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# GRANDVIEW EA BUILDING SYSTEMS

# TEST REPORT

**TEST REPORT ISSUED TO**
Grandview EA Building Systems
579-999 West Broadway
Vancouver, BC V5Z 1K5
Canada

**SPECIFICATION**
AAMA/WDMA/CSA 101/I.S.2/A440-11
AAMA/WDMA/CSA 101/I.S.2/A440-17
A440S1-17
A440S1-19

**PRODUCT SERIES & TYPE**
Enermax 150 Series Fixed Window

**PRIMARY DESIGNATION**
Class AW – PG40 – Size Tested 1502 x 2510 mm (59 x 99 in) – Type FW

**SECONDARY DESIGNATION**
Positive Design Pressure = 1920 Pa (40.1 psf)
Negative Design Pressure = 1920 Pa (40.1 psf)
Water Penetration Resistance = 720 Pa (15.0 psf)
Canadian Air Leakage Resistance = Fixed

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# TEST REPORT FOR GRANDVIEW EA BUILDING SYSTEMS

Report No.: 104182880COQ-001A
Date: 28-Jul-2020

## CONCLUSION

The Enermax 150 Series Fixed Window System, submitted by Grandview Building Systems, tested and described within this report, achieved the overall performance requirements of **Class AW – PG40** when tested in accordance with NAFS-11, NAFS-17, A440S1-17 and A440S1-19.

For INTERTEK B&C:

| | | | |
|---|---|---|---|
| **COMPLETED BY:** | Jason Komorski | **REVIEWED BY:** | David Park |
| **TITLE:** | Technician – Building & Construction | **TITLE:** | Reviewer – Building & Construction |
| **SIGNATURE:** |  | **SIGNATURE:** |  |
| **DATE:** | 28-Jul-2020 | **DATE:** | 28-Jul-2020 |

## SECTION 1
# SUMMARY OF RESULTS

A summary of results for AAMA/WDMA/CSA 101/I.S.2/A440-11 *"Standard/Specification for windows, doors, and unit skylights"*, AAMA/WDMA/CSA 101/I.S.2/A440-17 *"Standard/Specification for windows, doors, and unit skylights"*, A440S1-17 *"Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for windows, doors, and skylights"*, and A440S1-19 *"Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for windows, doors, and skylights"*, are as indicated in the table below:

| Evaluation Property | Results |
|---|---|
| Air Leakage Resistance @ 75 Pa (1.6 psf) | US – Pass; Can – Fixed |
| Air Leakage Resistance @ 300 Pa (6.3 psf) | US – Pass; Can – Fixed |
| Water Penetration Resistance (Static & Cyclic) | 720 Pa (15.0 psf) |
| Uniform Load – Deflection | 1920 Pa (40.1 psf) |
| Vent / Sash / Door Leaf Cycling | N/A |
| Locking Hardware Cycling | N/A |
| Misuse Test | N/A |
| Thermal Cycling | Pass |
| Air Leakage Resistance #2 @ 75 Pa (1.6 psf) | US – Pass; Can – Fixed |
| Air Leakage Resistance #2 @ 300 Pa (6.3 psf) | US – Pass; Can – Fixed |
| Water Penetration Resistance #2 (Static & Cyclic) | 720 Pa (15.0 psf) |
| Uniform Load – Structural | 2880 Pa (60.2 psf) |
| Forced Entry Resistance | Gr. 40 |
| Thermoplastic Corner Weld Test | N/A |

Details of the tested results can be found in Section 7 of this report.

Primary and Secondary Designations are as indicated below:

**Enermax 150 Series Fixed Window**
Class AW – PG40 – Size Tested 1502 x 2510 mm (59 x 99 in) – Type FW

**Secondary Designator**
Positive Design Pressure = 1920 Pa (40.1 psf)
Negative Design Pressure = 1920 Pa (40.1 psf)
Water Penetration Resistance = 720 Pa (15.0 psf)
Canadian Air Leakage Resistance = Fixed

## SECTION 2
# INDEX

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## SECTION 3
## OBJECTIVE

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for **Grandview Building Systems** (Grandview) on a 1502 mm (59.1") x 2510 mm (98.8") Enermax 150 Series Fixed Window System. Testing was conducted in accordance with following standard / specification:

- AAMA/WDMA/CSA 101/I.S.2/ A440-11 *"Standard/Specification for windows, doors, and unit skylights"* (NAFS-11)
- A440S1-17 *"Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for windows, doors, and skylights"* (A440S1-17)
- AAMA/WDMA/CSA 101/I.S.2/ A440-17 *"Standard/Specification for windows, doors, and unit skylights"* (NAFS-17)
- A440S1-19 *"Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for windows, doors, and skylights"* (A440S1-19)

This evaluation was started on June 18, 2020 and completed on July 8, 2020.

## SECTION 4
## SAMPLE ASSEMBLY AND DESCRIPTION

| | |
|---|---|
| **Manufacturer Information** | Grandview Building Systems<br>579–999 West Broadway<br>Vancouver, BC V5Z 1K5<br>Canada |
| **Model Name** | • Enermax 150 Series Fixed Window |
| **Installation** | • Test Buck: 2x8 #2 & better spf, box w/ 2x12, #2 & better spf, cladding, butt joints secured with 2x #8 x 3" flat head screws. The 2x12 clad was also butt jointed together with 4x #8 x 3" flat head screws and secured to the 2x8 with #8 x 3" flat head screws at least at every 305 mm (12"). An aluminum skin membrane was used over the entire test buck.<br>  • The sill is secured with a length of aluminum angle, approximately 2" x 1", 0.125" thick. The angle is secured to the test buck with 6x #10 x 1-1/2" wafer head self-taping screws. The angle is secured to the window sill with 9x #10 x 3/4" wafer head self-tapping screws. The head track was secured with the use of 6x #12 x 1-1/2" flat-head. The jambs were not secured to the test buck with fasteners.<br>• Backer rod and silicone were used to seal the rough opening of the buck on the interior and exterior full perimeter. |

