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**StoQuik® Silver DrainScreen™**

**System Components**

**Notes:**
1. Detail shows the installation of StoQuik® Silver DrainScreen™ over a wood frame wall.

**Sto Materials:**
1. Sto joint treatment
2. StoGuard® Mesh
3. StoGuard® Waterproof Air Barrier Membrane options:
   a. StoGuard® Gold Coat® (vapor permeable)
   b. StoGuard® Emerald Coat® (high perm)
   c. StoGuard® Vapor Seal™ (vapor impermeable)
4. Sto DrainScreen™
5. StoQuik® Silver Finish Components:
   a. Sto Guard Mesh
   b. Sto Base Coat
   c. Sto Mesh
   d. Sto Primer (optional component)
   e. Sto Finish

**Accessory Materials:**
(including means for fastening)
1. Starter Track
2. Other accessories as may be required.
   (e.g., casing beads, control joints, etc.)

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StoQuik® Silver DrainScreen™
System Components - Alternative Drip Track

Notes:
1. Detail shows the installation of StoQuik® Silver DrainScreen™ over a wood frame wall using an alternate drip track.
   a. At grade along the base of the wall.
   b. At roof line terminations. (See Sto Detail 11.62a)
   c. At floor line terminations.
   d. At window or door heads; in combination with flashing when window frame projects beyond finished wall surface. (See Sto Detail 11.25a.)

2. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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StoQuik® Silver DrainScreen™
“L” Bead Termination Accessory at Dissimilar Material

Notes:

1. Use the “L” Bead Accessory
   a. Terminations at windows and doors.
      (See Sto Detail 11.25a)
   b. Terminations at dissimilar materials.
      (See Sto Detail 11.50a)
      (See Sto Detail 11.50a).
   d. Window/door head in combination with flashing.
      (See Sto Detail 11.23a)
   e. Floor line (in combination with flashing).
      (See Sto Detail 11.41a)

2. Use spray adhesive (3M Super 77 or 3M Super 90) applied to the cement board to temporarily hold the accessory in place. Place StoGuard Mesh over perforated front flange of accessory. Skim coat StoGuard Mesh with Sto base coat and allow to dry. When installing Sto Mesh, embed Sto Mesh in Sto base coat and overlap StoGuard Mesh to terminating bead of accessory.

3. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation, and accessories.
**StoQuik® Silver DrainScreen™**

**Casing Bead Accessory at Dissimilar Material**

**Detail No.: 11.03b DS**

**Date: January 2015**

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**Notes:**

1. Use Casing Bead Accessory:
   a. Terminations at windows and doors. (See Sto Detail 11.25a)
   b. Terminations at dissimilar materials. (See Sto Detail 11.50a)
   c. Back-to-back as expansion joints. (See Sto Detail 11.50a)

2. Place StoGuard Mesh over perforated front flange of accessory. Skim coat StoGuard Mesh with Sto base coat and allow to dry. When installing Sto Mesh, embed Sto Mesh in Sto base coat and overlap StoGuard Mesh to terminating edge of accessory.

3. Refer to Sto Specification QS 200E for complete information on design requirements, installation, and accessories.

---

**Wood Frame**

**StoGuard® Waterproof Air Barrier Membrane**  
(See Sto Detail 11.09 DS)

**Sto DrainScreen™**

**Casing Bead Accessory**

**Cement Board**

**Skim Coat of Sto Base Coat**

**Sto Mesh Embedded in Sto Base Coat**

**Sto Finish**

**Dissimilar Construction**

**Backer Rod and Sealant**

**Casing Bead Accessory**  
(back mounted)

**Skim Coat of Sto Base Coat**

**StoGuard Mesh**

---

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**StoQuik® Silver DrainScreen™**

**Control Joint Accessory (Face Mount)**

**Detail No.: 11.03c DS**

**Date: January 2015**

**Notes:**

1. Use Control Joint Accessory in the field of the wall to accommodate thermal movement.

2. Use at intervals of 25 feet (7.6 m) maximum with light colored finishes (Lightness Value ≥ 50).

3. Use at intervals of 16 feet (4.9 m) maximum with dark colored finishes (Lightness Value ≤ 50 and ≥ 30).

4. When laying out control joints create rectangular panels of maximum 625 square feet (58 m²) with length to width ratio of 2-1/2 to 1 maximum for light colored finishes. For dark colored finishes create panels of maximum 256 square feet (23.5 m²) with length to width ratio of 2-1/2 to 1 maximum.

