

	PROJECT: 3060-A4 Fixed Impact - Product Evaluation	BY: JAR DATE: 08/23/2023
	PROJECT NO.: Q4674.06-122-34	CKD: TAD SHEET: 1 OF 5

Product Evaluation

3060-A4 Fixed Window – Impact

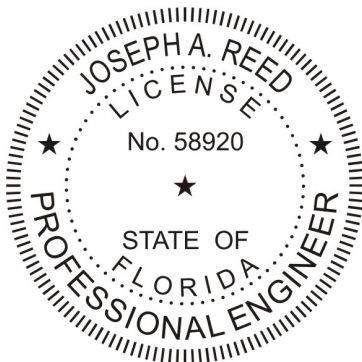
Project Q4674.06-122-34

Rendered to:

ST. CLOUD WINDOW
390 Industrial Boulevard
Sauk Rapids, Minnesota 56379

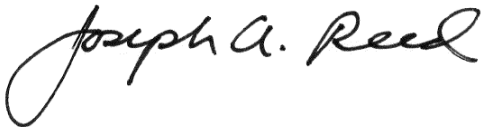
Prepared by:

Joseph A. Reed, P.E.
Tanya A. Dolby, P.E.



Architectural Testing, Inc.
130 Derry Court
York, Pennsylvania 17406
(717) 764-7700
FL COA 29274

August 23, 2023



Joseph A. Reed, P.E.
Senior Project Engineer
FL PE 58920

2023.08.29 16:15:01 -04'00'



Digitally Signed by: Tanya Dolby

Tanya A. Dolby, P.E.
Manager – Engineering Services

	PROJECT: 3060-A4 Fixed Impact – Product Evaluation	BY: JAR DATE: 08/23/2023
	PROJECT NO.: Q4674.06-122-34	CKD: TAD SHEET: 2 OF 5

Subject: 3060-A4 Fixed Window – Impact
St. Cloud Window
390 Industrial Boulevard
Sauk Rapids, Minnesota 56379

Scope: Product Evaluation per Chapter 61G20-3.005(1)(d) Florida Administrative Code, Evaluation report from a Florida Registered Architect or a Licensed Florida Professional Engineer.

Building Code Compliance: This product has demonstrated compliance with the Florida Building Code, Building, 8th Edition (2023):
§1609.1.2 Protection of openings
§1709.5 Exterior window and door assemblies
§2404 Wind, Snow, Seismic and Dead Loads on Glass

Performance Standards: TAS 202, TAS 201, TAS 203
ASTM E1300-12ae1

Product Description: Window Frame Aluminum (6063-T6)
Miter cut corners with internal aluminum corner keys; three (3) corner keys per corner.

Glazing Validate Glazing with ASTM E1300

Glazing Type	Glazing Construction
1-1/4" IG	(2) 1/8" Annealed + 0.030" PVB Interlayer (Exterior) 9/16" Air Space with Stainless Steel Spacer 1/8" Annealed + 0.090" PVB Interlayer + 1/4" Annealed (Interior)

Note Interlayer for exterior lite is Trosifol SC PVB interlayer as documented in Miami-Dade NOA 22-1116.03.

Interlayer for the interior lite is Trosifol Clear PVB interlayer as documented in Miami-Dade NOA 23-0717.28.

Exterior glazed against aluminum glazing leg with heal bead of Dow 791 silicone, Tremco POLYshim II tape and cap bead of Dow 791 silicone. Toe bead of Dow 791 silicone to exterior. Exterior snap-in aluminum glazing stop with dartwedge glazing gasket. 3/4" bite.

Anchorage Various anchorages (see *Installation*)

For additional product information see Appendix A and attached Product drawings.

	PROJECT: 3060-A4 Fixed Impact – Product Evaluation	BY: JAR DATE: 08/23/2023
	PROJECT NO.: Q4674.06-122-34	CKD: TAD SHEET: 4 OF 5

Supporting Evidence: Test Report QCT21-6391.01 (TAS 201, TAS 202, TAS 203)
Revision -, 11/08/21
Quast Consulting and Testing. Mosinee, Wisconsin (TST8039)
Report sealed by Arlen Fisher, PE (FL PE 87795)

Calculation Report Q4674.05-122-34
Revision -, 08/23/23
Joseph A. Reed, PE (FL PE 58920)

Certification of Independence: In accordance with Rule 61G20-3 Florida Administrative Code, Architectural Testing, Inc. hereby certifies the following:

1. Architectural Testing, Inc. does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products tested or labeled by the agency.
2. Architectural Testing, Inc. is not owned, operated or controlled by any company manufacturing or distributing products it tests or labels.
3. Joseph A. Reed, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the reports are being issued.
4. Joseph A. Reed, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

Reference Drawings: 3060-A4 Fixed – Impact. Drawing No. Q4674-1003 Rev. -, 08/23/23.

