

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

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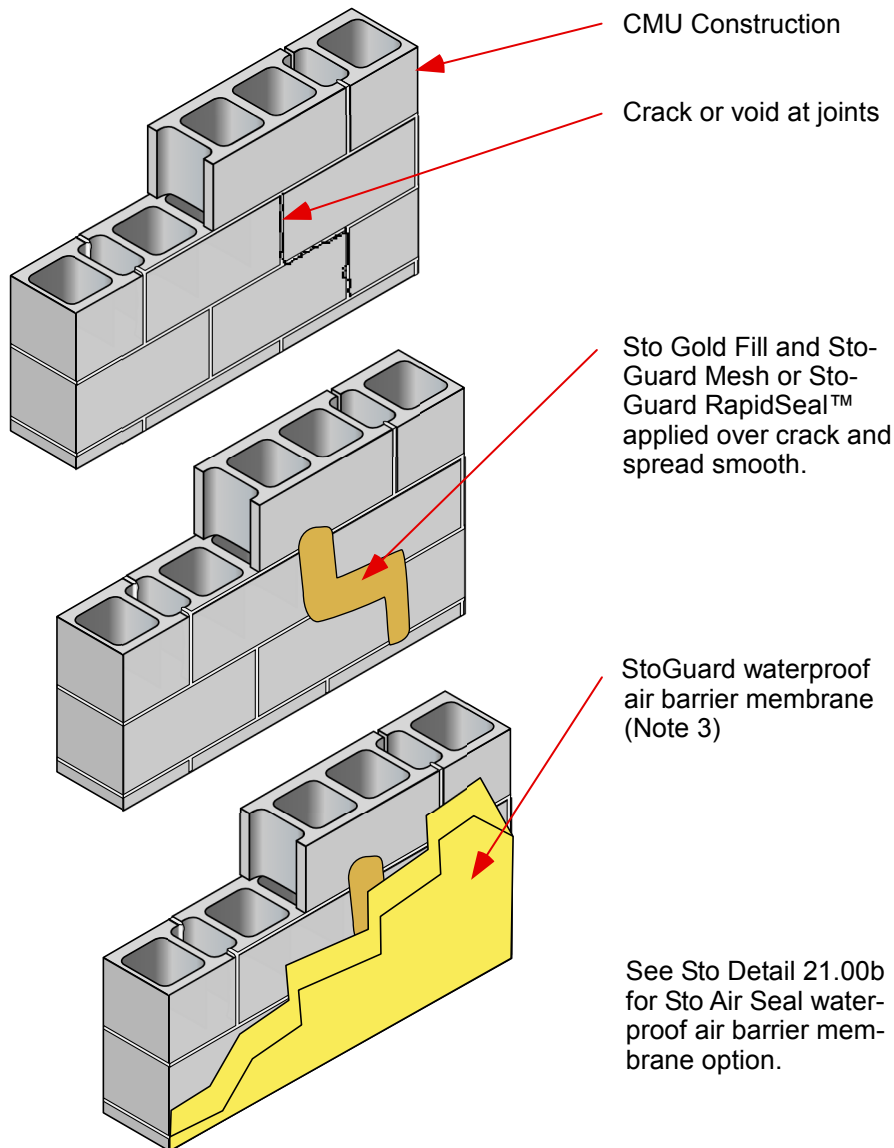
StoGuard[®] Waterproof Air Barrier Masonry Construction

Components and Surface Preparation: Option 1

Detail No.: 21.00a

Date: April 2012

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



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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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 minimum 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.

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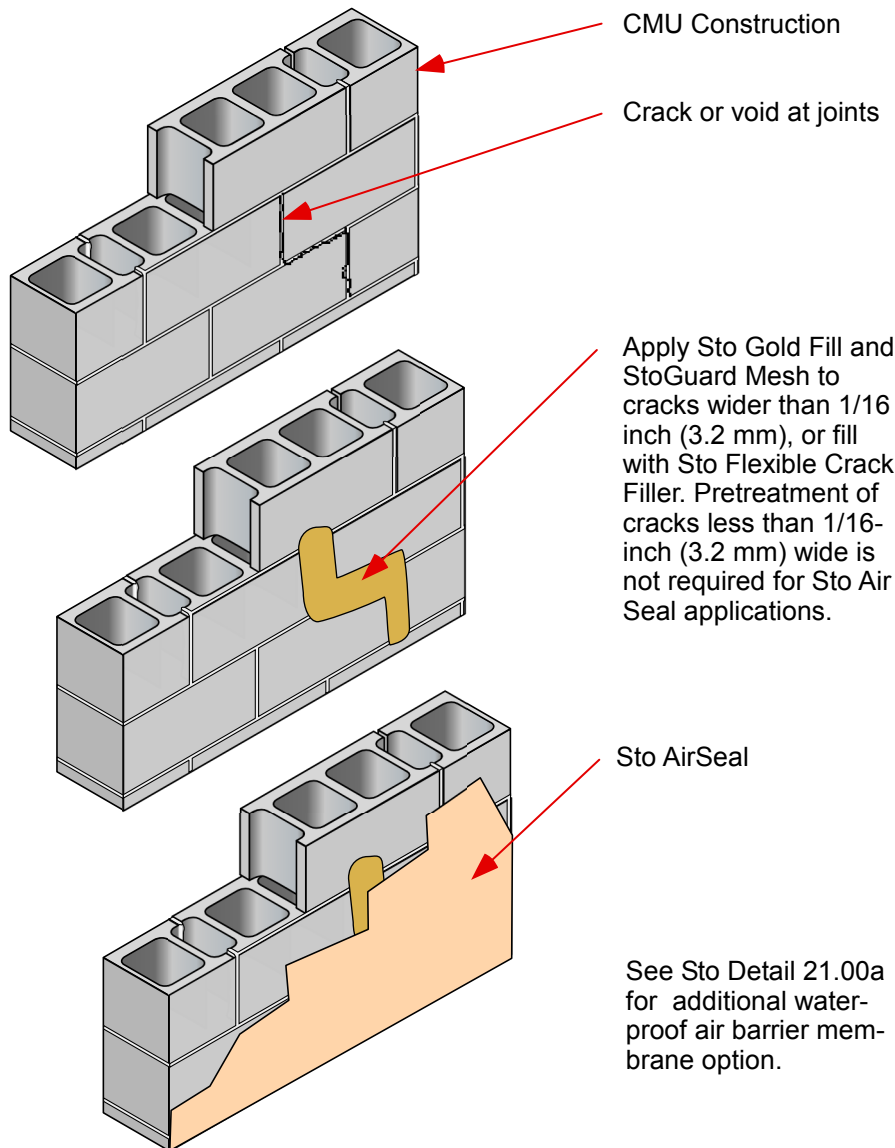
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StoGuard[®] Waterproof Air Barrier Masonry Construction

Components and Surface Preparation: Option 2

Date: April 2012

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.

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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.

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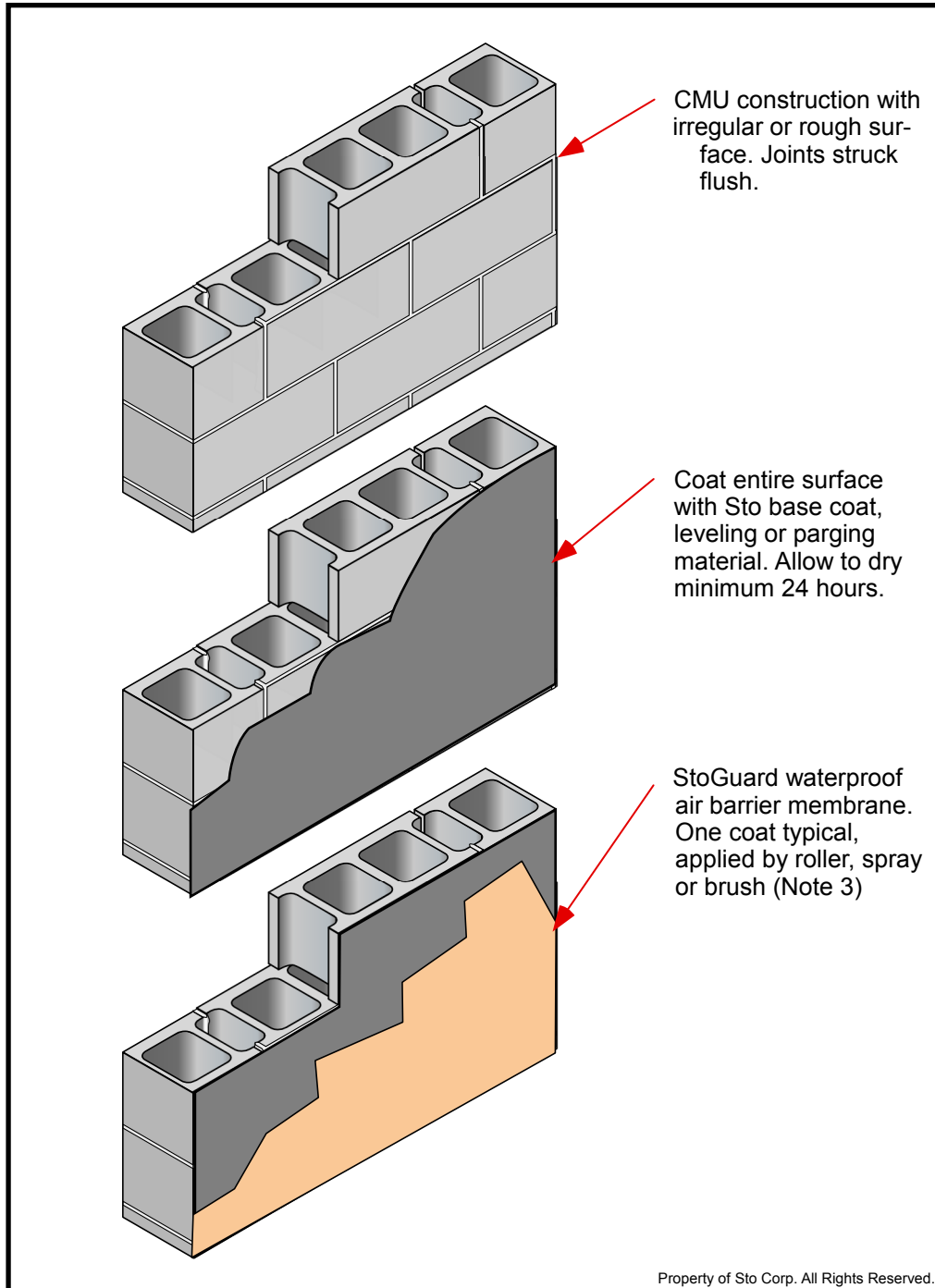
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StoGuard® Waterproof Air Barrier Masonry Construction