| | |
|---|---|
| **Size** | • Overall Size:<br>  • Width: 1502 mm (59.1”)<br>  • Height: 2510 mm (98.8”) |
| **Frame** | • Material: Aluminum with thermal struts<br>• Jamb profile is snapped on to a jamb track profile, with a gasket used on each the exterior and interior side between the profiles. The profiles are secured together with #8 x 1” self-tapping screws, approximately 48” o.c.<br>• The exterior cavity and the 2x thermal break cavities are filled with roxul insulation.<br>• Head profile is secured in to a two-piece head track, with a gasket used on each the exterior and interior side between the profiles. The exterior cavity and the thermal break cavity are filled with roxul insulation.<br>• Corners: Butt joined and secured with 4x #8 x 1” screws. Silicone is used around all seams of the frame joint.<br>• Reinforcement: None |
| **Drainage** | • None |
| **Glazing** | • IGU specification:<br>  • 6 mm / 6 mm clear annealed glass with a 12 mm (1/2”) spacer bar, sealed using polyisobutylene.<br>  • Overall thickness, 24 mm (~1")<br>• Laid-in, interior dry glazed on top of a perimeter of a glazing gasket, applied as 4x lengths. A full bead of silicone was used around the full perimeter of the glass unit, in the setting block cavity.<br>• Glazing Blocks: Black neoprene setting blocks, approximately 102 mm (4”) x 25 mm (1”) x 5 mm (0.20”). 2x under the glass unit, 343 mm (13-1/2”) from the corners of the glass unit.<br>• Glazing Stops: Vinyl |
| **Drawings** | • Copy of drawings supplied by Grandview Building Systems included in Appendix A. |

# SECTION 5
# TESTING AND EVALUATION METHODS

## AIR LEAKAGE RESISTANCE

The Air Leakage Resistance test was performed in accordance with ASTM E283-04(2012), *"Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen"*. Air infiltration and exfiltration tests were performed using test pressures of 75 Pa (1.57 psf). The maximum air leakage rate was calculated and compared to the allowable air leakage.

## CYCLIC WATER PENETRATION RESISTANCE

The Cyclic Water Penetration Resistance Test was performed in accordance with 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 E547). The test was performed using the specified pressure differential and a water spray rate of at least 204 L/m$^2$ per hour (5.0 U.S. gal/ft$^2$ per hour). Each cycle consisted of five minutes with the pressure applied and one minute with the pressure released, during which the water spray was continuously applied.

## STATIC WATER PENETRATION RESISTANCE

The Static Water Penetration Resistance Test was performed in accordance with ASTM E331-00(2016) *"Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference"* (ASTM E331). The test was performed using the specified pressure differential and a water spray rate of at least 204 L/m$^2$ per hour (5.0 U.S. gal/ft$^2$ per hour). Duration of the test was 15 minutes, during which the water spray and air pressure was continuously applied.

## THERMAL CYCLING

The Thermal Cycling Test was performed in general accordance with AAMA 501.5 *"Test Method for Thermal Cycling of Exterior Walls"* following the cycle and temperature requirements in Section 3.7 of AAMA 910. The test consisted of six cycles of hot, 82°C (180°F) and cold, -18°C (0°F).

## UNIFORM LOAD DEFLECTION

The Uniform Load Deflection tests were conducted in accordance with ASTM E330/E330M-14 *"Standard Test Method for Structural Performance of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference"* (ASTM E330), Procedure A. The tests were performed in both the positive and negative directions. After a 10 second preload (50% of the test load), followed by 1 minute with the pressure released, the tests were conducted at the specified test pressure for a period of 10 seconds. Deflections were measured at the mid-span and at the ends. The end deflections were averaged and subtracted from the mid-span deflection (to eliminate deflections caused by movement at the ends of the structural supporting members). Polyethylene film was used during the positive wind pressure sequences.

## AIR LEAKAGE RESISTANCE #2

The Air Leakage Resistance test was repeated.

## CYCLIC WATER PENETRATION RESISTANCE #2

The Cyclic Water Penetration Resistance test was repeated.

## STATIC WATER PENETRATION RESISTANCE #2

The Static Water Penetration Resistance test was repeated.

## UNIFORM LOAD STRUCTURAL

The Uniform Load Structural tests were conducted in accordance with ASTM E330/E330M-14 *"Standard Test Method for Structural Performance of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference"* (ASTM E330), Procedure A. After a 10 second preload (50% of test load), followed by 1 minute with the pressure released, the sample was subjected to a Uniform Load Structural test using a specified test pressure for a time of 10 seconds. The test was performed in both the positive and negative directions. After the test loads were released, the permanent deflections were recorded and the specimen was inspected for failure or permanent deformation of any part of the system that would cause any operational malfunction. Polyethylene film was used during the positive wind pressure sequences.

## FORCED ENTRY RESISTANCE

The Forced-entry Resistance Test was conducted in accordance with ASTM F588-14 *"Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact"*. This included the Disassembly, Sash Manipulation, Lock Hardware Manipulation, and Assembly Tests.

## DEVIATION FROM STANDARD METHOD

There were no noted deviations from the test standards used in the evaluation reported herein.

