

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

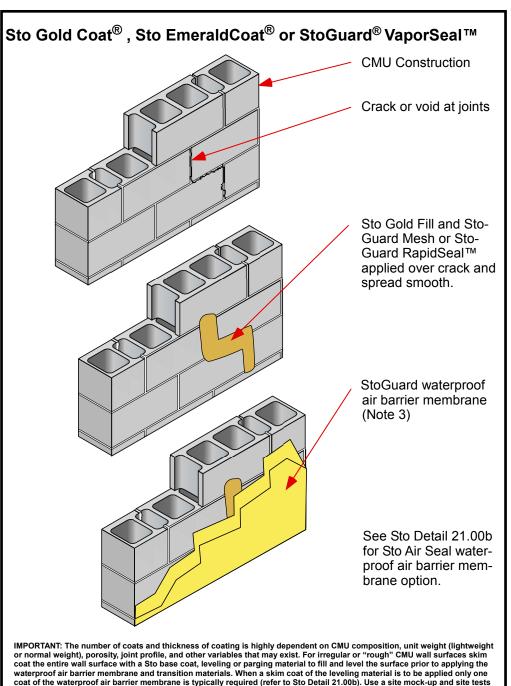
ATTENTION

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, of 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.



as the basis for the work

Components and Surface Preparation: Option 1



Detail No.: 21.00a

Date: April 2012

Notes:

- 1) Prepare substrate by:
- striking mortar joints flushremoving 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 mini mum 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: 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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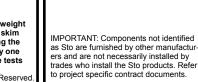
Components and Surface Preparation: Option 2

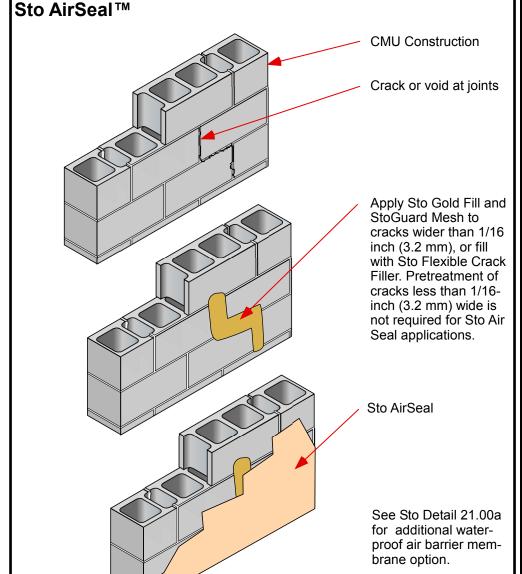
Detail No.: 21.00b

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] Repair minor, up to 1/8inch (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.





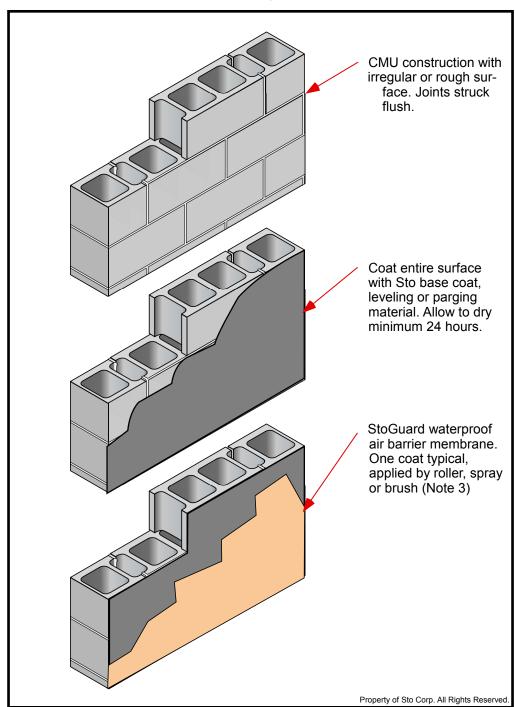
IMPORTANT: The number of coats and thickness of coating is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For irregular or "rough" CMU wall surfaces skim coat the entire wall surface with a Sto base coat, leveling 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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Surface Preparation over Irregular CMU



