Waterproof Air Barrier:
StoGuard® Waterproof Air Barrier
Masonry Construction
Series 21.xx
April 2012

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StoGuard® Waterproof Air Barrier
Masonry Construction

Components and Surface Preparation: Option 1

Sto Gold Coat®, Sto EmeraldCoat® or StoGuard® VaporSeal™

CMU Construction

Crack or void at joints

Sto Gold Fill and Sto-Guard Mesh or Sto-Guard RapidSeal™ applied over crack and spread smooth.

StoGuard waterproof air barrier membrane (Note 3)

See Sto Detail 21.00b for Sto Air Seal waterproof air barrier membrane option.

Notes:
1] Prepare substrate by:
   • striking mortar joints flush
   • removing mortar droppings or other debris from surface
   • cleaning any dirt, efflorescence or other bond-inhibiting materials
   • repairing any cracks or damage to the wall surface.

2] Repair minor, up to 1/8-inch (3mm) nonstructural cracks with Sto Gold Fill® and StoGuard Mesh, or StoGuard RapidSeal™. Allow crack repair to dry before applying StoGuard waterproof air barrier.

3] StoGuard waterproof air barrier membrane options:
   A) Sto Gold Coat® (vapor permeable)
   B) Sto EmeraldCoat® (high perm)
   C) StoGuard® VaporSeal™ (low perm)

4] Apply Sto Gold Coat® or Sto EmeraldCoat® in two coats, minimum 30 wet mils per coat. All applications must be applied such that a void and pinhole free surface is achieved. Apply StoGuard VaporSeal minium 40 wet mils in one or two coats depending on application method and conditions.

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

IMPORTANT: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or paring material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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StoGuard® Waterproof Air Barrier
Masonry Construction
Components and Surface Preparation: Option 2

Notes:

1) Prepare substrate by:
   • striking mortar joints flush
   • removing mortar droppings or other debris from surface
   • cleaning any dirt, efflorescence or other bond-inhibiting materials
   • repairing any cracks or damage to the wall surface.

2) Repair minor, up to 1/8-inch (3mm) nonstructural cracks with Sto Gold Fill® and StoGuard Mesh, or Sto Flexible Crack Filler. Allow crack repair to dry before applying Sto Air Seal waterproof air barrier.

3) Apply Sto AirSeal™ using airless sprayer to a wet thickness ranging from 60 to 80 mils. Use pump with minimum 1 GPM pump rate and 17 mil tip.

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

Sto AirSeal™

CMU Construction

Crack or void at joints

Apply Sto Gold Fill and StoGuard Mesh to cracks wider than 1/16 inch (3.2 mm), or fill with Sto Flexible Crack Filler. Pretreatment of cracks less than 1/16-inch (3.2 mm) wide is not required for Sto Air Seal applications.

Sto AirSeal

IMPORTANT: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

See Sto Detail 21.00a for additional waterproof air barrier membrane option.

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**StoGuard® Waterproof Air Barrier**  
**Masonry Construction**  
**Surface Preparation over Irregular CMU**

**Notes:**

1. Prepare substrate by:
   - striking mortar joints flush
   - removing mortar droppings or other debris from surface
   - cleaning any dirt, efflorescence or other bond-inhibiting materials
   - repairing any cracks or damage to the wall surface.

2. One liberal coat of StoGuard waterproof air barrier membrane is typically required. Spray applications may require back rolling. All applications must be applied such that a void and pinhole free surface is achieved.