## SECTION 6

## TEST EQUIPMENT

Equipment used during testing is listed as follows:

| Test | Equipment | Intertek ID# |
|---|---|---|
| Air Leakage Resistance,<br>Water Penetration Resistance, and<br>Uniform Load Deflection / Structural | Fenestration Testing Control Unit | 60650 |
| | Water spray assembly | 60651 |
| | | 60652 |
| | | 60653 |
| | 20” Line Gauge | 60673 |
| | | 64928 |
| | | 64926 |

## SECTION 7
# RESULTS AND OBSERVATIONS

## AIR LEAKAGE RESISTANCE

Air test data is indicated in the following table:

| Property | Test Pressure Pa (psf) | Area $m^2$ ($ft^2$) | Infiltration Rate L/s*$m^2$ (cfm/$ft^2$) | Exfiltration Rate L/s*$m^2$ (cfm/$ft^2$) | Compliance US (CAN) |
|---|---|---|---|---|---|
| Overall Assembly | 75 (1.6) | 3.77 (40.58) | 0.02 (0.00) | 0.02 (0.00) | Pass (Fixed) |
| Overall Assembly | 300 (6.3) | 3.77 (40.58) | 0.06 (0.01) | 0.03 (0.01) | Pass (Fixed) |
| **Allowable Leakage Rates** | | | | | |
| Maximum allowable air leakage rate (US): | | | | 1.5 L/s*$m^2$, 0.3 cfm/$ft^2$ | |
| Maximum allowable air leakage rate (CAN – Fixed): | | | | 0.2 L/s*$m^2$, 0.04 cfm/$ft^2$ | |

The overall system **met** the US and Canadian performance requirements as reported above when evaluated under NAFS-11, NAFS-17, A440S1-17 and A440S1-19.

## WATER PENETRATION RESISTANCE

During the 24-minute test period, using a pressure differential of 720 Pa (15.0 psf), there was no water leakage observed. The system met the **(CAN) PG100** Water Penetration Resistance performance requirements under NAFS-11, NAFS-17, A440S1-17 and A440S1-19.

## THERMAL CYCLING

| No. of Cycles | Exterior Conditions | | Interior Conditions |
|---|---|---|---|
| | Hot Temperature | Cold Temperature | |
| 6 | 82°C (180°F) | -18°C (0°F) | 24°C (74°F) |

Upon completion of the thermal cycling, there was found to be no failure or permanent deformation due to the expansion and contraction of the system that would cause any operational malfunction. The system **met** the Thermal Cycling performance requirements of AAMA 910.

## UNIFORM LOAD – DEFLECTION

Uniform Load Deflection data:

Jamb span, L = 2440 mm (96.06")

Deflection limit, L/175 = 13.94 mm (0.55")

| Test Pressure, Pa (psf) | Deflection Measurements, mm (in.) | | | | Compliance |
|---|---|---|---|---|---|
| | Positive | | Negative | | |
| | Deflection | Residual | Deflection | Residual | |
| 1920 (40.1) | 1.56 (0.08) | 0.08 (0.00) | 1.16 (0.05) | 0.08 (0.00) | Pass **DP40** |

After the test loads were released, the specimen was inspected and there was found to be no failure or permanent deformation of any part of the window system that would cause any operational malfunction. The system met the deflection requirements for **DP40** Uniform Load performance requirements under NAFS-11 and NAFS-17.

## AIR LEAKAGE RESISTANCE #2

Air test data is indicated in the following table:

| Property | Test Pressure Pa (psf) | Area $m^2$ ($ft^2$) | Infiltration Rate L/s*$m^2$ (cfm/$ft^2$) | Exfiltration Rate L/s*$m^2$ (cfm/$ft^2$) | Compliance US (CAN) |
|---|---|---|---|---|---|
| Overall Assembly | 75 (1.6) | 3.77 (40.58) | 0.06 (0.01) | 0.06 (0.01) | Pass (Fixed) |
| Overall Assembly | 300 (6.3) | 3.77 (40.58) | 0.12 (0.02) | 0.08 (0.02) | Pass (Fixed) |
| **Allowable Leakage Rates** | | | | | |
| Maximum allowable air leakage rate (US): | | | | 1.5 L/s*$m^2$, 0.3 cfm/$ft^2$ | |
| Maximum allowable air leakage rate (CAN – Fixed): | | | | 0.2 L/s*$m^2$, 0.04 cfm/$ft^2$ | |

The overall system **met** the US and Canadian performance requirements as reported above when evaluated under NAFS-11, NAFS-17, A440S1-17 and A440S1-19.

## WATER PENETRATION RESISTANCE #2

During the 24-minute test period, using a pressure differential of 720 Pa (15.0 psf), there was no water leakage observed. The system met the **(CAN) PG100** Water Penetration Resistance performance requirements under NAFS-11, NAFS-17, A440S1-17 and A440S1-19.

## UNIFORM LOAD – STRUCTURAL

Uniform Load Structural data:

Jamb span, L = 3000 mm (118.11")

Residual deflection limit, L*0.2% = 6.00 mm (0.24")

| Test Pressure, Pa (psf) | Deflection Measurements, mm (in.) | | Compliance |
|---|---|---|---|
| | Positive | Negative | |
| | Residual | Residual | |
| 2880 (60.1) | 0.15 (0.01) | 0.05 (0.00) | Pass **DP40** |

After the test loads were released, the specimen was inspected and there was found to be no failure or permanent deformation of any part of the window system that would cause any operational malfunction. The system met the structural requirements for **DP40** Uniform Load performance requirements under NAFS-11 and NAFS-17.