Notes:

1] Prepare substrate by:

Detail No.: 21.00c

Date: April 2012

- 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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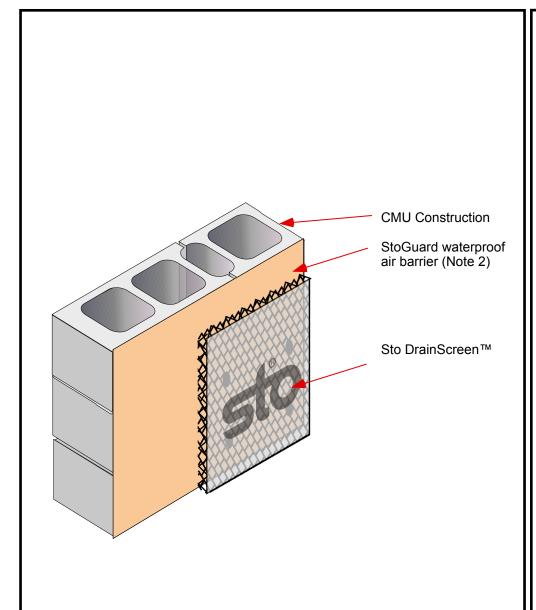
Sto DrainScreen™

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.



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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Continuous Insulation

as the basis for the work.

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™ 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

Notes:

- 1] Prepare substrate by:
 - striking mortar joints flush

Detail No.: 21.00e

Date: April 2012

- 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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Corner Application

Detail No.: 21.01

Date: April 2012

CMU Construction StoGuard waterproof air barrier membrane (Note 2) Verify complete continuous coating at inside corner

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 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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Brick Veneer Tie Attachment

Detail No.: 21.03a

Date: April 2012

CMU Construction StoGuard waterproof air barrier membrane

Notes:

- 1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
- 21 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.
- 31 Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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

(Note 2)

Veneer tie without membrane backing

Consult tie manufacturer for tie spacing and tie installation instructions.

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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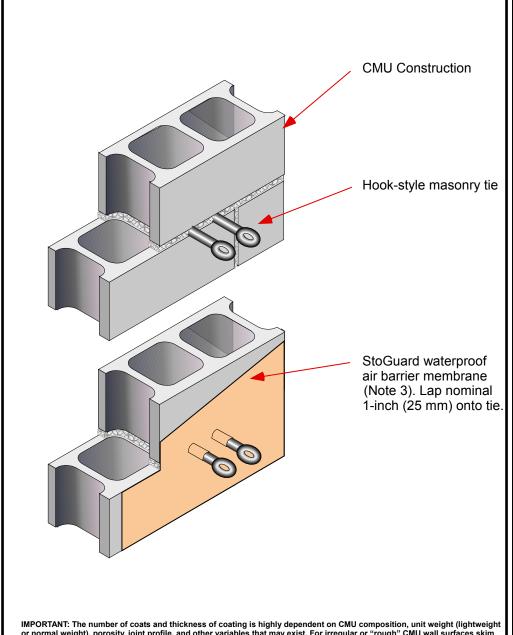
Hook-style Masonry Tie

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.



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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Termination at Grade

CMU Construction StoGuard waterproof air barrier membrane (Note 2) StoGuard transition membrane (Note 3) Flashing Grade sloped away from wall to provide drainage Compatible foundation waterproofing Termination distance above grade varies with cladding type. Consult local codes. 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 skin 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.

