Waterproof Air Barrier:
StoGuard® Waterproof Air Barrier
Frame Construction
Series 20.xx
March 2014

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StoGuard® Waterproof Air Barrier
Frame Construction
Non-absorptive Cladding and Cavity Walls

Typical Sheathing Joint
- Supporting structure (steel or wood framing)
- Substrate
- StoGuard joint treatment
- StoGuard waterproof air barrier membrane

Oversized Sheathing Joint
- Low-expanding urethane spray foam, trimmed flush with sheathing surface.
- StoGuard joint treatment
- StoGuard waterproof air barrier membrane

Notes:
1) StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8" (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8" (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4" (6 mm) wide

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)

3) Examples of non-absorptive cladding: fiber-cement board, wood or vinyl siding, metal panel system with sealed joints.

4) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoGuard® Waterproof Air Barrier
Frame Construction
Absorptive Cladding

Typical Sheathing Joint
Supporting structure (steel or wood framing)
Substrate
StoGuard® joint treatment
StoGuard waterproof air barrier membrane
Slip sheet/water-resistant barrier (Note 3)

Oversized Sheathing Joint
Low-expanding urethane spray foam, trimmed flush with sheathing surface.
StoGuard joint treatment
StoGuard waterproof air barrier membrane
Water-resistant barrier and slip sheet (Note 3)

Notes:
1) StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8" (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8" (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4" (6 mm) wide

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)

3) Water-resistant barrier/slip sheet, minimum #15 Grade D building paper, required behind cladding such as portland cement stucco and adhered masonry veneer. For wood-based sheathing use minimum 60-minute Grade D paper when backed with Sto AirSeal™ or StoGuard VaporSeal™

4) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoGuard® Waterproof Air Barrier
Frame Construction
StoGuard® with Furring and Backer Board
(Engineered Wall Design)

Notes:

1] StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8” (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8” (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4” (6 mm) wide

2] StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)

3] Engineered wall design must take into account furring and cladding attachment, cantilevered load imposed by cladding on fasteners, fire and flame propagation, and other design considerations to conform with or gain compliance with local code requirements.

4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoGuard® Waterproof Air Barrier Frame Construction

Sto DrainScreen™

**Notes:**

1) StoGuard joint treatment options:
   A) StoGuard RapidFill® with StoGuard Mesh joints ≤ 1/8" (3 mm) wide
   B) Sto Guard Fill® with StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8" (3 mm) wide
   C) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4" (6 mm) wide

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)

3) Examples of non-absorbative claddings include fiber-cement board, wood and vinyl siding, metal panel systems with sealed joints, and brick or stone cavity walls

4) Use Sto DrainScreen™ to create a cavity to promote drainage and drying of wall assemblies.

5) Water-resistant barrier, minimum #15 Grade D building paper, required behind portland cement stucco and adhered masonry veneer. For wood-based substrates use minimum 60-minute, Grade D paper when backed by Sto AirSeal™ or StoGuard VaporSeal™.

6) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

**Non-absorbive Claddings (note 3)**

- Supporting structure (steel or wood framing)
- Substrate
- StoGuard joint treatment
- StoGuard waterproof air barrier membrane
- Sto DrainScreen™ (note 4)

**Absorptive Claddings**

- Water-resistive barrier (Note 4)

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StoGuard® Waterproof Air Barrier
Frame Construction
Continuous Insulation - Brick Cavity or Other Cladding

Notes:
1) StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh
      joints ≤ 1/8" (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane
      joints ≤ 1/8" (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh -
      joints ≤ 1/4" (6 mm) wide
2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)
3) Continuous foam plastic insulation must be approved and in conformance with IRC Section 316 and IBC Section 2603 (note required fire tests for use on noncombustible construction). Consult with cladding manufacturer for required supports, attachment and limitations for assemblies involving continuous insulation.
4) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoGuard® Waterproof Air Barrier
Frame Construction
Continuous Insulation - Portland Cement Stucco and
Adhered Masonry Veneer

