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LISTING INFORMATION OF

GlasCurtain - Therm134 Fiberglass Exterior Curtain Wall Framing

SPEC ID: 48624

GlasCurtain 2010 Inc.
419 34 Avenue SW
Calgary, AB T2G 1V1
Canada

LISTING INFORMATION

The GlasCurtain Therm134 Fiberglass Exterior Curtain Wall Framing is a fiberglass pultrusion framing intended for use as curtain walls in buildings. Refer to the Design Listing contained in this Specification for details of the assembly.

FIRE RATINGS

Test Standard	Rating	Design Number
CAN/ULC-S134	Meets Conditions of Acceptance	GLC/CSA 25-01

Attribute	Value
Criteria	CAN / ULC S134 (2013)
CSI Code	06 70 00 Structural Composites
CSI Code	06 00 00 Wood, Plastics, and Composites
CSI Code	06 72 00 Composite Structural Assemblies
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	WALL ASSEMBLIES
Spec ID	48624

DRAWING INDEX

GLC/CSA 25-01

GLC/CSA 25-01

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Division 06 00 00 – Wood, Plastics, and Composites
06 70 00 – Structural Composites
06 72 00 – Composite Structural Assemblies

GlasCurtain Inc.
Design No. GLC/CSA 25-01
Exterior Wall Systems
GlasCurtain Therm134
CAN/ULC-S134
Rating: Meets Conditions of Acceptance

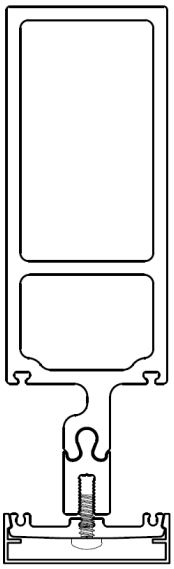

Figure 1. GlasCurtain Therm134 Fiberglass Framing

1. **EXTERIOR WALL ASSEMBLY:** The system described herein represents the construction as tested or evaluated to the standardized test conditions of the referenced standard. Referenced Figures for additional construction details.

   CERTIFIED MANUFACTURER: GlasCurtain Inc.

   CERTIFIED PRODUCT: Exterior Curtain Wall Framing

   CERTIFIED MODEL: GlasCurtain Therm134

   Use the following supplied components to assembly the test assembly:

   A. FRAMING – GlasCurtain mullions (vertical members) and transoms (horizontal members) are of fiberglass material and consist of the following sub-components:
      i. Fiberglass Back Section
      ii. Fiberglass Pressure Plate
      iii. Aluminum Alloy Cap

   B. VERTICAL MULLION SLEEVE – Use to join vertical framing (Item 1A) members.

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C. INSULATION – Use Rockwool Cavityrock® mineral wool insulation to fill framing (Item 1A) members at specified locations, to insulate galvanized steel backpans (Item 1M), and to pack gap between the framing (Item 1A) members and the supporting construction (CAN/ULC-S134 test apparatus) at specified locations. Reference Figures 2-4.

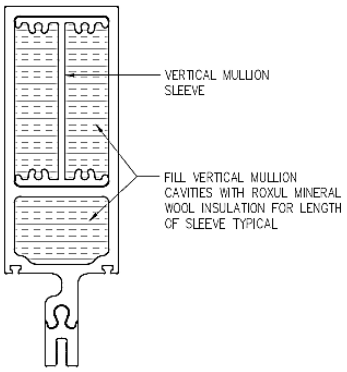

Figure 2. Framing Cross-Section (Top View) with Vertical Mullion Sleeve and Insulation

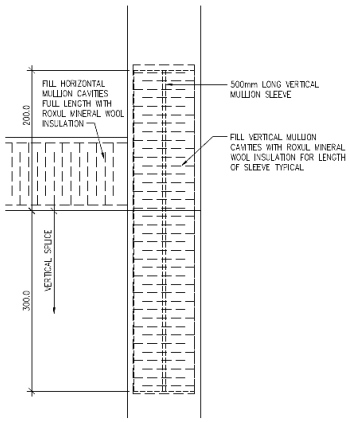

Figure 3. Framing Cross-Section (Front View) with Vertical Mullion Sleeve and Insulation

D. GASKETS – Use the following gaskets at specified locations.
   i. Pressure Plate Gasket [G5]: Tremco TR-8188E
   ii. Compression Gasket [G11]: Tremco TR-19228S
   iii. Foam Tape [G100]: Norton 1/8 in. x 3/8 in.

