

PEERLESS PRODUCTS, INC.

ASTM E1886 & E1996 TEST REPORT

SCOPE OF WORK

ASTM E1886 AND ASTM E1996 TESTING ON TALON WALL SMALL MISSILE IMPACT

REPORT NUMBER

S2931.01-801-18-r0

TEST DATE(S)

2/26/25 - 2/27/25

ISSUE DATE

03/11/25

RECORD RETENTION END DATE

2/20/29

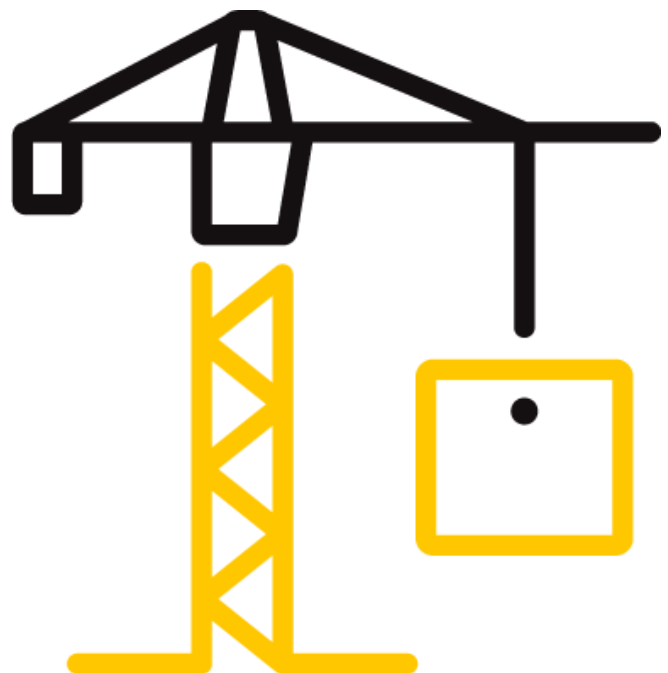
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DOCUMENT CONTROL NUMBER

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TEST REPORT FOR PEERLESS PRODUCTS, INC.

Report No.: S2931.01-801-18-R0

Date: 03/11/25

REPORT ISSUED TO

PEERLESS PRODUCTS, INC.

2403 S. Main St.

P.O. Box 431

Fort Scott, KS 66701

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company), dba Intertek Building & Construction (B&C) was contracted by Peerless Products Inc. to perform ASTM E1886 and ASTM E1996 requirements on their Talon Wall test specimen. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in Plano, TX. 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 tested met the performance requirements set forth in the protocols.

Product Type: Window Wall Unit

Series/Model: Talon Wall

SPEC.	TEST PROTOCOL	DESIGN PRESSURE
1	ASTM E1886/1996 (Small Missile)	+65 / -65 psf

For INTERTEK B&C:

COMPLETED BY:	Alexei Buruian
TITLE:	Technician – Building & Construction
SIGNATURE:	
DATE:	03/11/25

Digitally Signed by: Alexei Buruian

REVIEWED BY:	Jeffrey Crump, FMPC
TITLE:	Laboratory Manager – Building & Construction
SIGNATURE:	
DATE:	03/11/25

Digitally Signed by: Jeffrey Crump

JC:cm

TEST REPORT FOR PEERLESS PRODUCTS, INC.

Report No.: S2931.01-801-18-R0

Date: 03/11/25

SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

ASTM E1886-19, *Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials*

ASTM E1996-20, *Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client.

Then the specimen was installed into a pine wood test buck. The installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Interior of frame	1" x 1-1/2" x 3" long aluminum angle. 0.08" thick at 1" side and (1.2 mm) 0.05" thick on 1-1/2" side.	Angle located interior of frame head, sill and jambs. Angle attached to frame with #10 x 3/4" tek screws spaced 3" from each end and 12" on center at frame jambs. Frame head and sill clips are attached 3" from each end and 16" on center Angle attached to test buck with one (1), #8 x 1-1/2" ss screw.

SECTION 5

EQUIPMENT

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

Missile: 5/16" diameter ball bearings

Timing Device: Electronic beam type

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

Deflection Measuring Device: Linear transducers

TEST REPORT FOR PEERLESS PRODUCTS, INC.

Report No.: S2931.01-801-18-R0

Date: 03/11/25

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jeffrey Crump	Intertek B&C
Alexei Buruian	Intertek B&C
Jovica Cijuk	Intertek B&C

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Window Wall Unit

Series/Model: Talon Wall

Product Size(s):

OVERALL AREA:	WIDTH		HEIGHT	
	millimeters	inches	millimeters	Inches
4.9 m ² (52.5 ft ²)				
Overall Size	1524	60	3200	126

Frame Construction:

FRAME MEMBER	MATERIAL	DESCRIPTION
Head, sill, jambs and horizontal members	Aluminum	Extruded aluminum
	JOINERY TYPE	DETAIL
All corners and meeting rail ends	Mechanical	Coped and butted and attached with #12-14 x 1-3/4" PPH SMS Type AB at horizontal screw spline and 5/16"-18 x 2-1/2" Flanged HH Cap Screws (Grade 5) at vertical screw spline.
Back Pan	Mechanical	#10-16 x 3/4" HWH SDS holds 4" thick semi-rigid mineral wool insulation

TEST REPORT FOR PEERLESS PRODUCTS, INC.