Notes:
1) StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with
       StoGuard Mesh
       joints ≤ 1/8" (3 mm) wide
   C) StoGuard Fabric with
       StoGuard waterproof air
       barrier membrane
       joints ≤ 1/8" (3 mm) wide
   D) StoGuard RapidSeal™
       with StoGuard Mesh -
       joints ≤ 1/4" (6 mm) wide

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
      (Use with StoTherm NExT
       EIF systems)

3) Water-resistive barrier/ slip sheet, minimum #15 Grade D building paper, required behind claddings such as portland cement stucco and adhered masonry veneer. For wood-based sheathing use minimum 60- minute, Grade D paper when backed with Sto AirSeal™ or StoGuard VaporSeal™

4) Continuous foam plastic insulation must be approved and in conformance with IRC Section 316 and IBC Section 2603 (note required fire tests for use on noncombustible construction). Consult with cladding manufacturer for required supports, attachment and limitations for assemblies involving continuous insulation.

5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoGuard® Waterproof Air Barrier
Frame Construction
Inside Corner - Common Substrate

Notes:
1] StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8" (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8" (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh joints ≤ 1/4" (6 mm) wide

2] StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
      (Use with StoTherm NExT EIF systems)

3] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier Frame Construction

Outside Corner

Notes:

1] StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8” (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8” (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4” (6 mm) wide

2] StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)

3] Best practice is to overlap sheathing as shown in detail “A”. Detail “B” presents an option to accommodate minor construction variations: maximum 5/8-in. x 5/8-in. (16 mm x 16 mm) gap at corner.

4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/flash sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction

Brick Ledge at Foundation with Masonry Anchors - Steel Frame

Notes:
1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane
   D) StoGuard RapidSeal™ with StoGuard Mesh

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)

3) Continuous foam plastic insulation must be approved and in conformance with IRC Section 316 and IBC Section 2603 (note required fire tests for use on noncombustible construction).

4) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier and slip sheet required behind porous claddings not shown. Refer to Sto Detail 20.00b for additional information.

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Date: March 2014

Notes:

Supporting structure
Substrate
Masonry anchor sealed with StoGuard® detail component (A or B)
StoGuard waterproof/air barrier membrane (Note 2)
Continuous insulation (Note 3)
StoGuard detail component (Note 1)
Metal flashing set in sealant
Foundation waterproofing

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StoGuard® Waterproof Air Barrier
Frame Construction
Masonry Anchor Backer Seal

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**Notes:**

1. StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™

2. StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
   (Use with StoTherm NExT EIF systems)

3. Caution: All fasteners should be into framing with fastener head snug to tie surface. Remove fasteners and seal all penetrations where studs are missed using StoGuard detail component or compatible sealant.

4. Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

**Option A: StoGuard detail component**
- Substrate
- StoGuard detail component
- StoGuard waterproof air barrier membrane
- Masonry anchor

**Option B: StoGuard Tape**
- StoGuard Tape
- StoGuard waterproof air barrier membrane
- Masonry anchor
**StoGuard® Waterproof Air Barrier**

**Frame Construction**

**Termination at Grade - Sheathing Flush with Foundation**

**Detail No.: 20.10a**

**Date: March 2014**

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**Notes:**

1. StoGuard detail component options:
   - A) StoGuard RapidFill
   - B) Sto Gold Fill® with StoGuard Mesh
   - C) StoGuard Fabric with StoGuard waterproof air barrier membrane
   - D) StoGuard RapidSeal™ with StoGuard Mesh

2. StoGuard waterproof air barrier membrane options:
   - A) Sto EmeraldCoat®
   - B) StoGuard VaporSeal™
   - C) Sto AirSeal™
   - D) Sto Gold Coat® (Use with StoTherm NExT EIF systems)

3. Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Termination at Grade - Sheathing Overlapping Foundation

Notes:
1] StoGuard detail component options:
A) StoGuard RapidFill
B) Sto Gold Fill® with StoGuard Mesh
C) StoGuard Fabric with StoGuard waterproof air barrier membrane
D) StoGuard RapidSeal™ with StoGuard Mesh

2] StoGuard waterproof air barrier membrane options:
A) Sto EmeraldCoat®
B) StoGuard VaporSeal™
C) Sto AirSeal™
D) Sto Gold Coat®
(Use with StoTherm NExT EIF systems)

3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier /slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Rough Opening Protection with StoGuard Fabric

Detail No.: 20.20F
Date: March 2014

Notes:
1) StoGuard® waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto Gold Coat®
   (Use with StoTherm NExT EIF systems)

2) Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means of positive slope to exterior at sill.