Detail No.: 21.10a

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

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Termination at Grade with Ledge

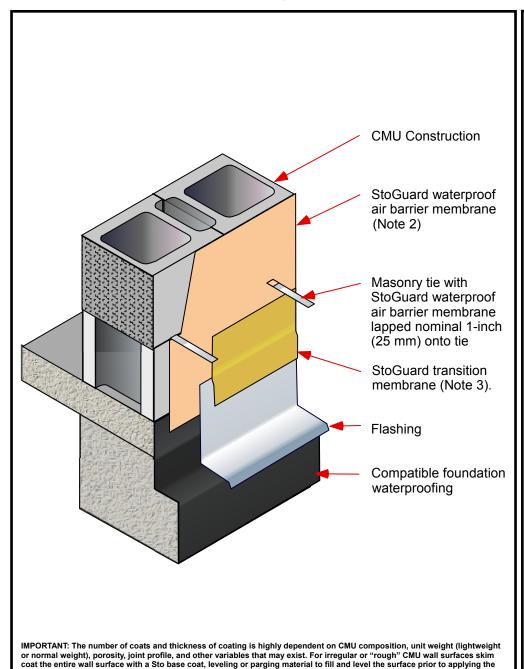
Detail No.: 21.10b

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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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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Rough Opening Protection with Sto Gold Fill and StoGuard Mesh

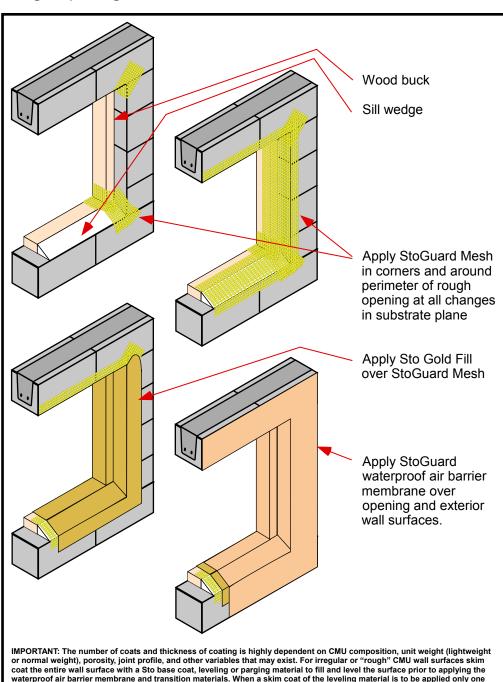
Detail No.: 21.20G

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. inbound of the outer perimeter weather seal.
- 5] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

IMPORTANT: Components not identified as Sto are furnished by other manufactur-ers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.



coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests

Attention

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Rough Opening Protection with StoGuard[®] RapidSeal™

Detail No.: 21.20R

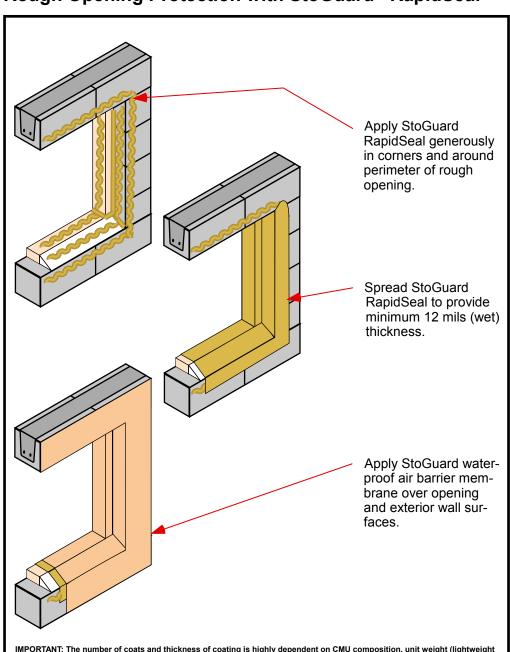
Date: April 2012

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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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.

Attention



Window Sill / Jamb

Detail No.: 21.23

Date: April 2012

Wood blocking Interior air seal StoGuard rough opening protection (Sto Detail 21.20G or 21.20R) Window Sill pan flashing with end dams (provide thermal break where needed to prevent condensation) Refer to Sto Detail 20.23a for transition membrane tie-in with end dam. StoGuard waterproof air barrier membrane (Note 3) Sill wedge 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

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.