Surface Preparation over Irregular CMU

Date: April 2012

**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.

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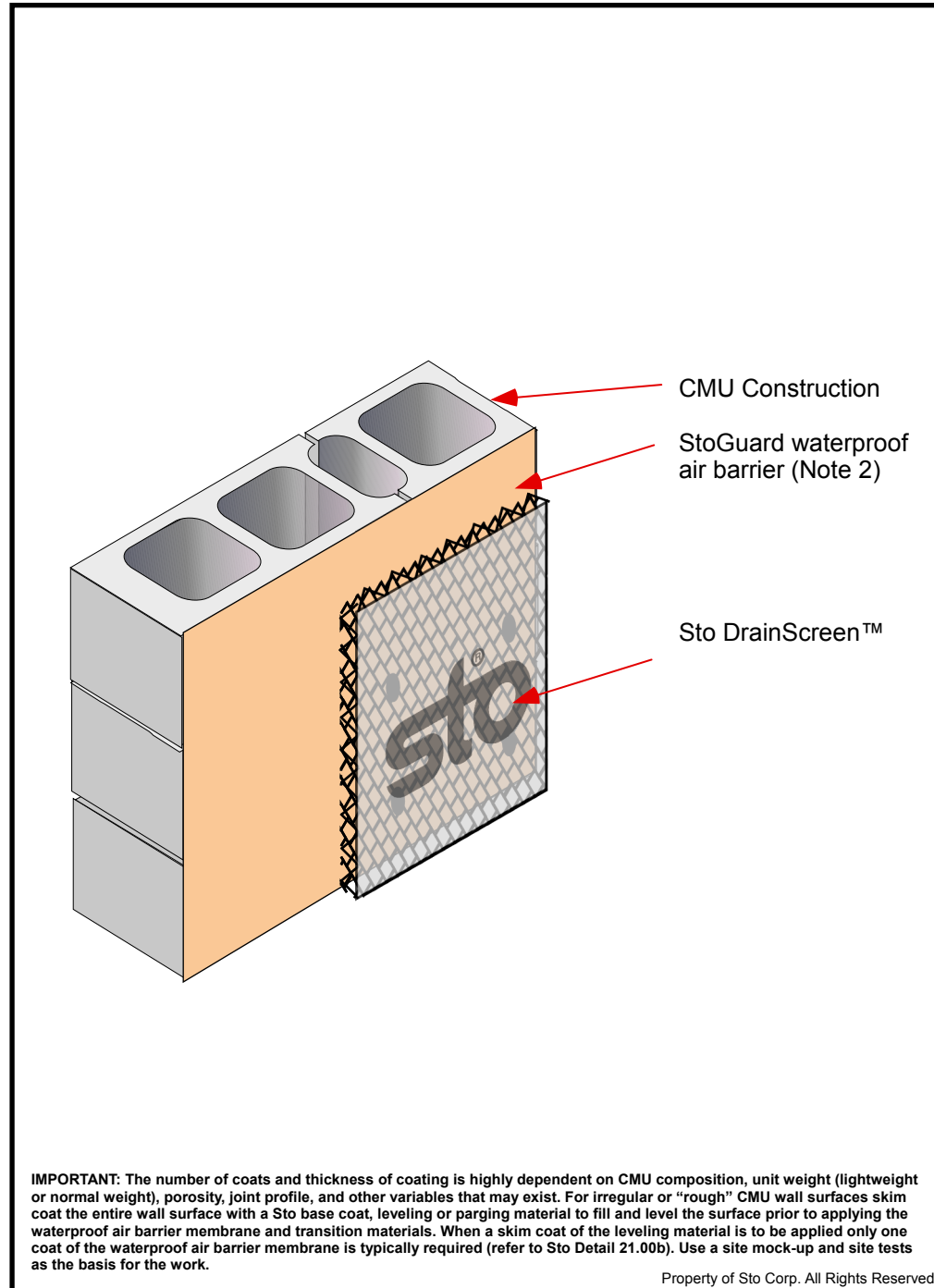


StoGuard® Waterproof Air Barrier Masonry Construction

Sto DrainScreen™

Detail No.: 21.00d

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 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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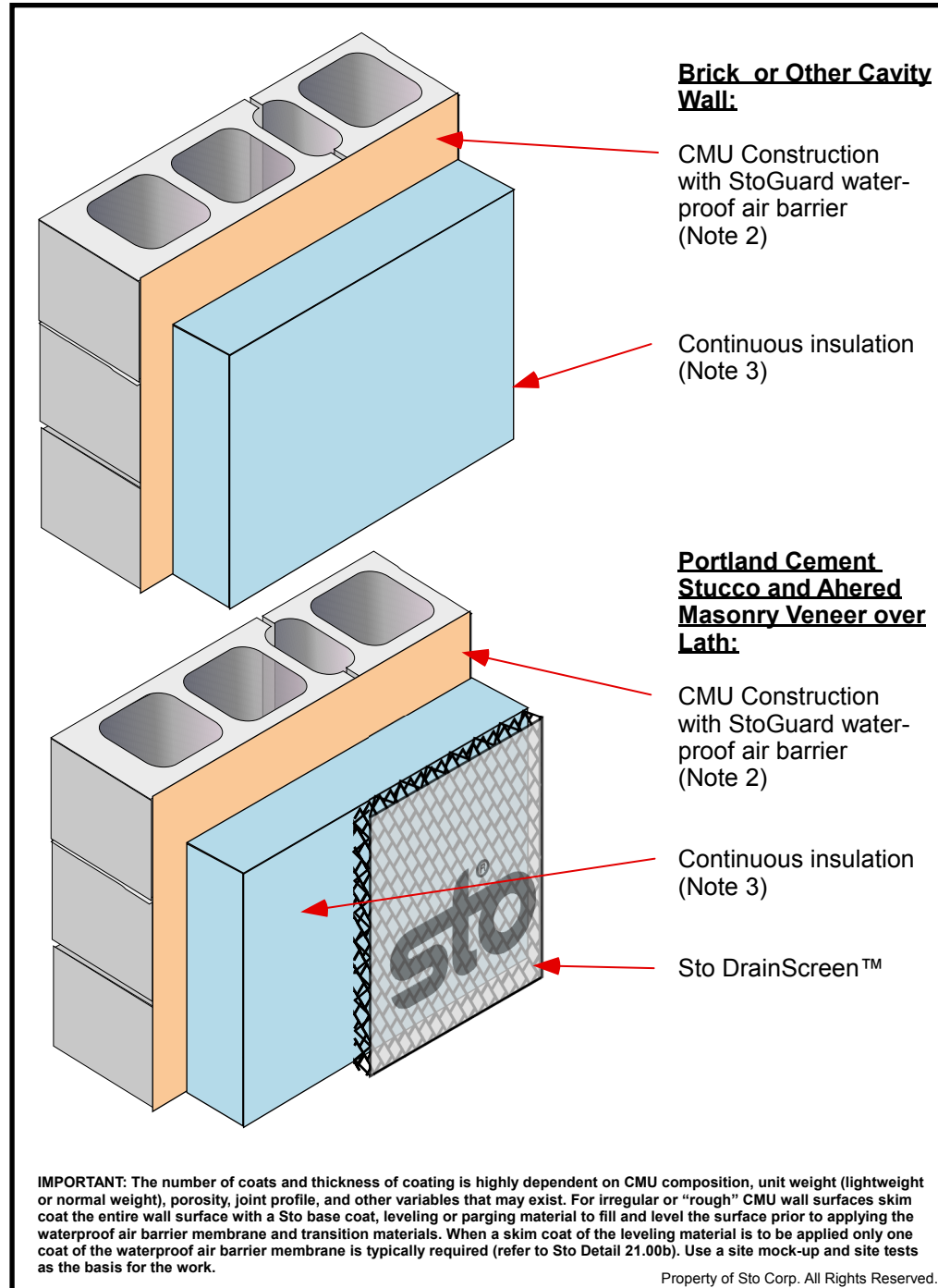


StoGuard® Waterproof Air Barrier Masonry Construction

Continuous Insulation

Detail No.: 21.00e

Date: April 2012



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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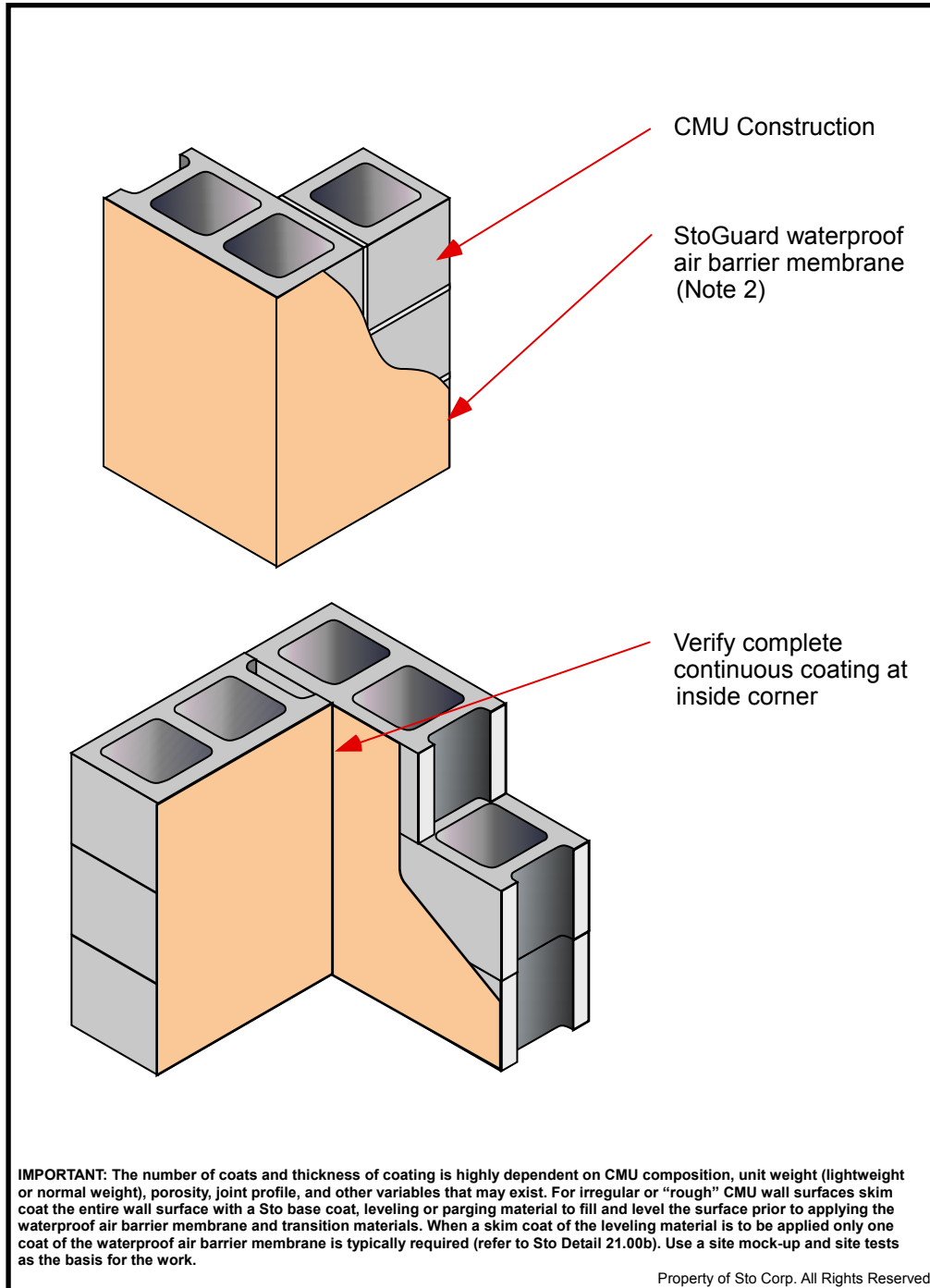
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StoGuard® Waterproof Air Barrier Masonry Construction Corner Application

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.