Revision Log

<u>Identification</u>	<u>Date</u>	<u>Page & Revision</u>
Original Issue	08/23/23	Not Applicable

	PROJECT: 3060-A4 Fixed Impact – Product Evaluation	BY: JAR DATE: 08/23/2023
	PROJECT NO.: Q4674.06-122-34	CKD: TAD SHEET: 5 OF 5

Appendix A – Detailed Product Description

Glazing Details Exterior glazed against aluminum glazing leg with heal bead of Dow 791 silicone, Tremco POLYshim II tape and cap bead of Dow 791 silicone. Toe bead of Dow 791 silicone to exterior. Exterior snap-in aluminum glazing stop with dartwedge glazing gasket. 3/4" bite.

Weatherstripping: Dartwedge Gasket 1 row full perimeter at exterior glazing stop

Poly Foam Backer Rod 1 row full perimeter at exterior glazing pocket

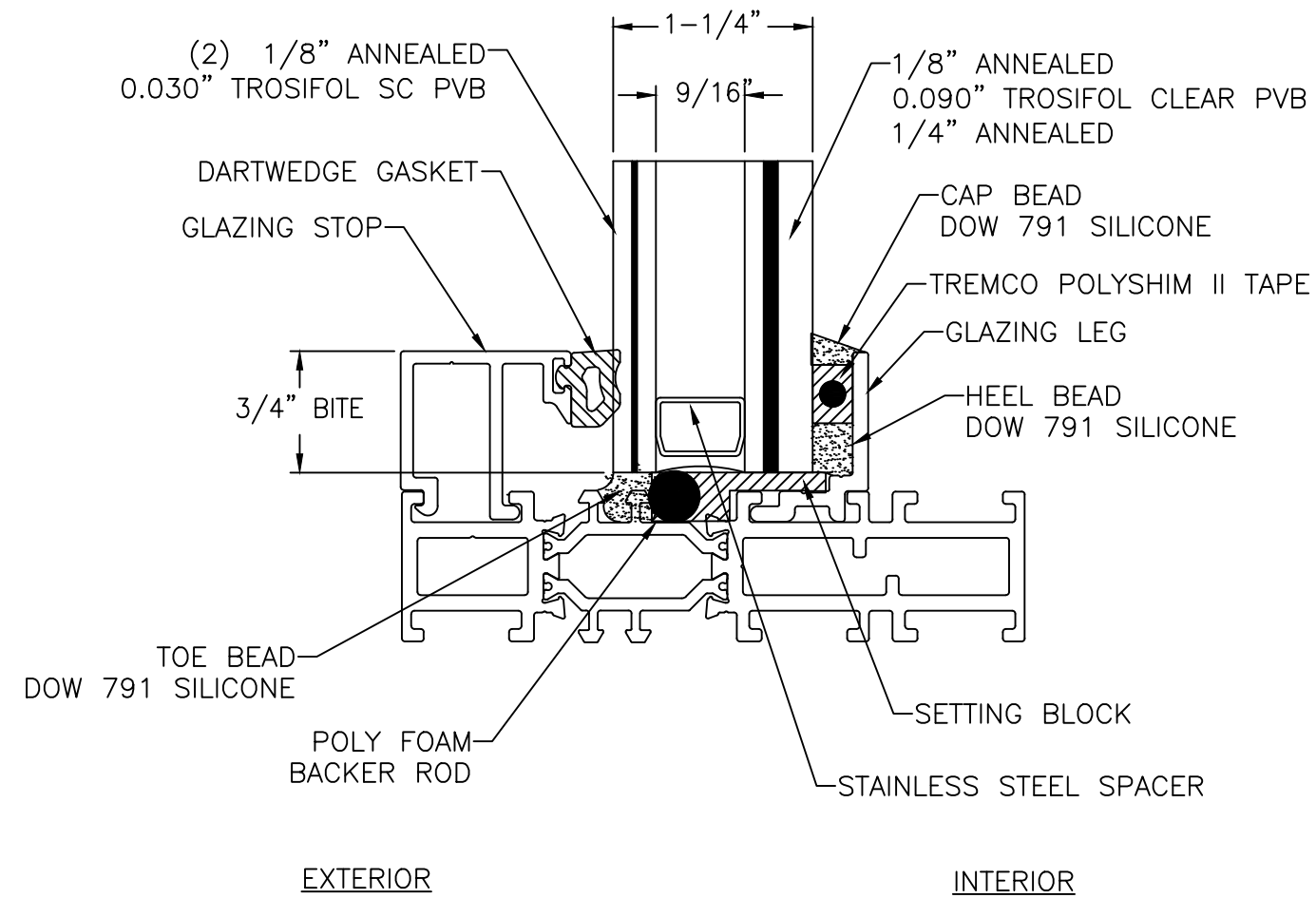
Frame Construction: Miter cut corners with internal aluminum corner keys; three (3) corner keys per corner.