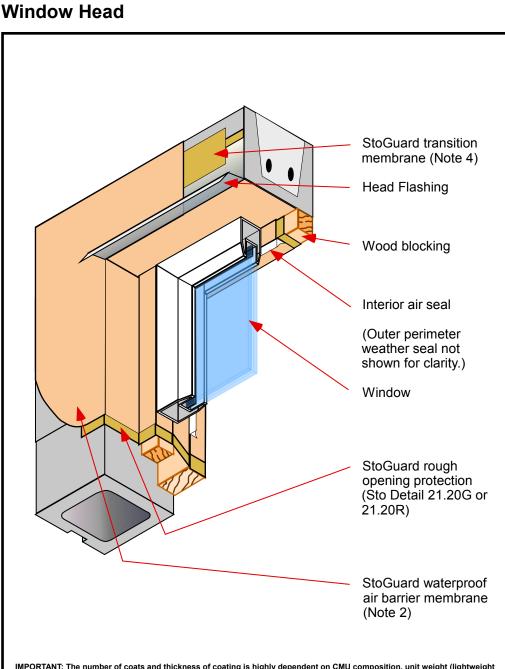
IMPORTANT: Components not identified as Sto are furnished by other manufactur-ers and are not necessarily installed by

coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests trades who install the Sto products. Refer to project specific contract documents. Property of Sto Corp. All Rights Reserved

Attention

as the basis for the work.





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.

Detail No.: 21.24

Date: April 2012

- 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.
- 41 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
- 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

as the basis for the work.

Detail No.: 21.30

Date: April 2012

Masonry substrate StoGuard waterproof air barrier membrane (Note 2) Backer rod and compatible sealant Compatible deck waterproof coating lapped minimum 4 inches (102 mm) onto vertical surface 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

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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Vertical Expansion Joint

Attention

Detail No.: 21.51

Date: April 2012

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.

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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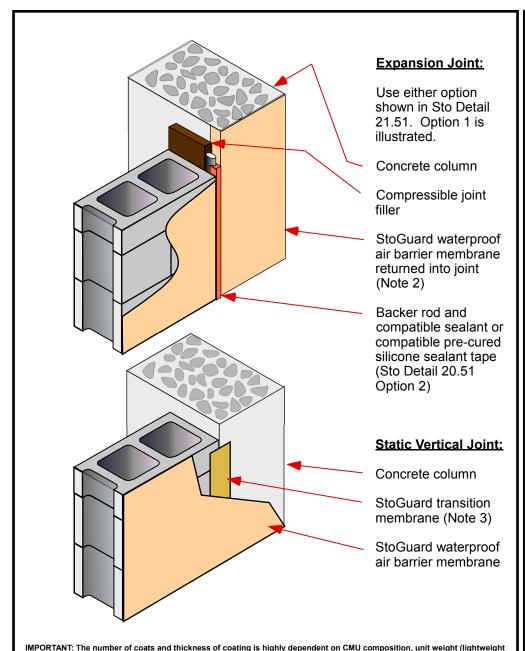
waterproof air barrier membrane and transition materials. When a skim coat of the leveling material is to be applied only one coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests



Vertical Joint at Column

Detail No.: 21.52

Date: April 2012



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

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.
- 31 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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Attention

as the basis for the work.

