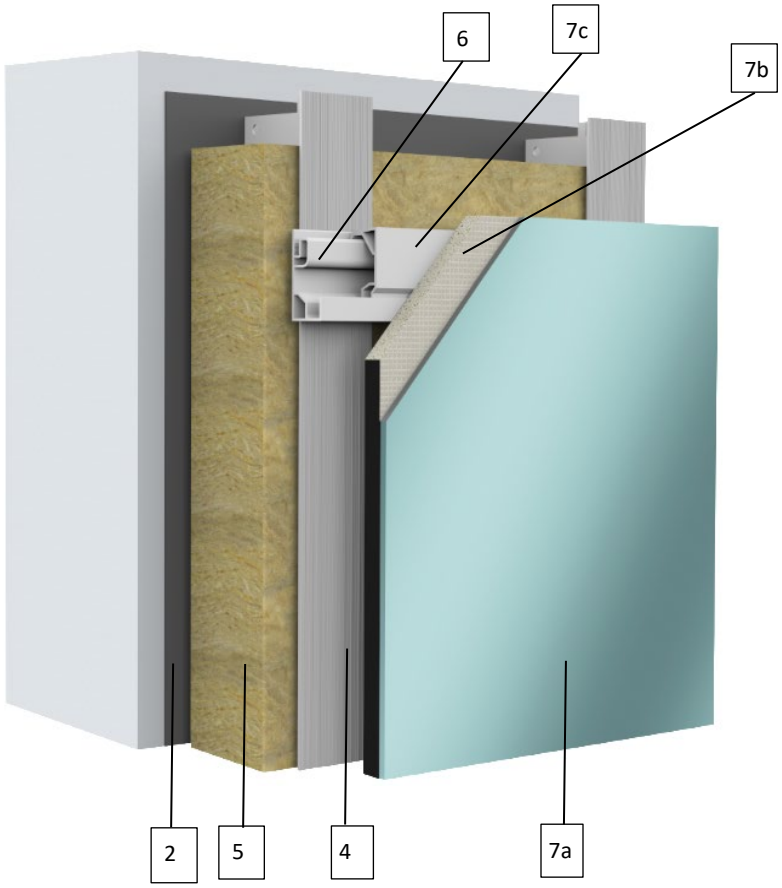
Sto Corp.
Design No. STO/CWP 25-01
Exterior Wall Systems
StoVentec Glass
CAN/ULC S134
Rating: Meets Requirements



1. **WALL ASSEMBLY:** Construct a wall assembly that shall comply with the local Building Code or other applicable regulatory requirements as established by the local Authority Having Jurisdiction.

2. **CERTIFIED MANUFACTURER:** Sto Corp.

   CERTIFIED PRODUCT: Weather Resistive Barrier

   CERTIFIED MODEL: Apply one of the following membrane systems, according to manufacturer's instructions, to the exterior side of the wall assembly.

   A. STO FLEXYL – A cementitious air and moisture barrier trowel applied at a wet film thickness of 1.6 mm.

   B. STOGUARD VAPORSEAL R – A fluid applied polymeric air, vapor, and moisture barrier, spray- or roller-applied in a two-coat process at a wet film thickness of 0.38 mm (15 mils) per coat.

C. STOGUARD – A fluid-applied polymeric Gold Coat (81636 or 80265) air and moisture barrier applied in two coats at a wet film thickness of 0.25 mm (10 mils) per coat. Where applied over sheathing, joints are to be first treated with Sto Gold Fill and mesh reinforcement, or StoGuard RapidFill in accordance with Sto application instructions, or Sto RapidGuard. Joints may also be treated with application of Sto Gold Coat in conjunction with StoGuard Fabric.

3. **WALL BRACKETS:** (Not Shown) Install 2 mm stainless steel or min. 3 mm aluminum x 70 mm – 320 mm Sliding Point brackets and 2.5 mm stainless steel or min. 3 mm aluminum x 70 mm – 320 mm Fixed Point brackets. Brackets to be spaced and connected to supporting structure as required per Sto installation instructions and project design loads.

4. **VERTICAL PROFILES:** STO T-Profiles made of aluminum alloy EN AW 6063 Temper 6 or EN AW 6005A Temper 5, with 2.7 mm x 90 mm plate and 2.4 mm x 52.7 mm leg, in lengths to 3 m, are attached to the wall brackets (Item 3) using 5.5 x 19 mm stainless steel screws. Wall brackets to be positioned max. 280 mm from ends of STO T-Profiles. Spacing of T-Profiles typically 300 - 1200 mm as required by structural analysis.