Drainage: (2) 1-1/2" x 5/16" weep slot with cover Sill, 4-3/4" from each jamb

Hardware: None

Reinforcement: None

GLAZING DETAIL
1-1/4" INSULATING GLASS



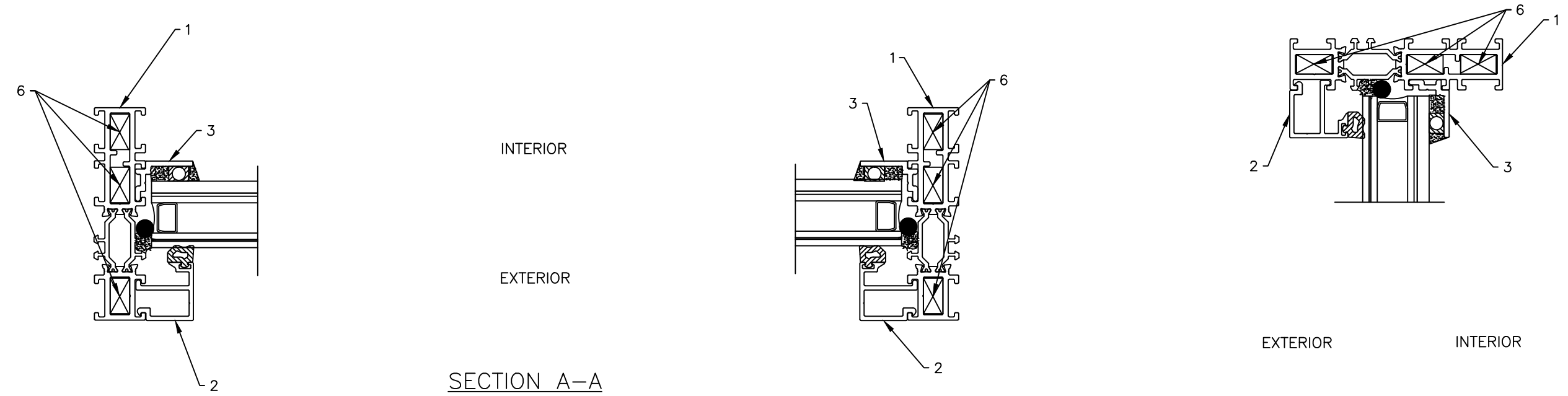
3060-A4 Fixed Window - Impact
Glazing Details

St. Cloud Window
390 Industrial Boulevard
Sauk Rapids, MN 56379

Drawing No.: Q4674-1003
Project No.: Q4674.01-122-34
Drawn By: JAR Rev: - Date: 08/23/23