## FORCED ENTRY RESISTANCE

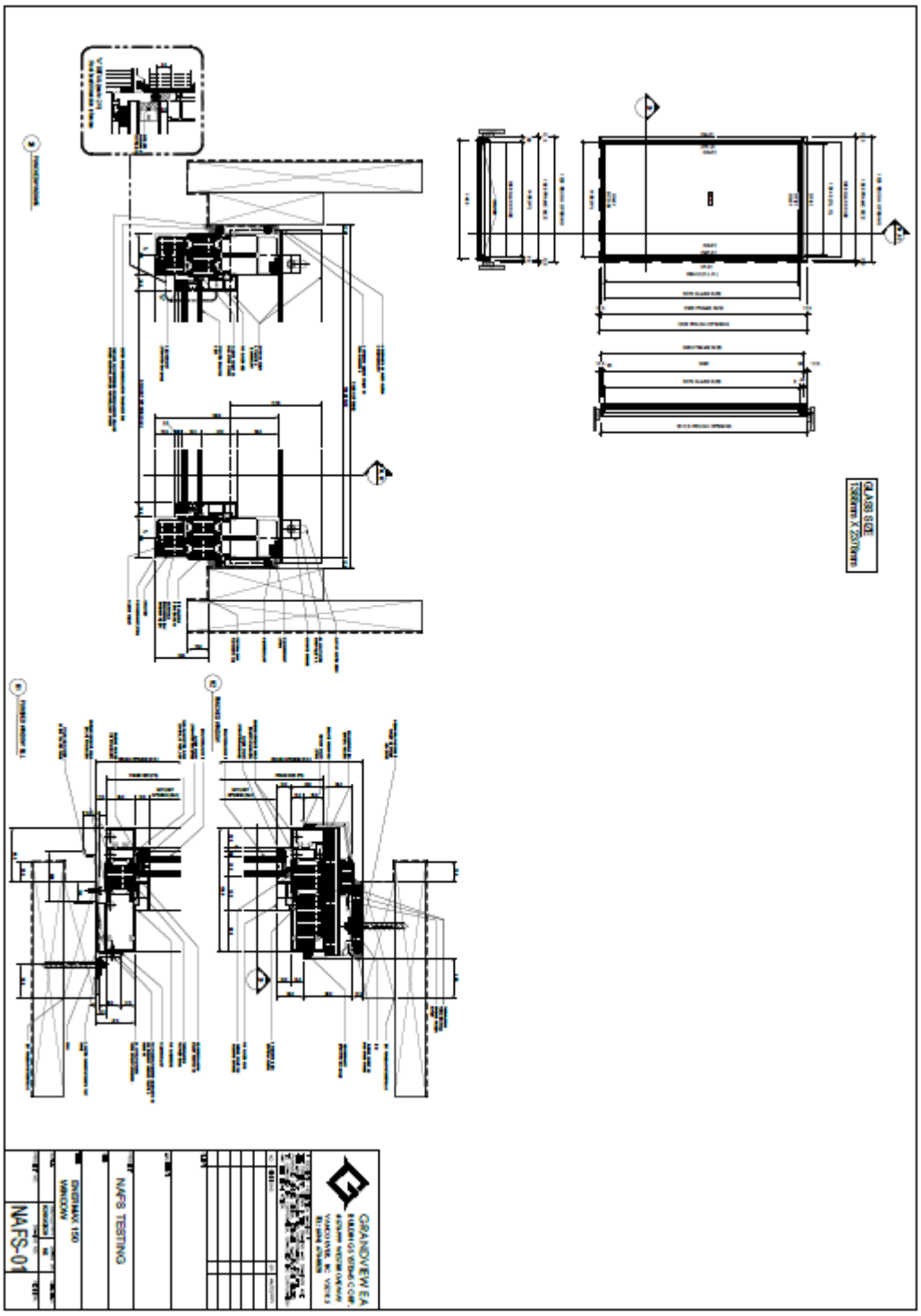
Attempts to gain entry by opening the glazing panel, in accordance with the Disassembly and Sash Manipulation tests for a Type D assembly, were unsuccessful. The system met the **Grade 40** Forced-entry Resistance performance requirements of NAFS-11 and NAFS-17.

