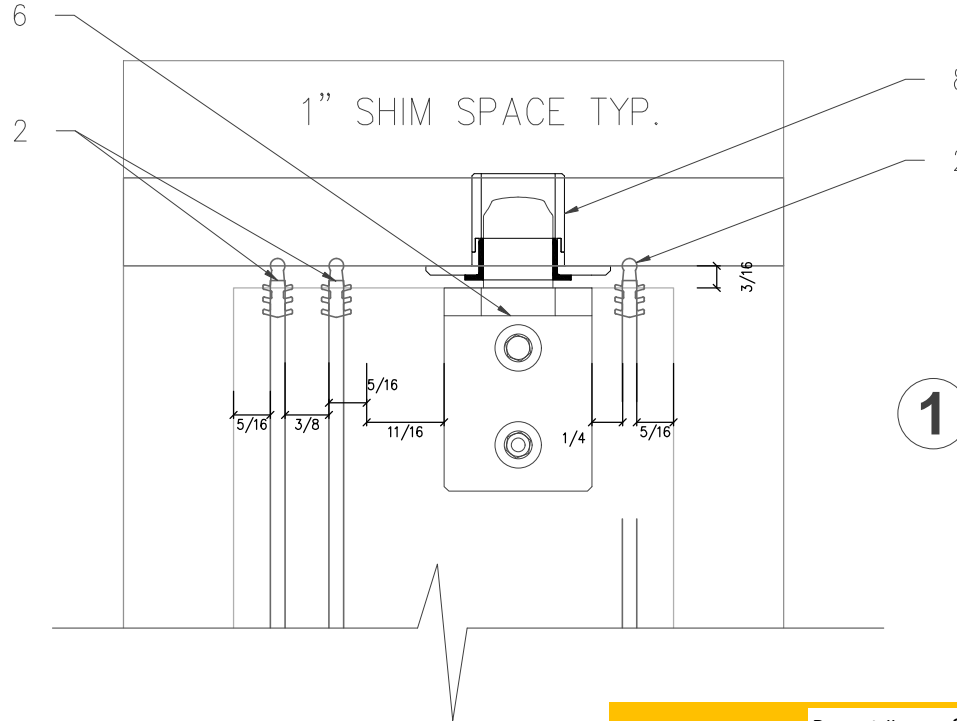
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6-C5062-10-0-8B	SECURY A EXTENSION 1049MM - MAX 3 PER SIDE
9-C4716-72-0-8B	LATCH KEEPER 72,51MM FOLDED
9-C4717-72-0-8B	CENTER KEEPER 72,51MM FOLDED

PIVOT HINGES:

'SYSTEM ONE' OR 'SYSTEM M/M+' PIVOT HINGES BY FRITSJURGENS

SEALANTS:

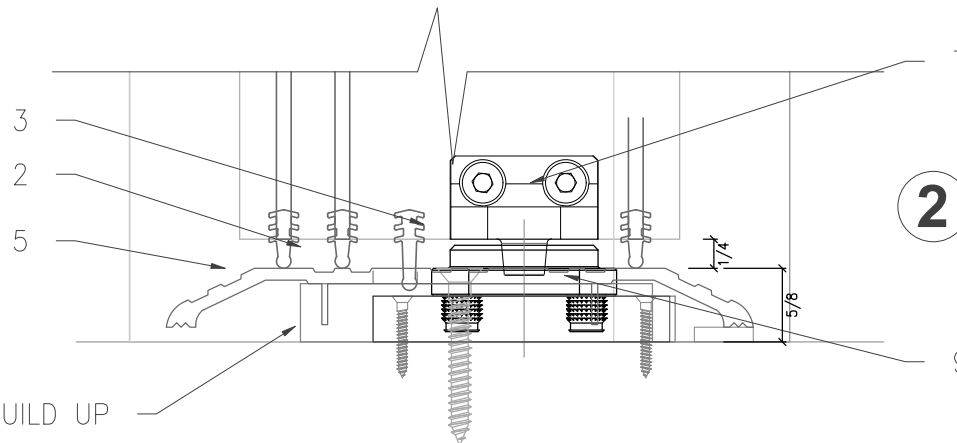
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE.



1 PIVOT DOOR VERTICAL SECTION
 SCALE= 1' = 1'

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 Date: **07/16/25**
 Verified by: *[Signature]*



