

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

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

Date: March 2014

Typical Sheathing Joint

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

Oversized Sheathing Joint

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

Notes:

- 1] StoGuard joint treatment options:
 - A) StoGuard RapidFill
 - B) Sto Gold Fill® with StoGuard Mesh joints $\leq 1/8"$ (3 mm) wide
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints $\leq 1/8"$ (3 mm) wide
 - D) StoGuard RapidSeal™ with StoGuard Mesh - joints $\leq 1/4"$ (6 mm) wide
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®
 (Use with StoTherm NExT EIF systems)
- 3] Examples of non-absorptive cladding: fiber-cement board, wood or vinyl siding, metal panel system with sealed joints.
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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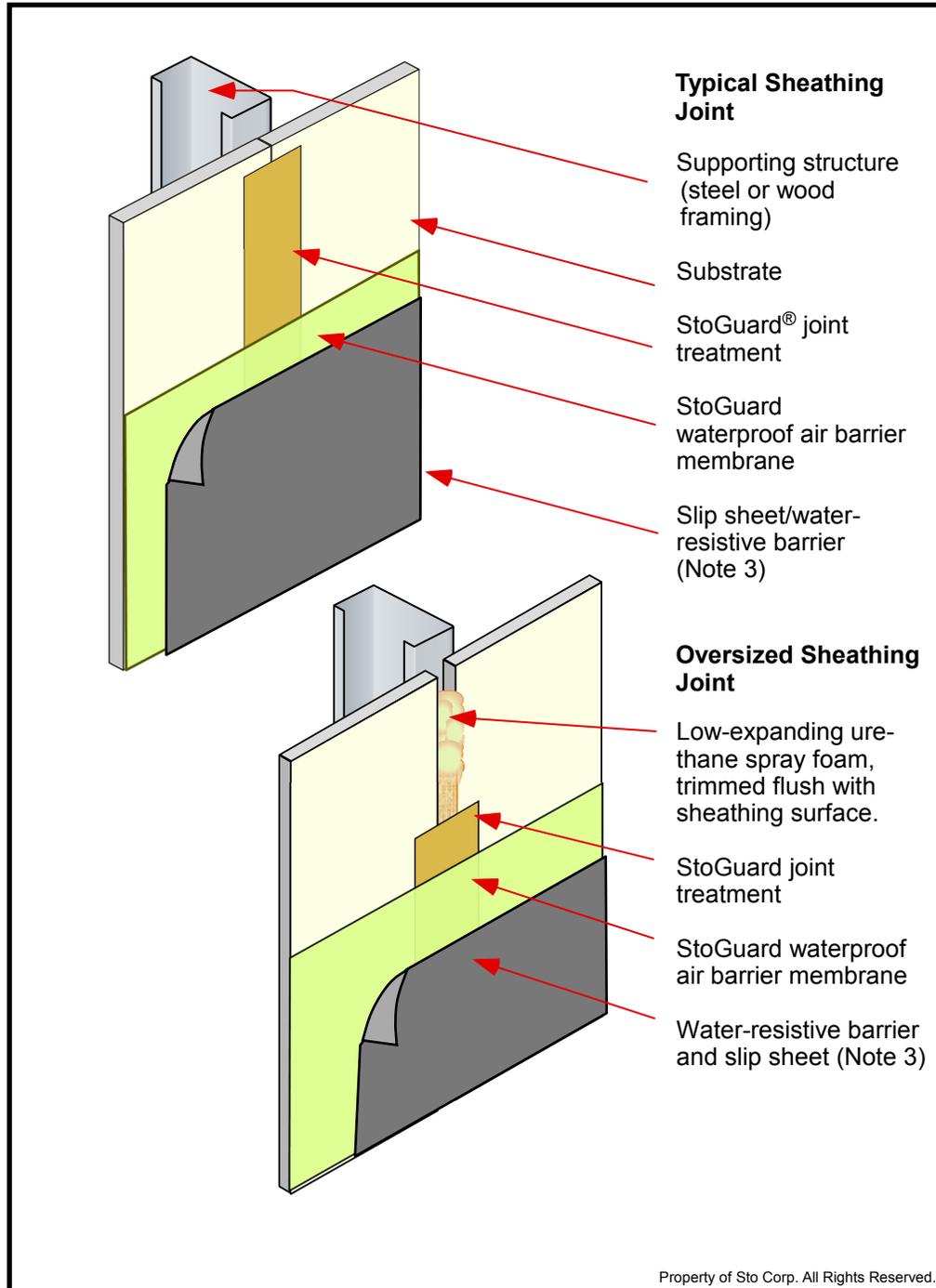
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StoGuard® Waterproof Air Barrier Frame Construction

Absorptive Cladding

Date: March 2014



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

(Use with StoTherm NExt EIF systems)
 - 3] Water-resistant barrier/ slip sheet, minimum #15 Grade D building paper, required behind cladding such as portland cement stucco and adhered masonry veneer. For wood-based sheathing use minimum 60-minute, Grade D paper when backed with Sto AirSeal™ or StoGuard VaporSeal™
 - 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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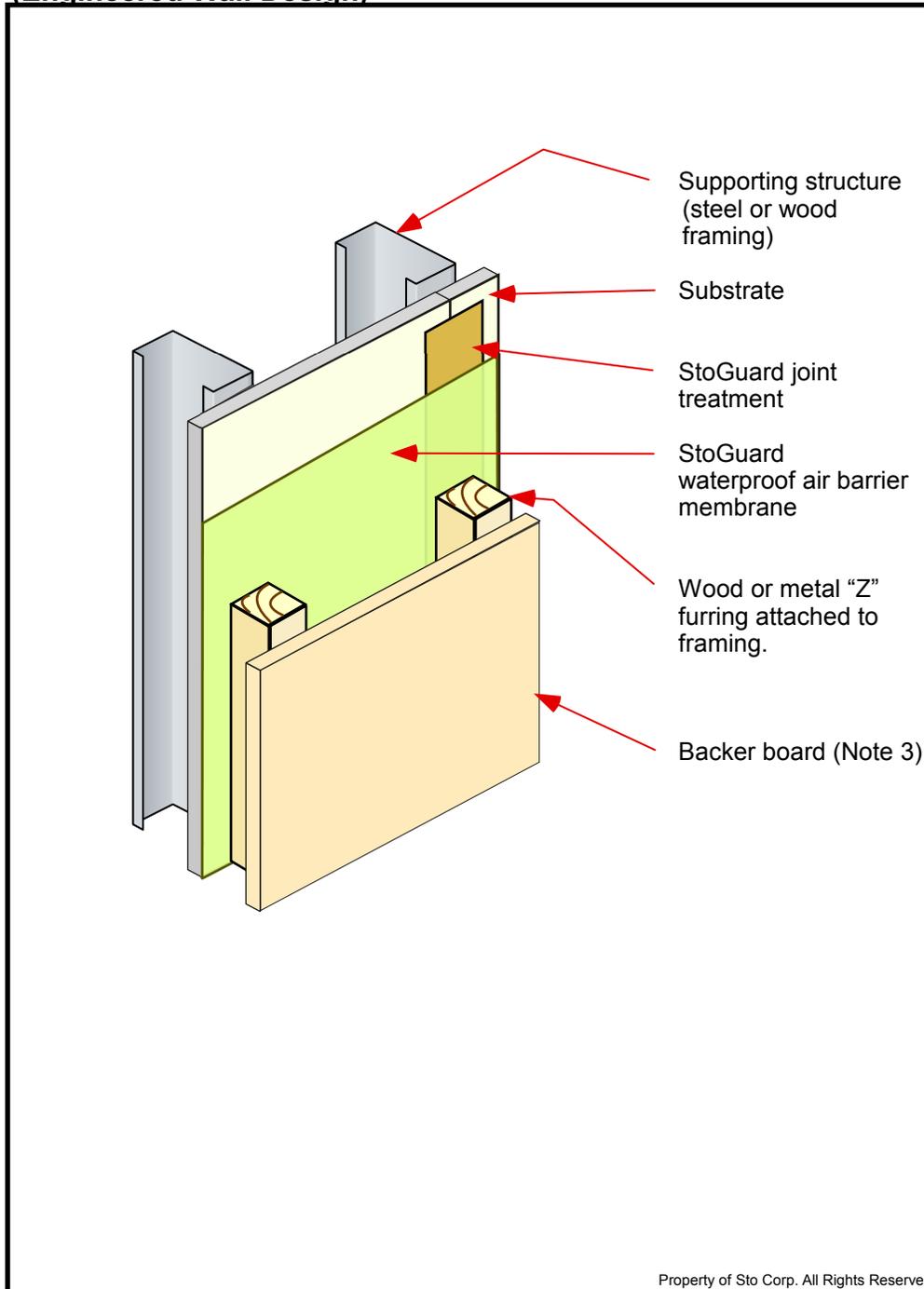
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StoGuard[®] Waterproof Air Barrier Frame Construction