3) Incorporate flashing as illustrated in 20.23a or as per other details where flashing is shown.

4) The complete installation of window or mechanical equipment must include an air seal between the object and the StoGuard protection, inbound of the outer perimeter weather seal.

5) See Sto Detail 20.21 for preparation of punched studs used to frame rough openings.

6) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

Step 1
At sill-to-jamb intersections only, embed strip of StoGuard® Fabric along framing joint to full depth of opening.

Apply StoGuard® waterproof air barrier membrane liberally at corners of rough openings and place StoGuard® RediCorner™ in wet membrane. Use brush, roller, trowel or tapping knife to fully embed StoGuard® RediCorner™.

Step 2
Immediately apply StoGuard® waterproof air barrier membrane liberally to inside of opening and around outside of head, sill and jambs. Center StoGuard® Fabric on outside corners and press into wet membrane along the head, jambs, and sill with minimum 2" (50 mm) overlaps of adjacent fabric. Use brush, roller, trowel or tapping knife to fully embed StoGuard® Fabric.

Step 3
Immediately coat the entire surface of the wall and inside surfaces of rough opening with StoGuard® waterproof air barrier membrane to produce a void and pinhole free surface. Edges of StoGuard® RediCorner and StoGuard® Fabric must lay flat, be wrinkle-free, be fully embedded in the membrane and fully adhered to the substrate or previous layer of StoGuard® Fabric.

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StoGuard® Waterproof Air Barrier
Frame Construction
Rough Opening Protection with StoGuard Fabric and StoGuard Tape at Sill (for abuse-resistance at sill)

Step 1
Apply minimum 2" (50 mm) wide StoGuard Tape in diagonal strips at rough opening sill corners.

Step 2
Apply minimum 6" (150 mm) wide StoGuard Tape to sill and extending minimum 4-inches (102 mm) up jambs.

Step 3
Apply StoGuard waterproof air barrier membrane liberally to head/jamb corners. Install StoGuard RediCorners™ in wet membrane. Use brush, roller, trowel or taping knife to fully embed StoGuard RediCorners™.

Step 4
Immediately coat head and jambs liberally with StoGuard waterproof air barrier membrane. Center 2" (150 mm) wide StoGuard Fabric on outside corners of opening head and jambs and embed in wet membrane with minimum 2" (50 mm) overlaps of adjacent fabric and StoGuard Tape.

Step 5
Immediately coat surface of the wall into rough opening head and jambs with StoGuard waterproof air barrier membrane to produce a void and pinhole free surface. Edges of StoGuard RediCorners™, StoGuard Fabric and StoGuard Tape must lay flat, wrinkle-free, and be fully embedded in the membrane and fully adhered to the substrate or previous layer of StoGuard Fabric.

Notes:
2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto Gold Coat®
   (Use with StoTherm NE XT EIF systems)

2) Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means for positive slope to exterior at sill.

3) Incorporate flashing as illustrated in 20.23a or as per other details where flashing is shown.

4) The complete installation of window or mechanical equipment must include an air seal between the object and the StoGuard protection, inboard of the outer perimeter weather seal.

5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

Attention
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Step 1
Place 2” (50mm) wide strip of Sto Guard Mesh lapping onto face of wall diagonally at corners of opening.

Step 2
Place minimum 4” (100mm) StoGuard Mesh at all sheathing joints
Wrap sill with 9” (230mm) wide StoGuard mesh returning up the jambs a minimum of 4” (100mm)

Step 3
Wrap jambs with minimum 9” (230mm) wide StoGuard Mesh, lapping minimum 2.5” (64mm) over extension from sill, then wrap head.
Coat StoGuard Mesh with Sto Gold Fill®

Step 4
Coat the entire surface of the wall and into rough opening with StoGuard waterproof air barrier membrane.