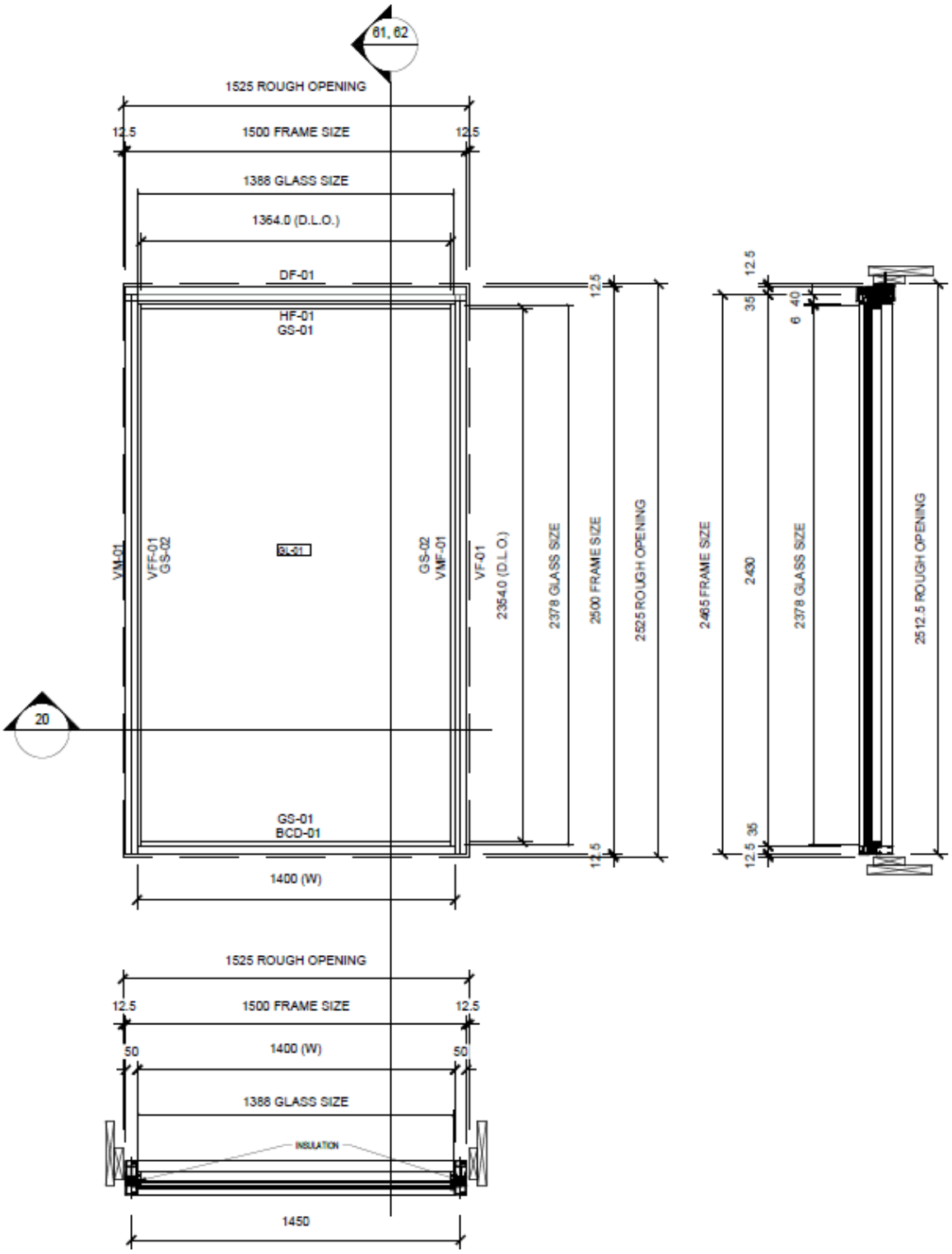
## SECTION 8
## CONCLUSION

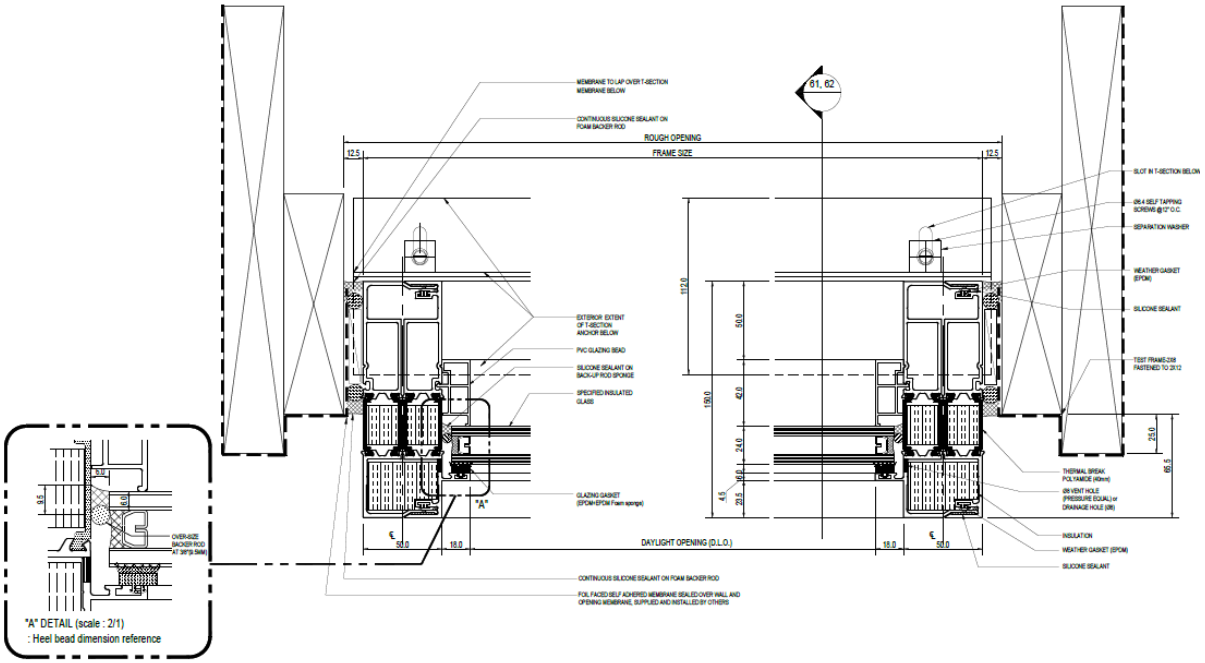
The Enermax 150 Series Fixed Window System, submitted by Grandview Building Systems, tested and described within this report, achieved the overall performance requirements of **Class AW – PG40** when tested in accordance with NAFS-11, NAFS-17, A440S1-17 and A440S1-19.