StoGuard[®] with Furring and Backer Board
(Engineered Wall Design)

Date: March 2014



Notes:

- 1] StoGuard joint treatment options:
 - A) StoGuard RapidFill
 - B) Sto Gold Fill[®] with StoGuard Mesh joints $\leq 1/8"$ (3 mm) wide
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints $\leq 1/8"$ (3 mm) wide
 - D) StoGuard RapidSeal[™] with StoGuard Mesh - joints $\leq 1/4"$ (6 mm) wide
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat[®]
 - B) StoGuard VaporSeal[™]
 - C) Sto AirSeal[™]
 - D) Sto Gold Coat[®]
(Use with StoTherm NExT EIF systems)
- 3] Engineered wall design must take into account furring and cladding attachment, cantilevered load imposed by cladding on fasteners, fire and flame propagation, and other design considerations to conform with or gain compliance with local code requirements.
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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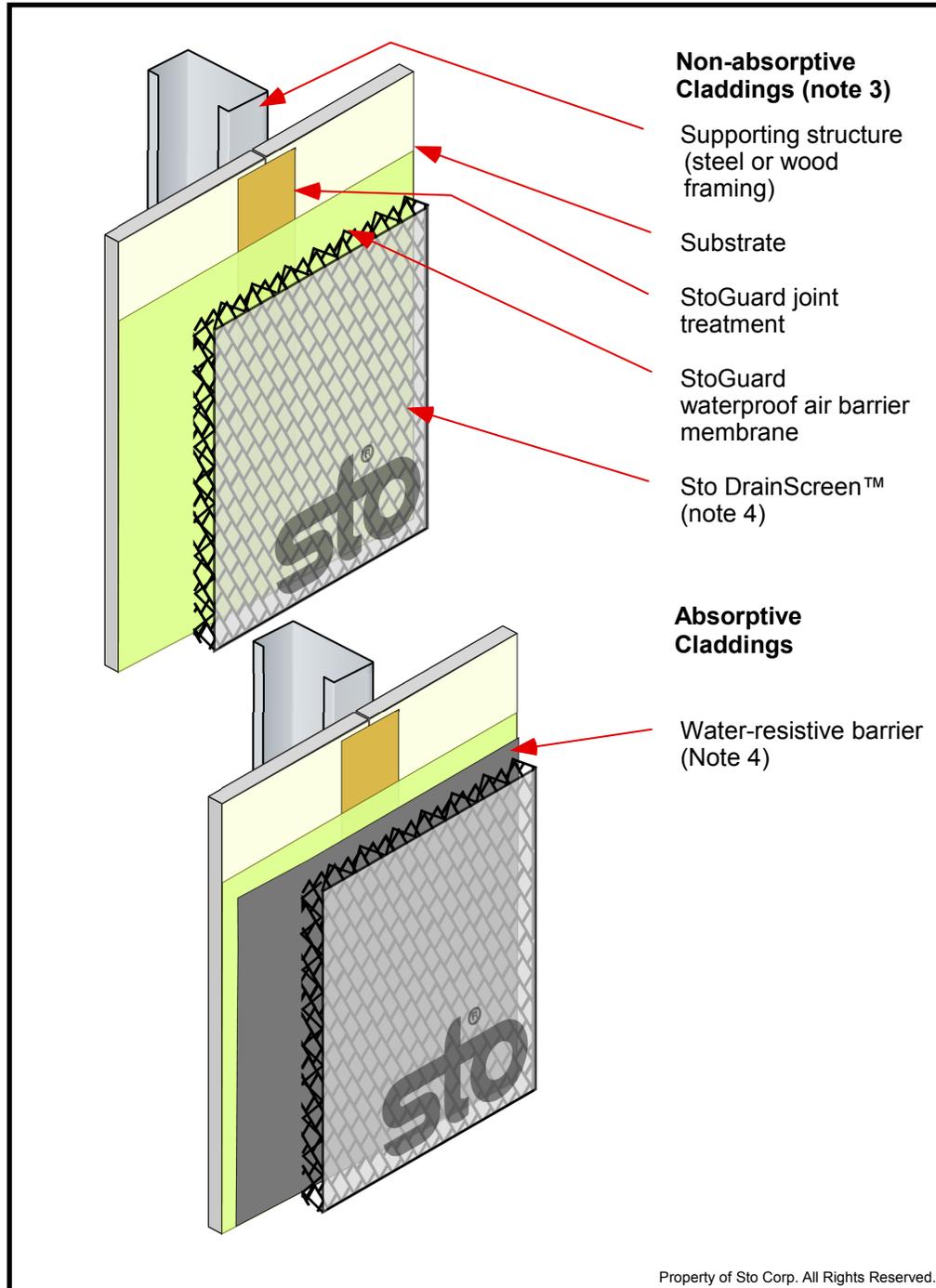
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StoGuard® Waterproof Air Barrier Frame Construction

Sto DrainScreen™

Date: March 2014



Non-absorptive Claddings (note 3)

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

Absorptive Claddings

- Water-resistive barrier (Note 4)

Notes:

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

(Use with StoTherm NExt EIF systems)
- 3] Examples of non-absorptive claddings include fiber-cement board, wood and vinyl siding, metal panel systems with sealed joints, and brick or stone cavity walls
- 4] Use Sto DrainScreen™ to create a cavity to promote drainage and drying of wall assemblies.
- 5] Water-resistive barrier, minimum #15 Grade D building paper, required behind portland cement stucco and adhered masonry veneer. For wood-based substrates use minimum 60-minute, Grade D paper when backed by Sto AirSeal™ or StoGuard VaporSeal™.
- 6] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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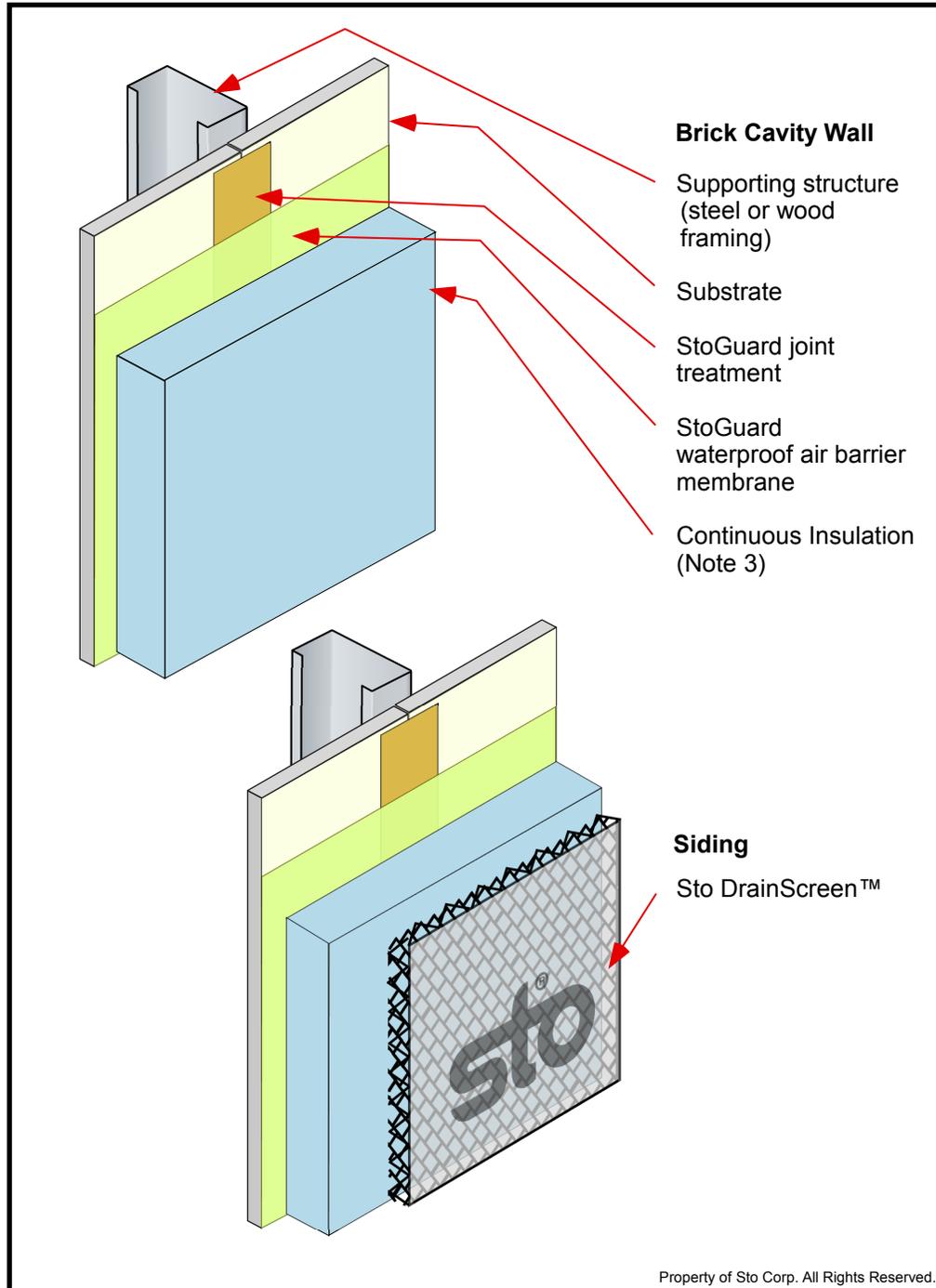
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StoGuard® Waterproof Air Barrier Frame Construction

Continuous Insulation - Brick Cavity or Other Cladding

Date: March 2014



Notes:

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 - B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8" (3 mm) wide
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8" (3 mm) wide
 - D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4" (6 mm) wide
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®

(Use with StoTherm NExT EIF systems)
- 3] Continuous foam plastic insulation must be approved and in conformance with IRC Section 316 and IBC Section 2603 (note required fire tests for use on noncombustible construction). Consult with cladding manufacturer for required supports, attachment and limitations for assemblies involving continuous insulation.
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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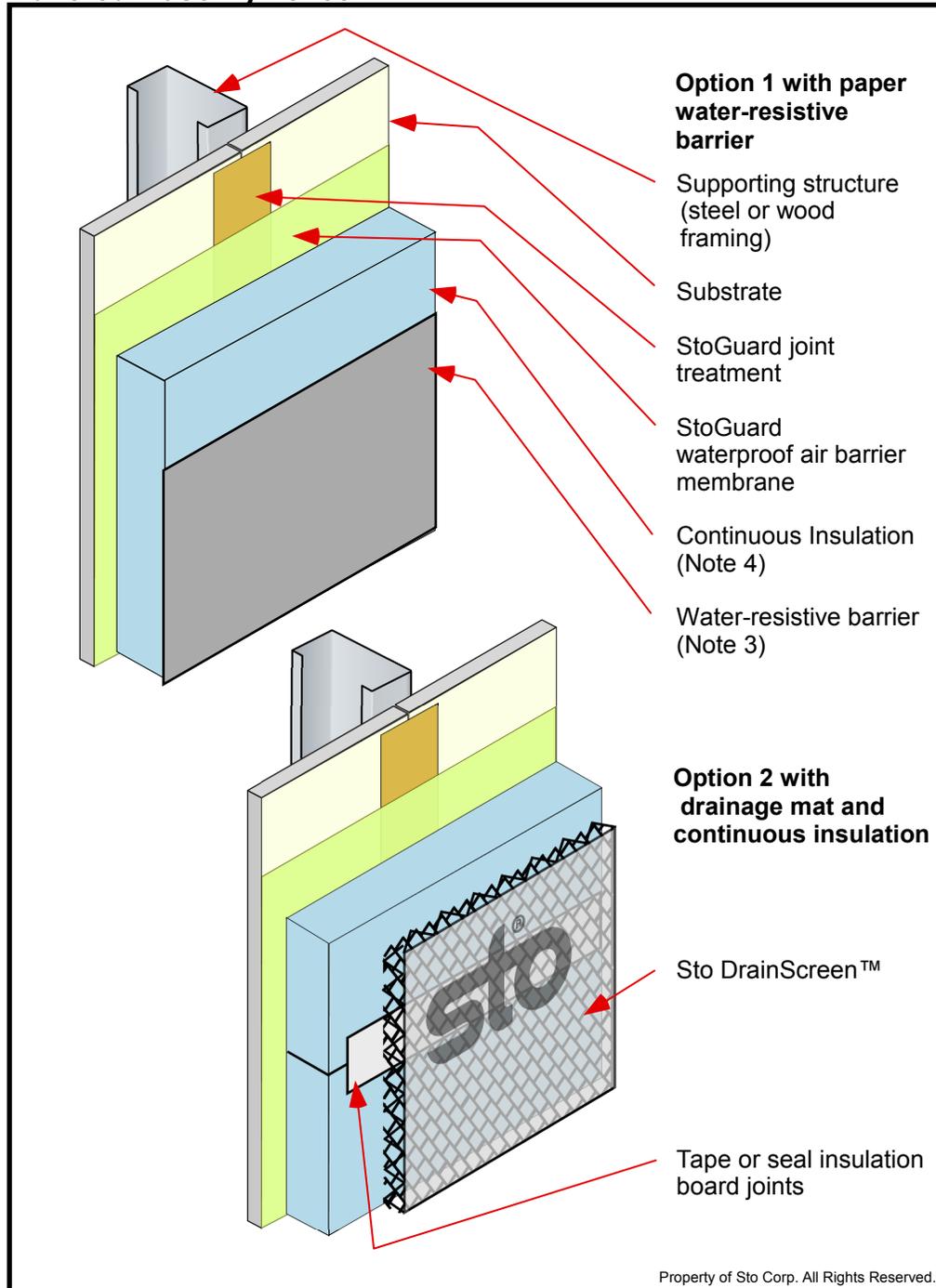
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StoGuard® Waterproof Air Barrier Frame Construction