3. StoGuard waterproof air barrier membrane options:
   - A) Sto AirSeal (high perm)
   - B) Sto Gold Coat® (vapor permeable)
   - C) Sto EmeraldCoat® (high perm)
   - D) StoGuard VaporSeal™ (vapor impermeable)

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

**CMU construction with irregular or rough surface. Joints struck flush.**

**Coat entire surface with Sto base coat, leveling or paring material. Allow to dry minimum 24 hours.**

**StoGuard waterproof air barrier membrane. One coat typical, applied by roller, spray or brush (Note 3)**

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StoGuard® Waterproof Air Barrier
Masonry Construction

Sto DrainScreen™

**CMU Construction**

StoGuard waterproof air barrier (Note 2)

**Sto DrainScreen™**

**Importantly:** The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

**Notes:**

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

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

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StoGuard® Waterproof Air Barrier Masonry Construction

Continuous Insulation

**Brick or Other Cavity Wall:**
CMU Construction with StoGuard waterproof air barrier (Note 2)

**Continuous insulation (Note 3)**

**Portland Cement Stucco and Ahered Masonry Veneer over Lath:**
CMU Construction with StoGuard waterproof air barrier (Note 2)

**Continuous insulation (Note 3)**

**Sto DrainScreen™**

**Notes:**
1) Prepare substrate by:
- striking mortar joints flush
- removing mortar droppings or other debris from surface
- cleaning any dirt, efflorescence or other bond-inhibiting materials
- repairing any cracks or damage to the wall surface.

2) StoGuard® waterproof air barrier membrane options:
   a) Sto AirSeal™ (high perm)
   b) StoGuard® VaporSeal™ (vapor impermeable)
   c) Sto Gold Coat® (vapor permeable)
   d) Sto Emerald Coat® (high perm)

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**  
**Masonry Construction**  
**Corner Application**

**Detail No.: 21.01**  
**Date: April 2012**

**Notes:**

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a, 21.00b and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

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

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**CMU Construction**

StoGuard waterproof air barrier membrane (Note 2)

Verify complete continuous coating at inside corner

**EDGE**

CMU Construction
StoGuard® Waterproof Air Barrier
Masonry Construction
Brick Veneer Tie Attachment

CMU Construction

StoGuard waterproof air barrier membrane (Note 2)

Veneer tie with optional membrane backing such as StoGuard Tape or StoGuard RapidSeal

Veneer tie without membrane backing

Consult tie manufacturer for tie spacing and tie installation instructions.

Notes:
1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2] Refer to Sto Details 21.00a, 21.00b and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

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

IMPORTANT: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or patching material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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**StoGuard® Waterproof Air Barrier Masonry Construction**

**Hook-style Masonry Tie**

**Notes:**

1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2] Refer to Sto Details 21.00a, 21.00b and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

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

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StoGuard® Waterproof Air Barrier
Masonry Construction
Termination at Grade

**Details:**
- **Termination at Grade**
- **Date:** April 2012

**Notes:**
1. Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
2. Refer to Sto Details 21.00a, 21.00b and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.
3. StoGuard Transition Membrane options: A) StoGuard RapidSeal B) Sto Gold Fill and 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)
4. Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

**Important:** The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the StoGuard waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the StoGuard waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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StoGuard® Waterproof Air Barrier
Masonry Construction
Termination at Grade with Ledge

Notes:

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a, 21.00b and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3) StoGuard Transition Membrane options:
   A) StoGuard RapidSeal
   B) Sto Gold Fill and 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)

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 Masonry Construction

Rough Opening Protection with Sto Gold Fill and StoGuard Mesh

Detail No.: 21.20G

Date: April 2012

Notes:

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a, 21.00b and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3) Incorporate flashing as illustrated in Sto Detail 21.23 or per other details where flashing is shown.

4) The complete installation of the 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.

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**StoGuard® Waterproof Air Barrier**

**Masonry Construction**

**Rough Opening Protection with StoGuard® RapidSeal™**

**Detail No.: 21.20R**

**Date: April 2012**

**Notes:**

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a, 21.00b and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3) Incorporate flashing as illustrated in Sto Detail 21.23 or per other details where flashing is shown.

4) The complete installation of the 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.