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Inside Corner Dissimilar Materials

CMU Construction Framing: steel or wood Sheathing StoGuard transition membrane (Note 3) 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 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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Detail No.: 21.53

Date: April 2012

Notes:

- 1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
- 21 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 transi-
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

IMPORTANT: Components not identified as Sto are furnished by other manufactur-ers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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Structural Shelf Angle or Lintel

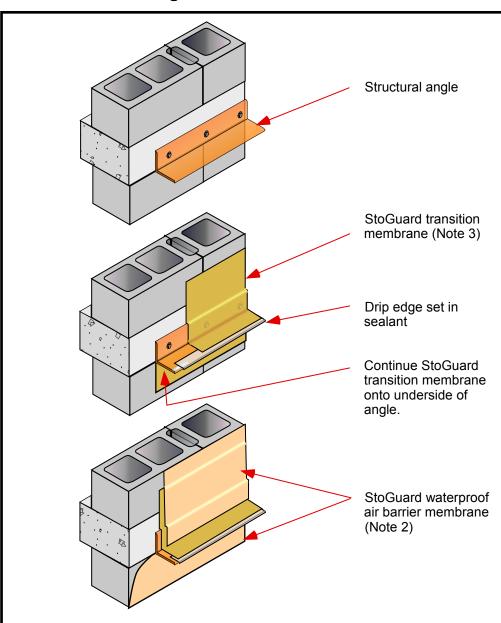
Detail No.: 21.54

Date: April 2012

Notes:

- 1] Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
- 21 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
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

IMPORTANT: Components not identified as Sto are furnished by other manufactur-ers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.



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

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Horizontal Joint at Floorline

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 ioint treatment manufacturer to confirm suitability for use at expansion joints. 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

Detail No.: 21.55 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 Tape (with StoGuard Fabric shingle
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

IMPORTANT: Components not identified as Sto are furnished by other manufactur-ers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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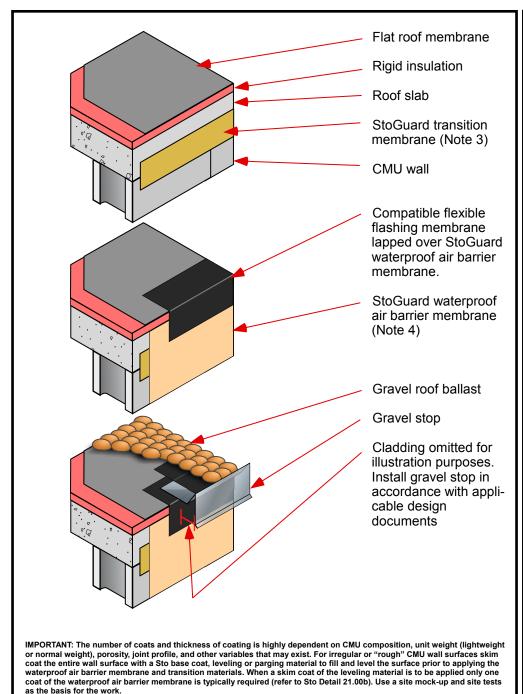
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Roof Termination with Gravel Stop



Notes:

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

Detail No.: 21.60a

Date: April 2012

- 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.
- 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

3] StoGuard Transition

- 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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Parapet Cap

Detail No.: 21.60b

Date: April 2012

Parapet cap flashing Wood nailer Compatible flexible flashing membrane lapped over StoGuard waterproof air barrier membrane. StoGuard transition membrane (Note 3) StoGuard waterproof air barrier membrane (Note 2) Back-side waterproofing of parapet wall Cladding omitted for illustration purposes. Install cap flashing in accordance with applicable design documents

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

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
- 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 manufactur-ers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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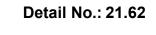
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Roof / Sidewall Step Flashing



Date: April 2012

CMU wall construction StoGuard transition membrane (Note 3) StoGuard waterproof air barrier membrane (Note 2) Step flashing Adjoining roof Kick-out flashing Gutter

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:

- 11 Prepare substrate in accordance with Sto Detail 21.00a, 21.00b or 21.00c.
- 21 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 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.

