

StoQuik®Silver DrainScreen™ Wood Frame Construction Series 11.xx January 2015

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Cement Board Stucco: StoQuik[®] Silver DrainScreen™

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StoQuik® Silver DrainScreen™ **System Components**

ATTENTION

Notes: Wood Frame Sheathing Sto Joint Treatment (Refer to Sto Detail 11.09 DS) StoGuard® Waterproof Air Barrier Membrane Sto DrainScreen™ **Cement Board** Sto Base Coat and StoGuard® Mesh Sto Base Coat and Sto Mesh **Sto Primer** Sto Finish (smooth or textured) StoGuard® Waterproof Air Barrier Membrane **Sto Joint Treatment** (Refer to Sto Detail 15.09 DS) **Starter Track** (with weep holes) Property of Sto Corp. All Rights Reserved.

1. Detail shows the installation of StoQuik® Silver DrainScreen[™]over a wood frame wall.

Detail No.: 11.01 DS

Date: January 2015

Sto Materials:

- 1. Sto joint treatment
- 2. StoGuard® Mesh
- 3. StoGuard® Waterproof Air Barrier Membrane options:
 - a. StoGuard®Gold Coat® (vapor permeable)
 - b. StoGuard®EmeraldCoat® (high perm)
 - c. StoGuard®VaporSeal™ (vapor impermeable)
- 4. Sto DrainScreen™
- 5. StoOuik® 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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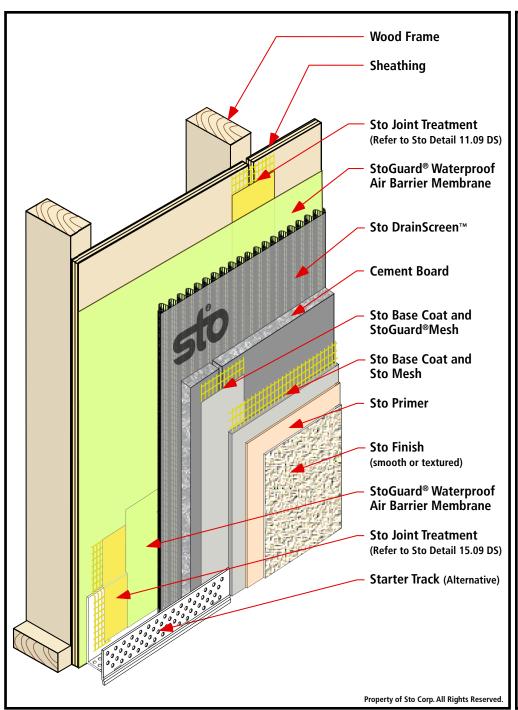
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StoQuik® Silver DrainScreen™ System Components - Alternative Drip Track

Detail No.: 11.02 DS

Date: January 2015



Notes:

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

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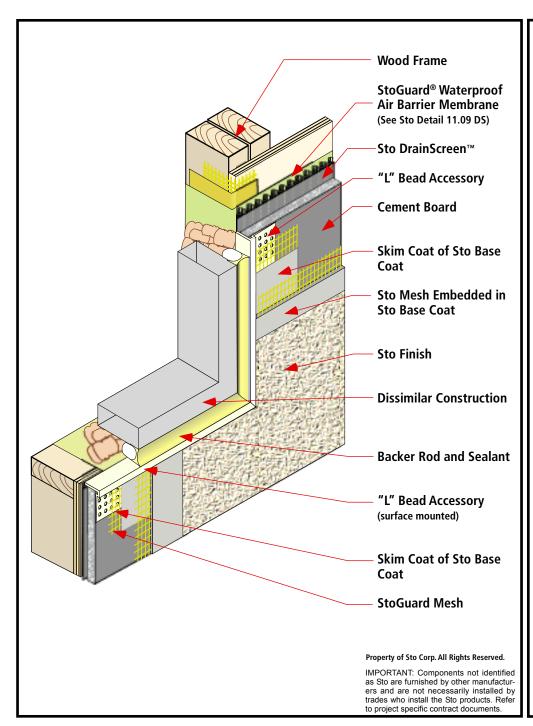
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StoQuik® Silver DrainScreen™ "L" Bead Termination Accessory at Dissimilar Material

Detail No.: 11.03a DS

Date: January 2015



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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)
- c. Back-to-back at expansion joints.
 (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.
- Refer to Sto Specification QS 200 DS for complete infor mation on design require ments, installation, and accessories.