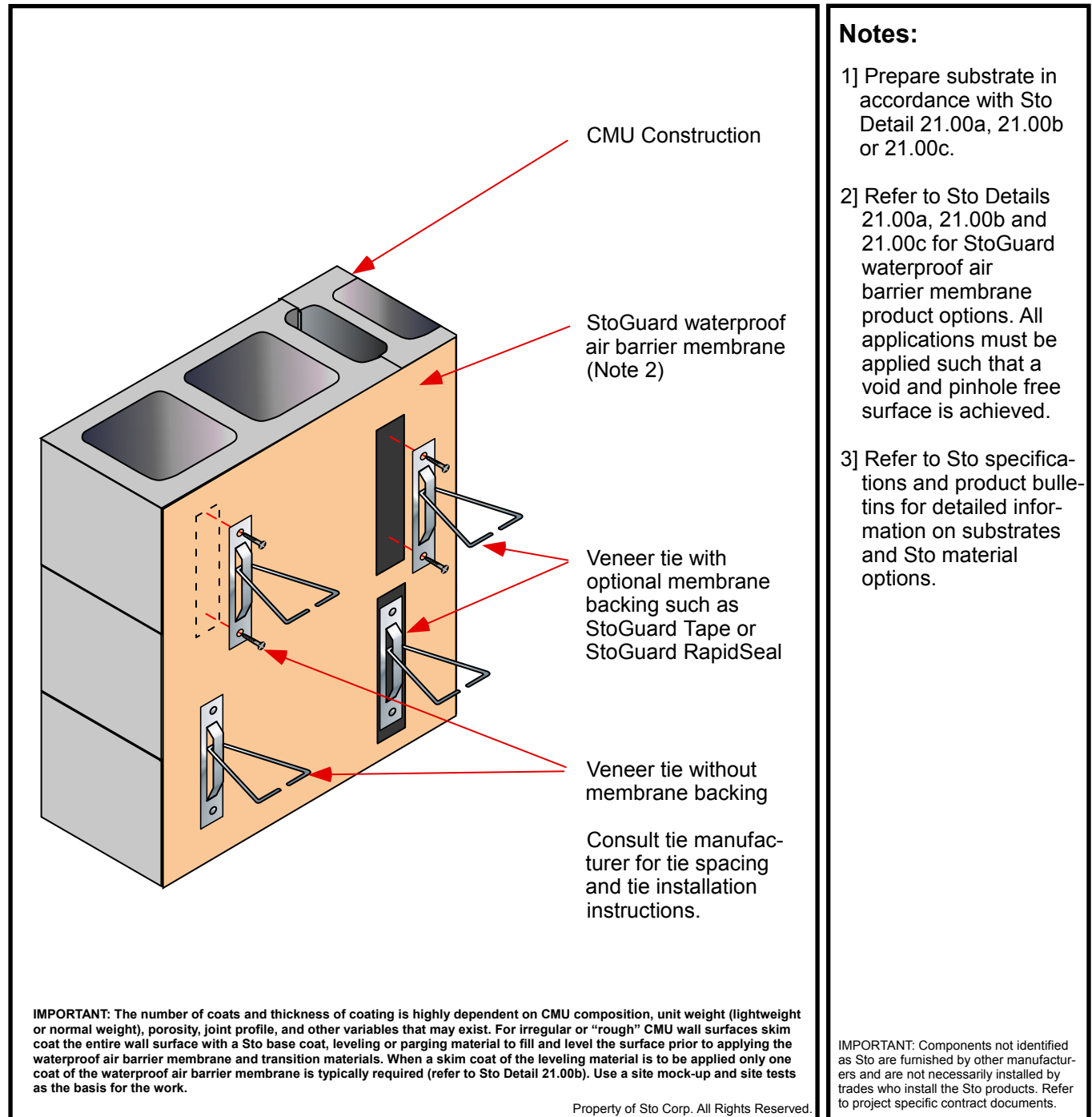
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StoGuard[®] Waterproof Air Barrier Masonry Construction Brick Veneer Tie Attachment

Date: April 2012



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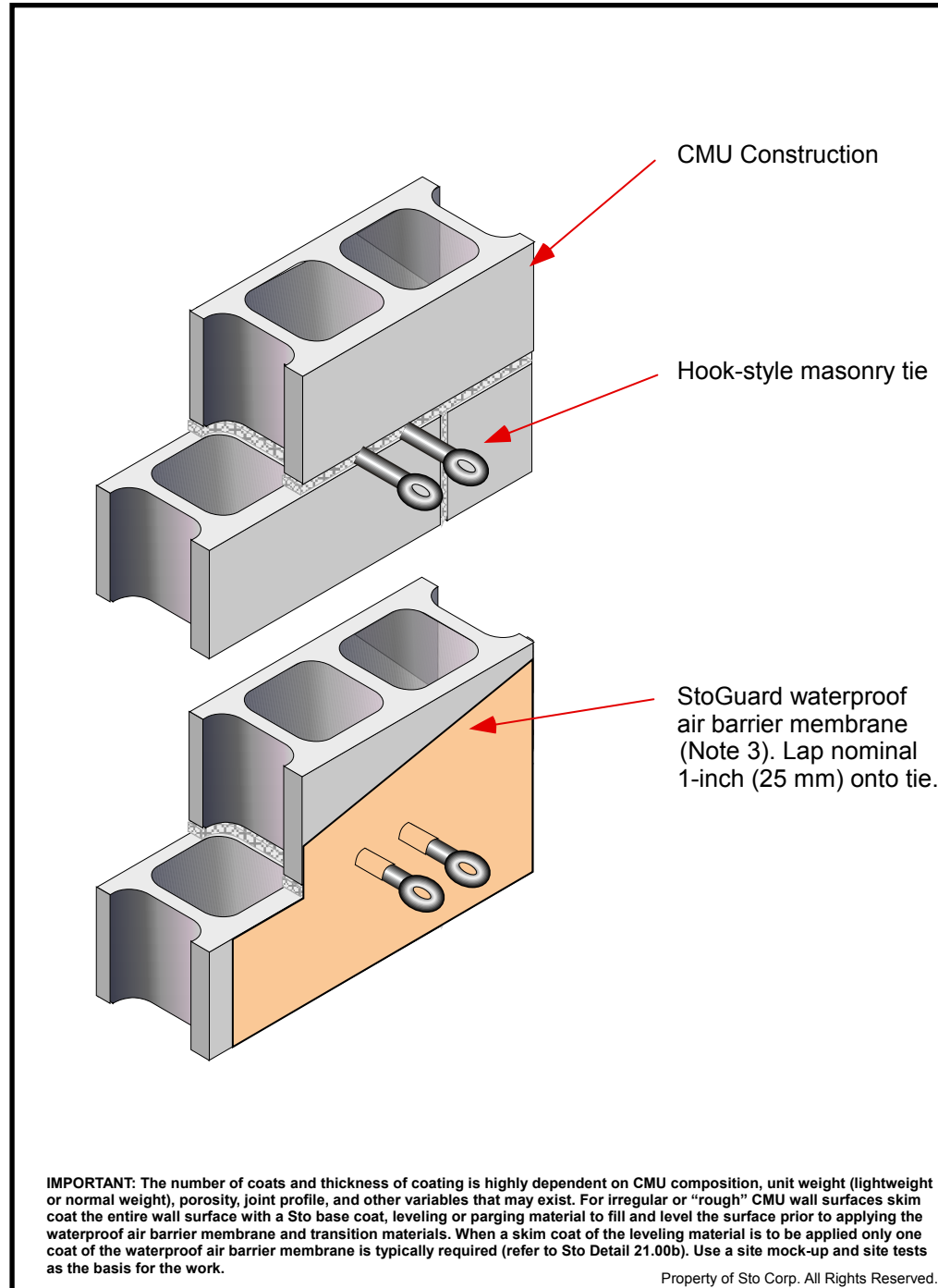
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StoGuard[®] Waterproof Air Barrier Masonry Construction Hook-style Masonry Tie

Detail No.: 21.03b

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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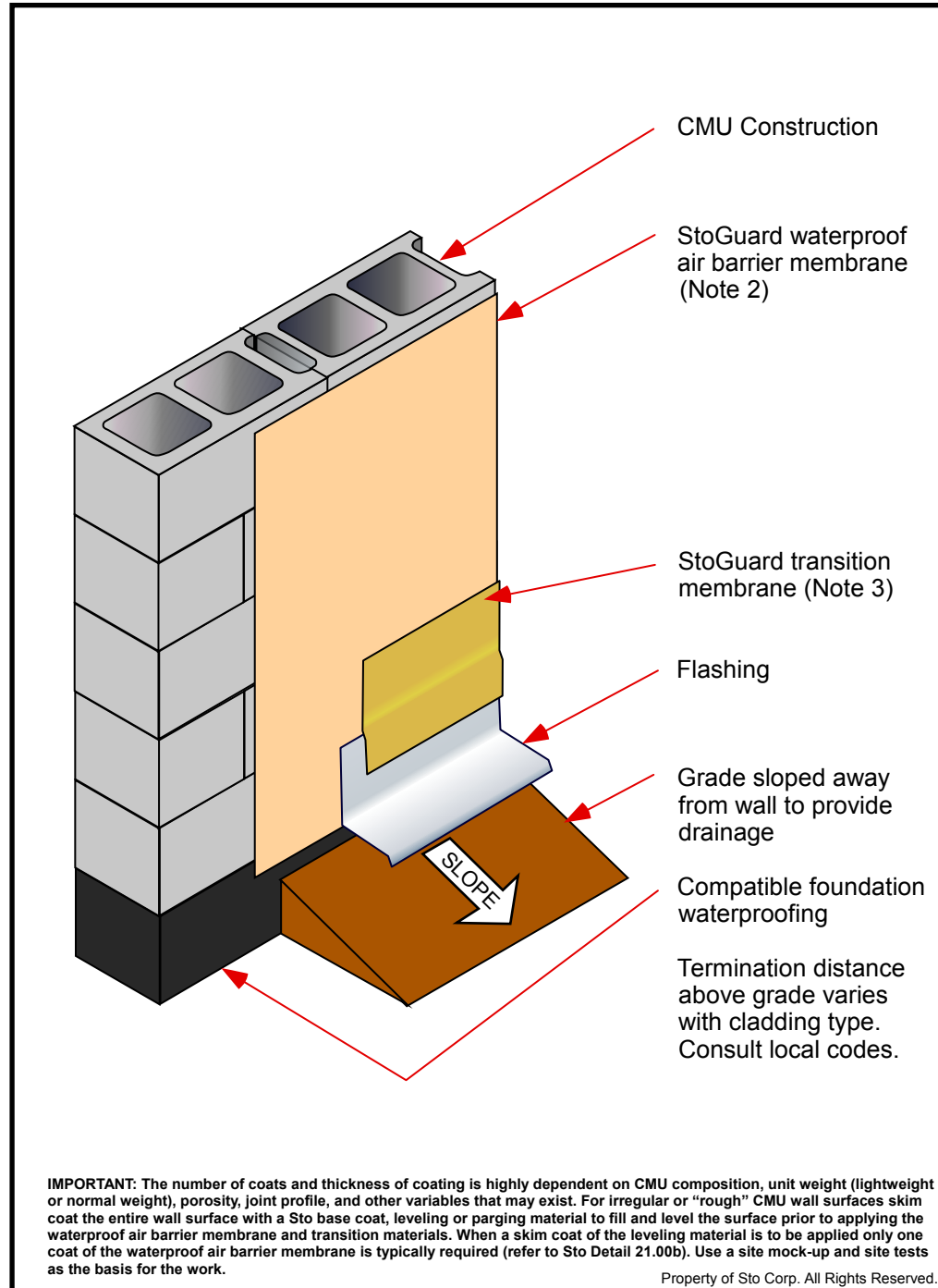
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StoGuard® Waterproof Air Barrier Masonry Construction Termination at Grade

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.