Continuous Insulation - Portland Cement Stucco and
Adhered Masonry Veneer

Date: March 2013



Notes:

- 1] StoGuard joint treatment options:
 A) StoGuard RapidFill
 B) Sto Gold Fill® with StoGuard Mesh joints ≤ 1/8" (3 mm) wide
 C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints ≤ 1/8" (3 mm) wide
 D) StoGuard RapidSeal™ with StoGuard Mesh - joints ≤ 1/4" (6 mm) wide
- 2] StoGuard waterproof air barrier membrane options:
 A) Sto EmeraldCoat®
 B) StoGuard VaporSeal™
 C) Sto AirSeal™
 D) Sto Gold Coat®
 (Use with StoTherm NEXt EIF systems)
- 3] Water-resistive barrier/ slip sheet, minimum #15 Grade D building paper, required behind claddings such as portland cement stucco and adhered masonry veneer. For wood-based sheathing use minimum 60-minute, Grade D paper when backed with Sto AirSeal™ or StoGuard VaporSeal™
- 4] Continuous foam plastic insulation must be approved and in conformance with IRC Section 316 and IBC Section 2603 (note required fire tests for use on noncombustible construction). Consult with cladding manufacturer for required supports, attachment and limitations for assemblies involving continuous insulation.
- 5] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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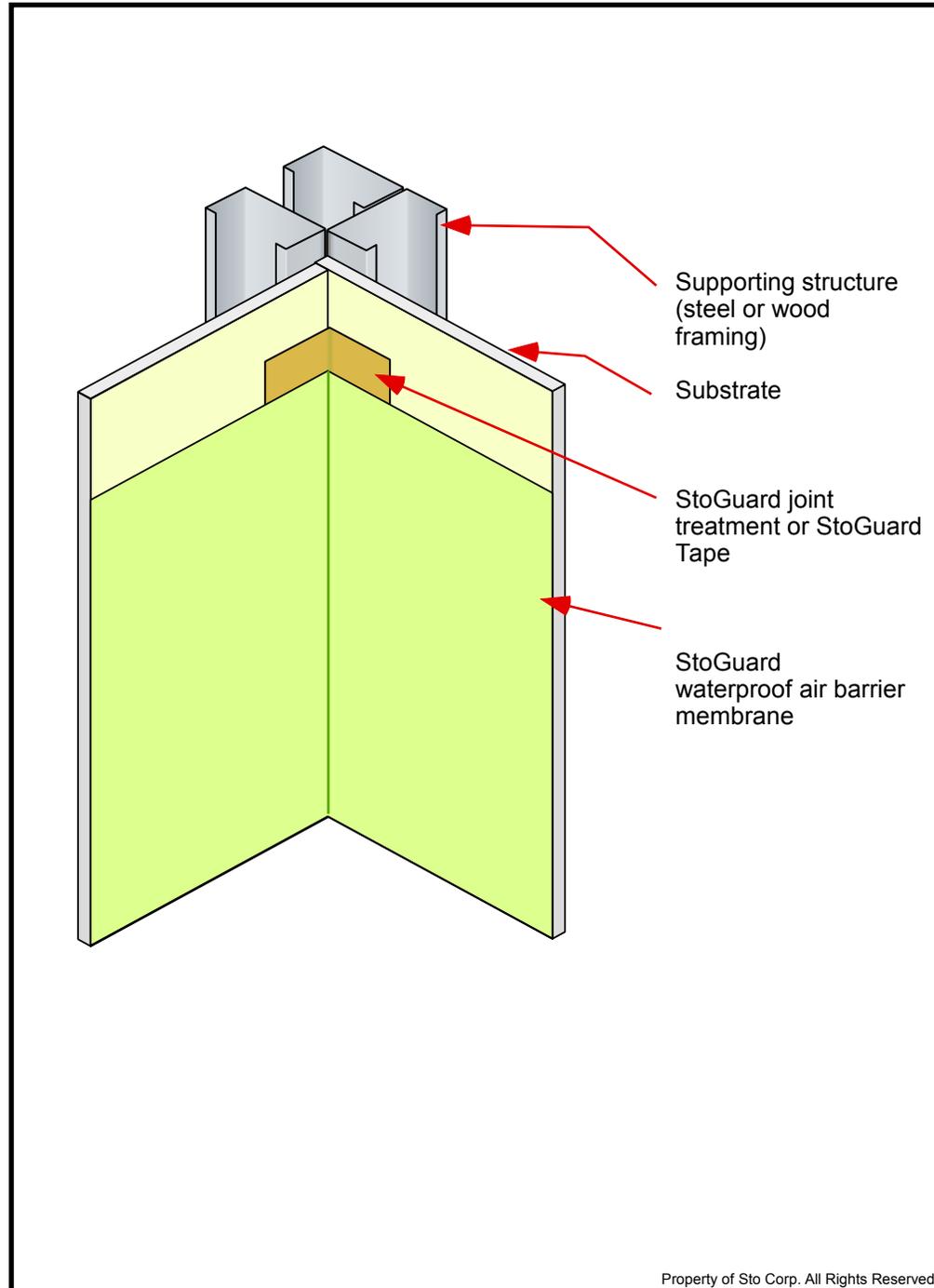
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StoGuard® Waterproof Air Barrier Frame Construction

Inside Corner - Common Substrate

Date: March 2014



Notes:

- 1] StoGuard joint treatment options:
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 - B) Sto Gold Fill® with StoGuard Mesh joints $\leq 1/8"$ (3 mm) wide
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints $\leq 1/8"$ (3 mm) wide
 - D) StoGuard RapidSeal™ with StoGuard Mesh - joints $\leq 1/4"$ (6 mm) wide
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®