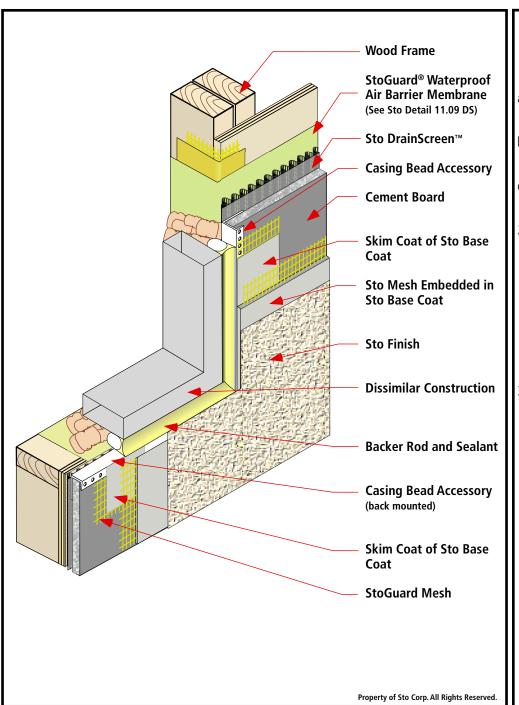
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StoQuik® Silver DrainScreen™ Casing Bead Accessory at Dissimilar Material

Detail No.: 11.03b DS

Date: January 2015



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)
- 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.

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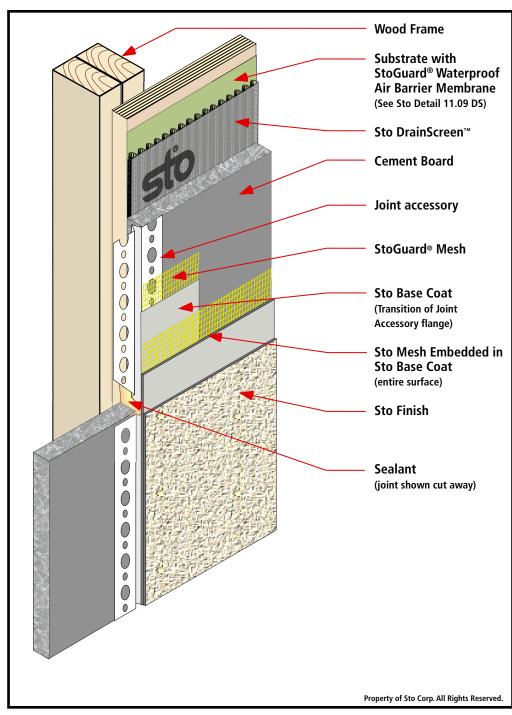
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StoQuik® Silver DrainScreen[™] Control Joint Accessory (Face Mount)

Detail No.: 11.03c DS

Date: January 2015



Notes:

- Use Control Joint Accessory : lin the field of the wall to accomodate thermal movement.
- 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.
- 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. 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.
- Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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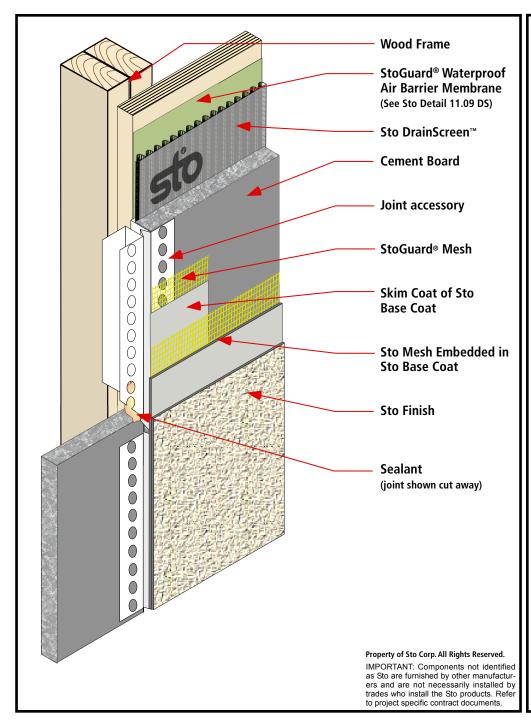
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StoQuik® Silver DrainScreen™ Control Joint Accessory (Back Mount)

Detail No.: 11.03d DS

Date: January 2015



Notes:

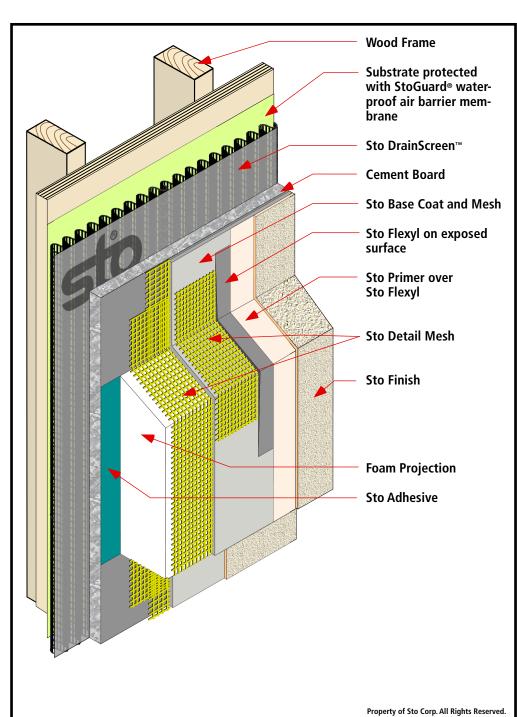
- Use Control Joint Accessory In the field of the wall to accommodate thermal movement.
- Use at intervals of 25 feet
 (7.6 m) maximum with light colored finishes (Lightness Value ≥ 50).
 Use at intervals of 16 feet (4.9 m) maximum with dark colored finishes (Lightness Value ≤ 50 and ≥ 30).
 When laying 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.
- 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.
- Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories

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StoQuik® Silver DrainScreen™

Foam Aesthetic Band /Projection (Thick)



Notes:

1. The maximum thickness of Extruded Polystyrene (EPS) allowed by code is typically 4"(100mm).

Detail No.: 11.04a DS

Date: January 2015

- 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 11.04b DS where the projection is less than 2"(50mm) or where snow and ice are not likely to accumulate.
- 4. Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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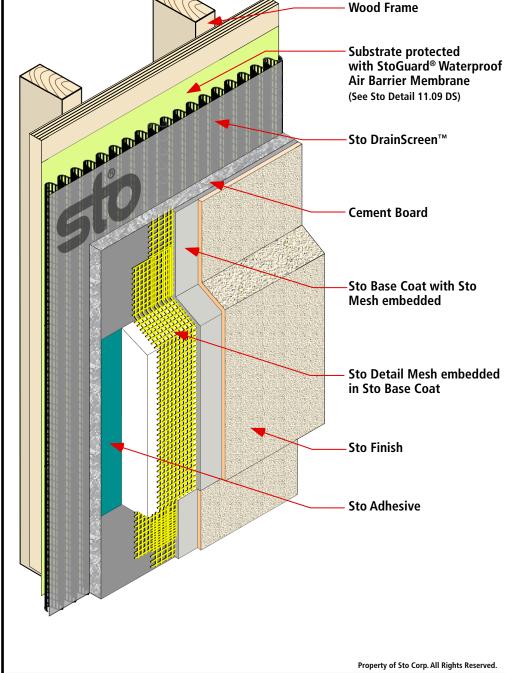