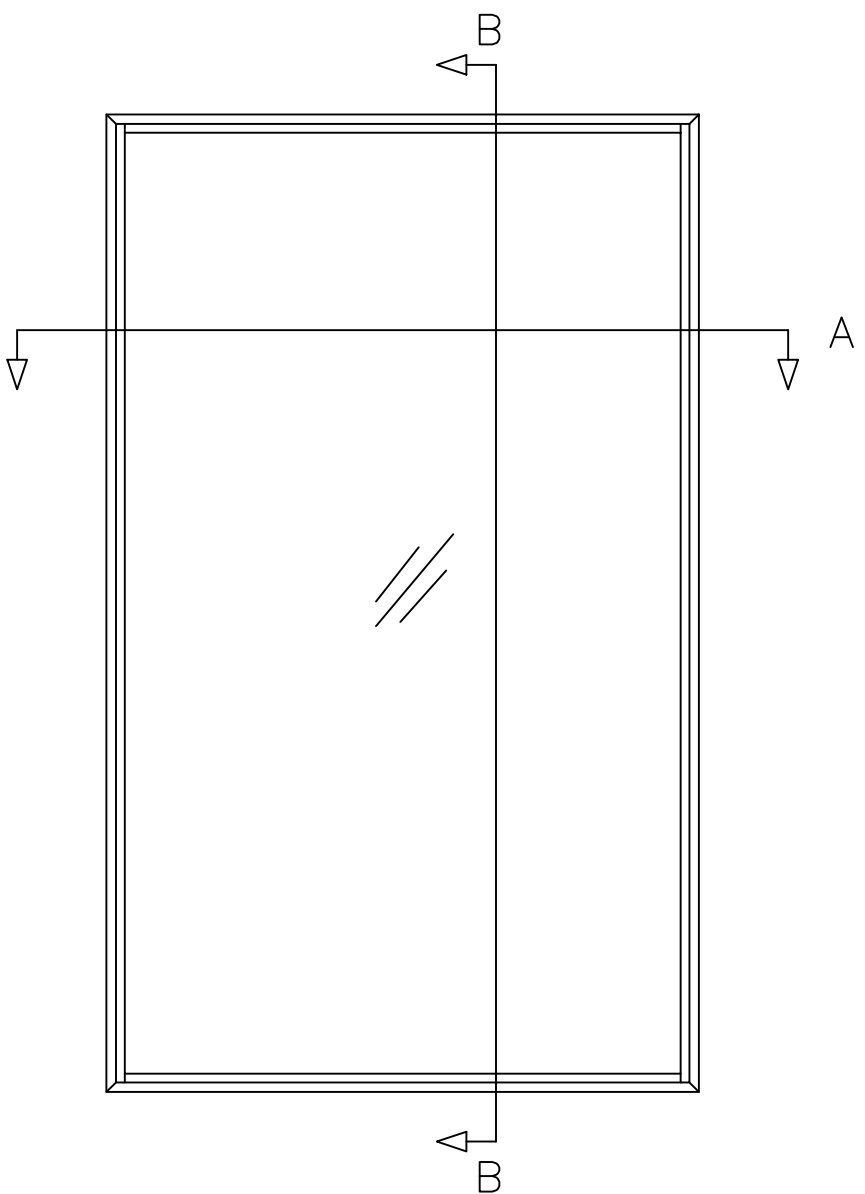
Scale: NTS

Sheet 8 of 10



SECTION A-A

SECTION B-B



ITEM NO.	NAME	MATERIAL	DESCRIPTION
1	Master Frame	6063-T6	EXTRUSION
2	Glazing Stop	6063-T6	EXTRUSION
3	Glazing Leg	6063-T6	EXTRUSION
4	Weep Cover	Alum / Plastic	ASSEMBLY
5	Setting Block	Silicone	EXTRUSION
6	Corner Key	Aluminum	CASTING

WEATHERSTRIPPING		
ITEM	NUMBER	LOCATION
Dartwedge Gasket	1 Row	Glazing Stop, Full Perimeter
Tremco POLYshim II Tape	1 Row	Glazing Leg, Full Perimeter
Poly Foam Backer Rod	1 Row	Glazing Pocket, Full Perimeter

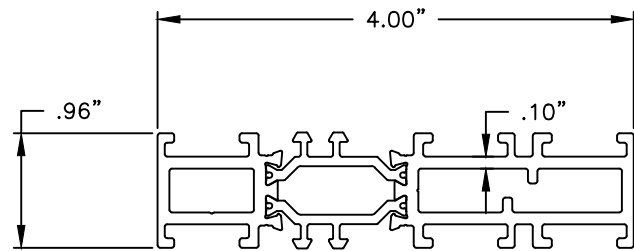
3060-A4 Fixed Window - Impact
Sections and Bill of Materials