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**IMPORTANT:** The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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StoGuard® Waterproof Air Barrier
Masonry Construction
Window Sill / Jamb

Date: April 2012

Notes:
1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
2) Prepare rough opening in accordance with Sto Detail 21.20G or 21.20R.
3) Refer to Sto Details 21.00a and 21.00b for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.
4) Outer perimeter weather seal not shown for clarity.
5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

IMPORTANT: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

Sill wedge

Sill pan flashing with end dams (provide thermal break where needed to prevent condensation)

Window

StoGuard rough opening protection (Sto Detail 21.20G or 21.20R)

Interior air seal

Wood blocking

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StoGuard® Waterproof Air Barrier
Masonry Construction
Window Head

StoGuard transition membrane (Note 4)
Head Flashing
Wood blocking
Interior air seal
(Outer perimeter weather seal not shown for clarity.)
Window
StoGuard rough opening protection (Sto Detail 21.20G or 21.20R)
StoGuard waterproof air barrier membrane (Note 2)

IMPORTANT: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
2] Prepare rough opening in accordance with Sto Detail 21.20G or 21.20R.
3] Refer to Sto Details 21.00a 21.00b, and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.
4] StoGuard Transition Membrane options:
   A) StoGuard RapidSeal
   B) Sto Gold Fill and 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)
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 Masonry Construction

Balcony Floor to Wall

**Notes:**

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

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

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**StoGuard® Waterproof Air Barrier**

**Masonry Construction**

**Vertical Expansion Joint**

**Masonry substrate**

**Compressible joint material**

**Option 1:**

StoGuard waterproof air barrier membrane returned into joint (Note 2)

**Backer rod and compatible sealant**

**Option 2:**

StoGuard waterproof air barrier membrane (Note 2)

**Backer rod in joint to support transition membrane but not restrict its movement**

**Compatible pre-cured silicone sealant tape or other compatible flexible membrane.**

Consult joint treatment manufacturer to confirm suitability for use at expansion joints.

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**Important:** The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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**StoGuard® Waterproof Air Barrier Masonry Construction**

**Vertical Joint at Column**

**Notes:**

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a, 21.00b, and 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3) StoGuard Transition Membrane options:
   A) StoGuard RapidSeal with StoGuard Mesh
   B) Sto Gold Fill and StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane

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

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**Expansion Joint:**

Use either option shown in Sto Detail 21.51. Option 1 is illustrated.

- Concrete column
- Compressible joint filler
- StoGuard waterproof air barrier membrane returned into joint (Note 2)
- Backer rod and compatible sealant or compatible pre-cured silicone sealant tape (Sto Detail 20.51 Option 2)

**Static Vertical Joint:**

- Concrete column
- StoGuard transition membrane (Note 3)
- StoGuard waterproof air barrier membrane

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StoGuard® Waterproof Air Barrier
Masonry Construction
Inside Corner Dissimilar Materials

**Notes:**

1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2] Refer to Sto Details 21.00a, 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3] StoGuard Transition Membrane options:
A) StoGuard RapidSeal with StoGuard Mesh
B) Sto Gold Fill and StoGuard Meh (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) for horizontal transitions.

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

**IMPORTANT:**

The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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StoGuard® Waterproof Air Barrier
Masonry Construction
Structural Shelf Angle or Lintel

**Notes:**

1) Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2) Refer to Sto Details 21.00a, 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3) StoGuard Transition Membrane options:
   - A) StoGuard RapidSeal
   - B) Sto Gold Fill and StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   - C) StoGuard Tape (with StoGuard Fabric shingle lap)

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

**Important:** The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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StoGuard® Waterproof Air Barrier
Masonry Construction
Horizontal Joint at Floorline

StoGuard transition membrane (Note 3)
StoGuard waterproof air barrier membrane (Note 2)
Backer rod and compatible sealant
StoGuard waterproof air barrier membrane wrapped into joint
Backer rod in joint to support transition membrane but not restrict its movement
Compatible pre-cured silicone sealant tape or other compatible flexible membrane. Consult joint treatment manufacturer to confirm suitability for use at expansion joints.