5. Cement board must be interrupted to accommodate control joint accessory, provide solid support for attachment of cement board; double stud, a “scab stud”, or solid sheathing such as OSB or plywood.

6. Use spray adhesive (3M Super 77 or Super 90) applied to the cement board to temporarily hold the accessory in place. Place StoGuard Mesh over perforated front flange of accessory. Skim coat StoGuard Mesh with Sto base coat and allow to dry. When installing Sto Mesh, embed Sto Mesh in Sto base coat and overlap StoGuard Mesh to terminating bead of accessory.

7. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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**StoQuik® Silver DrainScreen™
Control Joint Accessory (Back Mount)**

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**Notes:**

1. Use Control Joint Accessory in the field of the wall to accommodate thermal movement.
2. Use at intervals of 25 feet (7.6 m) maximum with light colored finishes (Lightness Value > 50).
   Use at intervals of 16 feet (4.9 m) maximum with dark colored finishes (Lightness Value ≤ 50 and ≥ 30).
   When laying out control joints create rectangular panels of maximum 625 square feet (58 m²) with length to width ratio of 2-1/2 to 1 maximum for light colored finishes.
   For dark colored finishes create panels of maximum 256 square feet (23.5 m²) with length to width ratio of 2-1/2 to 1 maximum.
3. Cement board must be interrupted to accommodate control joint accessory, provide solid support for attachment of cement board: double studs, a “scab stud”, or solid sheathing such as OSB or plywood.
4. Accessory may be back mounted with fasteners or friction fit into installed cement board on one side, followed by insertion of adjacent cement board on the other side.
5. Place StoGuard Mesh over perforated front flange of accessory. Skim coat StoGuard Mesh with Sto base coat and allow to dry. When installing Sto Mesh, embed Sto Mesh in Sto base coat and overlap StoGuard Mesh to terminating bead of accessory.
6. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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[Diagram of StoQuik® Silver DrainScreen™]

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Notes:

1. The maximum thickness of foam plastic insulation allowed by code is typically 4” (100mm).

2. The exposed surface must have a minimum slope of 1:2 (27). In locations where ice and snow may accumulate, increase slope.

3. See Sto detail 11.04a DS where the projection is more than 2” (50mm) or where snow and ice are likely to accumulate.

4. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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Wood Frame
Substrate protected with StoGuard® Waterproof Air Barrier Membrane
(See Sto Detail 11.09 DS)

Sto DrainScreen™
Cement Board
Sto Base Coat with Sto Mesh embedded
Sto Detail Mesh embedded in Sto Base Coat

Sto Finish
Sto Adhesive

StoQuik® Silver DrainScreen™
Foam Aesthetic Band /Projection (Thin)

Detail No.: 11.04b DS
Date: January 2015

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StoQuik® Silver DrainScreen™
Termination at Sidewalk over Wood Frame

Date: January 2015

Notes:
1. Provide a positive slope of sidewalk away from the wall.
2. Protect wall assembly from rising damp.
3. Provide minimum 2” (50mm) clearance above pavers or other finished walking surfaces, minimum 4” (100mm) above earth grade. Increase distance above grade for snow regions.
4. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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www.stocorp.com
**StoQuik® Silver DrainScreen™**

**Rough Opening Protection over Wood Frame**

**Notes:**

1. Prepare opening prior to the installation of the window or mechanical equipment.

2. Incorporate flashing as illustrated in 11.25a DS - 11.26a DS.

3. The complete installation of window or mechanical equipment should include an air seal between the object and the StoGuard™ protection in bound of the outer sealant joint.

4. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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**StoQuik® Silver DrainScreen™**
**Brick Mold Window Head**

**Date:** January 2015

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**Notes:**

1. Protect the rough opening from water penetration by wrapping with StoGuard® (See Sto Details: 11.09 DS and 11.20a DS)

2. Provide head flashing over the window to direct water away from the window. Fold flashing over the window head-jamb interface or provide head flashing end dams, depending on window type and design.

3. Provide continuous air barrier around the interior perimeter of the window to reduce leaking, condensation related to air movement, sound and insect intrusion.

4. Refer to Sto Specification QS 200DS for complete information on design requirements, installation and accessories.

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**StoQuik® Silver DrainScreen™**
**Brick Mold Window Sill / Jamb**

**Detail No.: 11.20c DS**
**Date: January 2015**

**Notes:**
1. Protect the rough opening from water penetration by wrapping with Sto Joint Treatment. (See Sto Details 11.09 DS & 11.20a DS).
2. Direct any water penetration to the exterior at the sill pan flashing.
3. Lap the Sto joint treatment into the sill pan. (See Sto Detail 11.21a DS)
4. Provide a continuous air barrier around the interior perimeter of the window to reduce leaking, condensation related to air movement, and sound and insect control.
5. Refer to Sto Specification QS 200DS for complete information on design requirements, installation and accessories.

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StoQuik® Silver DrainScreen™
Sill Flashing: Nail-fin Window

### Step 1
- **Sheathing**
- **Sto Rough Opening Protection** (See Sto Details 11.09 DS & 11.20 DS)
- **Sill Wedge**
- **StoGuard® Waterproof Air Barrier Membrane**
- **Sto Joint Treatment** (See Sto Detail 11.09 DS)
- **Flashing**
- **Wood Frame**

### Step 2
- **Air Seal**
- **Sto DrainScreen™**
- **Window**
- **Spacer**
- **Flashing**
- **StoGuard® Waterproof Air Barrier Membrane**

**Notes:**
1. Prepare rough opening. (See Sto Detail 11.20 DS)
2. Install flashing below the rough opening.
3. Prepare the flashing with Sto Joint Treatment.
4. Install the nail-fin window with an air seal around the interior perimeter of the window and with spacers at the sill to create a gap for water to drain between the sill flange and the StoGuard® Waterproof Air Barrier Membrane.
5. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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**StoQuik® Silver DrainScreen™**  
**Deck Flashing**

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**Notes:**
1. Install StoGuard® Waterproof Air Barrier Membrane on the sheathing per plans and specifications.
2. Install deck flashing to divert water away from penetrations and to drain water to the exterior of the finished cladding.
3. Provide backer rod and sealant between the deck flashing assembly and the termination accessories installed around the vertical sides of the deck.
4. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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**StoQuik® Silver DrainScreen™**

**Termination at Soffit**

**Notes:**

1. Install StoGuard® Waterproof Air Barrier Membrane on the sheathing per plans and specifications.

2. StoGuard® is a component in the air barrier assembly for a building. The design professional or builder must provide connections to other air barriers to make the entire envelope air-tight. This detail assumes that the air barrier connection would be made prior to the installation of the 1x treated nailing strip.

3. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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StoQuik® Silver DrainScreen™
Floor Expansion Joint

Date: June 2011

Notes:
1. Install closed-cell backer rod into sheathing joint to support barrier membrane.
2. Install StoGuard® Tape so that it laps over StoGuard® below. Clamp the top edge of StoGuard® Tape with the flashing and shingle lap StoGuard® joint treatment over the vertical flashing leg.
3. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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Detail No.: 11.50 DS

www.stocorp.com

Sheathing
StoGuard® Waterproof Air Barrier Membrane
Sto DrainScreen™
Cement Board
Sto Base Coat and Mesh
Sto Primer
Sto Finish (smooth or textured)
Termination Accessory
Flashing
StoGuard® Waterproof Air Barrier Membrane
Sto Joint Treatment
(Refer to Sto Detail 11.09 DS)
Closed Cell Backer Rod
StoGuard® Tape
Floor Joist
Band Joist
Wood Frame