E. SETTING BLOCKS [SB7] – 10 mm x 43 mm x 152 mm long, triple glazed setting block with drainage channel Tremco TR-11910E/W/S.

F. CORNER BLOCKS [CB48] – 22 mm x 48 mm long, triple glazed corner plug Tremco TR-14450E.

G. THERMAL BREAKS [T2] – Fiberglass pressure plate thermal break, Perfect Fit FG-004.

H. ALUMINUM CHANNELS –
   i. [AC1]: 16 mm x 38 mm x 22 mm
   ii. [AC2]: 16 mm x 45 mm x 22 mm
   iii. [AC3]: 16 mm x 47 mm x 22 mm

I. SCREWS –
   i. [F20]: Pan 1/4-20 x 3/4 in. M.S.
   ii. [F35]: Pan 10-16 x 1 in. TEKS/3
   iii. [F36]: HWH 1/4-14 x 1-1/4 in. TEKS/3
   iv. [F51]: HILTI 3/8 x 3-1/4 in. Kwik HUS (KH)

J. VISION GLASS [V] – 45mm Triple Sealed Unit consisting of:
   i. 6 mm Tempered
   ii. 13 mm Air Space
   iii. 6 mm Tempered
   iv. 13 mm Air Space
   v. 6 mm Tempered

K. SPANDREL GLASS [S] – 6 mm Tempered

L. ALUMINUM PANELS [AL] – 2 mm thick

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M. BACK PANS – 20 GA, galvanized steel-lined with insulation (Item 1C), friction fitted.

N. SILICONE SEALANT – Dow Corning 795

O. GALVANIZED STEEL FLASHING – 90-degree angled, 26 GA, galvanized steel flashing with one end attached to transoms that are cavity filled with insulation, and the other end attached to the base wall using fasteners. Flashing is also attached in a similar manner around the wall perimeter.

P. MOUNTING BRACKETS – Double T-shaped aluminum alloy mounting bracket, 206 mm long x 120 mm wide x 90 mm tall, with the top flange at 10 mm thick and the legs at 6 mm thick, for anchoring of the assembly mullion to the base wall using 3/8 in. concrete anchors.

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Division 06 00 00 – Wood, Plastics, and Composites
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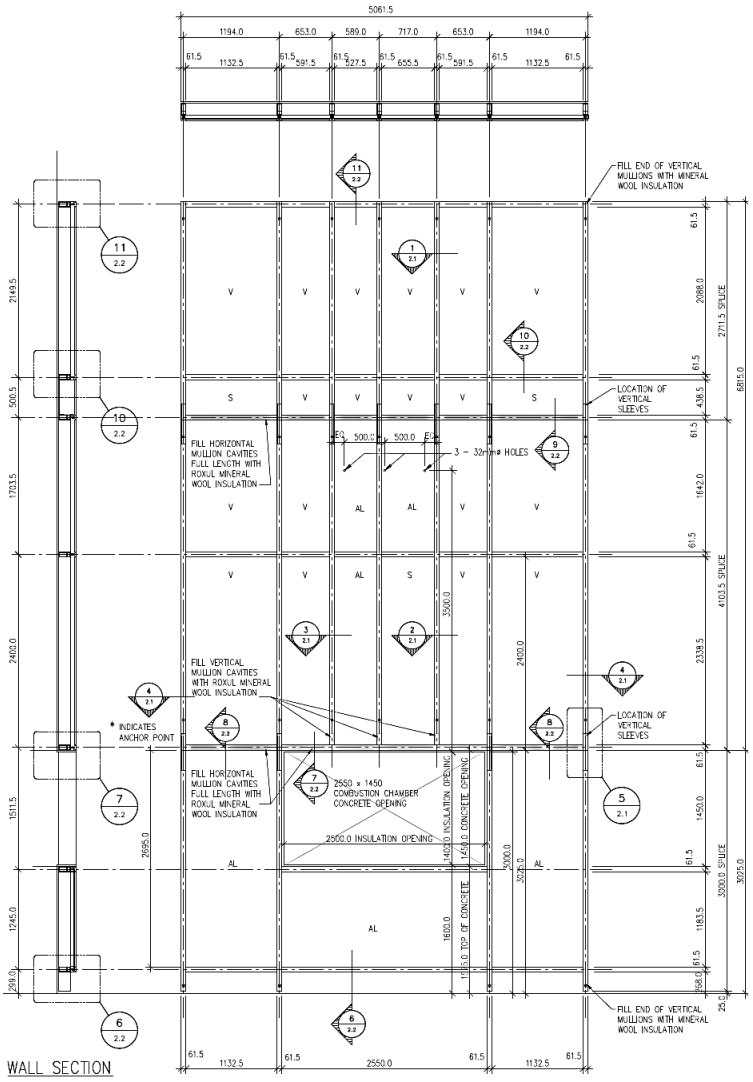

Figure 4. Overall Wall Assembly

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2. SUPPORTING CONSTRUCTION: Construct the overall wall assembly onto the supporting construction with the following method.