SECTION 9

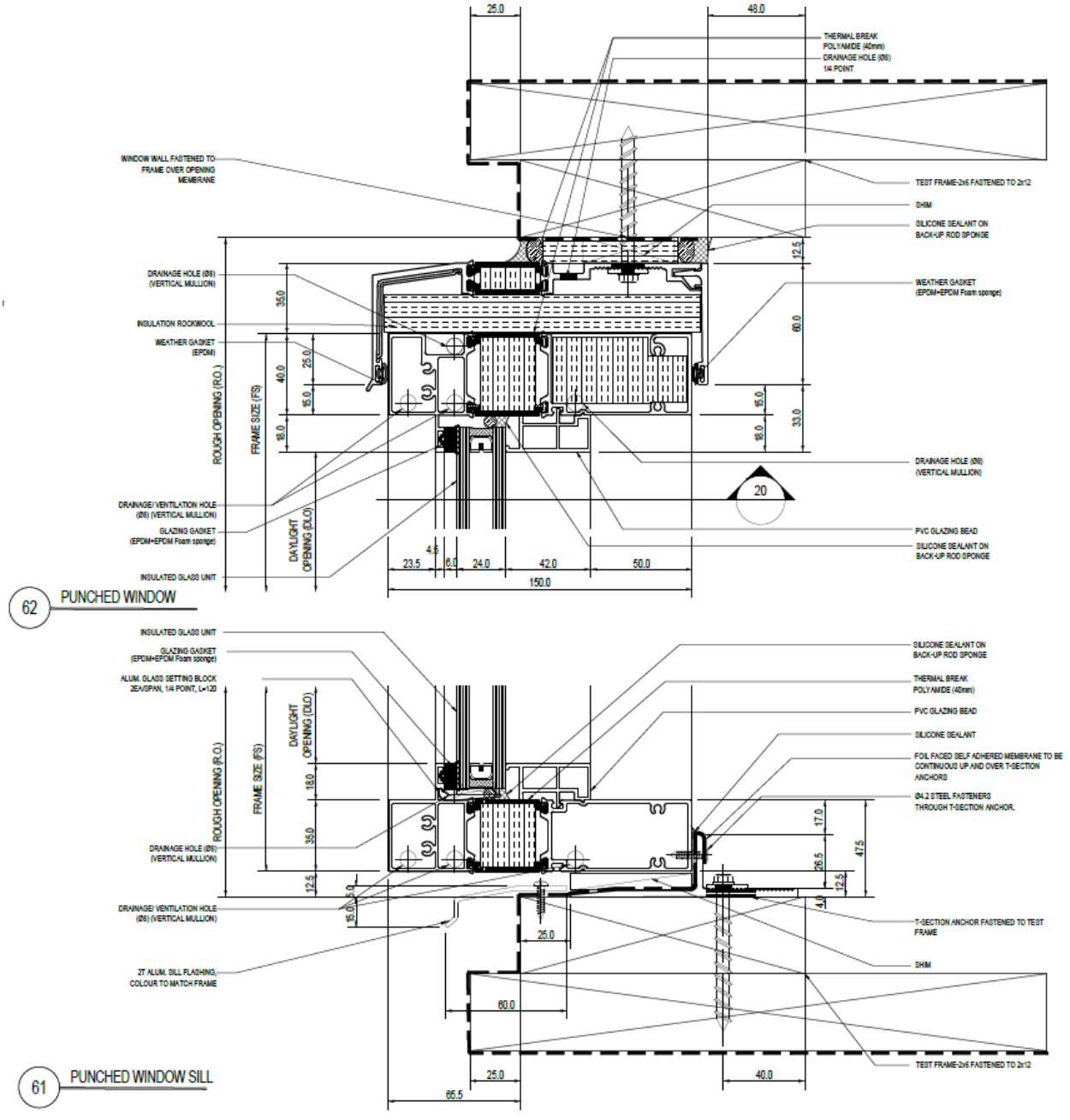
## APPENDIX A: DRAWINGS
## (9 Pages)


GLASS SIDE
1366mm X 2578mm
GRANDVIEW EA
NAFS TESTING
NAFS-01

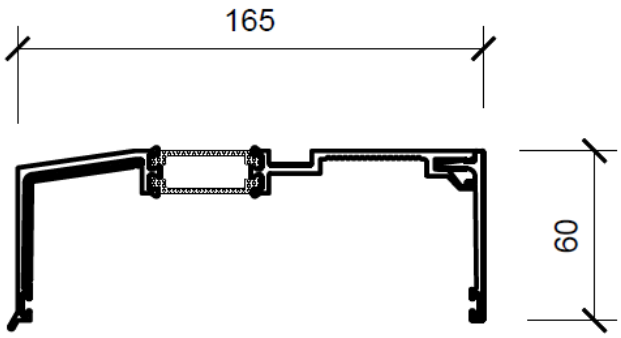

61, 62
1525 ROUGH OPENING
12.5
1500 FRAME SIZE
12.5
1388 GLASS SIZE
1364.0 (D.L.O.)
DF-01
HF-01
GS-01
VM-01
VFF-01
GS-02
GL-01
GS-02
VMF-01
VF-01
2354.0 (D.L.O.)
2378 GLASS SIZE
2500 FRAME SIZE
2525 ROUGH OPENING
12.5
12.5
20
GS-01
BCD-01
1400 (W)
1525 ROUGH OPENING
12.5
1500 FRAME SIZE
12.5
50
1400 (W)
50
1388 GLASS SIZE
INSULATION
1450
12.5
35
6
40
2465 FRAME SIZE
2400
2378 GLASS SIZE
2512.5 ROUGH OPENING
12.5
35