StoQuik® Silver DrainScreen™

Foam Aesthetic Band /Projection (Thin)

Detail No.: 11.04b DS **Date: January 2015 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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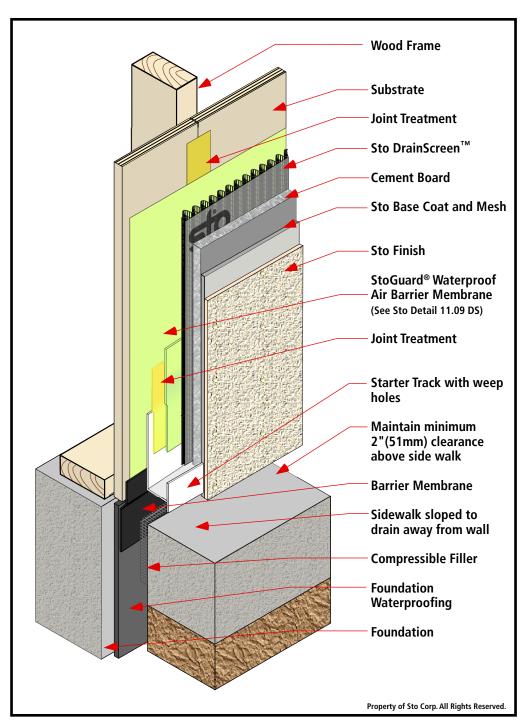
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StoQuik® Silver DrainScreen™ Termination at Sidewalk over Wood Frame

Date: January 2015

Detail No.: 11.11 DS



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 sur faces, minimum 4"(100mm) above earth grade. Increase distance above grade for snow regions.
- Refer to Sto Specification QS 200 DS for complete information on design requirements, installation and accessories.

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StoQuik® Silver DrainScreen™ Rough Opening Protection over Wood Frame

Step 1 Wrap inside corners with StoGuard[™] Mesh Step 2 Wrap sill with 9"(230mm) wide StoGuard™ Mesh returning up the jambs a Step 1 minimum of 4" (100mm) Step 2 Sill Wedge Step 3 Wrap jambs with minimum 9" (230mm) wide StoGuard™ Mesh lapping minimum 2.5" (65mm) over extension from sill, then wrap head Coat all mesh surfaces with Sto Gold Fill® and allow to dry Step 3 Step 4 Step 4 Coat the entire surface of the wall and into rough opening with Sto **EmeraldCoat®**

Notes:

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

Detail No.: 11.20a DS

Date: January 2015

- 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 inbound of the outer sealant joint.
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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StoQuik® Silver DrainScreen™ Brick Mold Window Head

Cement Board StoGuard® Waterproof Air Barrier Membrane Sto DrainScreen™ Joint Treatment (Refer to Sto Detail 11.09 DS) **Termination Accessory Wood Frame Flashing** Air Seal **Window Frame Head Perimeter Air Seal Rough Opening** Protection (Refer to Sto Details 11.09 DS & 11.20a DS) Window Frame Jamb Sto Finish (smooth or textured) **Backer Rod & Sealant Termination Accessory** Sto Base Coat and Mesh StoGuard® Waterproof Air Barrier Membrane

Notes:

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

Detail No.: 11.20b DS

Date: January 2015

- 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.
- Provide continuous air barrier around the interior perimeter of the window to reduce leaking, condensation related to air move ment, sound and insect intrusion.
- Refer to Sto Specification QS 200DS for complete information on design require ments, installation and accessories.