2 PIVOT DOOR VERTICAL SECTION
 SCALE= 1' = 1'

ALUMINUM SUPPORT BUILD UP

HEXCORES

PIVOT LH OUTSWING

PROJECT: --

SUBMITTAL DATE

3/13/2025

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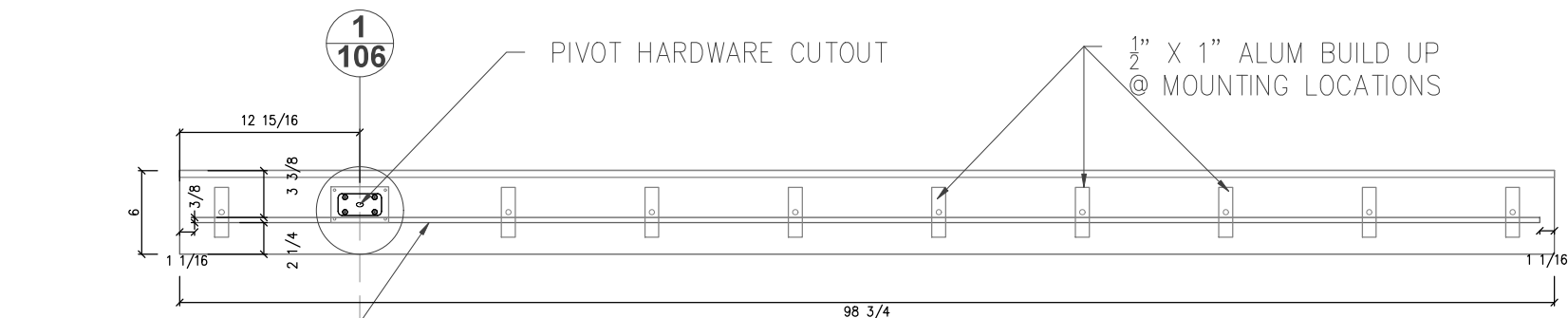
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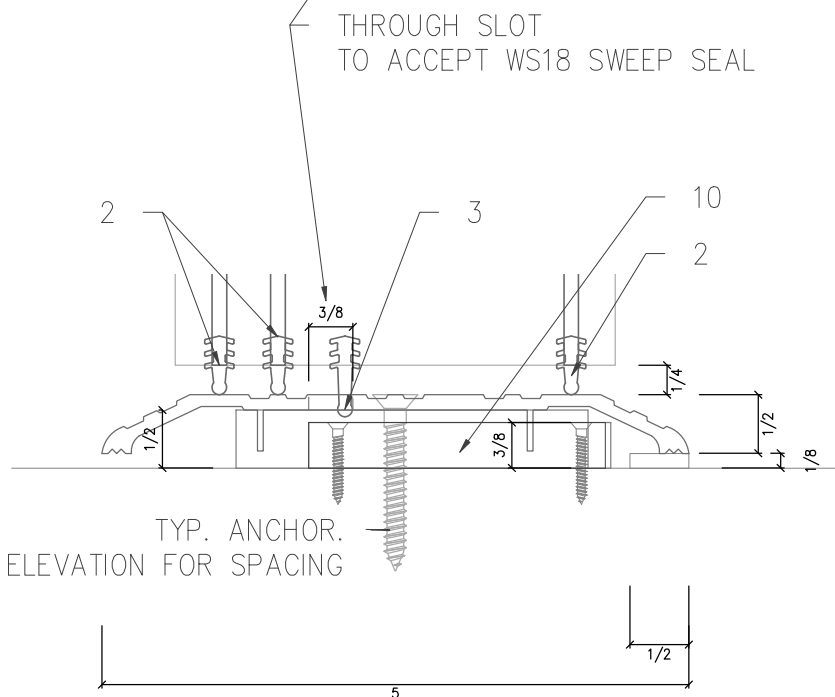
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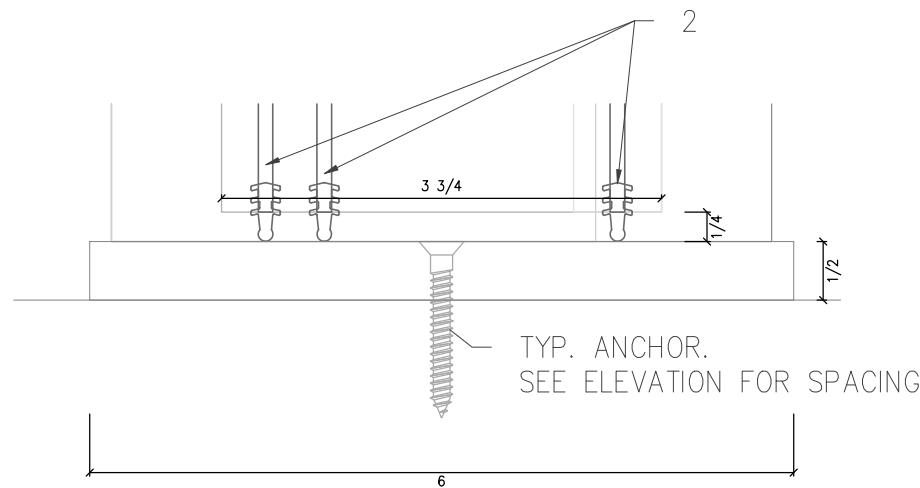