5. **EXTERIOR INSULATION:** Install 600 mm wide x 1200 mm long x required thickness of mineral wool insulation onto wall using adhesively attached 16 GA impaling steel pins at min. five locations per 24 in. x 48 in. insulation section. Pins must be 0.5 – 1 in. longer than thickness of insulation being installed. One steel pin installed at each corner of the insulation section and one steel pin installed at the approximate center. Alternately, pins are at steel stud locations and secured to the studs using one #10 x 1-3/8 in. self-tapping bugle-head screw per pin base. Screws are 3/8 in. longer than the combined sheathing and stud thickness.

   Owens-Corning® Thermafiber Rain Barrier 45 or mineral wool insulation complying with ASTM C612 and CAN/ULC-S114 with density range from 3.5 lb/ft^3 to 6.0 lb/ft^3 (72 kg/m^3 to 96 kg/m^3). Thickness shall be no less than 50 mm. Thickness shall be based on depth of wall brackets with insulation being max. 20 mm less than wall bracket depth. Cavity when measured from the face of the insulation to the inward facing side of the StoVentec Glass panel is between 10 and 90 mm (max.).

   INSULATION AT INTUMESCENT LOCATIONS ABOVE OPENINGS – Based on depth of cavity (substrate to inward facing side of the StoVentec Panel or Exterior Face of T-Profile depending on header protection method), cut 4 in. thick, 24 in. x 48 in., 6 lb./ft^3 density mineral fiber insulation so to produce a lamella strip which extends from the substrate to within 30 mm, but no closer than 15 mm from the inward facing side of the panel. Install above windows, extending 100mm either side of the window using #12 self-tapping sheet metal screws for metal framing or appropriate masonry type anchor (length as required), spaced nominally between 32 in. and 48 in. oc, using two screws per location. On the face of the lamella, install the Roku Intumescent Strip (100 mm tall and 2 mm thick and supplied in rolls, 75 to 150 ft. in length). Intumescent strip to be fastened back to the underlying support structure at every stud.

6. **AGRAFFE WALL RAIL:** Aluminum profile 62.5 mm x 30.6 mm (Item 6), made of aluminum alloy EN AW 6063 Temper 6 or EN AW 6005A Temper 5, and mechanically fastened to the T-Profiles as per Sto Installation instructions using 5.5 x 19 mm stainless-steel screws. The Agraffe rail distance from the horizontal panel edge

shall be based on Sto installation procedures with max. allowable distance from panel edge to center of profile being 300 mm.

7. **CERTIFIED MANUFACTURER:** Sto Corp.

   CERTIFIED PRODUCT: Rainscreen Cladding

   CERTIFIED MODEL: StoVentec Glass Panel

   StoVentec Glass panels of 6mm or 8 mm tempered safety glass (Item 7a) adhered to 20 mm StoVentec Carrier Board A+ (Item 7b) using structural silicone. Prior to installation of the glass, Panel Agraffe aluminum profile 62.5 mm x 28.8 mm (Item 7c), made of aluminum alloy EN AW 6063 Temper 6 or EN AW 6005A Temper 5, is factory attached to the inward facing side of the carrier board (Item 7b) using 5.5 x 32 mm stainless steel screws installed through the outward face of the carrier board (Item 7b) and into the Agraffe panel rail (Item 7c). Screw spacing is every 140 - 255 mm depending on wind load requirements. Panels can be standard or custom sizes determined by glass thickness and Sto designs. Panels have color and decorative finishes incorporated in the glass.

8. **FIRE BREAKS:** Provide fire stopping as required by Code. Firestopping is to be installed at floor lines or every 3 m (measured vertically) whichever occurs first. Vertical firestopping to be installed at max. intervals of 20 m, or less where Code or design requires.

9. **PANEL JOINTS:** Vertical and horizontal joints between panels to be 5 mm – 12 mm wide and may be open (dry) or sealed.

10. **OPENING HEAD AND PROTECTION:** Fenestration header openings to be protected as described in Item 5a. Header and sills flashing min. 26 GA metal.

    NOTE: Sills may be ventilated.

11. **OPENING JAMB DETAIL:** (Not Shown) Min. 26 GA steel jamb profile bridging the gap between the opening and the edge of the panel. Alternately, a Ventec Glass Panel, no less than 100 mm wide, may be used to create the return bridging the space/gap between the opening and the outward facing panel.