St. Cloud Window
390 Industrial Boulevard
Sauk Rapids, MN 56379

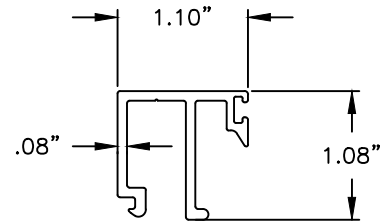
Drawing No.: Q4674-1003
Project No.: Q4674.01-122-34
Drawn By: JAR Rev: - Date: 08/23/23

Scale: NTS

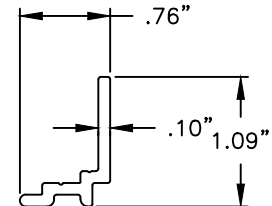
Sheet 9 of 10



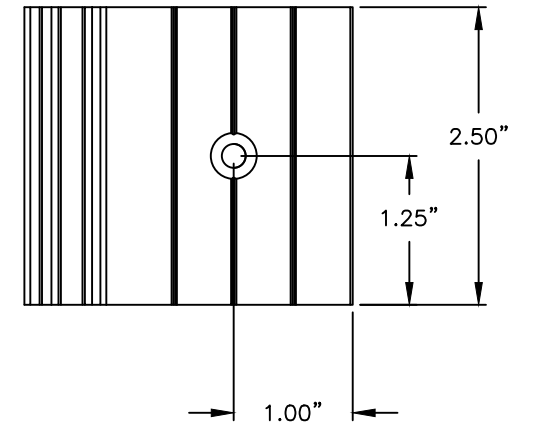
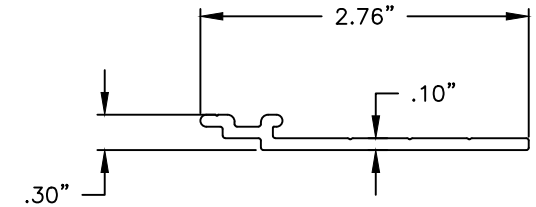
MASTER FRAME
6063-T6



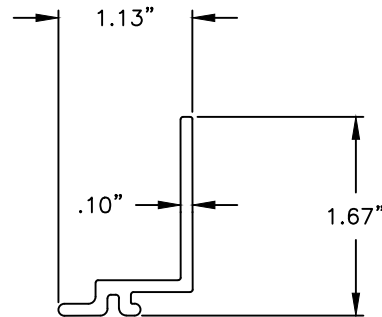
GLAZING STOP
6063-T6



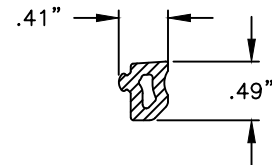
GLAZING LEG
6063-T6



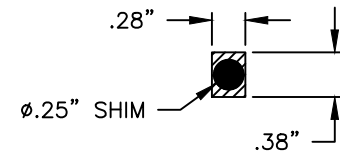
STRAP ANCHOR
6063-T6



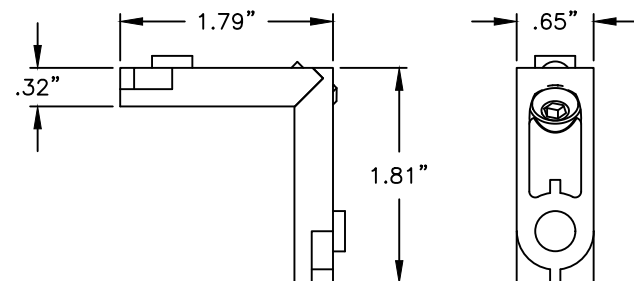
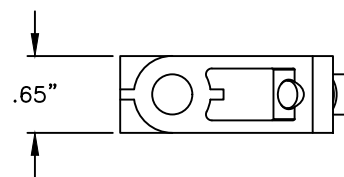
NAIL FIN
6063-T6



DARTWEDGE GASKET
EPDM



TREMCO POLYSHIM II TAPE
BUTYL TAPE / EPDM SHIM



CORNER KEY
CASTING

3060-A4 Fixed Window - Impact Components

St. Cloud Window

390 Industrial Boulevard
Sauk Rapids, MN 56379

Drawing No.: Q4674-1003
Project No.: Q4674.01-122-34
Drawn By: JAR Rev: - Date: 08/23/23

Scale: NTS

Sheet 10 of 10