A. Fasten the mullions to the apparatus base wall with 6 mm angles, measured 76 x 51 x 120 mm.

B. Use one 3/8 in. x 3 in. concrete anchor to fasten the angle to the supporting construction.

C. Use three 1/4 in.-14 by 1-1/4 in. Tek3 HH screws to fasten the angle to the GlasCurtain mullions; angles are located across the width of the wall assembly – at the base of the wall, at the transom line above the window opening, underneath the second transom line above the window opening, and underneath the uppermost transom line.

D. Attach the transoms by inserting the ends to the spigots on the mullions; fasten the transoms to the spigots using two No. 10-16 x 3/4 in. AB Truss Head screws.

E. Maintain a 25 mm spacing between the supporting construction and the wall assembly.

F. Insert a piece of 25 mm thick x 50 mm wide insulation (Item 1.C) between the supporting construction and the transoms throughout the width of the wall assembly, for transoms located at the base of the wall assembly, above the window opening, and underneath the second transom line above the window opening.

G. Apply a bead of 3M Fire Barrier 1003 SL self-leveling silicone over the top of each piece of insulation inserted.

H. Seal the perimeter of the angles using Dow Corning® 795 building silicone.

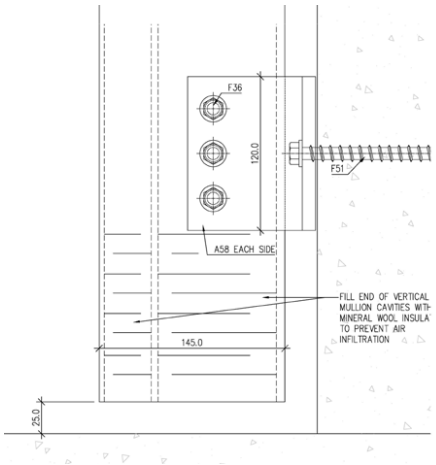

Figure 5. Mullion, Angle and Supporting Construction

3. INSTALLATION: Observe the following installation details in Figures 6 - 15, in reference to the specific elevations shown in Figure 4.

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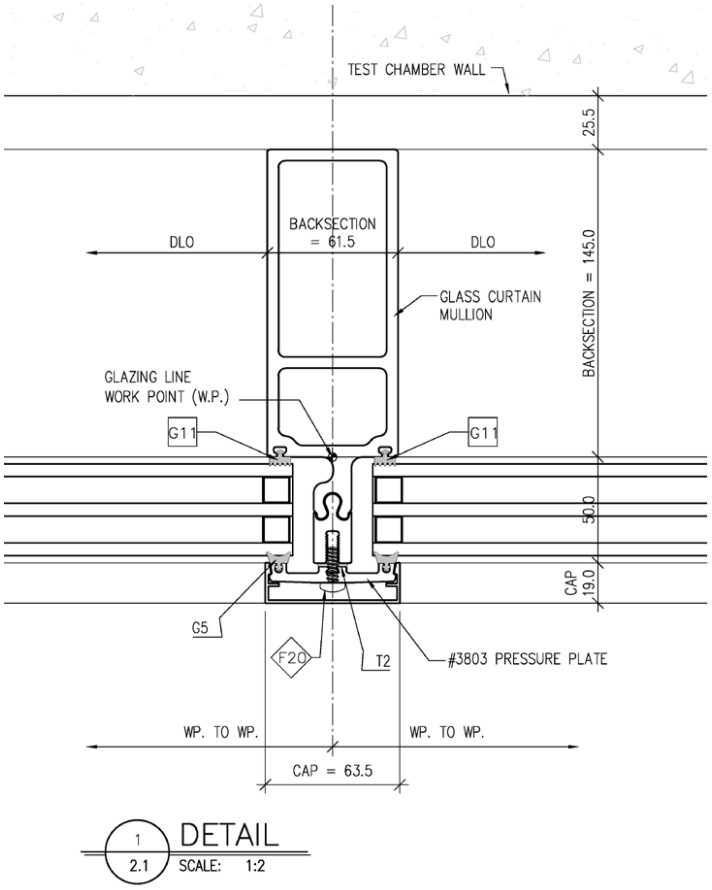