Report No.: S2931.01-801-18-R0

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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
1-3/8" IG	1/2" warm edge spacer	1/4" heat strengthened	1/4" clear heat strengthened x .090" O.A. interlayer x 1/4" heat strengthened	Exterior glazed with structural glazing tape and silicone at the exterior and lateral face of glass.

LOCATION	QUANTITY	DAYLIGHT OPENING		GLASS BITE
		millimeters	inches	
Frame head, sill and jambs	1	1454 x 3061	57-1/4" x 120-1/2"	.75"

SECTION 8

TEST RESULTS

ASTM E1886, Small Missile Impact

Test Date(s): 02/19/25 through 02/20/25

The temperature during testing was 23°C (73°F). The results are tabulated as follows:

Test Specimen #1

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE DIAMETER (in.)	MISSILE VELOCITY (ft./sec.)
1	2g	5/16	130
2	2g	5/16	130
3	2g	5/16	130
4	2g	5/16	130

Note 1: See Sketch #1 for impact locations.

TEST REPORT FOR PEERLESS PRODUCTS, INC.

Report No.: S2931.01-801-18-R0

Date: 03/11/25

ASTM E1886, Cyclic Wind Pressure Loading

Test Date(s): 02/19/25 through 02/20/25

The temperature during testing was 23°C (73°F). The results are tabulated as follows:

Design Pressure: ± 3120 Pa (± 65.16 psf)

Positive Pressure

PRESSURE RANGE Pa (psf)	NUMBER OF CYCLES	AVERAGE CYCLE TIME (seconds)
622 to 1556 (13 to 32.5)	3500	2.3
0 to 1867 (0 to 39)	300	2.7
1556 to 2490 (32.5 to 51)	600	2.8
934 to 3112 (19.5 to 65)	100	2.5

Negative Pressure

PRESSURE RANGE Pa (psf)	NUMBER OF CYCLES	AVERAGE CYCLE TIME (seconds)
934 to 3112 (19.5 to 65)	50	2.9
1556 to 2490 (32.5 to 51)	1050	2.8
0 to 1867 (0 to 39)	50	2.5
622 to 1556 (13 to 32.5)	3350	2.6

Result: Pass

SECTION 9 CONCLUSIONS

The specimens tested met the performance requirements set forth in the referenced test procedures for a ± 3120 Pa (± 65.16 psf) Design Pressure with missile impacts corresponding to Missile Level A. The specimens met the requirements of Section 7 of ASTM E1996.

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.

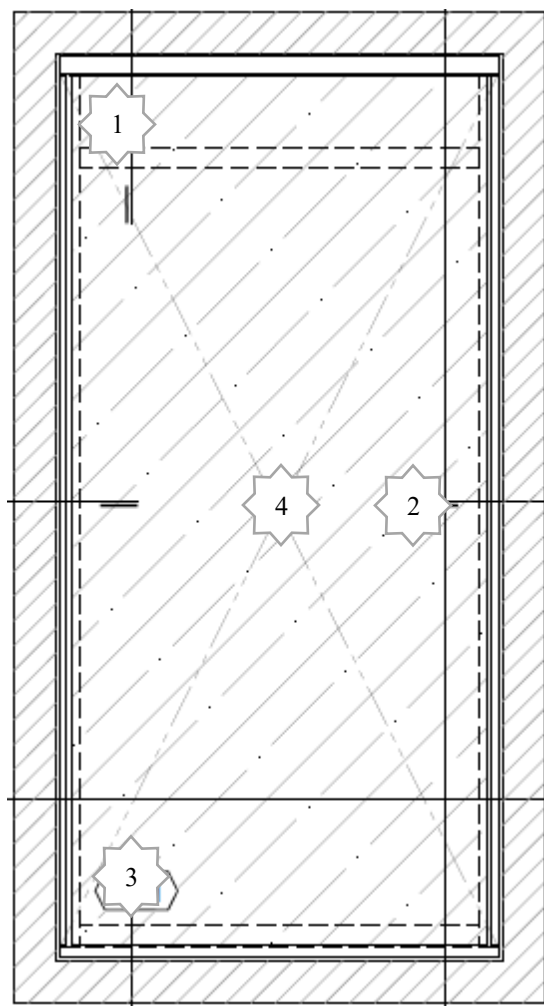
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Report No.: S2931.01-801-18-R0

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SECTION 10

SKETCH(ES)



Sketch No. 1

TAS 201 Impact Locations Test Specimen #3

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SECTION 11

PHOTO



Sketch No. 1
Test Specimen #1



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SECTION 12

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.

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Talon Wall®

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INNOVATIVE SOLUTIONS GROUP

US Patent No.'s 9,752,219; 10,094,111; 10,202,764; 10,253,638; & 10,724,234 & Canadian Patent No. CA29202171.

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SHEET TITLE:

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PROJECT NAME:

IMPACT TEST MOCKUP

SUBMISSION SCHEDULE:

NO.

DESCRIPTION

DATE

01

FINAL RECORD

02/28/25

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GENERAL CONTRACTOR:

N/A

GLAZING CONTRACTOR:

N/A

ARCHITECT:

N/A

DRAWN BY:

WJB

SCALE:

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DATE:

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IMPACT TEST MOCKUP

PEERLESS PRODUCTS INC.