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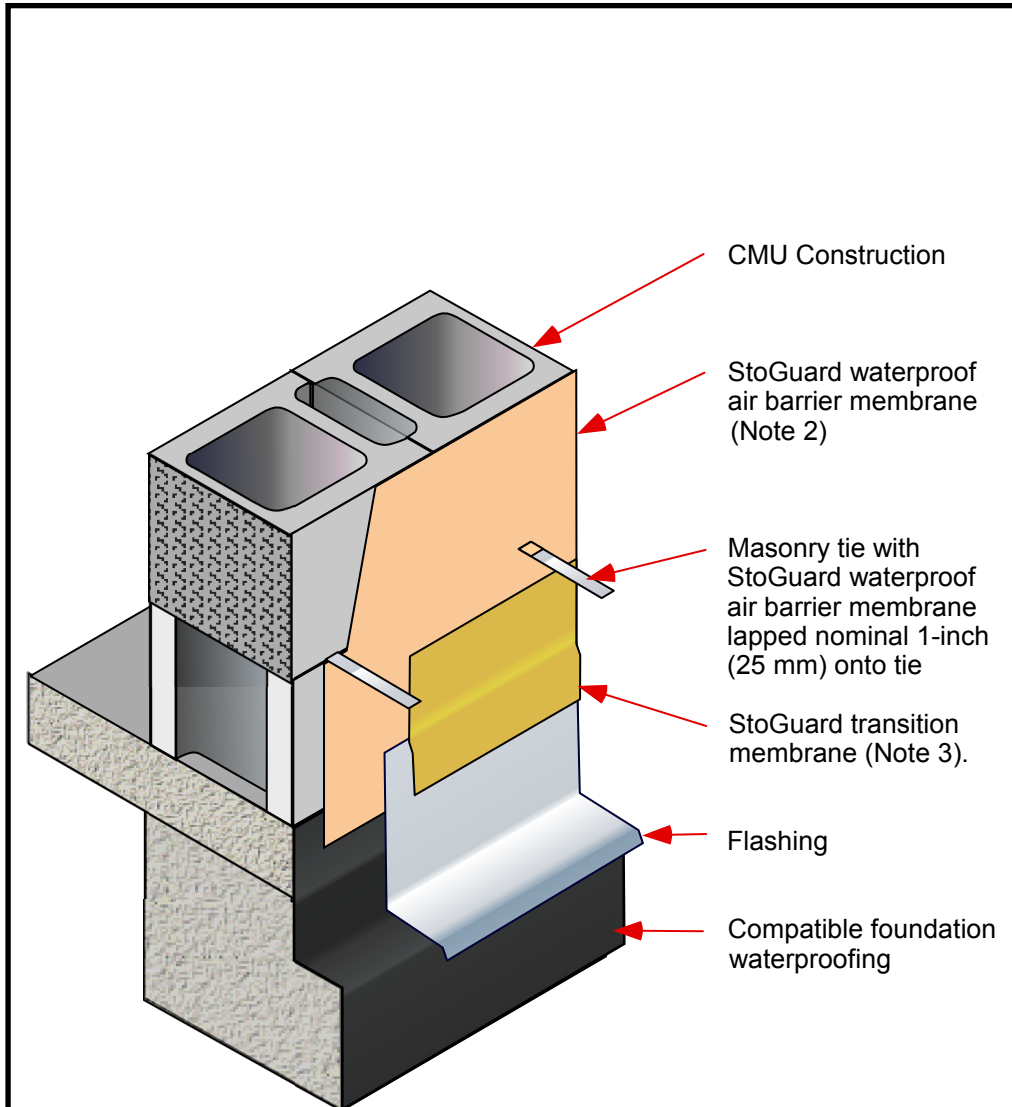
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StoGuard® Waterproof Air Barrier Masonry Construction Termination at Grade with Ledge

Detail No.: 21.10b

Date: April 2012



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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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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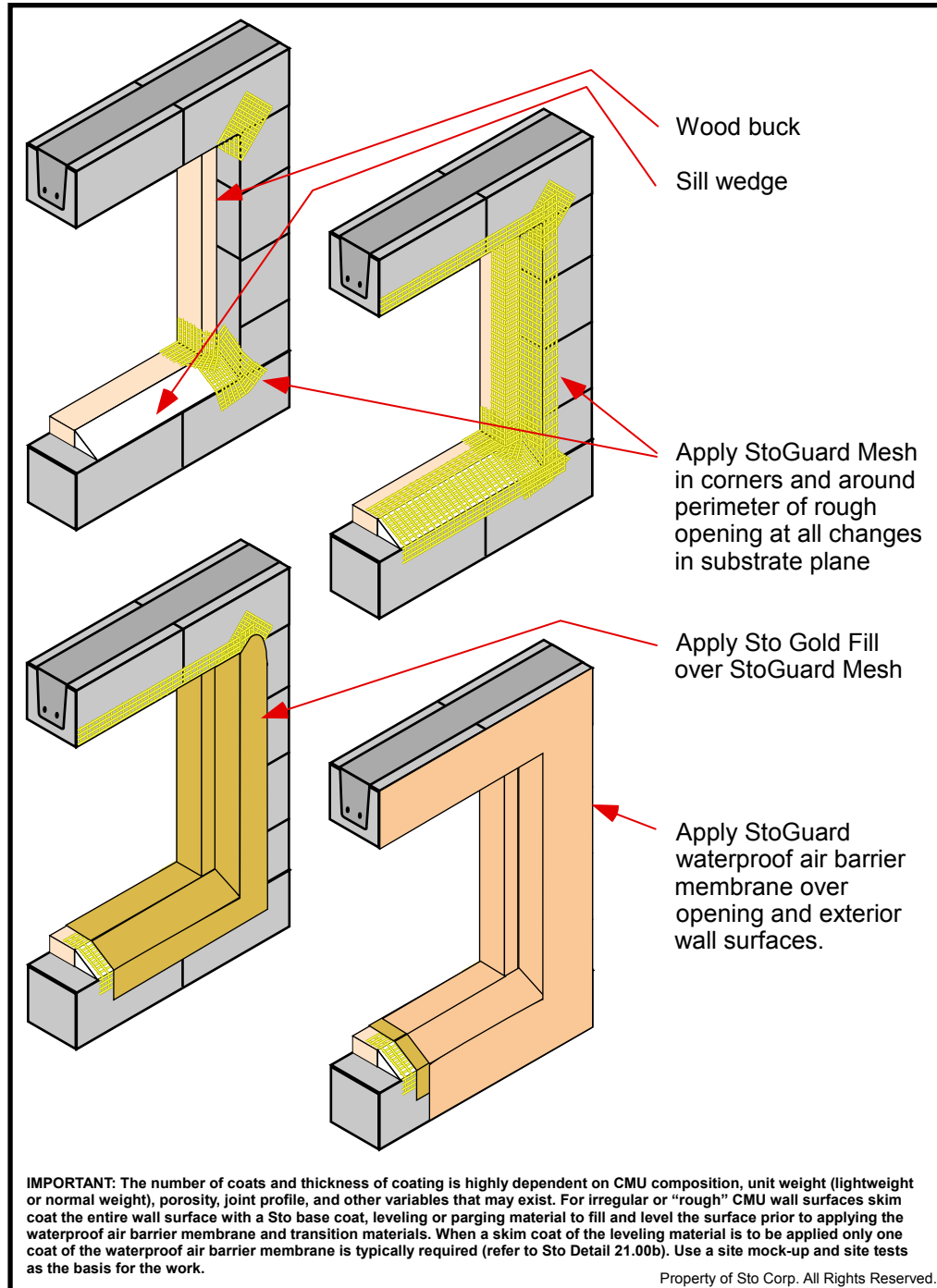
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StoGuard® Waterproof Air Barrier Masonry Construction

Rough Opening Protection with Sto Gold Fill and StoGuard Mesh

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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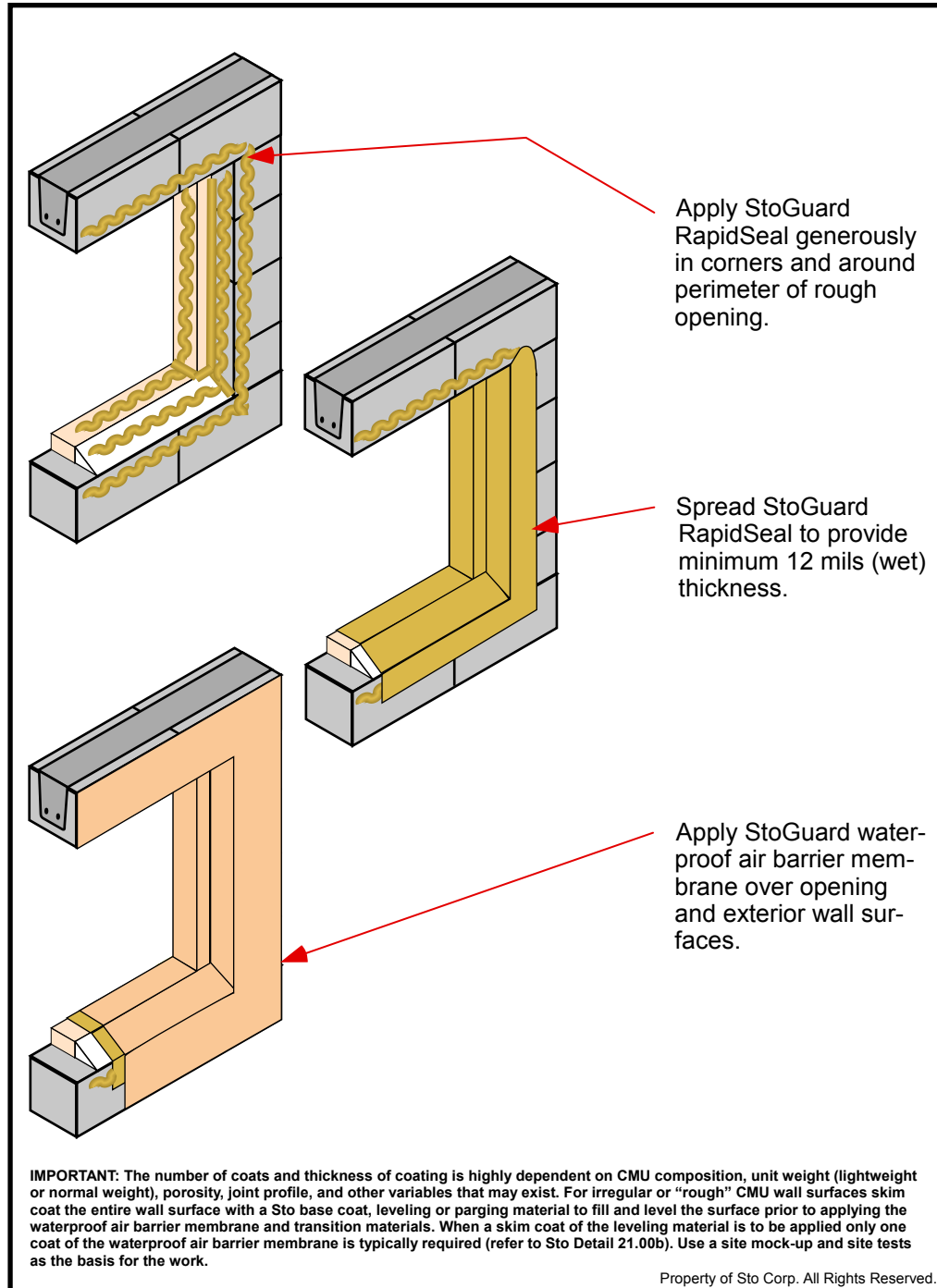
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StoGuard® Waterproof Air Barrier Masonry Construction