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

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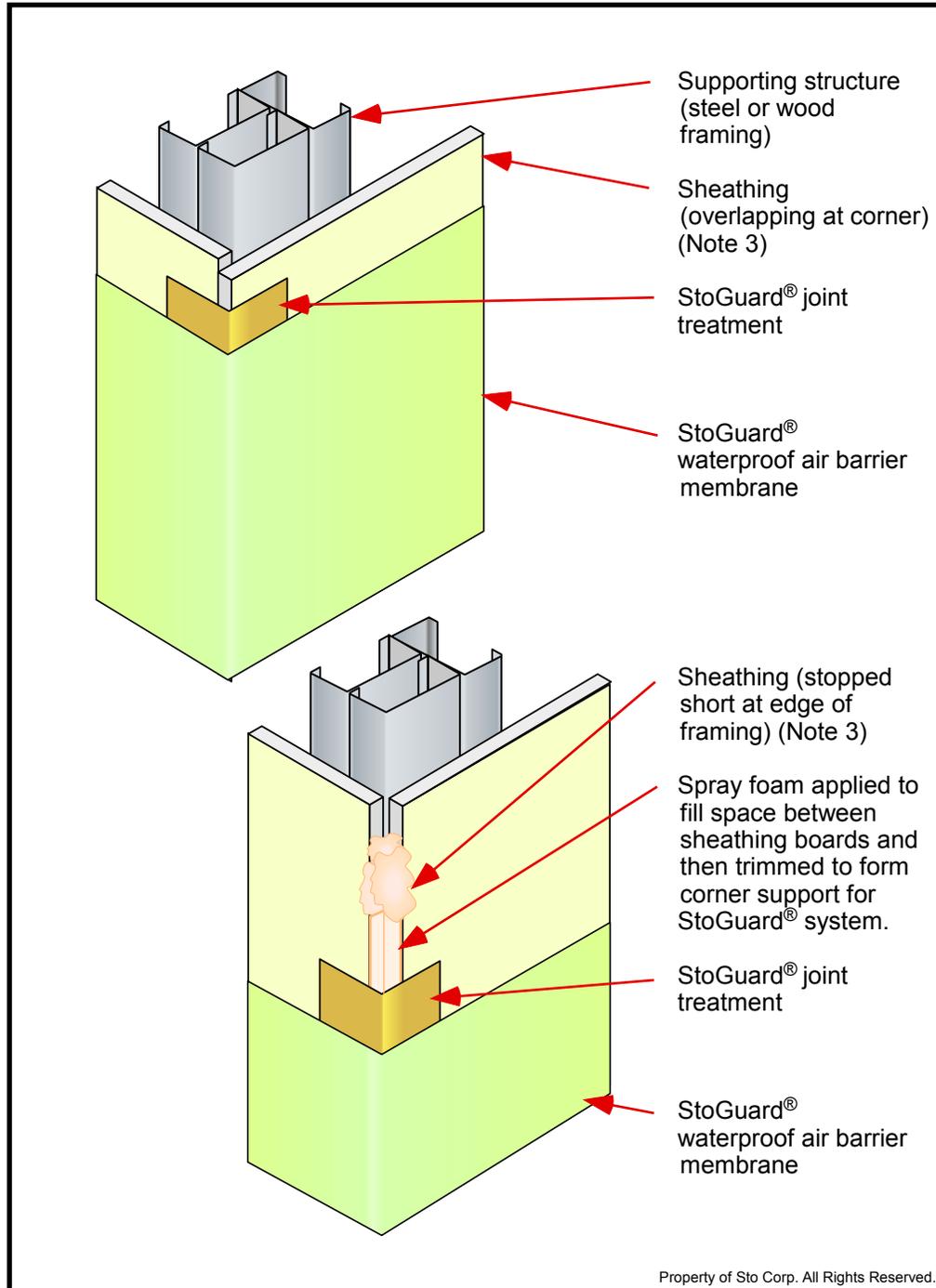
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StoGuard® Waterproof Air Barrier Frame Construction

Outside Corner

Date: March 2014



Notes:

- 1] StoGuard joint treatment options:
 - A) StoGuard RapidFill
 - B) Sto Gold Fill® with StoGuard Mesh joints $\leq 1/8"$ (3 mm) wide
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints $\leq 1/8"$ (3 mm) wide
 - D) StoGuard RapidSeal™ with StoGuard Mesh - joints $\leq 1/4"$ (6 mm) wide
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®

(Use with StoTherm NExT EIF systems)
- 3] Best practice is to overlap sheathing as shown in detail "A". Detail "B" presents an option to accommodate minor construction variations: maximum 5/8-in. x 5/8-in. (16 mm x 16 mm) gap at corner.
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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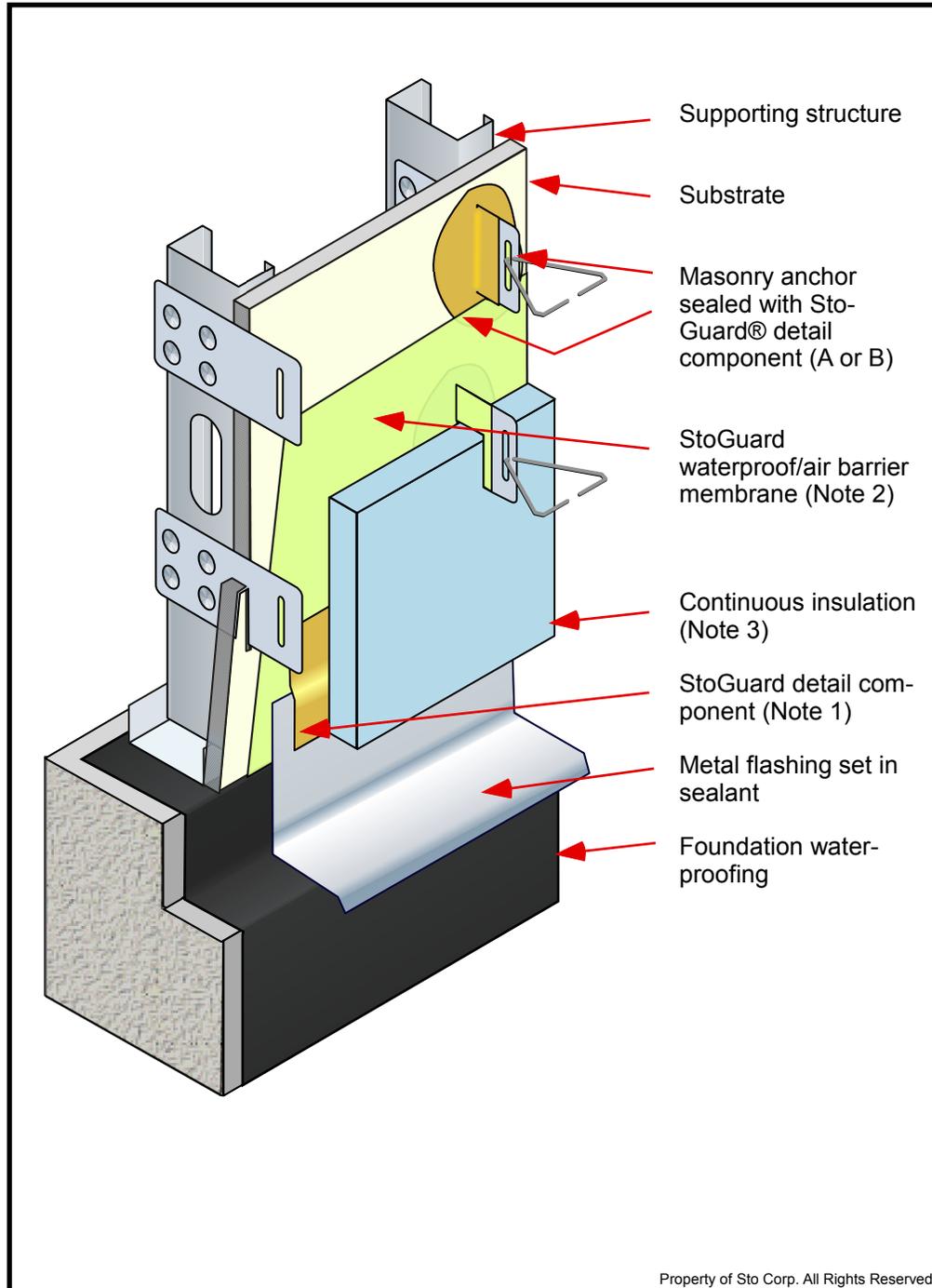
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StoGuard® Waterproof Air Barrier Frame Construction

Brick Ledge at Foundation with Masonry Anchors - Steel Frame

Date: March 2014



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidFill
 - B) Sto Gold Fill® with StoGuard Mesh
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - D) StoGuard RapidSeal™ with StoGuard Mesh
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®
(Use with StoTherm NExT EIF systems)
- 3] Continuous foam plastic insulation must be approved and in conformance with IRC Section 316 and IBC Section 2603 (note required fire tests for use on noncombustible construction).
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier and slip sheet required behind porous claddings not shown. Refer to Sto Detail 20.00b for additional information.