INTELLECTUAL PROPERTY WARNING:

These drawings depict in detail, the PATENTED (US Patent No.'s 9,752,319; 10,094,111; 10,202,764; 10,233,638; and 10,724,234) intellectual property known as Talon Wall®. These documents depict trade secrets, proprietary know how, and manufacturing methods that are the exclusive intellectual property of Entekk Group Ltd. These drawings are to be viewed and reproduced only by the intended recipient transmitted to, by Entekk Group Ltd. or its authorized distributor(s). The disclosure of the intellectual property contained herein to any unauthorized person or entity is strictly prohibited. Any unauthorized disclosure of any of the content of these drawings will be considered a violation of U.S. Patent law, and may result in substantial harm to Entekk Group Ltd. and/or its authorized distributor(s). All possible claims due to unauthorized distribution or disclosure in whole or in part, will be aggressively pursued by Entekk Group Ltd. and/or its authorized distributor(s); in an equitable attempt to be made whole on any lost profits and/or any lost branding opportunities deemed to have been forfeited by Entekk Group Ltd. and/or its authorized distributor(s), due the unauthorized disclosure of the protected Patent Pending intellectual property contained herein. This document and all copies must be returned upon demand.

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Verified by: J.Crump

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[US Patent No.'s 9,752,319; 10,094,111; 10,202,764; 10,233,638; and 10,724,234] & Canadian Patent No. CA2932177

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PROJECT NAME:

IMPACT TEST MOCKUP

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GLAZING CONTRACTOR:

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ARCHITECT:

N/A

DRAWN BY:

WJB

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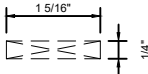
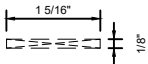
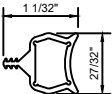
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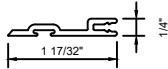
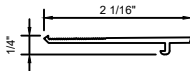
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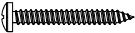
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S01	18TWS001		AIR SEAL GASKET @ CHICKEN HEAD	70 (±5) DUROMETER SILICONE	BLACK
S03	18TWS003		INTERIOR FIN GASKET @ TYPICAL MULLIONS	TPV 65A BLACK / POLYPROPYLENE	BLACK
S20	18TWS020		VERTICAL AIR SEAL GASKET @ TYPICAL MULLIONS	65 "A" / 50 "D" SANTOPRENE	BLACK
S21	18TWS021		BULB GASKET @ LAST BAY MULLIONS	FLEXIBLE 70 DURO SHORE A UNIPRENE W/ RIGID PVC REGLET	BLACK
S38	18TWS038		1/4" X 1 5/16" SILICONE SETTING BLOCK	SHORE "A" 80 (+/-5) DUROMETER SILICONE	BLACK
S41	18TWS041		1/8" X 1 5/16" SILICONE SETTING BLOCK	SHORE "A" 80 (+/-5) DUROMETER SILICONE	BLACK
S45	18TWS045		VERTICAL RAINSCREEN GASKET @ TYPICAL MULLIONS	70 (±5) DUROMETER SILICONE	BLACK

RIGID PVC & SEMI-RIGID GASKET MATERIAL SCHEDULE					
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R01	18TWR001		ANTI-RATTLE SPACER @ HEAD HORIZONTAL - CUT TO 6" LONG -	RIGID PVC	NATURAL
R15	18TWR015		GLASS EDGE PROTECTOR @ SILL HORIZONTAL	RIGID PVC	BLACK
R17	18TWR017		GLASS EDGE PROTECTOR @ HEAD HORIZONTAL	RIGID PVC	BLACK
R20	18TWR020		VERTICAL RAINSCREEN GASKET ADAPTOR @ TYPICAL MULLIONS	RIGID PVC	BLACK