Rough Opening Protection with StoGuard® RapidSeal™

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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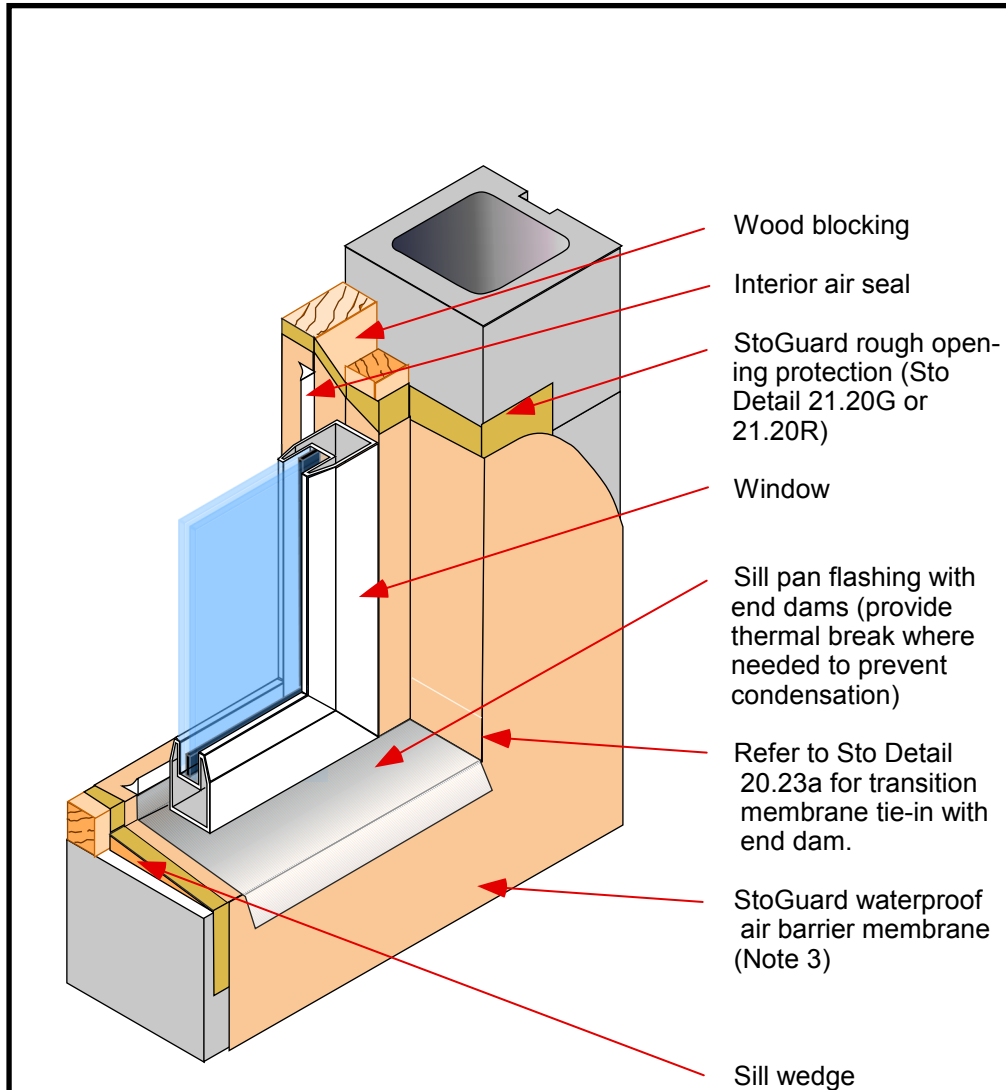
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StoGuard® Waterproof Air Barrier Masonry Construction Window Sill / Jamb

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.

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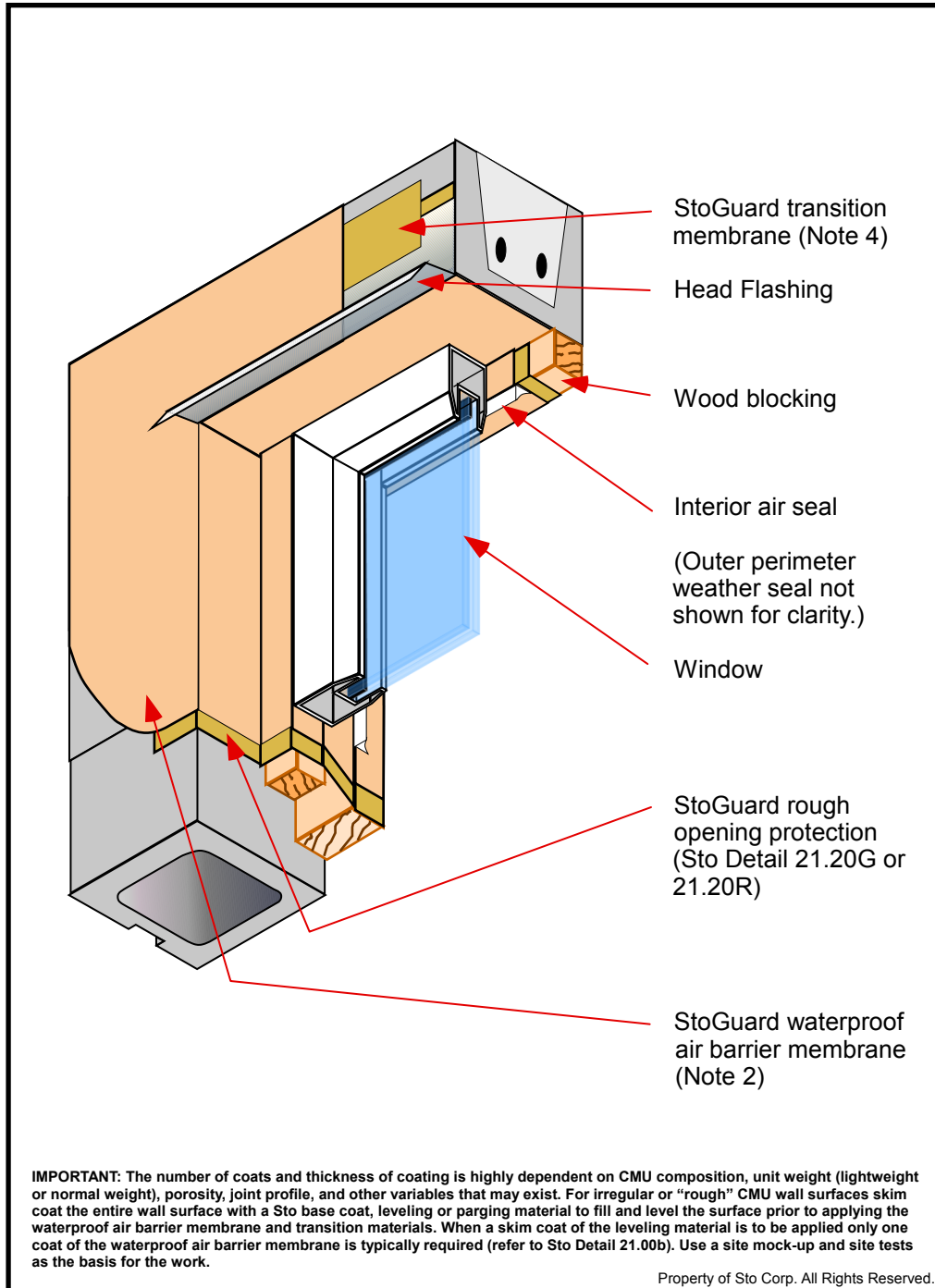
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StoGuard® Waterproof Air Barrier Masonry Construction Window Head

Date: April 2012

**Notes:**

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- 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.
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 - 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
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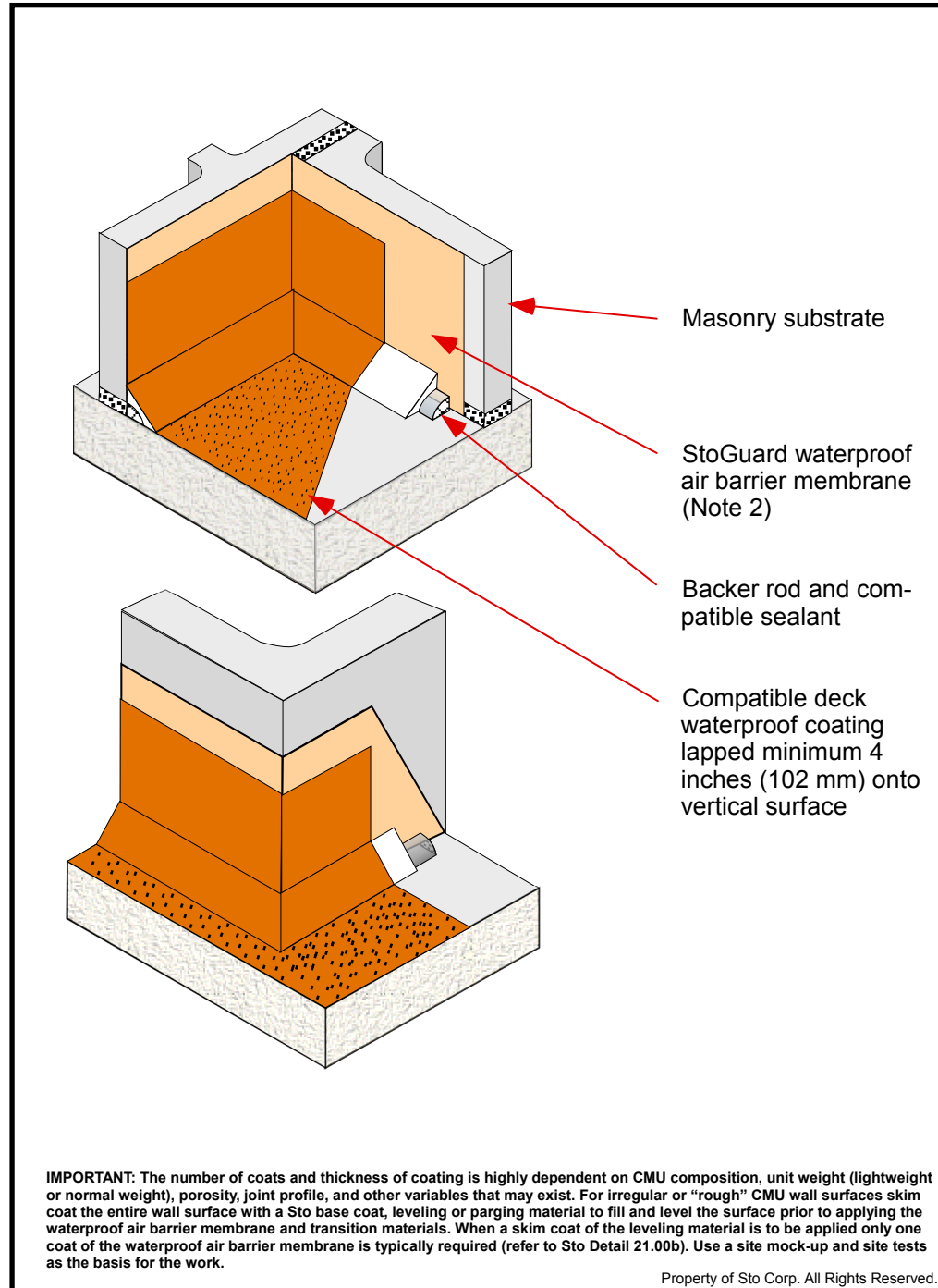
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StoGuard® Waterproof Air Barrier Masonry Construction Balcony Floor to Wall