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Sheathing



StoQuik® Silver DrainScreen™ Brick Mold Window Sill / Jamb

Detail No.: 11.20c DS

Date: January 2015

Sheathing Wood Frame -StoGuard® Waterproof Air Barrier Membrane **Sto Rough Opening** Protection Sto DrainScreen™ (See Sto Details 11.09 DS & **Cement Board** 11.20a DS) Sto Base Coat and Mesh Sto Finish (smooth or textured) **Termination Accessory Sealant with Backer Rod** Window Frame Air Seal Pan Flashing with End Dams Set in Sealant Foam Rod **Termination Accessory** Sto DrainScreen™ **Cement Board** Sto Base Coat and Mesh Property of Sto Corp. All Rights Reserved.

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

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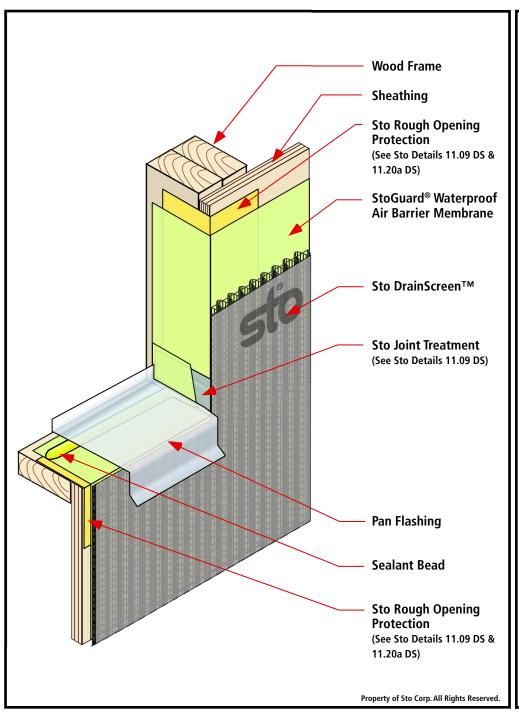
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StoQuik® Silver DrainScreen™ Pan Flashing at Opening Sill

Detail No.: 11.21a DS

Date: January 2015



Notes:

- 1. Wrap opening as shown in Sto Detail 11.20a DS
- 2. Install one or more beads of neutral-cure, silicone sealant on the sill and jamb.
- 3. Install the sill pan flashing into the wet sealant and press it into place. Tool any excess sealant off at the top of the side dams and back edge of the pan flashing.
- When installed the seal between the pan flashing and the rough opening protection must be air-tight.
- Lap Sto Joint Treatment onto the end dams so water draining down the jamb will be directed into the pan flashing and out of the wall assembly.
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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

Sheathing Sto Rough Opening Protection (See Sto Details 11.09 DS & 11.20 DS) Step 1 Sill Wedge StoGuard® Waterproof Air Barrier Membrane **Sto Joint Treatment** (See Sto Detail 11.09 DS) **Flashing** Wood Frame Air Seal Step 2 Sto DrainScreen™ Window **Spacer** Flashing StoGuard® Waterproof Air Barrier Membrane Property of Sto Corp. All Rights Reserved. NOTE: Use of Sto DrainScreen™ limited to Type V (combustible) construction, unless approved for other types by local code official.

Notes:

1. Prepare rough opening. (See Sto Detail 11.20 DS)

Detail No.:11.21b DS

Date: January 2015

- 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
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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StoQuik® Silver DrainScreen™ Deck Flashing

Sheathing **Cement Board Sto Joint Treatment** (Refer to Sto Detail 11.09 DS) StoGuard® Waterproof Air Barrier Membrane Sto DrainScreen™ Floor Line Joint (Refer to Sto Detail 11.50 DS) **Termination Accessory Deck Flashing Assembly Deck Stringer Termination Accessory Deck Flashing Assembly** Sto Base Coat and Mesh Sto Primer Sto Finish (smooth or textured)

Notes:

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

Detail No.: 11.32 DS

Date: January 2015

- 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
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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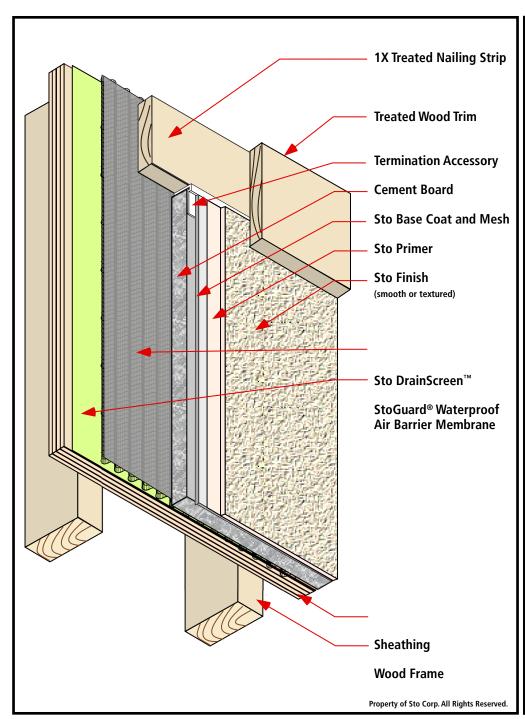
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StoQuik® Silver DrainScreen™ Termination at Soffit

Detail No.: 11.40 DS

Date: January 2015



Notes:

- 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 instal lation of the 1x treated nail ing strip.
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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(smooth or textured)

Flashing

Termination Accessory

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™ Floor Expansion Joint

Sheathing

StoGuard® Waterproof
Air Barrier Membrane

Sto DrainScreen™

Cement Board

Sto Base Coat and Mesh

Sto Primer

Sto Finish

Notes:

 Install closed-cell backer rod into sheathing joint to support barrier membrane.

Detail No.: 11.50 DS

Date: June 2011

- 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.
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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

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)

Notes:

 Wrap Sto joint treatment approximately 4"(200 mm) in each direction around the inside corner

Detail No.: 11.53a DS

Date: January 2015

- Inside corner joint accessories are not required where the substrate construction is the same around the corner
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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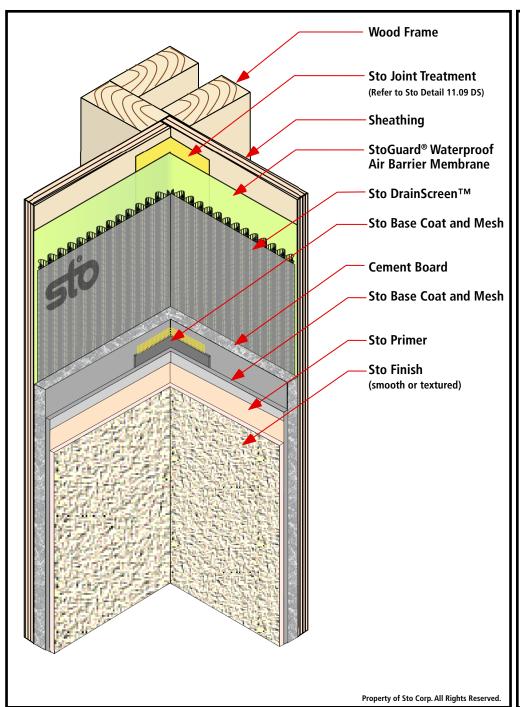
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StoQuik® Silver DrainScreen™ Joint at Inside Corner: Common Substrate

Detail No.: 11.53b DS

Date: January 2015



Notes:

- 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 require ments, installation and accessories.