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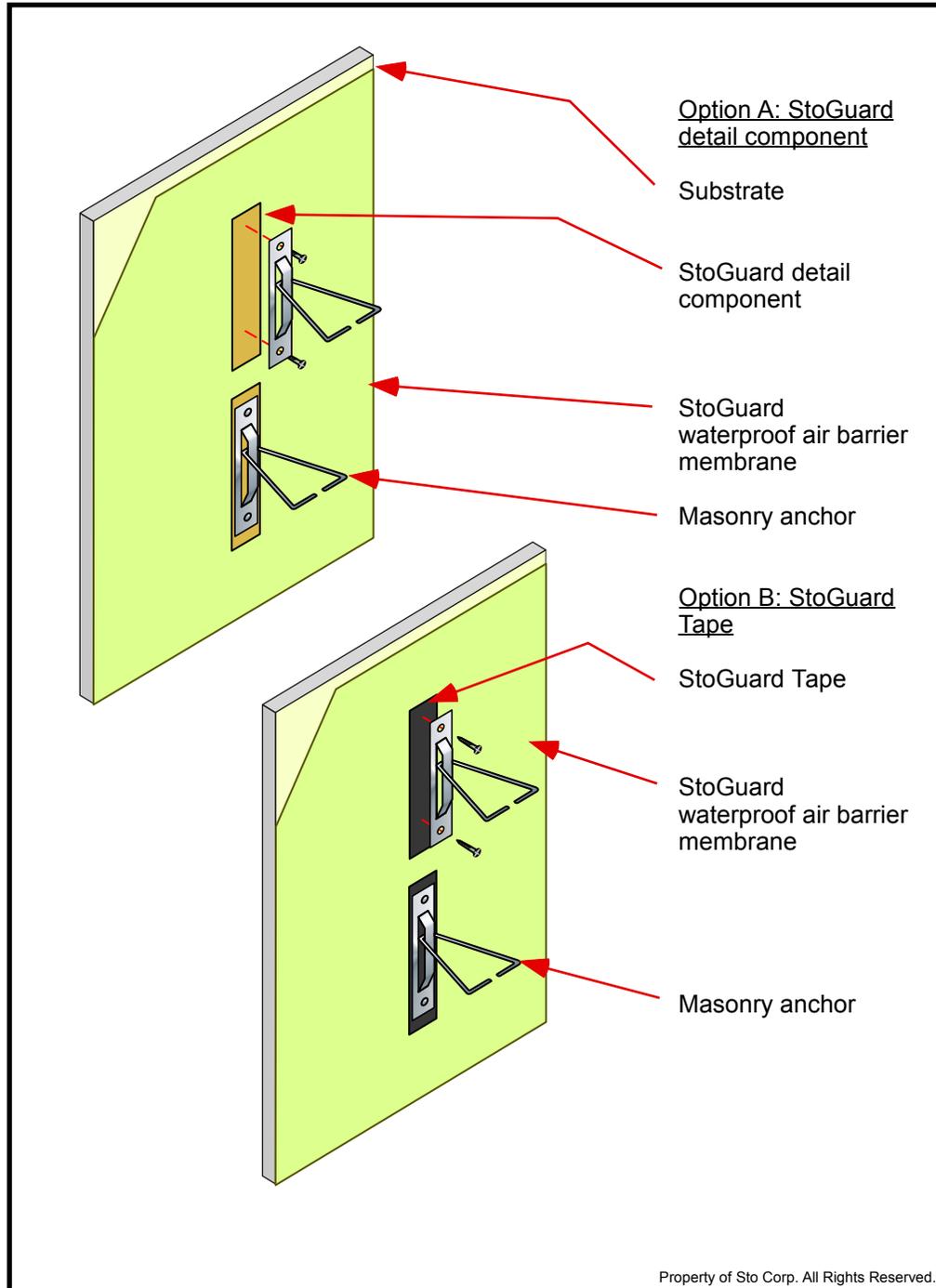
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StoGuard® Waterproof Air Barrier Frame Construction

Masonry Anchor Backer Seal

Date: March 2014



Notes:

- 1] StoGuard detail component options:
A) StoGuard RapidFill™
B) StoGuard RapidSeal™
- 2] StoGuard waterproof air barrier membrane options:
A) Sto EmeraldCoat®
B) StoGuard VaporSeal™
C) Sto AirSeal™
D) Sto Gold Coat®
(Use with StoTherm NExT EIF systems)
- 3] Caution: All fasteners should be into framing with fastener head snug to tie surface. Remove fasteners and seal all penetrations where studs are missed using StoGuard detail component or compatible sealant.
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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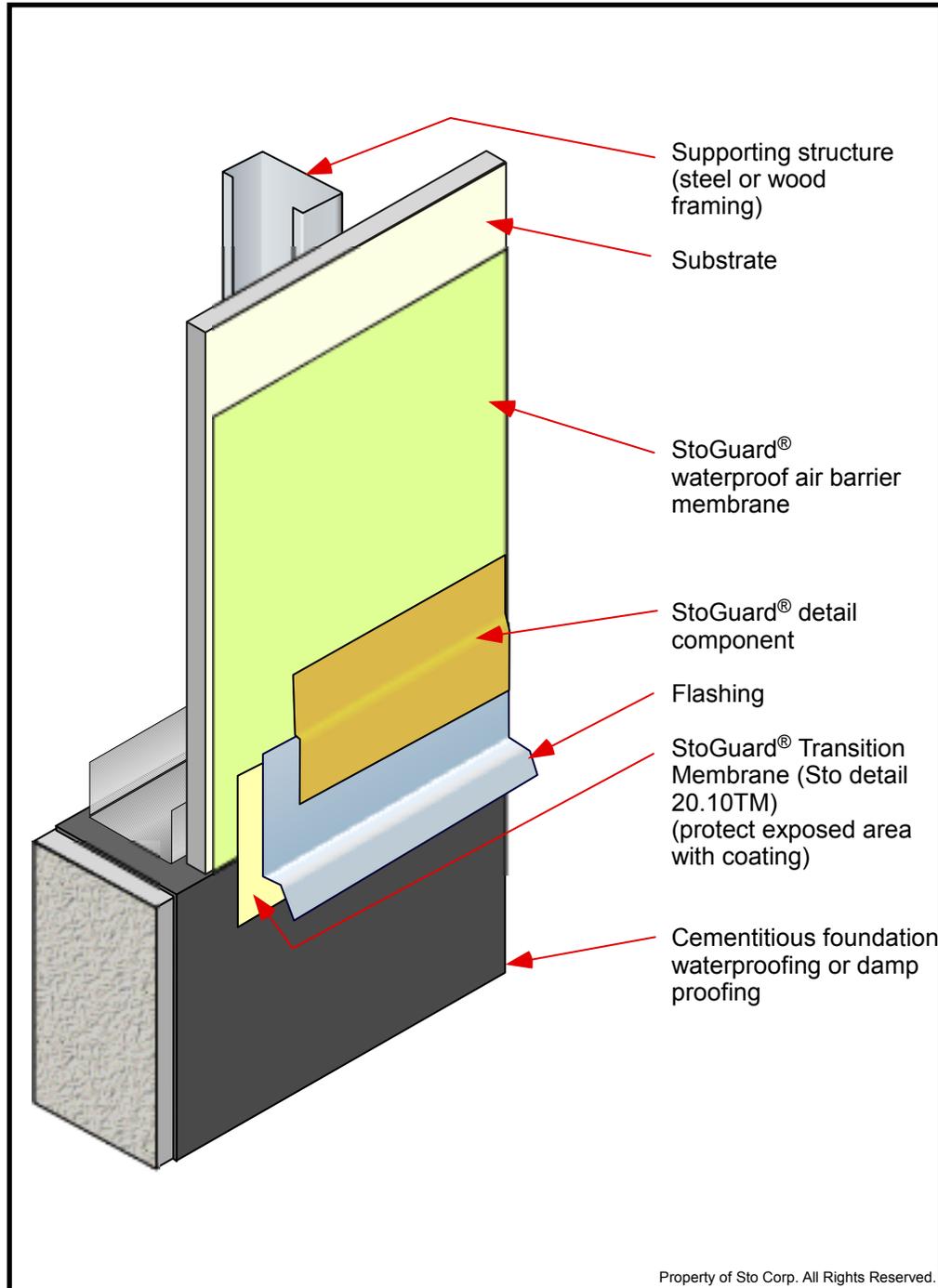