Date: April 2012



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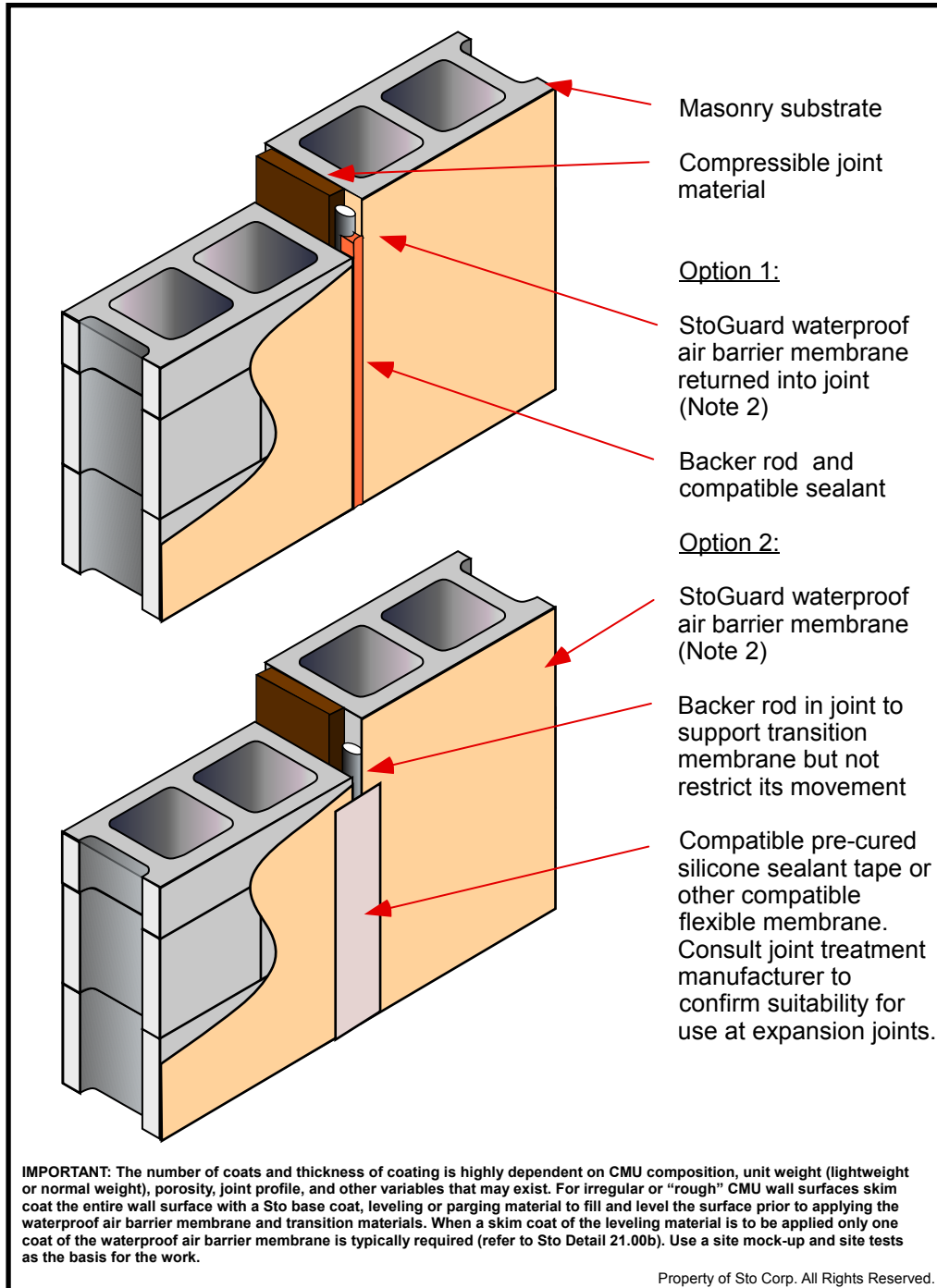
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StoGuard® Waterproof Air Barrier Masonry Construction Vertical Expansion Joint

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 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 substrates and Sto material options.

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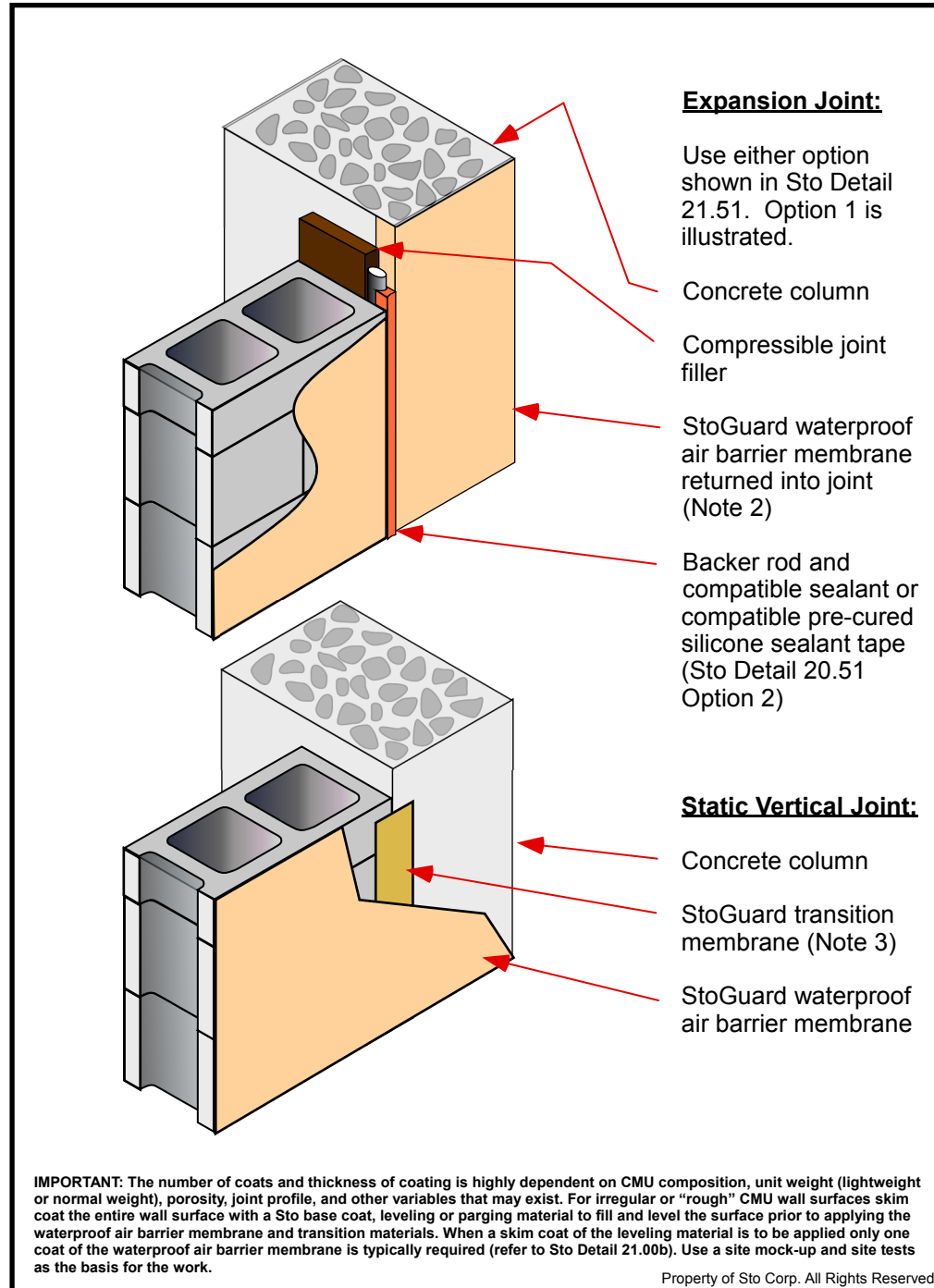
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StoGuard[®] Waterproof Air Barrier Masonry Construction Vertical Joint at Column

Detail No.: 21.52

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 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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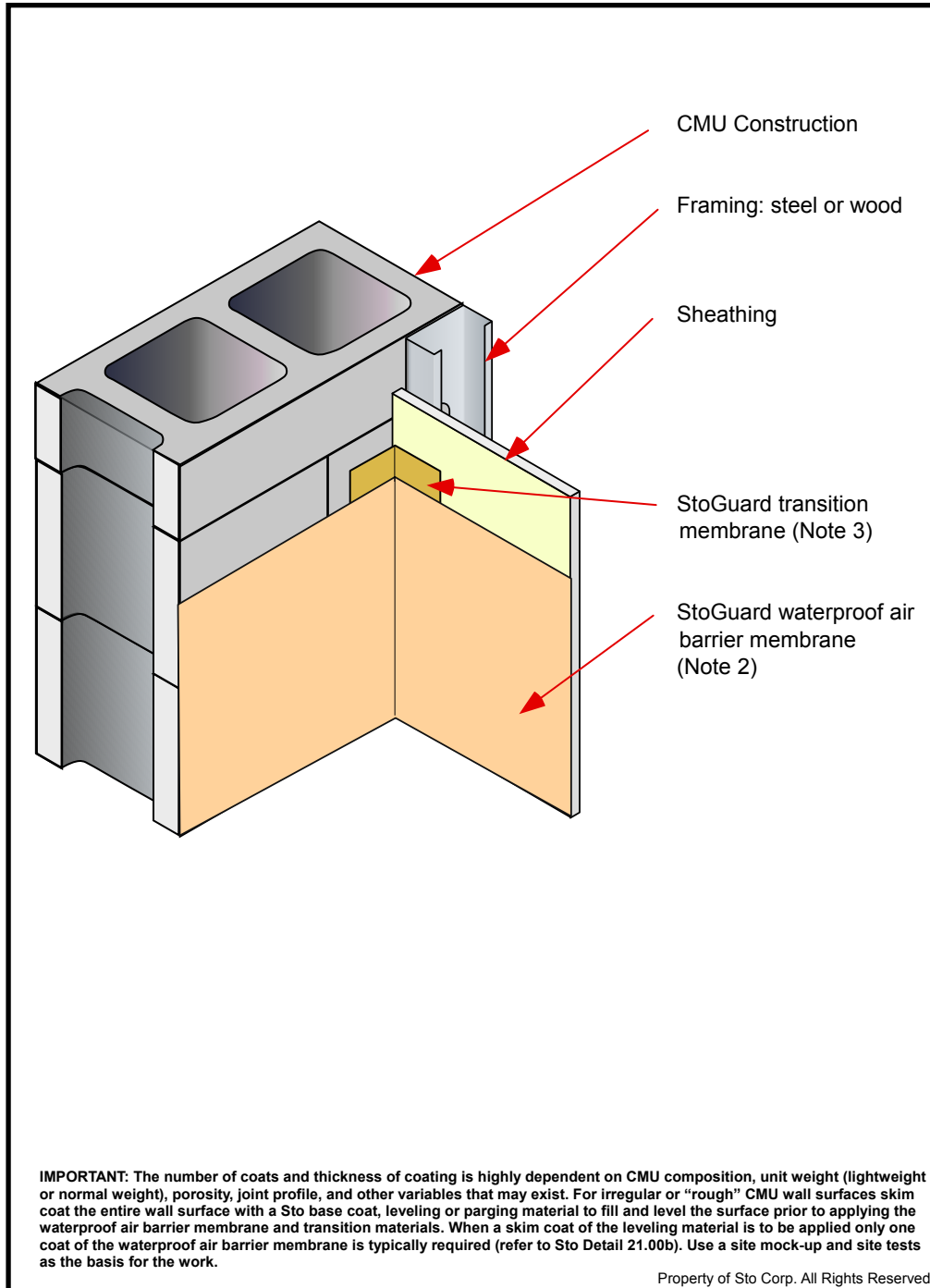
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StoGuard[®] Waterproof Air Barrier Masonry Construction Inside Corner Dissimilar Materials

Detail No.: 21.53

Date: April 2012



Notes:

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

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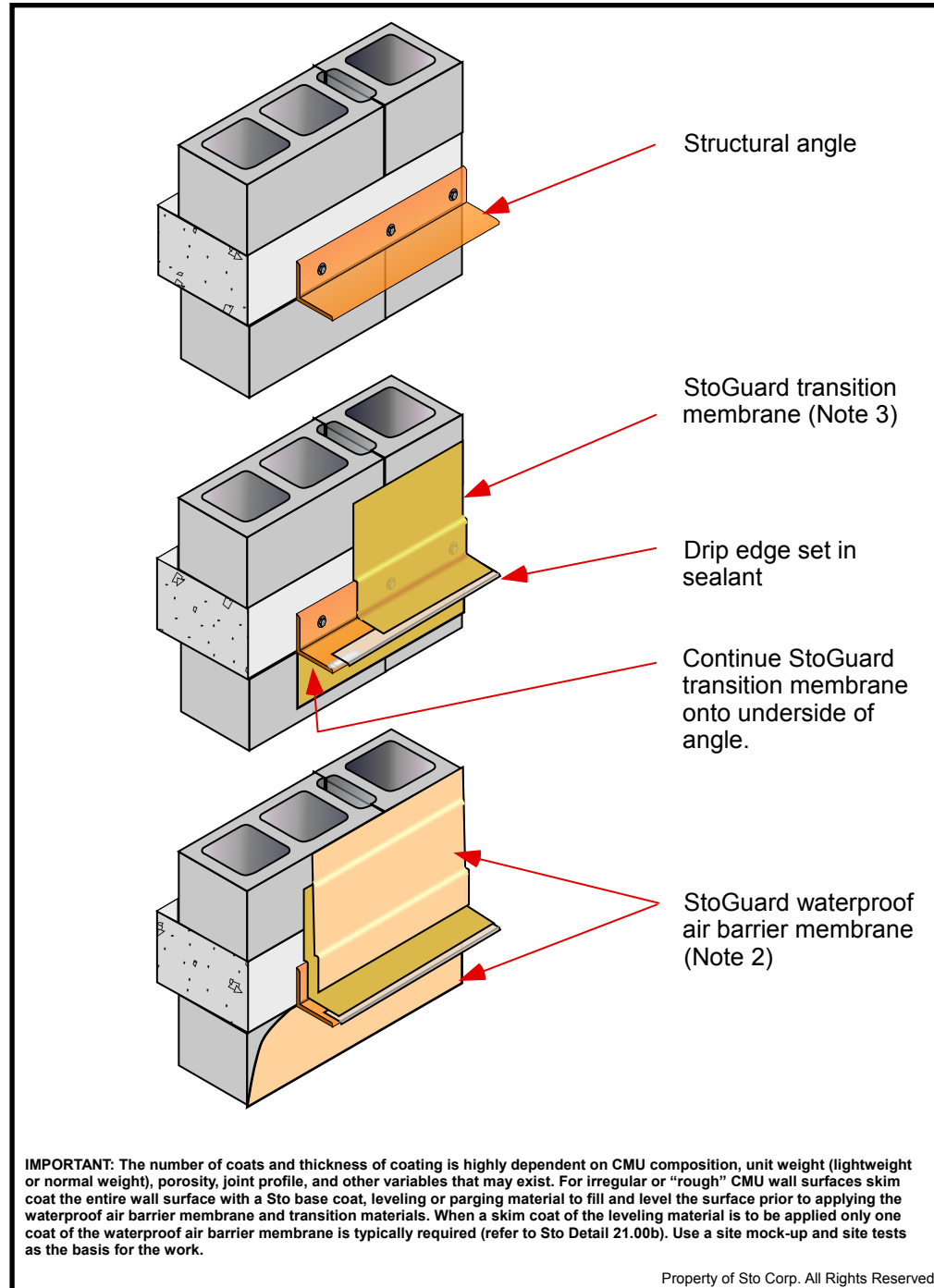
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StoGuard[®] Waterproof Air Barrier Masonry Construction Structural Shelf Angle or Lintel

Detail No.: 21.54

Date: April 2012



Notes:

- 1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
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StoGuard® Waterproof Air Barrier Masonry Construction Horizontal Joint at Floorline

Detail No.: 21.55

Date: April 2012

Static Joint

StoGuard transition membrane (Note 3)

StoGuard waterproof air barrier membrane (Note 2)

Movement Joint Option 1

StoGuard waterproof air barrier membrane wrapped into joint

Backer rod and compatible sealant

Movement Joint Option 2

StoGuard waterproof air barrier membrane

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.

Notes:

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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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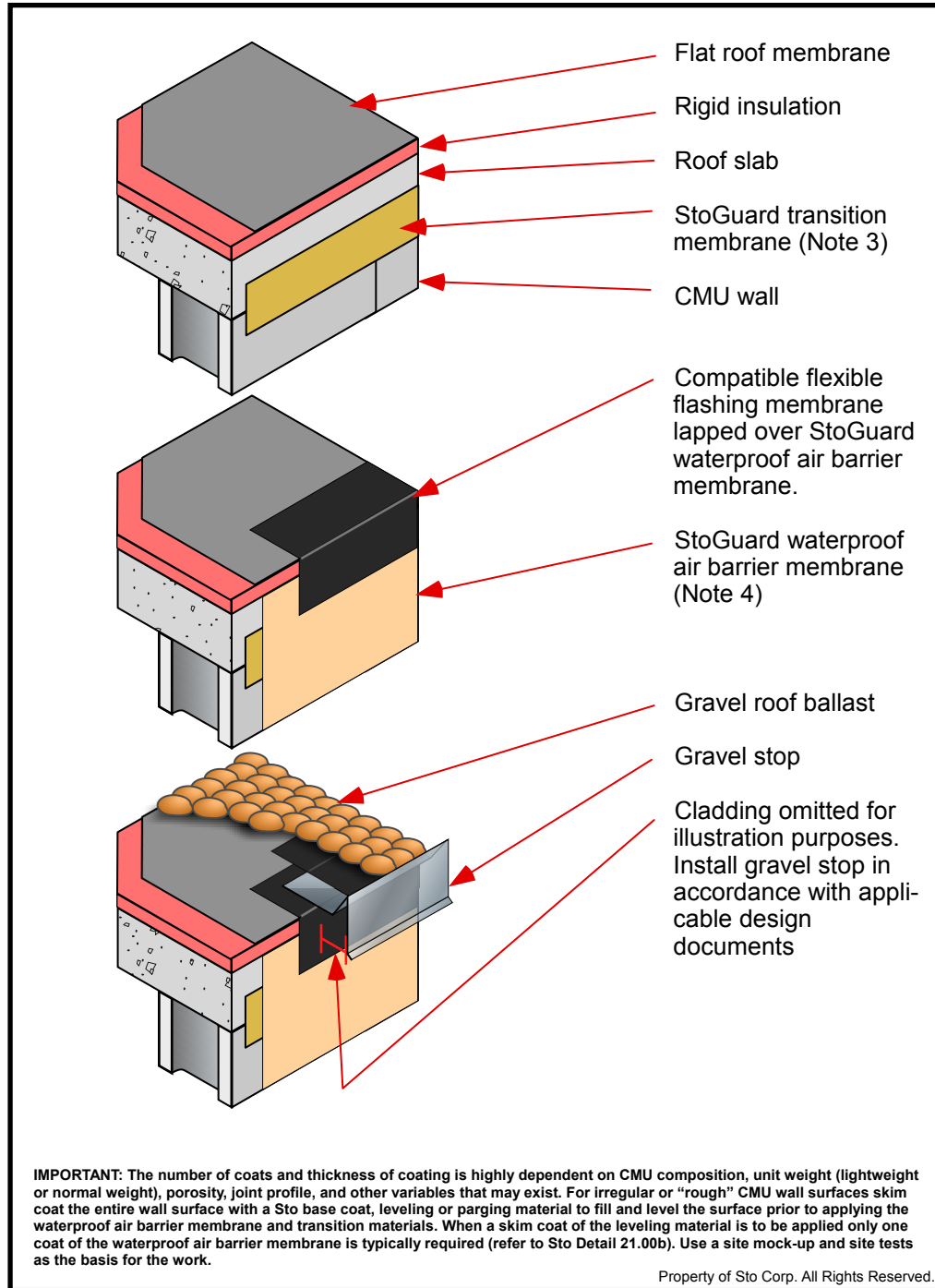
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StoGuard[®] Waterproof Air Barrier Masonry Construction Roof Termination with Gravel Stop

Date: April 2012



Notes:

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 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.

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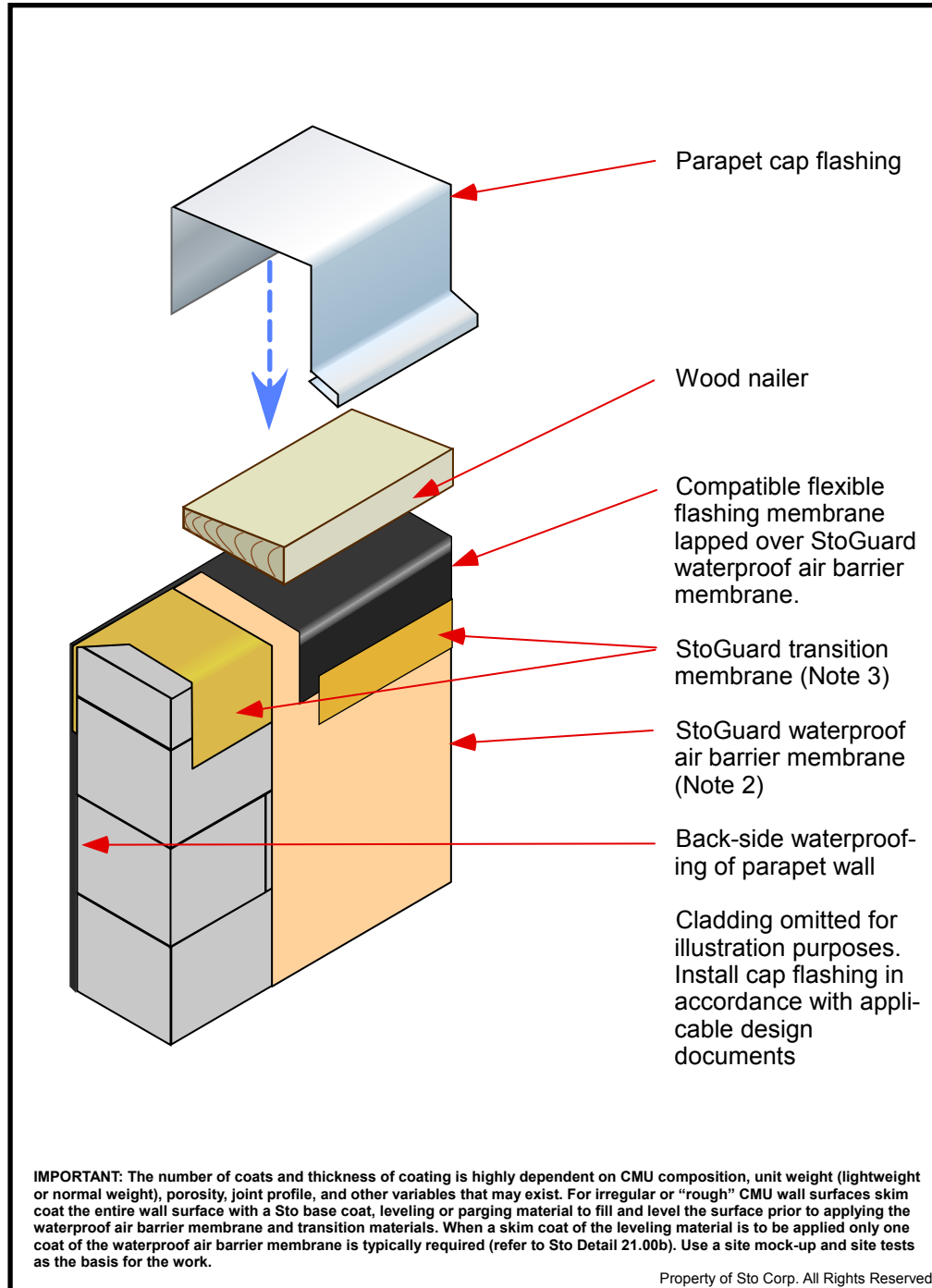
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StoGuard[®] Waterproof Air Barrier Masonry Construction Parapet Cap