Notes:
2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto Gold Coat®
   (Use with StoTherm NExFF systems)
2) Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means for positive slope to exterior of sill.
3) Incorporate flashing as illustrated in 20.23a or as per other details where flashing is shown.
4) The complete installation of window or mechanical equipment must include an air seal between the object and the StoGuard protection, inbound of the outer perimeter weather seal.
5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Rough Opening Protection with StoGuard® RapidSeal™

Step 1
Apply generous bead of StoGuard RapidSeal around inner and outer perimeter of rough opening.

Step 2
Tool beads of StoGuard RapidSeal to a uniform continuous minimum 12-mil thickness. Coat sheathing surface nominal 2-inches (51 mm) around rough opening perimeter with StoGuard RapidSeal.

Step 3
Apply StoGuard waterproof air barrier membrane to exterior sheathing surface up to edge of opening. (Alternatively, StoGuard waterproof air barrier membrane may be applied to exterior sheathing surface before installation of StoGuard RapidSeal.) In cases where StoGuard VaporSeal is the waterproof air barrier, coat all StoGuard RapidSeal with StoGuard VaporSeal to provide continuous vapor barrier.

Assure that final surface of StoGuard RapidSeal is continuous at joints, seams between materials, and framed corners.

Notes:
1) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto Gold Coat®
   (Use with StoTherm NExT EIF systems)
2) Prepare opening prior to the installation of the window or mechanical equipment.
3) Incorporate flashing as illustrated in 20.23a or as per other details where flashing is shown. Provide sill wedge or other means for positive slope to exterior at sill.
4) The complete installation of window or mechanical equipment must include an air seal between the object and the StoGuard protection, inbound of the outer perimeter weather seal.
5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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www.stocorp.com
StoGuard® Waterproof Air Barrier
Frame Construction
Rough Opening Protection with StoGuard Tape

**Notes:**

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto Gold Coat®  
   (Use with StoTherm NExT EIF systems)

3) Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means for positive slope to exterior at sill.

3) Incorporate flashing as illustrated in 20.23a or as per other details where flashing is shown.

4) The complete installation of window or mechanical equipment must include an air seal between the object and the StoGuard protection, inbound of the outer perimeter weather seal.

5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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**StoGuard® Waterproof Air Barrier**

Frame Construction

**Flashning Integration at Window Opening - Box Window**

**Notes:**

1) StoGuard detail component options:
   A) StoGuard RapidSeal™
   B) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier)
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane
   D) StoGuard Tape (with StoGuard Fabric shingle lap)

2) Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means of positive slope to exterior at sill.

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

4) Provide thermal break as needed in pan flashing design, depending on climate.

5) The complete installation of window or mechanical equipment should include an air seal between the object and the StoGuard protection inbound of the outer perimeter weather seal.

6) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Concealed Flashing at Sill - Nail Fin Window

Notes:
1] StoGuard detail component options:
A) StoGuard RapidSeal™
B) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
C) StoGuard Fabric with StoGuard waterproof air barrier membrane
D) StoGuard Tape (with StoGuard Fabric shingle lap.)

2] StoGuard waterproof air barrier membrane options:
A) Sto EmeraldCoat®
B) StoGuard VaporSeal™
C) Sto AirSeal™
D) Sto Gold Coat®
(Use with StoTherm NExT EIF systems)

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

4] The complete installation of window must include an air seal between the window and the StoGuard protection, inbound of the outer perimeter weather seal.

5] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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**StoGuard® Waterproof Air Barrier**

**Frame Construction**

**Window Head Flashing**

**Notes:**

1] StoGuard detail component options:  
   A) StoGuard RapidSeal™  
   B) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)  
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane  
   D) StoGuard Tape (with StoGuard Fabric shingle lap)

2] StoGuard waterproof air barrier membrane options:  
   A) Sto EmeraldCoat®  
   B) StoGuard VaporSeal™  
   C) Sto AirSeal™  
   D) Sto Gold Coat®  
   (Use with StoTherm NExT EIF systems)

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

4] The complete installation of window must include an air seal between the window or mechanical equipment and the StoGuard protection, in bound of the outer perimeter weather seal.

5] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slap sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Head Flashing with Lintel

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Date: March 2014

Notes:
1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™
   C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   D) StoGuard Tape (with StoGuard Fabric shingle lap)

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
   (Use with StoTherm NE XT EIF systems)

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

4) The complete installation of window must include an air seal between the window or mechanical equipment and the StoGuard protection, inbounds of the outer perimeter weather seal.

5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier and slip sheet required behind porous claddings not shown. Refer to Sto Detail 20.00b for additional information.

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Head Flashing with Lintel
Detail No.: 20.24b

StoGuard detail component (Note 1)
StoGuard detail component. See Details 20.00a through 20.00e for rough opening protection material and installation options.

Structure (steel or wood)
Sheathing
Structural steel lintel

Flashing with end dams
StoGuard waterproof air barrier membrane

EDGE
StoGuard® Waterproof Air Barrier
Frame Construction
Balcony Floor to Wall Transition with Deck Coating

Notes:

1) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
   (Use with StoTherm NExT EIF systems)

2) Provide positive slope to direct water away from wall. Verify compatibility of waterproof deck membrane materials with StoGuard waterproof air barrier membrane.

3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Balcony Floor to Wall Transition - Inside and Outside Corners

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Detail No.: 20.30b
Date: March 2014

Notes:
1] StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
   (Use with StoTherm NeXT EIF systems)

2] Provide positive slope to direct water away from wall. Verify compatibility of balcony waterproofing materials with StoGuard waterproof air barrier membrane.

3] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slipsheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

Sheathing coated with StoGuard waterproof air barrier membrane
Compatible sealant
Quarter-round backer rod
Compatible waterproof deck coating. Extend minimum 4” (102 mm) onto vertical surface
Balcony slab
Framing (steel or wood)
Sheathing coated with StoGuard waterproof air barrier membrane
Quarter-round backer rod
Compatible sealant
Compatible waterproof deck coating. Extend minimum 4” (102 mm) onto vertical surface
Balcony slab

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EDGE
StoGuard® Waterproof Air Barrier
Frame Construction
Deck Connection

Sheathing coated with StoGuard waterproof air barrier membrane
StoGuard detail component
Flashing
StoGuard sheathing joint treatment. See Sto Detail 20.00a
StoGuard Tape
Deck flashing - end dam
Deck framing
Deck fasteners, set in sealant.
Deck flashing - pan with drip edge (supplemental flashing over deck ledger not shown)

Notes:
1) StoGuard detail component options:
A) StoGuard RapidFill
B) StoGuard RapidSeal™
C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane).
D) StoGuard Fabric with StoGuard waterproof air barrier membrane
E) StoGuard Tape (with StoGuard Fabric shingle lap).

2) StoGuard waterproof air barrier membrane options:
A) StoEmeraldCoat®
B) StoGuard VaporSeal™
C) StoAirSeal™
D) Sto Gold Coat®
(Use with StoTherm NEt EIF systems)

3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Floor Line Flashing at Fixed Slab-to-Frame Condition

Notes:
1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™
   C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   D) StoGuard Fabric with StoGuard waterproof air barrier membrane
   E) StoGuard Tape (with StoGuard Fabric shingle lap)
2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NEXT EIF systems)
3) StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8" (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8" (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4" (6 mm) wide
4) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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Date: March 2014

Notes:

StoGuard detail component
Framing
Sheathing coated with StoGuard waterproof air barrier membrane
StoGuard joint treatment (See Sto Detail 20.00a)
Flashing
StoGuard joint treatment
StoGuard detail component
StoGuard® Waterproof Air Barrier
Frame Construction
Floor Line with Deflection Track

Notes:
1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™
   C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   D) StoGuard Fabric with StoGuard waterproof air barrier membrane
   E) StoGuard Tape (with StoGuard Fabric shingle lap)
2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
   (Use with StoTherm NExT EIF systems)
3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Shelf Angle at Floor Line

**Attention**

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**Notes:**

1) StoGuard detail component options:
   A) StoGuard RapidFill™
   B) StoGuard RapidSeal™
   C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   D) StoGuard Tape (with StoGuard Fabric shingle lap)

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
   (Use with StoTherm NExT EIF systems)

3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/flash sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

**Important:** Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

**Date:** March 2014
StoGuard® Waterproof Air Barrier
Frame Construction
Vertical Through-Wall Expansion Joint with Wet Sealant

Notes:
1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™
   C) Sto Gold Fill StoGuard
   Mesh top coated with StoGuard waterproof air barrier membrane.