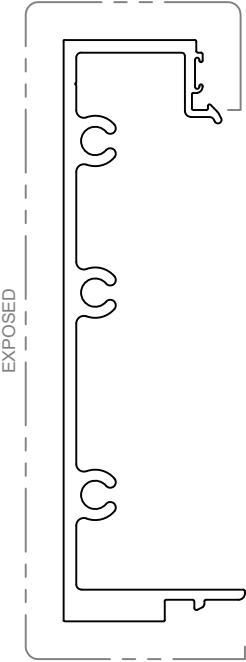
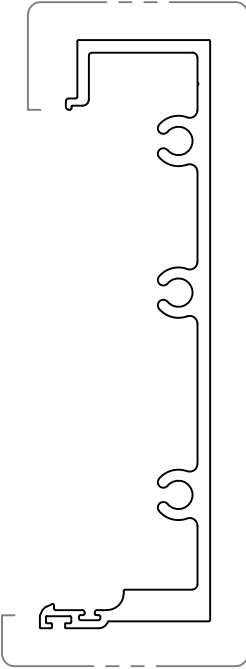
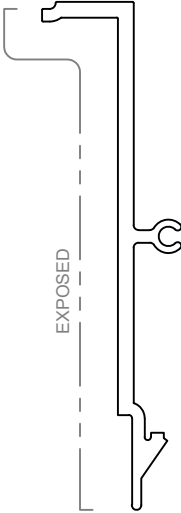
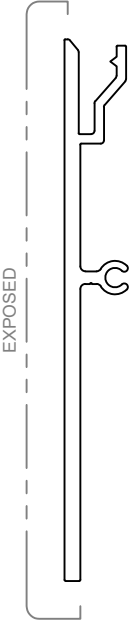
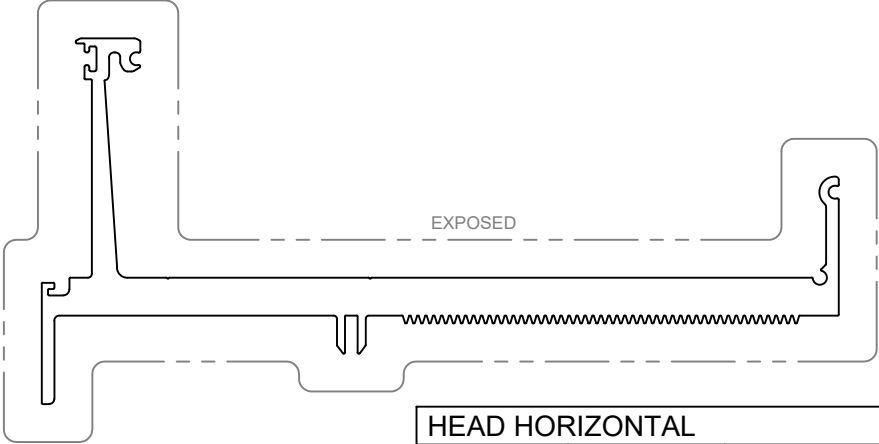
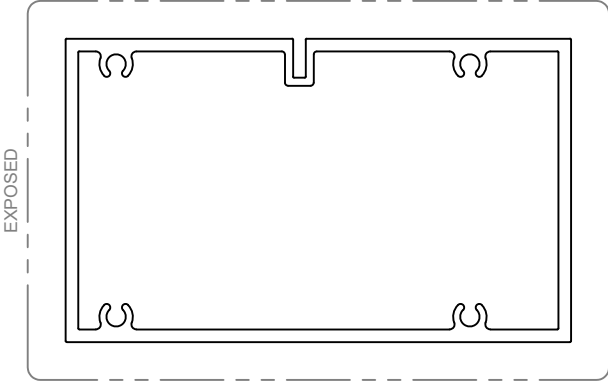
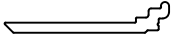
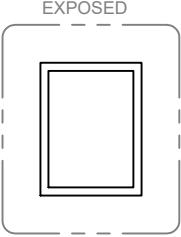
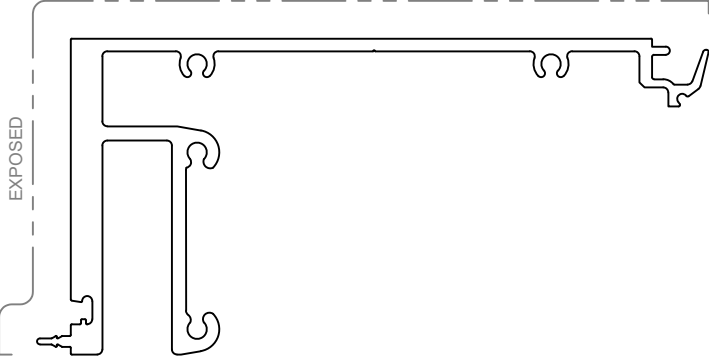
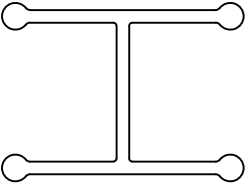
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T04	18TWT004		$\frac{1}{4}$ " X 1 $\frac{3}{4}$ " STRUCTURAL GLAZING TAPE	SEMI-RIGID POLYURETHANE FOAM	BLACK

ASSEMBLY FASTENER SCHEDULE					
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③	30120015		HORIZONTAL SCREW SPLINE FASSETNER	#12-14 X 1 3/4" PPH SMS TYPE AB (GRADE 2)	ZINC PLATED
④	30310003		VERTICAL SCREW SPLINE FASTENER	5/16"-18 X 2 1/2" FLANGED HH CAP SCREW (GRADE 5)	ZINC PLATED
⑥	30100084		BACK PAN FASTENER	#10-16 X 3/4" HWH SDS	ZINC PLATED