1 ALUMINUM SILL PLAN
SCALE= 1.5" = 1'



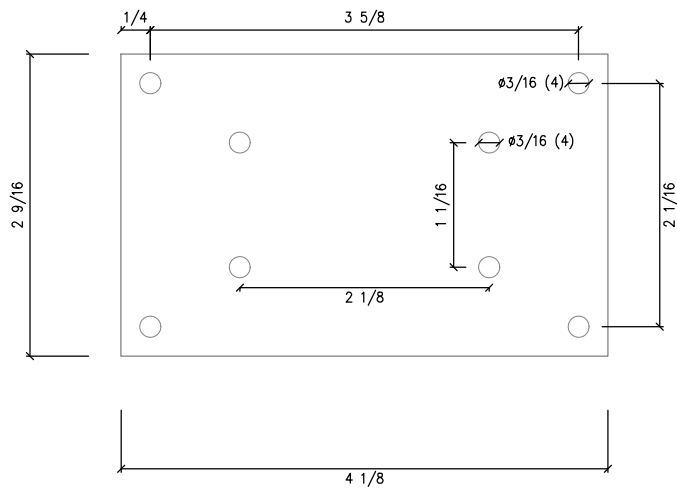
2 DOOR WITH SILL VERTICAL SECTION
SCALE= 1.5" = 1'

*APPROVED FOR WATER INFILTRATION RESISTANCE

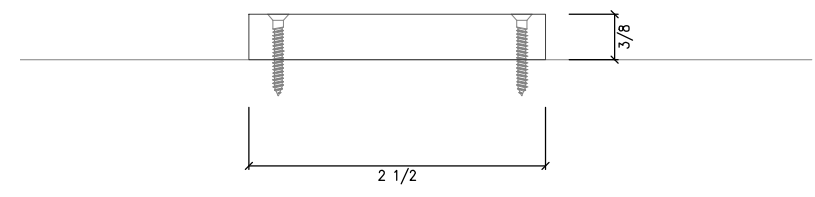


3 DOOR WITHOUT SILL VERTICAL SECTION
SCALE= 1.5" = 1'

*NOT APPROVED FOR WATER INFILTRATION RESISTANCE



1 **FRITSJURGENS FLOOR PLATE BUILD UP**
PLAN
 SCALE= 1' = 1'



2 **FRITSJURGENS FLOOR PLATE BUILD UP**
ELEVATION
 SCALE= 1' = 1'

 Total Quality. Assured.	Report #:	S4122.01-301-18
	Date:	07/16/25
	Verified by:	
		Quality Services Inc. 800-368-3686

PROJECT: --

SUBMITTAL DATE
 3/13/2025

REVISION DATES

APPROVAL DATE: --

APPROVAL
 BY SIGNING THIS DOCUMENT, YOU
 ARE IN AGREEMENT THAT THE
 DISPLAYED WORK MEETS YOUR
 SPECIFICATIONS. PLEASE NOTE THAT
 ANY CHANGES TO THIS PROJECT
 AFTER BUILD-OFF MAY BE SUBJECT TO
 ADDITIONAL CHARGES.

SIGNATURE: _____
 CLIENT NAME: _____
 DATE: _____

SCALE: AS NOTED
 PRINT DATE: 3/13/2025
 JOB NUMBER: --

PROJECT: --

SUBMITTAL DATE
3/13/2025

REVISION DATES

APPROVAL DATE: --

APPROVAL
BY SIGNING THIS DOCUMENT, YOU
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AFTER SIGN-OFF MAY BE SUBJECT TO
ADDITIONAL CHARGES.

SIGNATURE: _____
CLIENT NAME: _____
DATE: _____

SCALE: AS NOTED
PRINT DATE: 3/13/2025
JOB NUMBER: --

1.1.107

BILL OF MATERIALS

ITEM #	PART #	DESCRIPTION	MATERIALS	MANUFACTURER
1	-	$\frac{1}{8}$ " X $\frac{3}{4}$ " BAR	ALUMINUM	-
2	WS17	SWEEP SEAL	SILICONE	CONSERVATION TECHNOLOGIES
3	WS18	SWEEP SEAL	SILICONE	CONSERVATION TECHNOLOGIES
4	-	WEATHER SEAL GASKET	OPEN CELL FOAM	-
5	171	5 X $\frac{1}{2}$ " SADDLE THRESHOLD	ALUMINUM	PEMKO
6	-	TOP PIVOT	STEEL	FRITSJURGENS
7	-	BOTTOM PIVOT	STEEL	FRITSJURGENS
8	-	TOP PLATE	STEEL	FRITSJURGENS
9	-	BOTTOM PLATE	STEEL	FRITSJURGENS
10	-	BOTTOM PLATE SUPPORT	ALUMINUM	-

intertek
Total Quality. Assured.

Report #: S4122.01-301-18

Date: 07/16/25

Verified by: *Benjamin John*



Total Quality. Assured.

2524 E. Jensen Ave
Fresno, California 93706

Telephone: 559-233-8705
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR HEXCORES

Report No.: S4122.01-301-18-R1

Date: 07/11/25

SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	07/11/25	N/A	Original Report Issue
1	07/16/25	8	Removed limited water note