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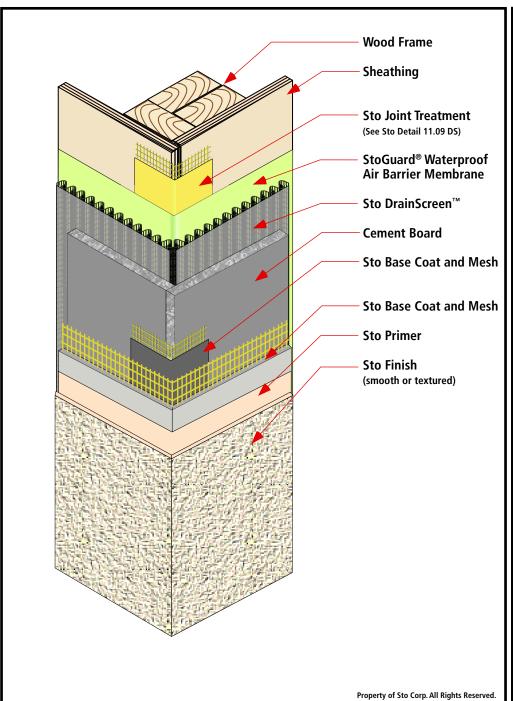
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StoQuik® Silver DrainScreen™ Outside Corner: Common Substrate

Detail No.: 11.54 DS

Date: January 2015



Notes:

- Install Sto Joint Treatment around sheathing joint at the outside corner.
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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StoQuik® Silver DrainScreen™ Roof/Wall Diverter Flashing

Sheathing **Cement Board** Sto Base Coat & Mesh **Sto Primer Sto Joint** Sto Finish **Treatment** (smooth or textured) Sto DrainScreen™ **Termination Accessory** Terminate 2"(50mm) above finished roof Step Flashing **Roof Finish** Seal between **Termination Accessory** and Diverter **Diverter Flashing Edge Flashing** Gutter StoGuard® Waterproof Air Barrier Membrane

Notes:

1. Install StoGuard® prior to installation of flashing.

Detail No.: 11.62 DS

Date: January 2015

- 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
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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StoQuik® Silver DrainScreen™ Saddle Flashing

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Sheathing StoGuard® Waterproof Air Barrier Membrane Sto DrainScreen™ Cement Board Sto Primer Sto Finish (smooth or textured) Sto Base Coat and Mesh **Sto Joint Treatment** (Refer to Sto Detail 5.09 DS) Starter Track Termination Saddle Flashing (See Sto detail 1.65b) **Parapet Flashing** Assembly (not illustrated) **Compatible Roof or Barrier Membrane Termination Accessory** Cement Board Sto DrainScreen™ **Wood Frame Sealant between Casing Bead and Flashing**

Notes:

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

Detail No.: 11.65 DS

Date: January 2015

- 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.
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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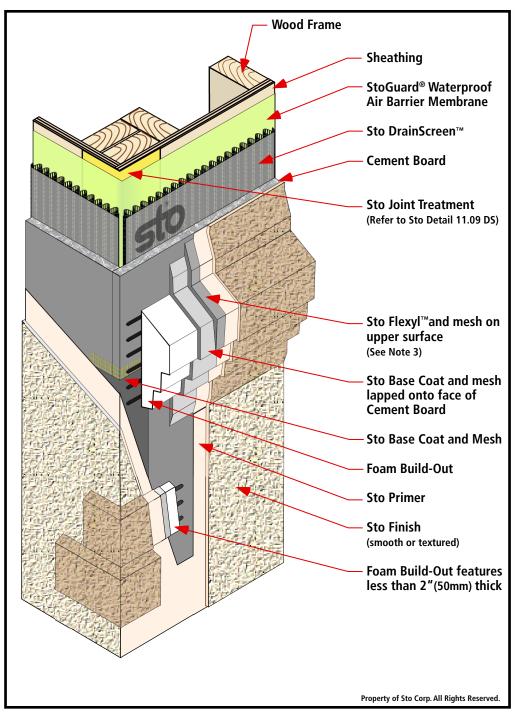
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StoQuik® Silver DrainScreen™ Foam Build-Outs

Detail No.: 11.70 DS

Date: January 2015



Notes:

- 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.
- Provide Sto Flexyl™ and mesh on upper surfaces of the foam build-out feature projecting more than 2" (50 mm) from the stucco surface.
- Refer to Sto Specification QS 200 DS for complete information on design require ments, installation and accessories.

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