Figure 6. $\frac{1}{2.1}$ DETAIL

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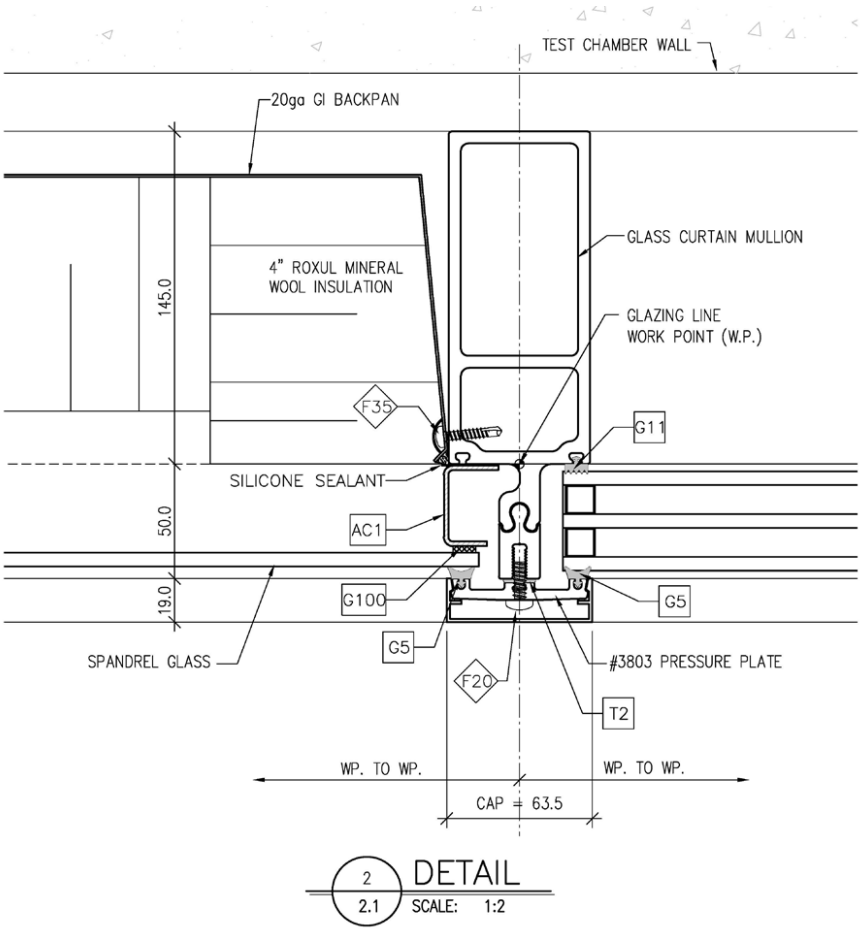

Figure 7. $\frac{2}{2.1}$ DETAIL

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Division 06 00 00 – Wood, Plastics, and Composites
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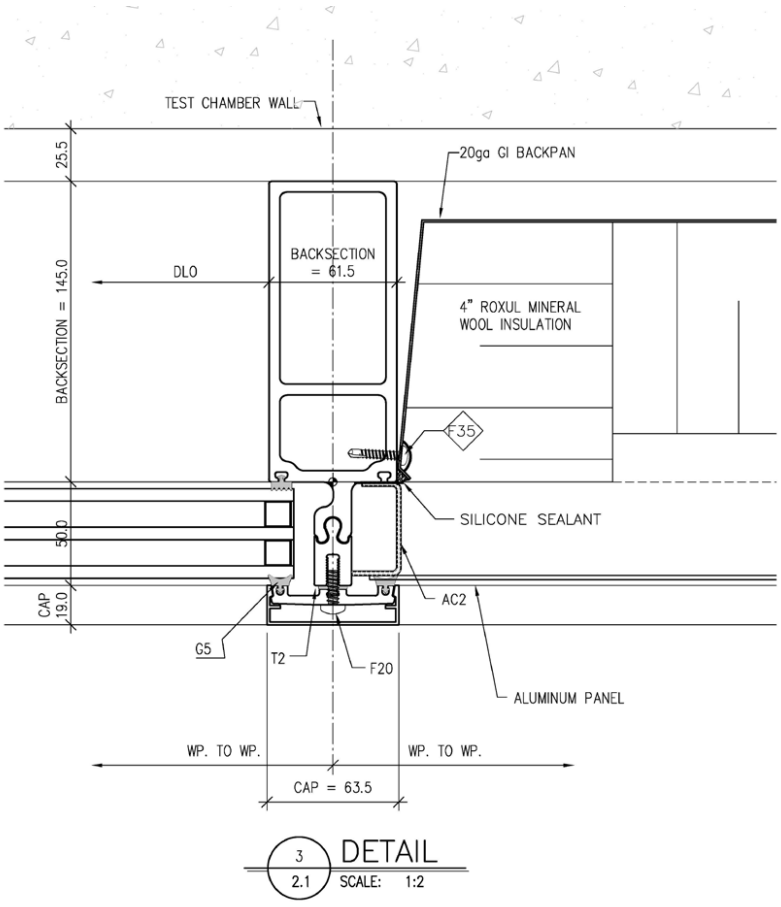