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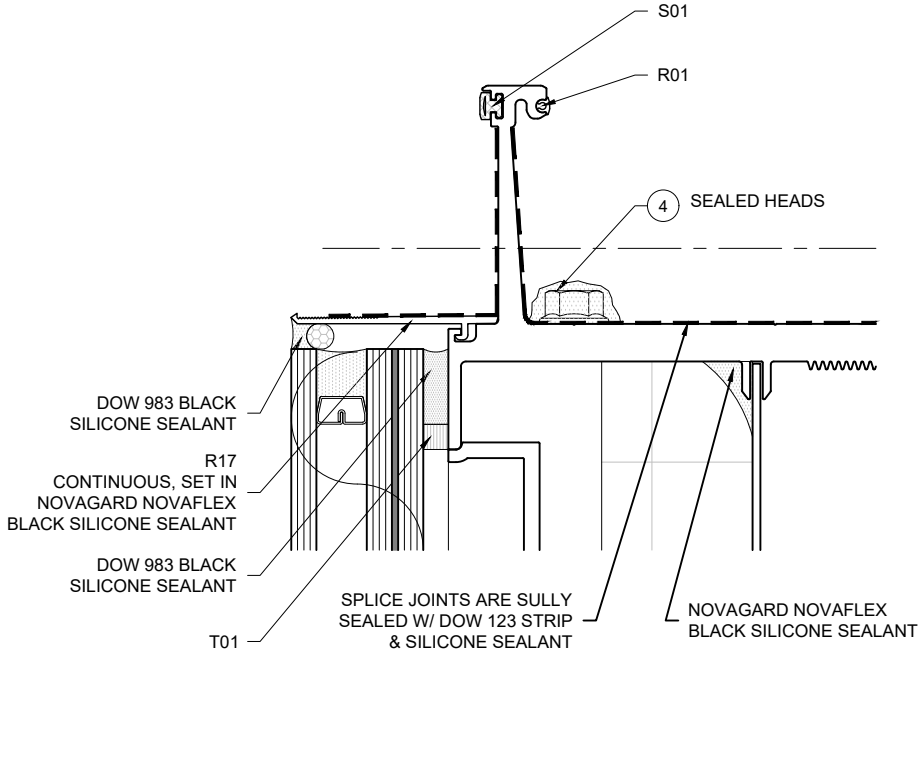
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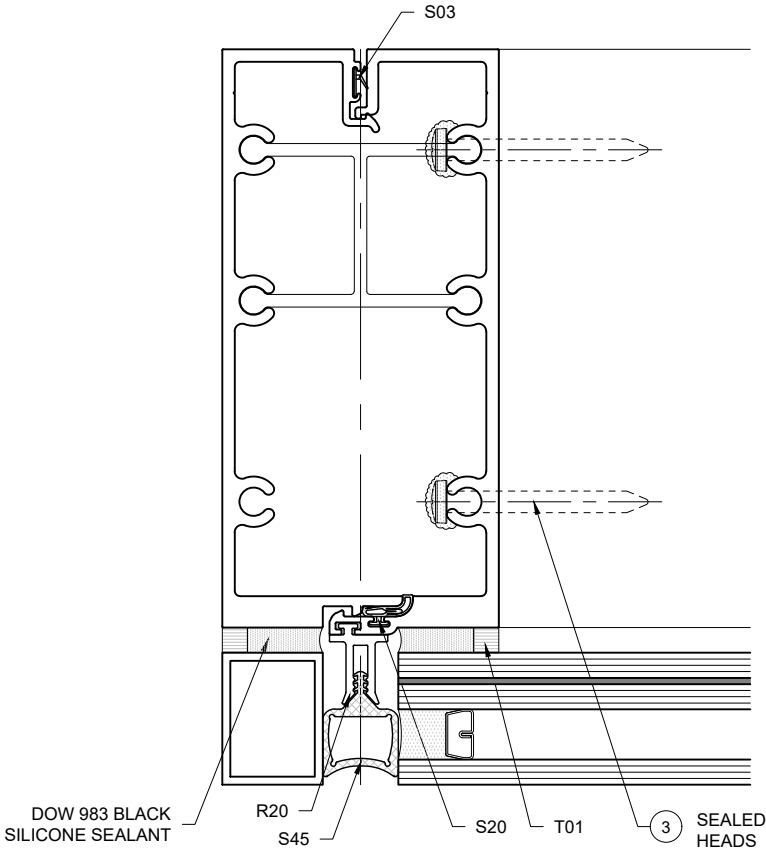
					
MALE JAMB			FEMALE JAMB		
018-006	6063-T6	2604 PAINT	018-007	6063-T6	2604 PAINT
					
SHADOWBOX			SHADOWBOX		
018-047	6063-T6	2604 PAINT	018-046	6063-T6	2604 PAINT
					
HEAD HORIZONTAL			INTERMEDIATE HORIZONTAL		
018-001	6005A-T61	2604 PAINT	018-051	6063-T6	2604 PAINT
					
SETTING BLOCK CHAIR			TUBE ADAPTOR		
018-235	6063-T6	MILL	016-195	6063-T6	2605 PAINT
					
SILL HORIZONTAL			JAMB CLIP		
018-004	6063-T6	2604 PAINT	018-186	6063-T6	MILL
 Report #: S2931.01-801-44 Date: 03/10/25 Verified by: J.Crump					