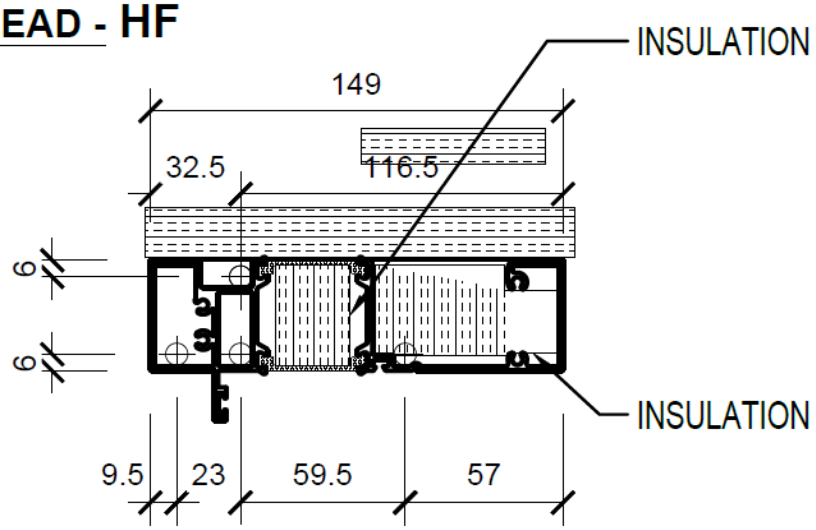

20 PUNCHED WINDOWS


25.0
48.0
THERMAL BREAK POLYAMIDE (40mm)
DRAINAGE HOLE (Ø8) 1/4 POINT
WINDOW WALL FASTENED TO FRAME OVER OPENING MEMBRANE
TEST FRAME-2x6 FASTENED TO 2x12
SHIM
SILICONE SEALANT ON BACK-UP ROD SPONGE
DRAINAGE HOLE (Ø8) (VERTICAL MULLION)
INSULATION ROCKWOOL
WEATHER GASKET (EPDM)
WEATHER GASKET (EPDM+EPDM Foam sponge)
ROUGH OPENING (R.O.)
FRAME SIZE (FS)
DAYLIGHT OPENING (DLO)
DRAINAGE/VENTILATION HOLE (Ø8) (VERTICAL MULLION)
GLAZING GASKET (EPDM+EPDM Foam sponge)
INSULATED GLASS UNIT
PVC GLAZING BEAD
20
23.5
4.5
6.0
24.0
42.0
50.0
150.0
62 PUNCHED WINDOW
ALUM. GLASS SETTING BLOCK 2EA/SPAN, 1/4 POINT, L=120
SILICONE SEALANT
FOIL FACED SELF ADHERED MEMBRANE TO BE CONTINUOUS UP AND OVER T-SECTION ANCHORS
Ø4.2 STEEL FASTENERS THROUGH T-SECTION ANCHOR.
T-SECTION ANCHOR FASTENED TO TEST FRAME
2T ALUM. SILL FLASHING, COLOUR TO MATCH FRAME
60.0
65.5
40.0
61 PUNCHED WINDOW SILL

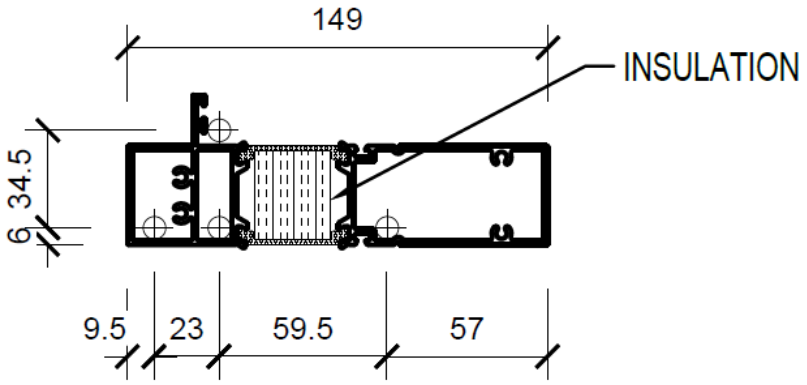
## DEFLECTION HEAD - DF



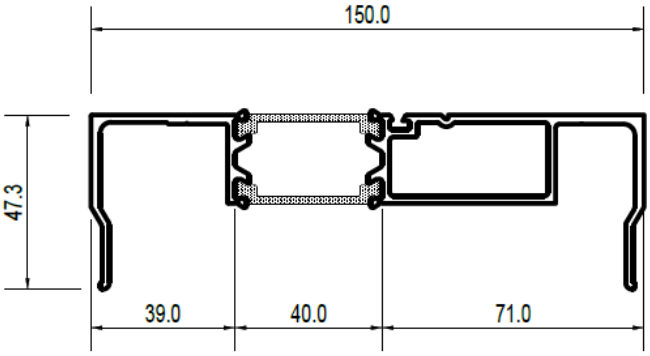

## HEAD - HF



## INTERMEDIATE HORIZONTAL - IHF



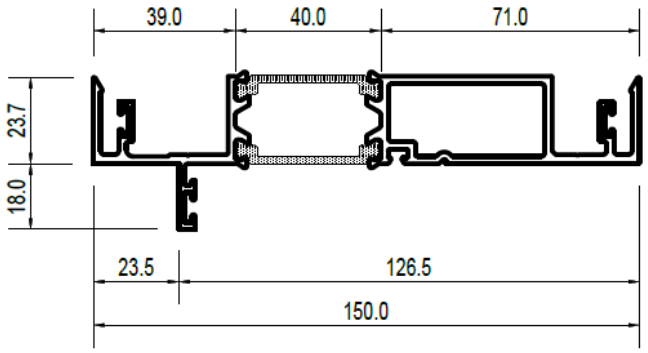

## VM




VMa (CW-EXPC006A) VMFb (CW-EXPC005B

| | | | |
|---|---|---|---|
| SHAPE NAME | MALE MULLION -NO FIN | SHAPE NO | CW-EXPC006 |
| FINISH | PVDF-3 | | |
| ALLOY&TEMP | A6063-T5 | | |

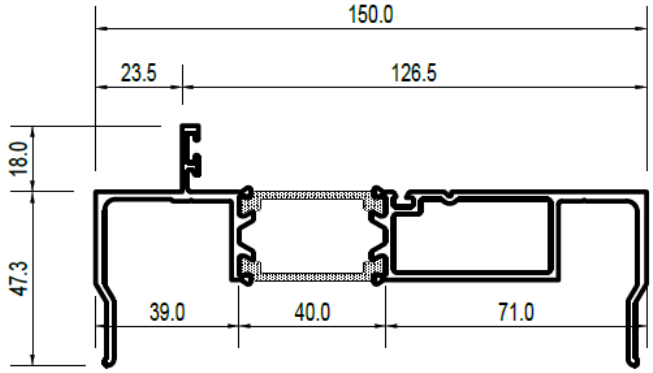
## VFF




VFFa (CW-EXPC007A) VFFb (CW-EXPC007B)

| | | | |
|---|---|---|---|
| SHAPE NAME | FEMALE MULLION | SHAPE NO | CW-EXPC007 |
| FINISH | PVDF-3 | | |
| ALLOY&TEMP | A6063-T5 | | |