Figure 8. $\frac{3}{2.1}$ DETAIL

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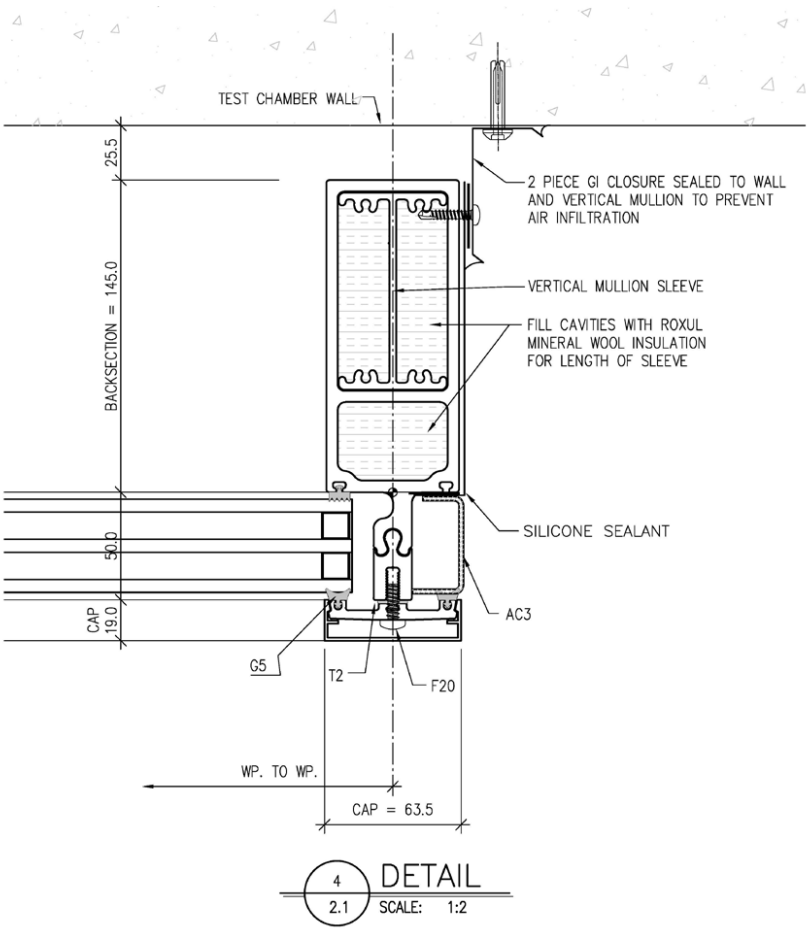

Figure 9. $\frac{4}{2.1}$ DETAIL

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Division 06 00 00 – Wood, Plastics, and Composites
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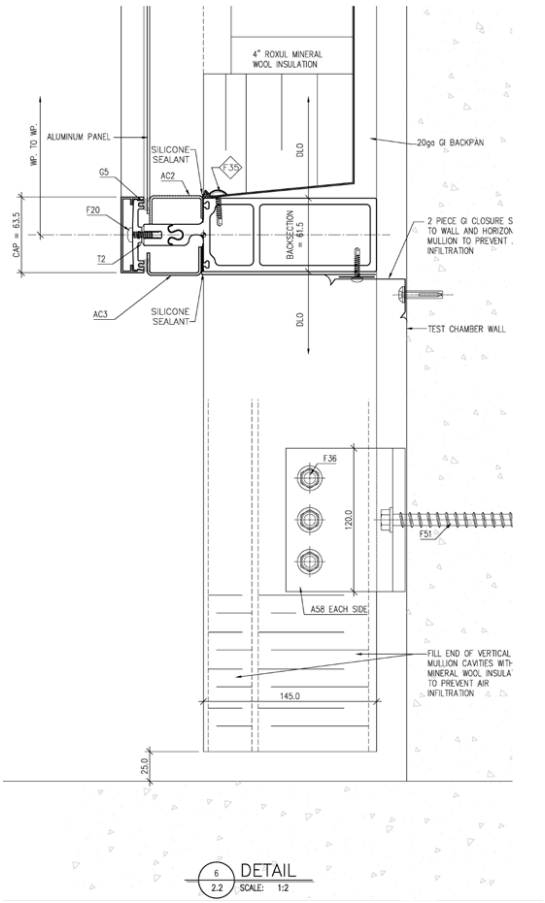