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Notes:
1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
2] Refer to Sto Details 21.00a, 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.
3] StoGuard Transition Membrane options:
A] StoGuard RapidSeal
B] Sto Gold Fill and StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
C] StoGuard Tape (with StoGuard Fabric shingle lap)
4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

IMPORTANT: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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### StoGuard® Waterproof Air Barrier
Masonry Construction

**Roof Termination with Gravel Stop**

<table>
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<tr>
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<th>Rigid insulation</th>
<th>Roof slab</th>
<th>StoGuard transition membrane (Note 3)</th>
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<td>Compatible flexible flashing membrane</td>
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<td>lapped over StoGuard waterproof air</td>
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<td>barrier membrane.</td>
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<td>StoGuard waterproof air barrier membrane (Note 4)</td>
<td>Gravel roof ballast</td>
<td>Gravel stop</td>
<td>Cladding omitted for illustration purposes.</td>
<td>Install gravel stop in accordance with applicable design documents</td>
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</tbody>
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**Notes:**

1. Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2. Refer to Sto Details 21.00a, 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3. StoGuard Transition Membrane options:
   A) StoGuard RapidSeal
   B) Sto Gold Fill and 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)

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

5. Verify continuity of air barrier assembly when integrating StoGuard system with roofing system.

**Attentive Notes:***

For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.
StoGuard® Waterproof Air Barrier
Masonry Construction
Parapet Cap

**Notes:**

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3. StoGuard Transition Membrane options:
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   B) Sto Gold Fill and StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
   C) StoGuard Fabric with StoGuard waterproof air barrier membrane
   D) StoGuard Tape
4. Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.
5. Verify continuity of air barrier assembly when integrating StoGuard system with roofing system.

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StoGuard® Waterproof Air Barrier
Masonry Construction
Roof / Sidewall Step Flashing

Important: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces, a skim coat is typically required. Use a site mock-up and site tests as the basis for the work.

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Notes:
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2] Refer to Sto Details 21.00a, 21.00b or 21.00c for StoGuard waterproof air barrier membrane options. All applications must be applied such that a void and pinhole free surface is achieved.
3] StoGuard Transition Membrane options:
   A) StoGuard RapidSeal
   B) Sto Gold Fill and 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 lap)
4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.
5] Verify continuity of air barrier assembly when integrating StoGuard system with roofing system.

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StoGuard® Waterproof Air Barrier
Masonry Construction

Saddle Wall Intersection

CMU wall construction

StoGuard transition membrane (Note 3)

StoGuard waterproof air barrier membrane (Note 2)

Adjoining wall

Notes:
1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.

2] Refer to Sto Details 21.00a, 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3] StoGuard Transition Membrane options: A) StoGuard RapidSeal B) Sto Gold Fill and 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)

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**  
**Masonry Construction**  
**Pipe Penetration**

**Notes:**
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2) Refer to Sto Details 21.00a, 21.00b or 21.00c for StoGuard waterproof air barrier membrane product options. All applications must be applied such that a void and pinhole free surface is achieved.

3) StoGuard Transition Membrane options:  
A) StoGuard RapidSeal 
B) Sto Gold Fill and 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)

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

**Pipe Penetration**

**CMU wall construction**

**Pipe or utility penetration**

**Low expanding spray foam or mortar infill. Consult spray foam manufacturer for maximum gap which can be filled with foam product to be used.**

**Trim cured spray foam or tool mortar flush with wall surface**

**StoGuard transition membrane (Note 3)**

**StoGuard waterproof air barrier membrane (Note 2). Lap StoGuard system onto pipe nominal 1 inch (25 mm)**

**Important:** The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or parging material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.

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StoGuard® Waterproof Air Barrier
Masonry Construction

Roof Scupper

**Notes:**

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3. StoGuard Transition Membrane options:
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   B) Sto Gold Fill and 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)

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

5. Verify continuity of air barrier assembly when integrating StoGuard system with roofing system.

**Attention**

Sto products are intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. They should be installed in accordance with those specifications and Sto’s instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building. For the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto’s control. Improper use of Sto products or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to Sto products, and to the structure of the building or its components. STO CORP DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO’S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME. For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.

**Important:** The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or “rough” CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling or paring material to fill and level the surface prior to applying the waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests as the basis for the work.