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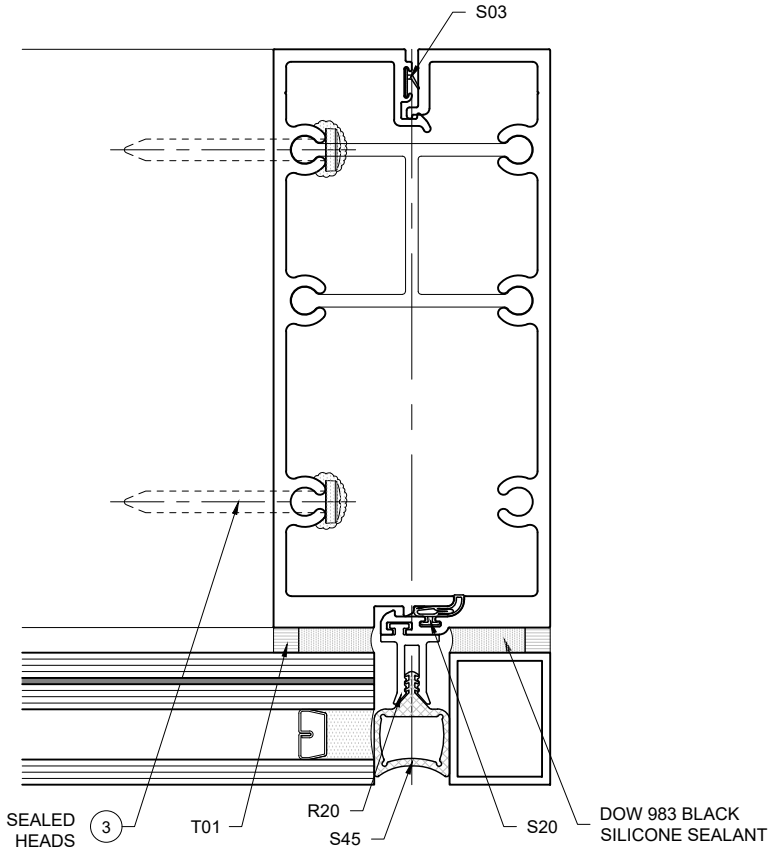
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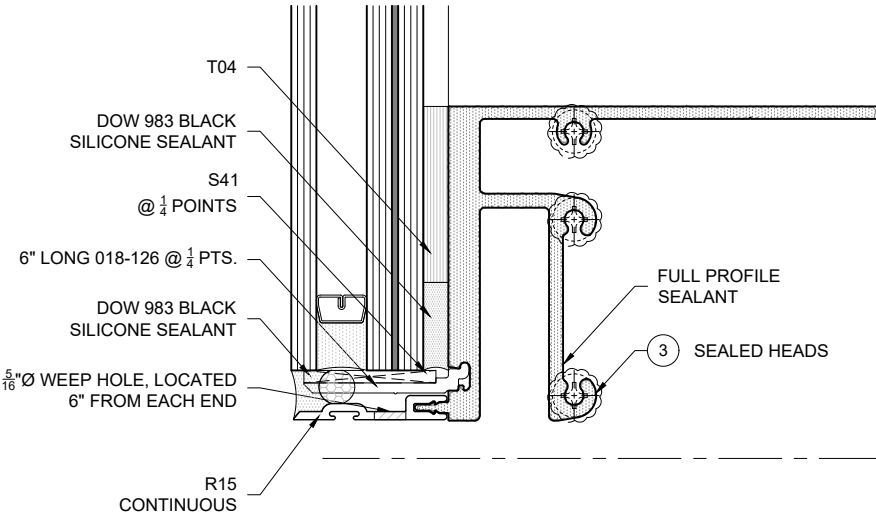
HEAD HORIZONTAL



INTERMEDIATE MULLION



INTERMEDIATE MULLION



SILL HORIZONTAL



intertek
Total Quality Assured.

Report #: S2931.01-801-44

Date: 03/10/25

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DRAWN BY: WJB		GENERAL CONTRACTOR: N/A		SUBMISSION SCHEDULE:			SHEET TITLE: GLAZING DETAILS		Talon Wall [®] [US Patent No.'s 9,752,319; 10,084,111; 10,202,764; 10,233,638; & 10,724,234; & Canadian Patent No. CA2932177] Confidential and proprietary information of Talon Wall. These drawings are the sole and exclusive property of Peerless Products, Inc. and contain sensitive, privileged or confidential information which may be used only for its benefit. The disclosure of these drawings to unauthorized persons is strictly prohibited. This document and all copies must be returned upon demand. © Copyright Entek Group Ltd., 2024	
				NO. DESCRIPTION DATE						
SCALE: N.T.S.		GLAZING CONTRACTOR: N/A		01 FINAL RECORD 02/28/25			PROJECT NAME: IMPACT TEST MOCKUP			
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DATE: 03/04/25		ARCHITECT: N/A		-- -- --						
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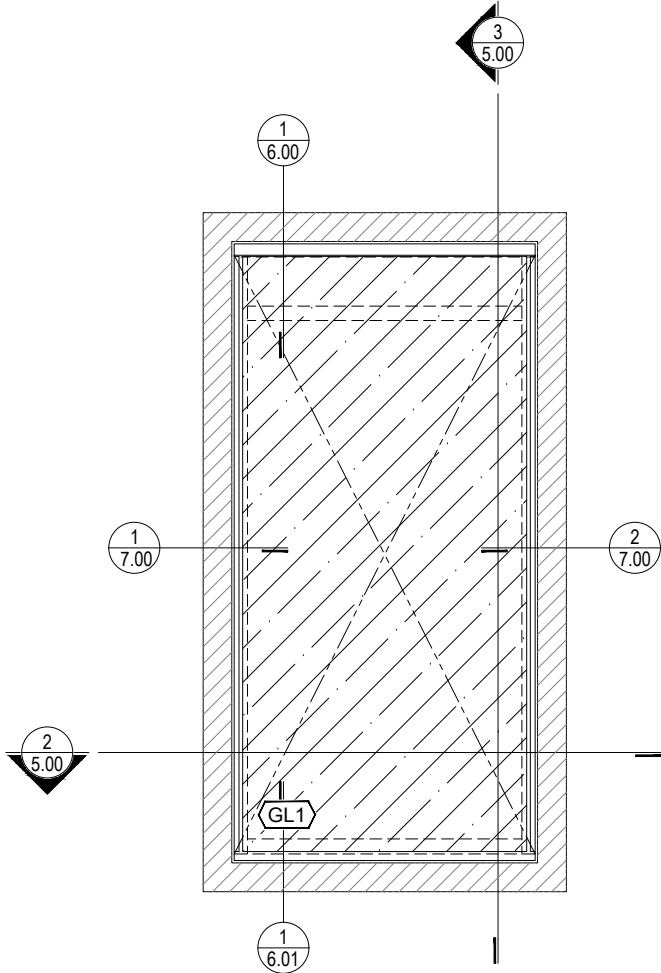
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Date:

03/10/25

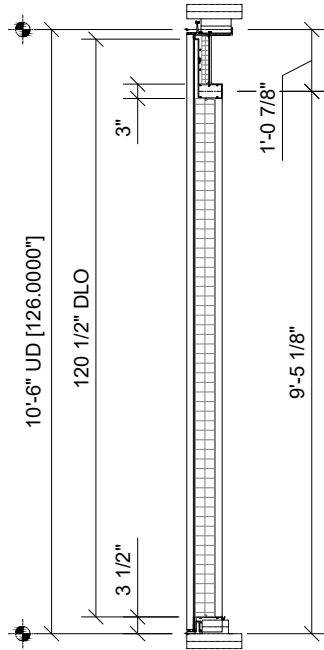
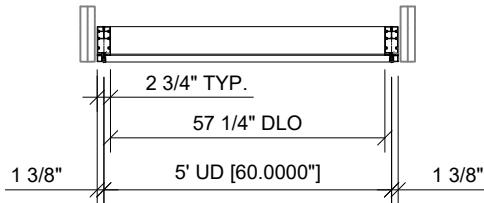
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J.Crump



1	--	ELEVATION
5.00	--	TALON WALL SYSTEM

2	--	PLAN
5.00	--	TALON WALL SYSTEM



3	--	WALL SECTION
5.00	--	TALON WALL SYSTEM

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	SCALE: N.T.S.	GLAZING CONTRACTOR: N/A	NO. 01	DATE 02/28/25	ELEVATION	PROJECT NAME: IMPACT TEST MOCKUP	
DATE: 03/04/25	ARCHITECT: N/A						
SHEET: 5.00							



Report #:

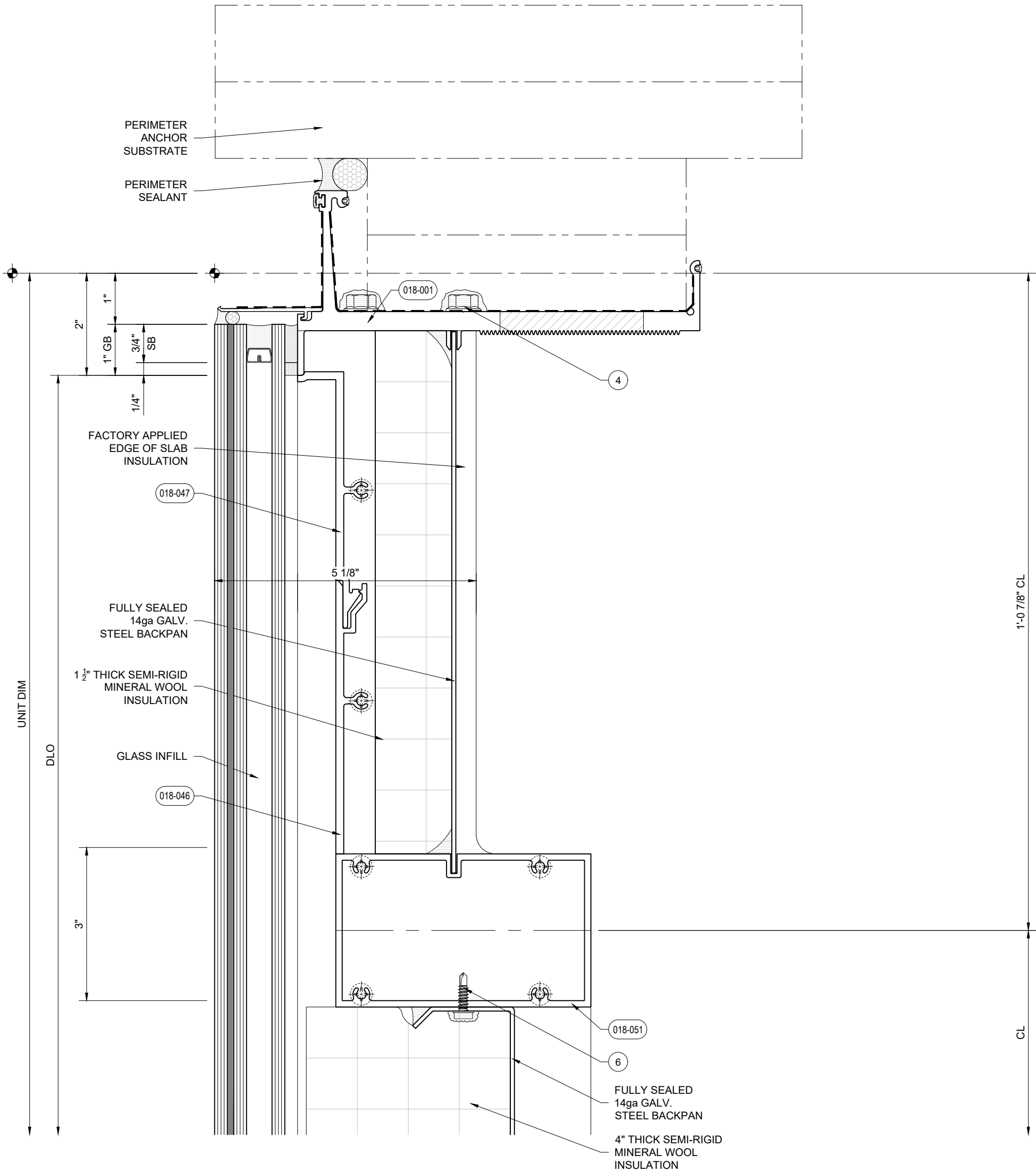
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Date:

03/10/25

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1	--	HEAD SECTION
6.00	--	TALON WALL SYSTEM