Figure 10. $\frac{6}{2.2}$ DETAIL

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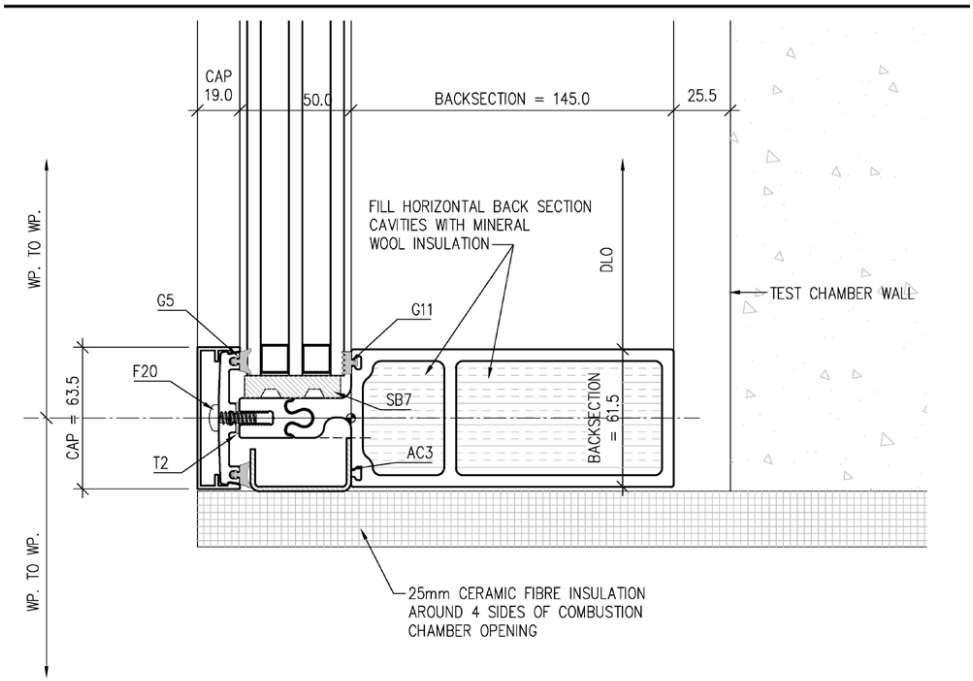

7/2.2 DETAIL
SCALE: 1:2

Figure 11. $\frac{7}{2.2}$ DETAIL

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Division 06 00 00 – Wood, Plastics, and Composites
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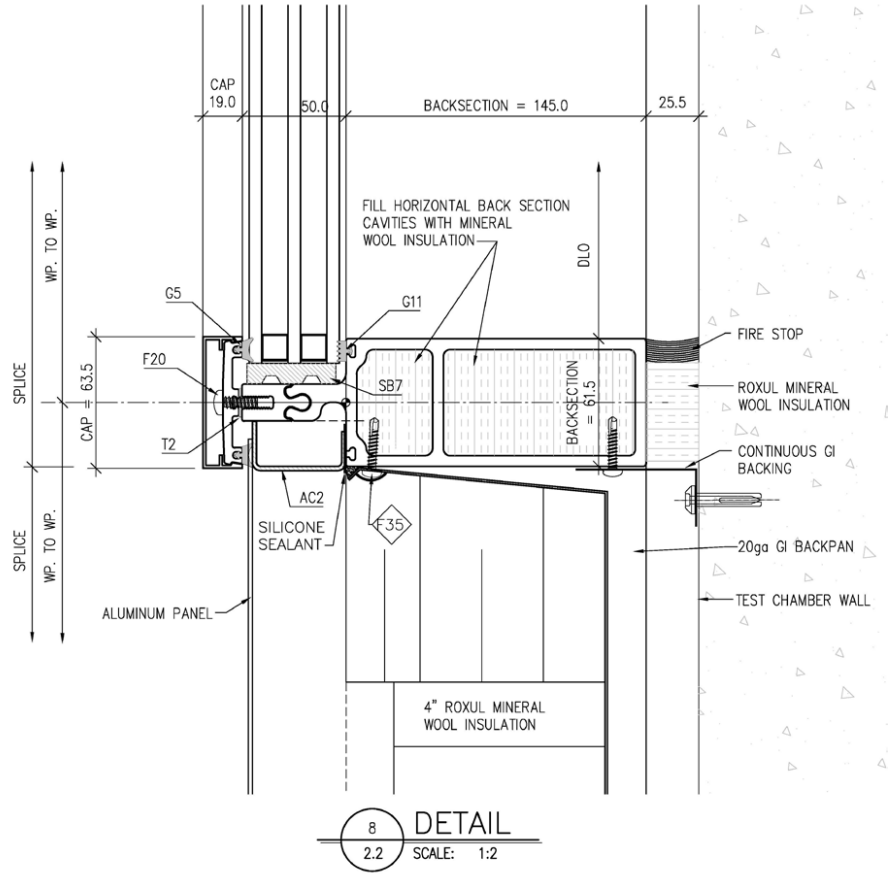