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StoQuik® Silver DrainScreen™
Joint at Inside Corner: Different Substrates

Date: January 2015

Notes:
1. Wrap Sto joint treatment approximately 4” (200 mm) in each direction around the inside corner.
2. Inside corner joint accessories are not required where the substrate construction is the same around the corner.
3. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

Concrete Masonry Unit (CMU)
Wood Frame
Sheathing
Sto Joint Treatment (Refer to Sto Detail 11.09 DS)
StoGuard® Waterproof Air Barrier Membrane (2 coats minimum over CMU)
Sto DrainScreen™
Backer Rod and Sealant Termination Accessory
Cement Board
Sto Base Coat and Mesh
Sto Primer
Sto Finish (smooth or textured)

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**StoQuik® Silver DrainScreen™**

**Joint at Inside Corner: Common Substrate**

**Detail No.: 11.53b DS**

**Date: January 2015**

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**Notes:**

1. Install Sto joint treatment around inside corner. Coat entire surface with StoGuard® Waterproof Air Barrier Membrane.

2. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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**Wood Frame**

**Sto Joint Treatment**
(Refer to Sto Detail 11.09 DS)

**Sheathing**

**StoGuard® Waterproof Air Barrier Membrane**

**Sto DrainScreen™**

**Sto Base Coat and Mesh**

**Cement Board**

**Sto Base Coat and Mesh**

**Sto Primer**

**Sto Finish**
(smooth or textured)

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StoQuik® Silver DrainScreen™
Outside Corner: Common Substrate

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Notes:
1. Install Sto Joint Treatment around sheathing joint at the outside corner.
2. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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DETAIL No.: 11.62 DS

Date: January 2015

Notes:
1. Install StoGuard® prior to installation of flashing.
2. Provide step flashing extending a minimum 4” (100mm) up the wall.
3. Provide cladding overlap of the step flashing 2” (50mm) and terminate cladding a minimum of 2” (50mm) above the finished roof. The space permits re-roofing at a future date and helps prevent debris from accumulating between roof and cladding.
4. Terminate the step flashing with a water-tight Diverter (kick-out) Flashing to direct water into the gutter. Refer to Sto Detail 2.62b on fabrication of the Diverter Flashing.
5. Provide a 3/8” (10mm) joint around the Diverter Flashing and Seal
6. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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**StoQuik® Silver DrainScreen™**

**Saddle Flashing**

**Detail No.: 11.65 DS**

**Date: January 2015**

**Notes:**

1. Install StoGuard® waterproof air barrier membrane behind flashing assembly integrated with compatible roof or barrier membrane over the parapet.

2. Install saddle flashing assembly.
   (Refer to Sto Detail 1.65b for Assembly of Saddle Flashing.)

3. Install Sto joint treatment over the top of the saddle flashing and back flange of starter track accessory.
   (Refer to Sto Detail 11.09 DS)

4. Lap cladding over the flashing assembly at the top a minimum of 2” (50mm) and terminate with 3/8” (10mm) joint around the perimeter.

5. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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StoQuik® Silver DrainScreen™ Foam Build-Outs

Detail No.: 11.70 DS
Date: January 2015

Notes:
1. The maximum thickness of foam plastic insulation allowed by code is typically 4” (100 mm).
2. The exposed surface must have a minimum slope of 1:2 (27°). In locations where ice and snow may accumulate, increase slope.
3. Provide Sto Flexyl™ and mesh on upper surfaces of the foam build-out feature projecting more than 2” (50 mm) from the stucco surface.
4. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

Wood Frame
Sheathing
StoGuard® Waterproof Air Barrier Membrane
Sto DrainScreen™
Cement Board
Sto Joint Treatment (Refer to Sto Detail 11.09 DS)
Sto Flexyl™ and mesh on upper surface (See Note 3)
Sto Base Coat and mesh lapped onto face of Cement Board
Sto Base Coat and Mesh
Foam Build-Out
Sto Primer
Sto Finish (smooth or textured)
Foam Build-Out features less than 2” (50mm) thick

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