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
   (Use with StoTherm NExT EIF systems)

3) Specify a compatible sealant material that meets the movement requirements of the joint as defined by the joint sealant supplier.

4) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

Framing

Sheathing coated with StoGuard waterproof air barrier membrane

Backer rod

StoGuard detail component

Compatible sealant

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StoGuard® Waterproof Air Barrier
Frame Construction
Inside Corner - Dissimilar Substrates
(Fixed Frame Pilaster or Similar Condition)

CMU Construction

Framing: steel or wood

Sheathing

StoGuard joint treatment

StoGuard waterproof air barrier membrane

Notes:
1) StoGuard joint treatment options:
   A) StoGuard RapidFill
   B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8” (3 mm) wide
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane
      joints ≤ 1/8” (3 mm) wide
   D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4” (6 mm) wide

2) StoGuard waterproof air barrier membrane options:
   A) StoEmeraldCoat®
   B) StoGuard VaporSeal™
   C) StoAirSeal™
   D) Sto Gold Coat®
      (Use with StoTherm NE XT EIF systems)

3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slipsheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Termination at Parapet

Notes:

1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™ with StoGuard® Mesh
   C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   D) StoGuard Fabric with StoGuard waterproof air barrier membrane

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat® (Use with StoTherm NEzT EIF systems)

3) Verify compatibility of roof membrane materials with StoGuard.

4) Verify continuity of roof membrane to waterproof air barrier interface.

5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Saddle Wall Intersection

Notes:

1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™ with StoGuard Mesh
   C) Sto Gold Fill with StoGuard Mesh top coated with StoGuard waterproof air barrier membrane.

2) StoGuard waterproof air barrier membrane options:
   A) Sto EmeraldCoat®
   B) StoGuard VaporSeal™
   C) Sto AirSeal™
   D) Sto Gold Coat®
      (Use with StoTherm NExT EIF systems)

3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction
Mechanical Penetrations

Penetrations with gap ≤ 1/4” (6mm)
(see Note 1)

Sheathing
StoGuard detail component
StoGuard waterproof air barrier membrane

Penetrations with gap > 1/4” (6 mm)
(consult spray foam manufacturer for maximum size of gap for product being used)

Low expanding urethane spray foam to fill wide gap
Cured spray foam trimmed flush with sheathing
StoGuard detail component
StoGuard waterproof air barrier membrane

Notes:
1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™ with StoGuard Mesh
   C) Sto Gold Fill® with StoGuard Mesh
      (top coated with StoGuard waterproof air barrier membrane)
   D) StoGuard Fabric with StoGuard waterproof air barrier membrane-
      (gaps ≤ 1/8” [3 mm])
   E) StoGuard Tape (with StoGuard Fabric shingle lap)

2) StoGuard waterproof air barrier membrane options:
   A) Sto Gold Coat®
      (vapor permeable)
   B) Sto Emerald Coat®
      (high perm)
   C) StoGuard Vapor Seal™
      (vapor impermeable)
   D) Sto Air Seal™
      (high perm)

3) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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StoGuard® Waterproof Air Barrier
Frame Construction

Scupper

Framed parapet assembly (wood or steel frame)

StoGuard detail component (lap nominal 1-inch onto scupper assembly) (Note 1)

Scupper assembly

Roofing membrane

StoGuard waterproof air barrier membrane

Notes:
1) StoGuard detail component options:
   A) StoGuard RapidFill
   B) StoGuard RapidSeal™ with StoGuard Mesh
   C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   D) StoGuard Fabric with StoGuard waterproof air barrier membrane- (gaps ≤ 1/8" [3 mm])
   E) StoGuard Tape (with StoGuard Fabric shingle lap)

2) Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means of positive slope to exterior at sill.

3) Verify compatibility of roof membrane materials with StoGuard.

4) Verify continuity of roof membrane to waterproof air barrier interface.

5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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