Figure 12. $\frac{8}{2.2}$ DETAIL

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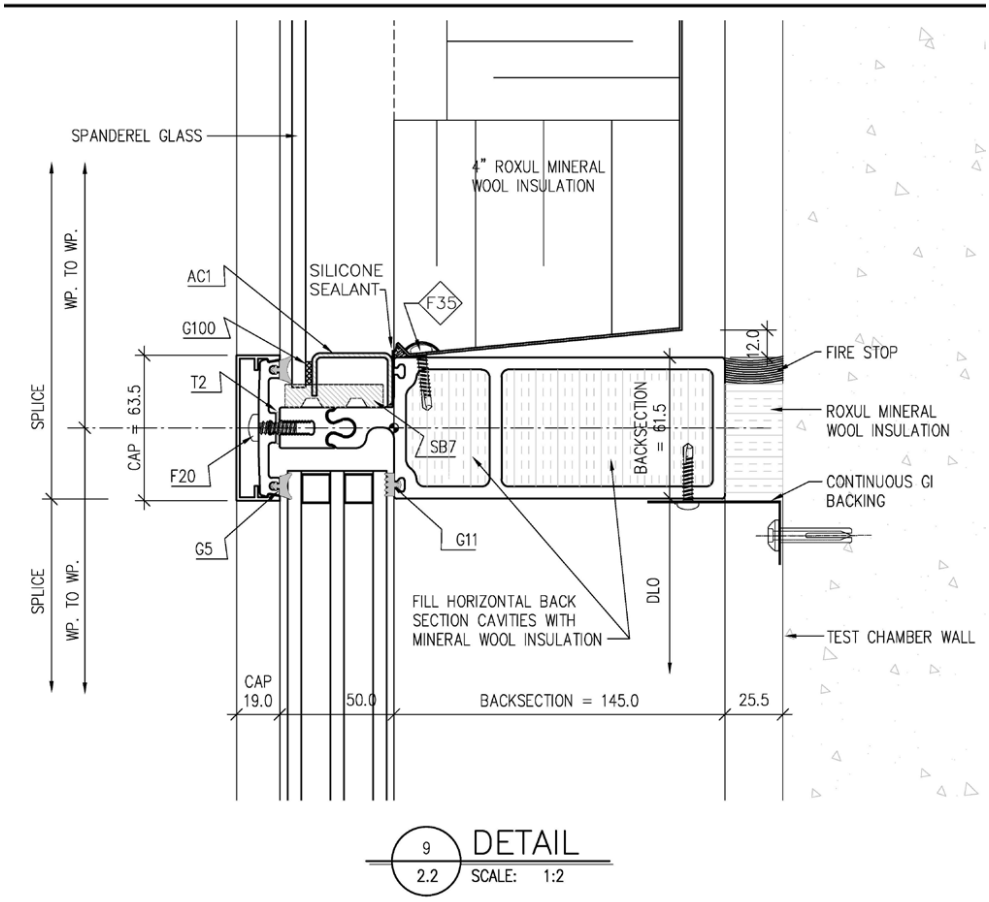