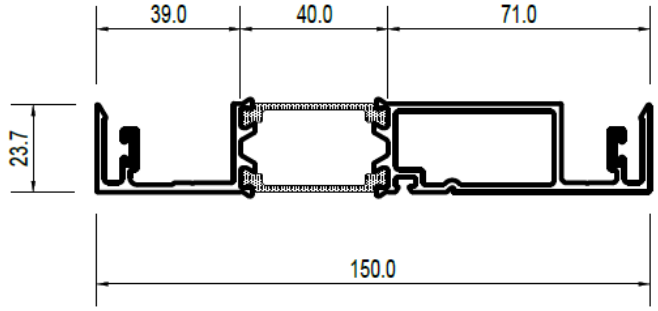
## VMF




VMFa (CW-EXPC005A) VMFb (CW-EXPC005B)

| | | | |
|---|---|---|---|
| SHAPE NAME | MALE MULLION | SHAPE NO | CW-EXPC005 |
| FINISH | PVDF-3 | | |
| ALLOY&TEMP | A6063-T5 | | |

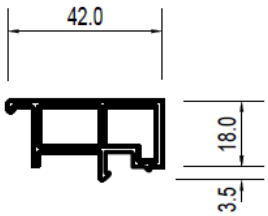
## VF




VFa (CW-EXPC008A) VFFb (CW-EXPC007B)

| | | | |
|---|---|---|---|
| SHAPE NAME | FEMALE MULLION-NO FIN | SHAPE NO | CW-EXPC008 |
| FINISH | PVDF-3 | | |
| ALLOY&TEMP | A6063-T5 | | |

## GS




* PAIR GLASS (24mm)

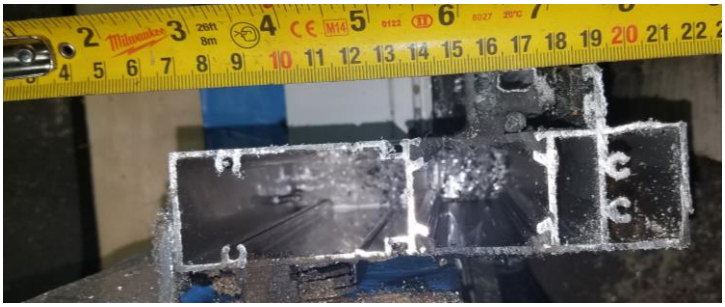
| | | | |
|---|---|---|---|
| SHAPE NAME | GLAZING BEAD | SHAPE NO | NSP-EGB42 |
| MATERIAL | PVC | | |

| **Enermax 150 Series Fixed Window – Parts List** | |
|---|---|
| Glazing silicone | Dow Corning - CWS |
| Glazing gasket | Hankook – CHUO-G02 |

## SECTION 10

# APPENDIX B: PHOTOGRAPHS
# (5 Pages)

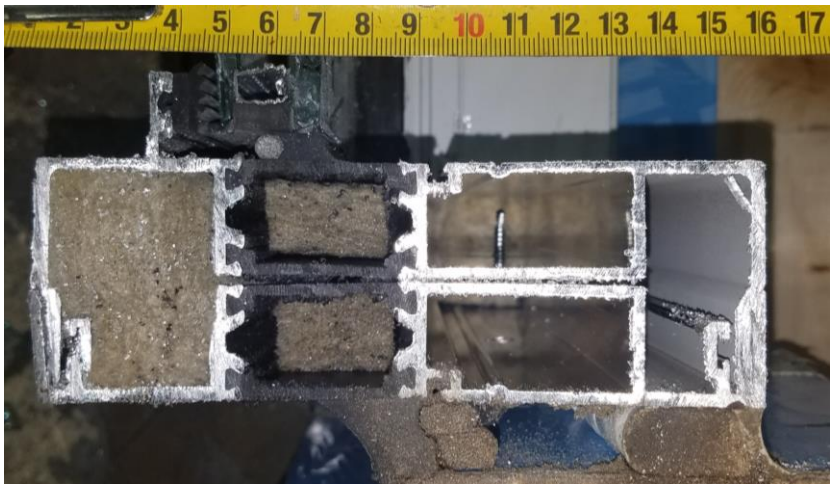

**Enermax 150 Series Fixed Window – Interior & Exterior**



**Sill assembly**

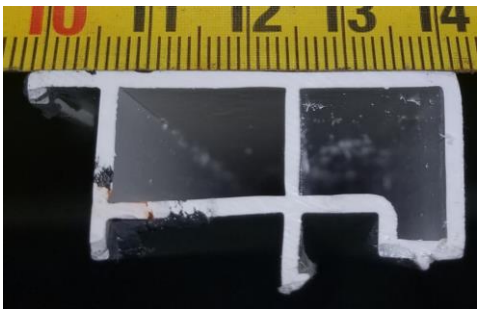
**Head assembly**

**Left jamb assembly**



**Right jamb assembly**

**Frame corner joint**



**Glazing stop profile**

**Glazing gasket and backer rod with silicone**

**Glazing gasket corner**

**Silicone around entire IGU**

**Setting block**

## SECTION 11

# APPENDIX C: REVISION TABLE
# (1 Page)

| Revision Table | | | | |
|---|---|---|---|---|
| **Date** | **Section** | **Description** | **Technician** | **Reviewer** |
| 28-Jul-2020 | --- | Original Issue Date | --- | --- |