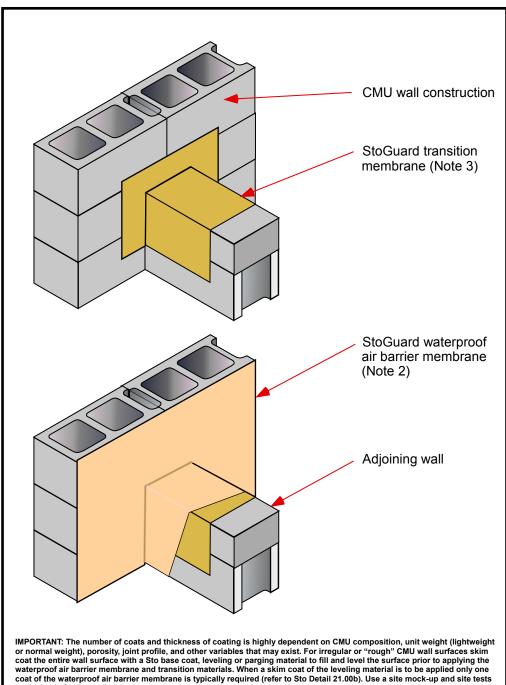
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Saddle Wall Intersection



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.

Detail No.: 21.64

Date: April 2012

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

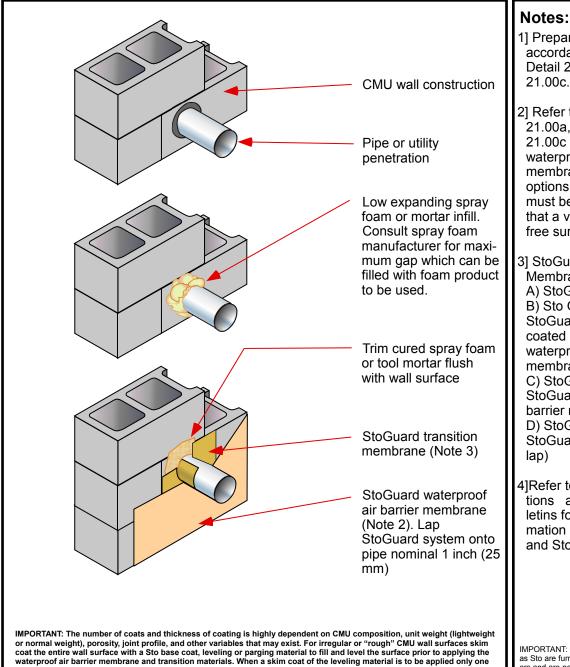
IMPORTANT: Components not identified as Sto are furnished by other manufactur-ers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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Pipe Penetration



coat of the waterproof air barrier membrane is typically required (refer to Sto Detail 21.00b). Use a site mock-up and site tests

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

Detail No.: 21.70

Date: April 2012

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

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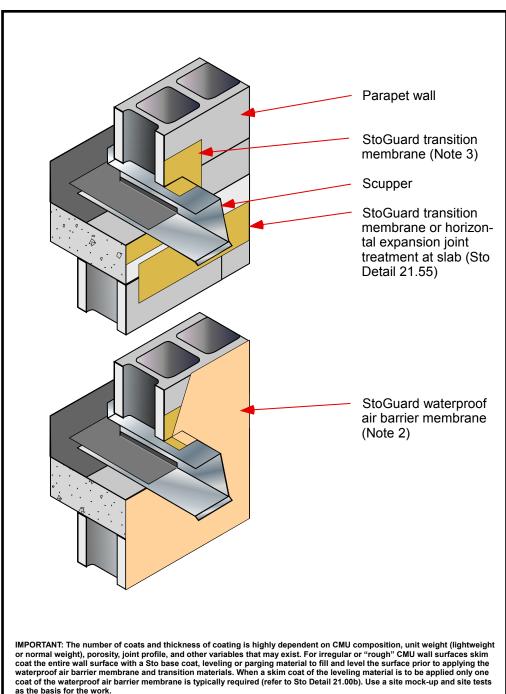
as the basis for the work

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Roof Scupper



Notes:

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

Detail No.: 21.75

Date: April 2012

- 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:
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 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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