Figure 13. $\frac{9}{2.2}$ DETAIL

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Division 06 00 00 – Wood, Plastics, and Composites
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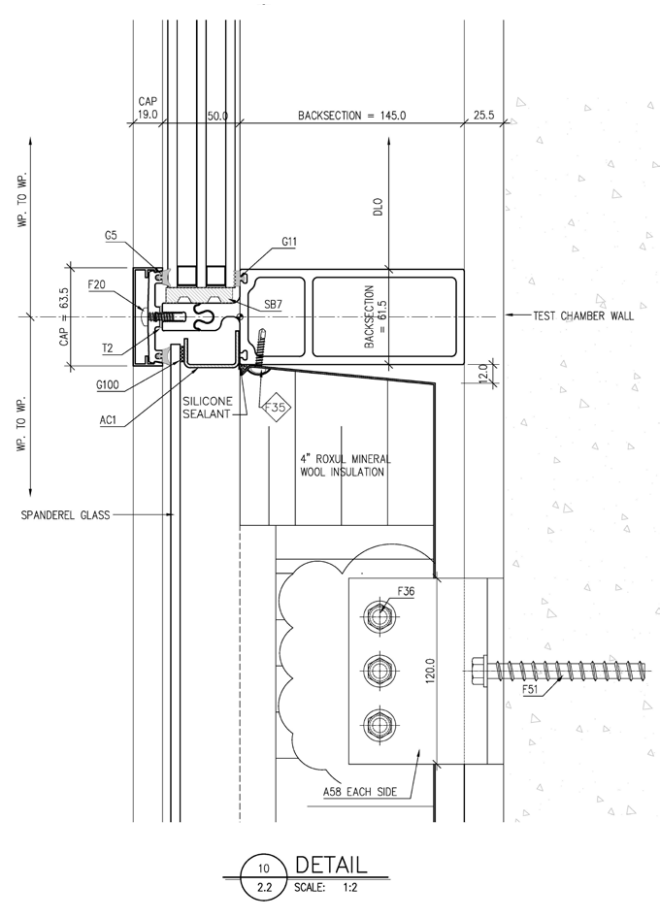

Figure 14. $\frac{10}{2.2}$ DETAIL

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Division 06 00 00 – Wood, Plastics, and Composites
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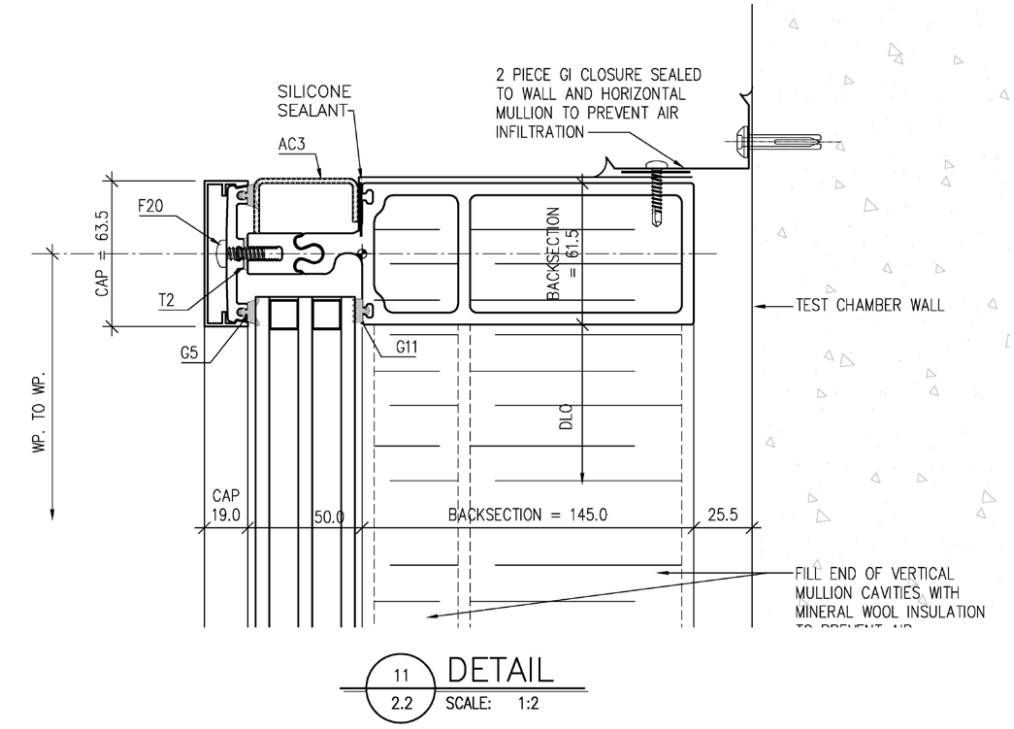

Figure 15. $\frac{11}{2.2}$ DETAIL