Detail No.: 21.60b

Date: April 2012

**Notes:**

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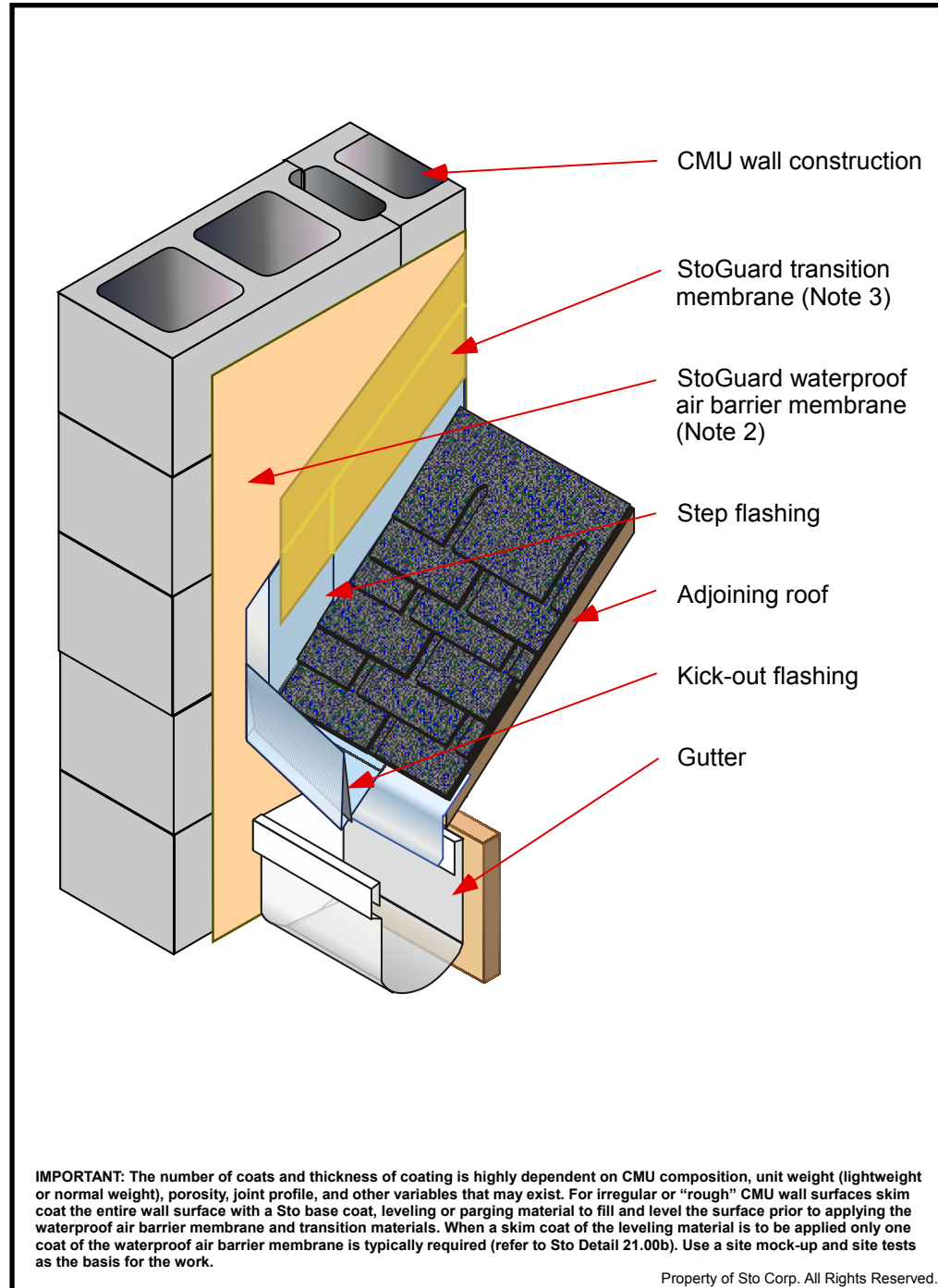
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StoGuard[®] Waterproof Air Barrier Masonry Construction Roof / Sidewall Step Flashing

Detail No.: 21.62

Date: April 2012



Notes:

- 1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
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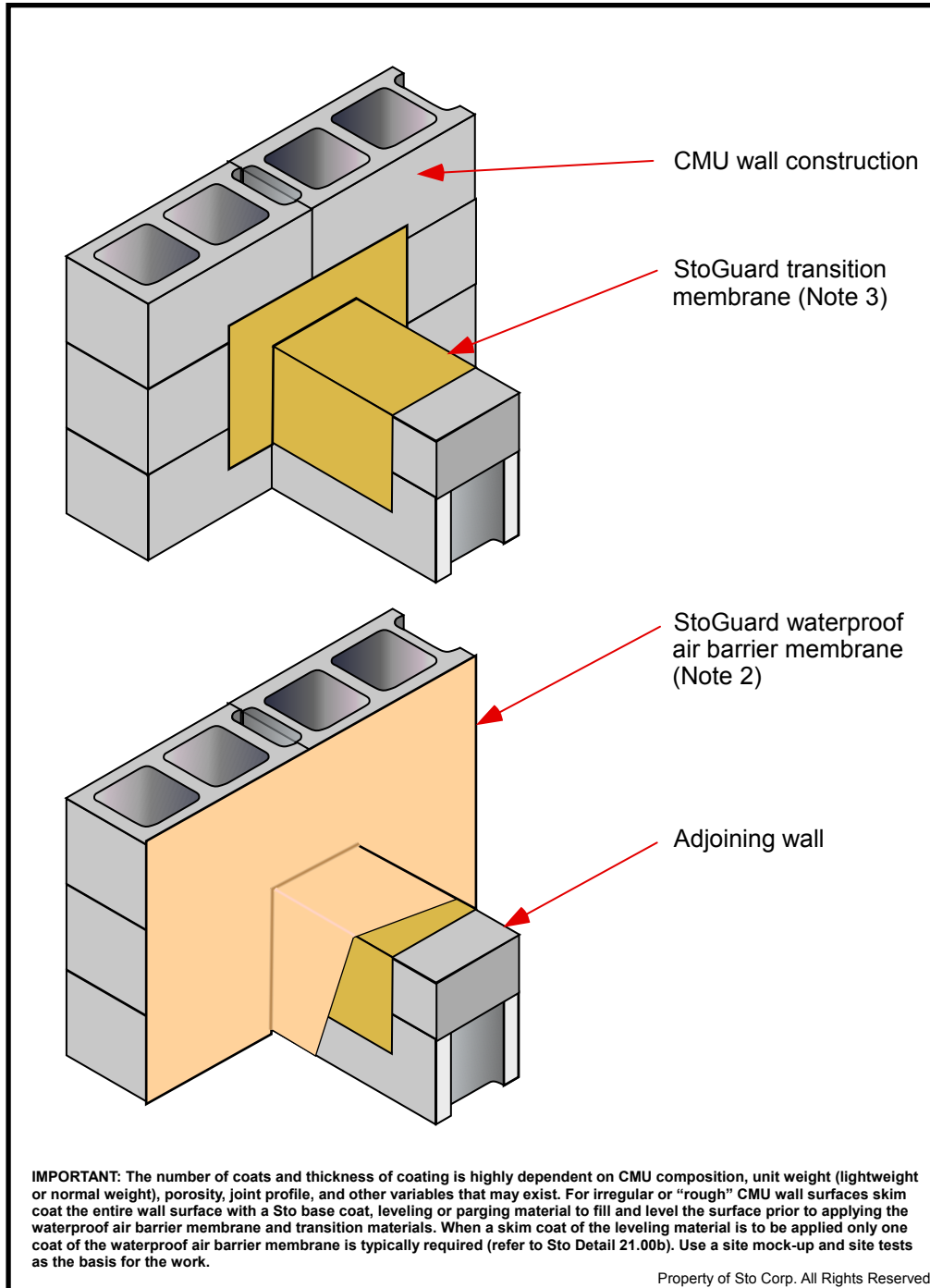
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StoGuard[®] Waterproof Air Barrier Masonry Construction Saddle Wall Intersection

Detail No.: 21.64

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 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.
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StoGuard® Waterproof Air Barrier Masonry Construction Pipe Penetration

Detail No.: 21.70

Date: April 2012

Notes:

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Attention

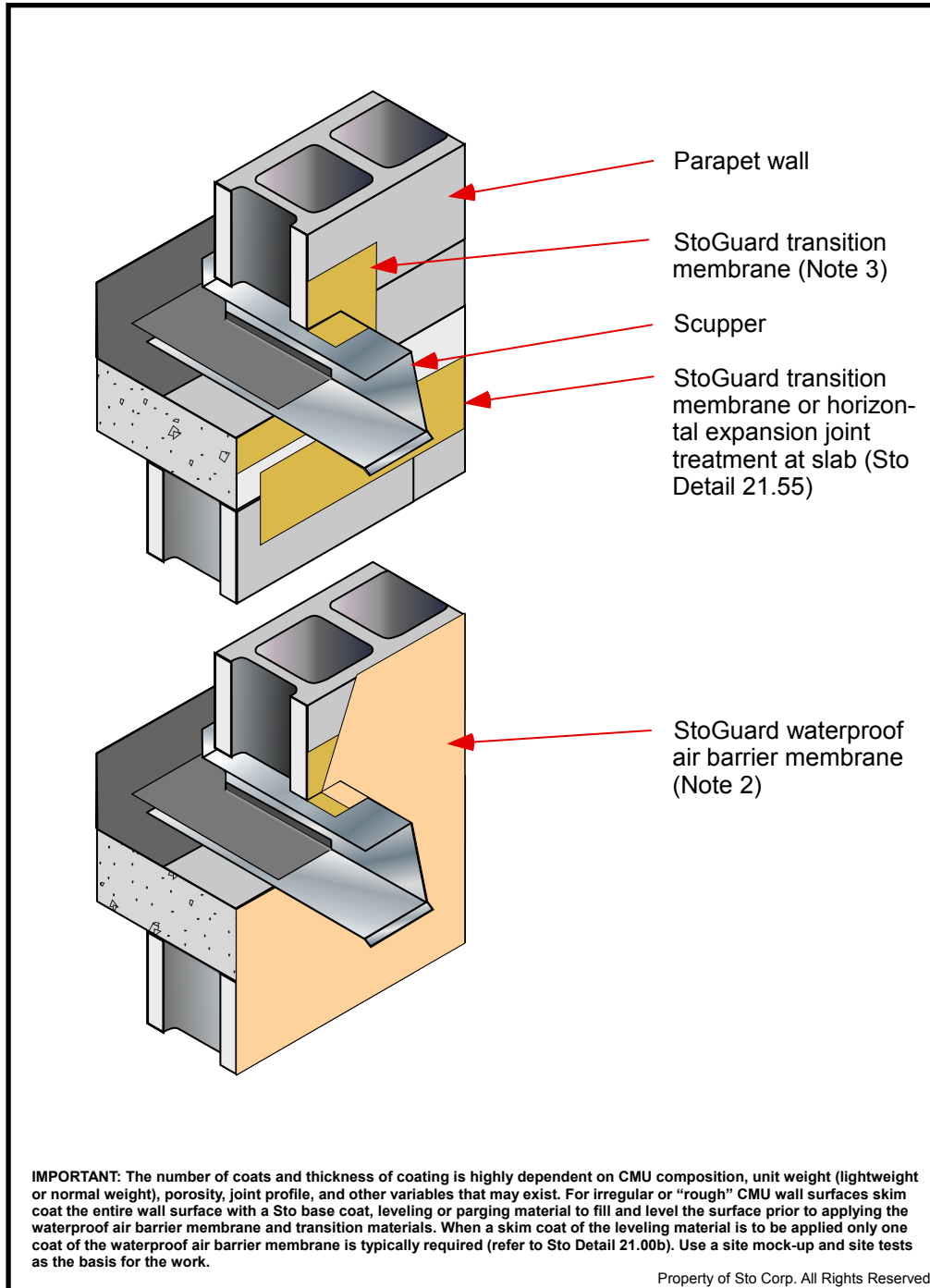
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StoGuard® Waterproof Air Barrier Masonry Construction Roof Scupper

Detail No.: 21.75

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 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.

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.

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