6.00 SHEET:	DRAWN BY: WJB	GENERAL CONTRACTOR: N/A	SUBMISSION SCHEDULE:		SHEET TITLE: SECTION DETAILS	Talon Wall® [US Patent No.'s 9,752,319; 10,094,111; 10,202,764; 10,233,638; & 10,724,234, & Canadian Patent No. CA2932177] Confidential and proprietary information of Talon Wall. These drawings are the sole and exclusive property of Peerless Products, Inc. and contain sensitive, privileged or confidential information which may be used only for its benefit. The disclosure of these drawings to unauthorized persons is strictly prohibited. This document and all copies must be returned upon demand. © Copyright Entek Group Ltd., 2024	Peerless INNOVATIVE SOLUTIONS GROUP
	SCALE: 6"=1'-0"	GLAZING CONTRACTOR: N/A	NO.	DESCRIPTION			
	DATE: 03/04/25	ARCHITECT: N/A	01	FINAL RECORD	02/28/25		
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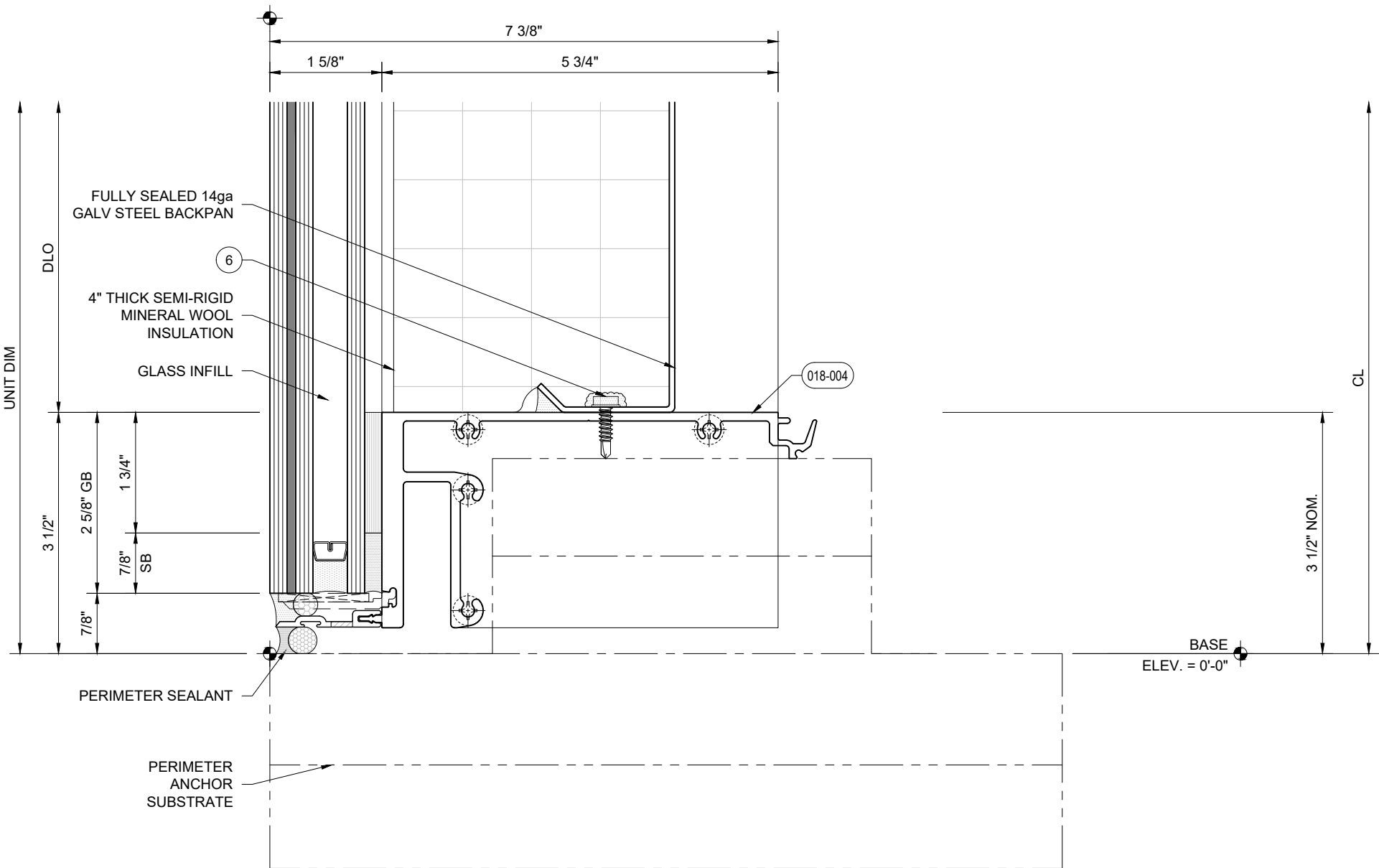
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Date:

03/10/25

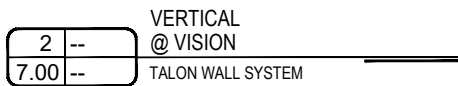
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1	--	SILL SECTION
6.01	--	TALON WALL SYSTEM

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	WJB	N/A	NO.	DESCRIPTION	DATE			
	SCALE:	GLAZING CONTRACTOR:	01	FINAL RECORD	02/28/25	PROJECT NAME:	IMPACT TEST MOCKUP	
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Date: 03/11/25

SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	03/11/25	N/A	Original Report Issue