StoGuard® Waterproof Air Barrier Frame Construction

Termination at Grade - Sheathing Flush with Foundation

Detail No.: 20.10a

Date: March 2014



Notes:

- 1] StoGuard detail component options:
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 - B) Sto Gold Fill® with StoGuard Mesh
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - D) StoGuard RapidSeal™ with StoGuard Mesh
- 2] StoGuard waterproof air barrier membrane options:
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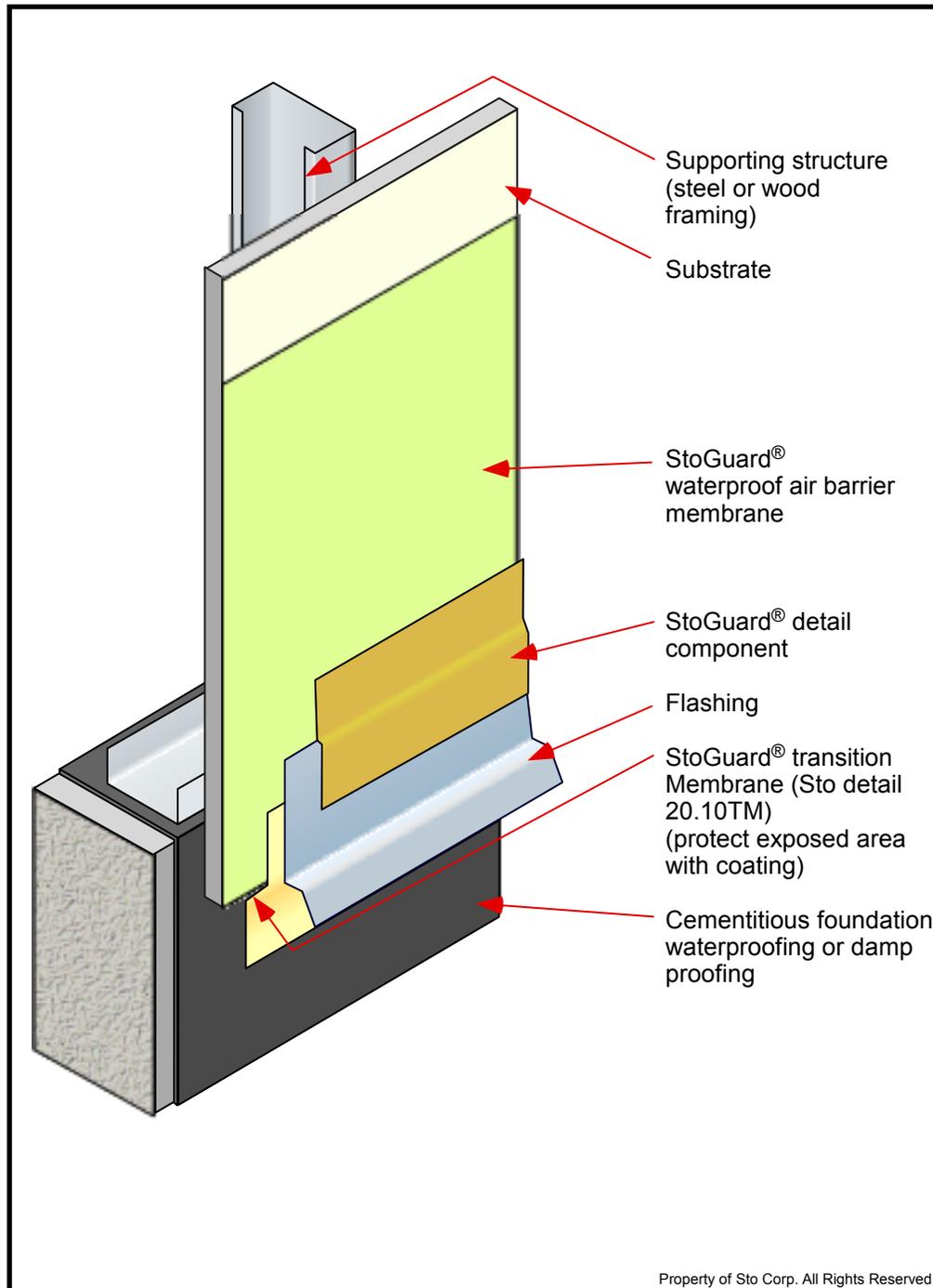
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StoGuard® Waterproof Air Barrier Frame Construction

Termination at Grade - Sheathing Overlapping Foundation

Date: March 2014



Notes:

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

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

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

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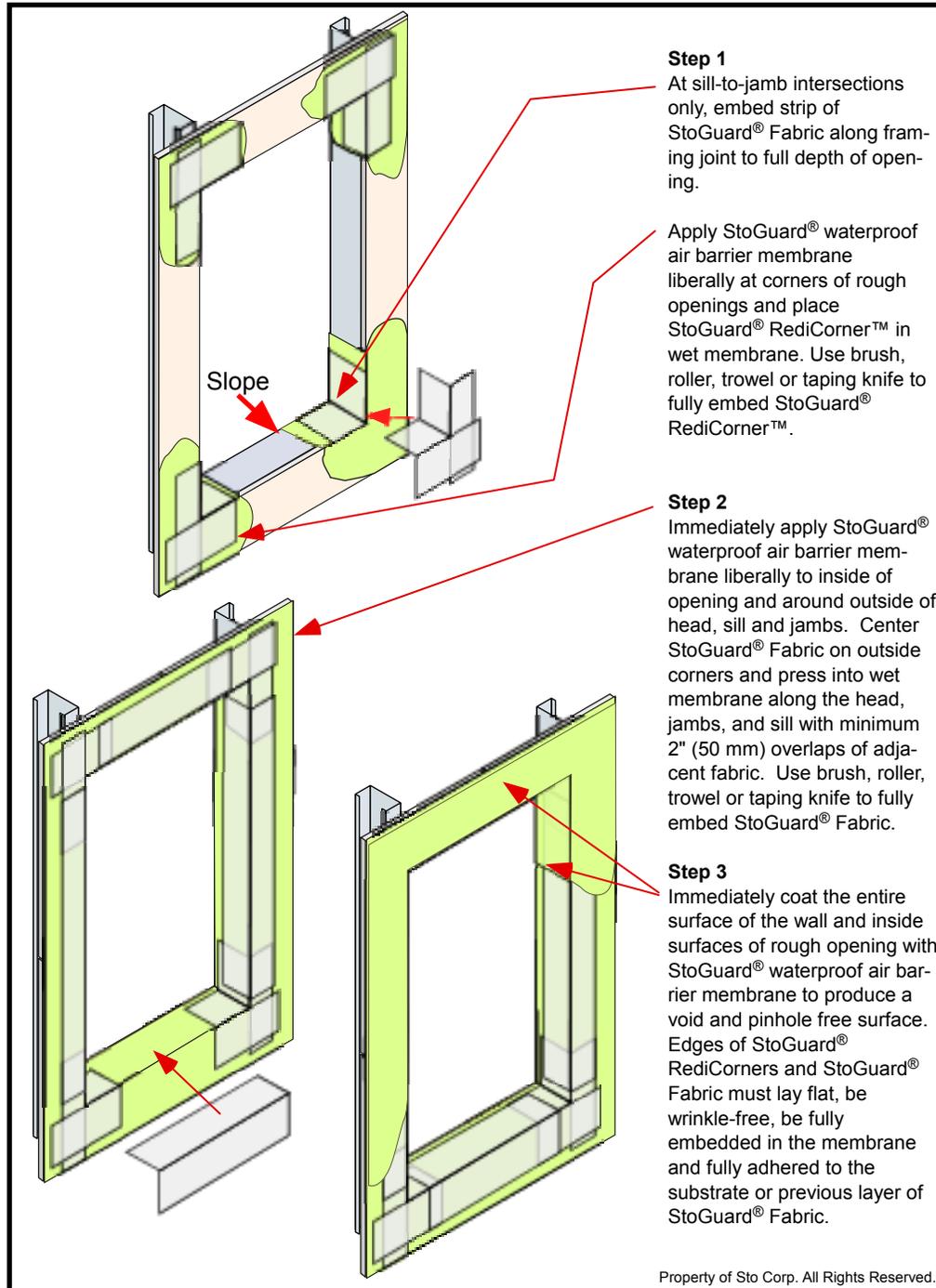
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StoGuard® Waterproof Air Barrier Frame Construction Rough Opening Protection with StoGuard Fabric

Date: March 2014



Notes:

- 1] StoGuard waterproof air barrier membrane options:
A) Sto EmeraldCoat®
B) StoGuard VaporSeal™
C) Sto Gold Coat®
(Use with StoTherm NExT EIF systems)
- 2] Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means of positive slope to exterior at sill.
- 3] Incorporate flashing as illustrated in 20.23a or as per other details where flashing is shown.
- 4] The complete installation of window or mechanical equipment must include an air seal between the object and the StoGuard protection, inbound of the outer perimeter weather seal.
- 5] See Sto Detail 20.21 for preparation of punched studs used to frame rough openings.
- 6] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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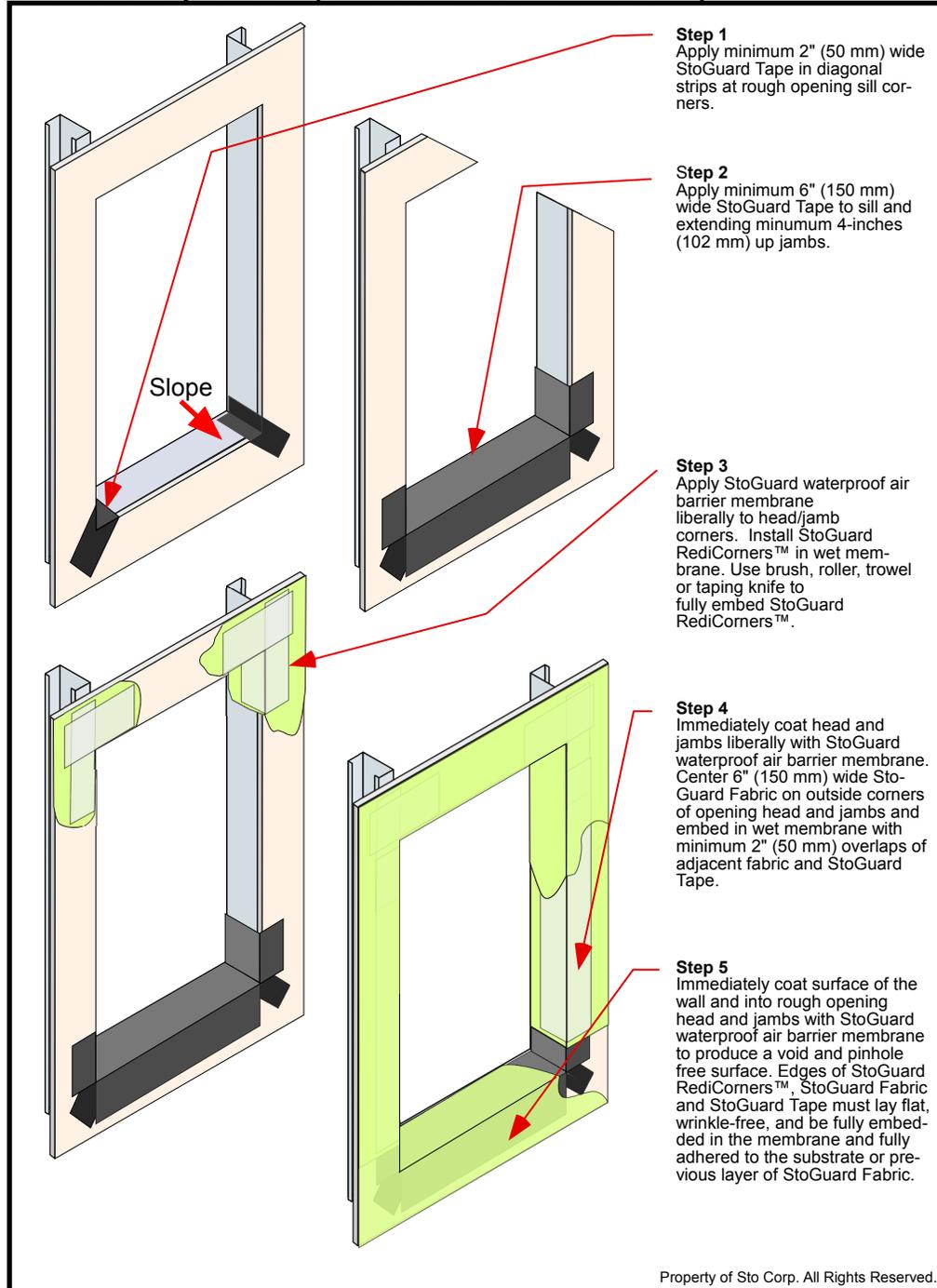
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StoGuard[®] Waterproof Air Barrier Frame Construction

Rough Opening Protection with StoGuard Fabric and StoGuard Tape at Sill (for abuse-resistance at sill)

Date: March 2014



Notes:

- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat[®]
 - B) StoGuard VaporSeal[™]
 - C) Sto Gold Coat[®]

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

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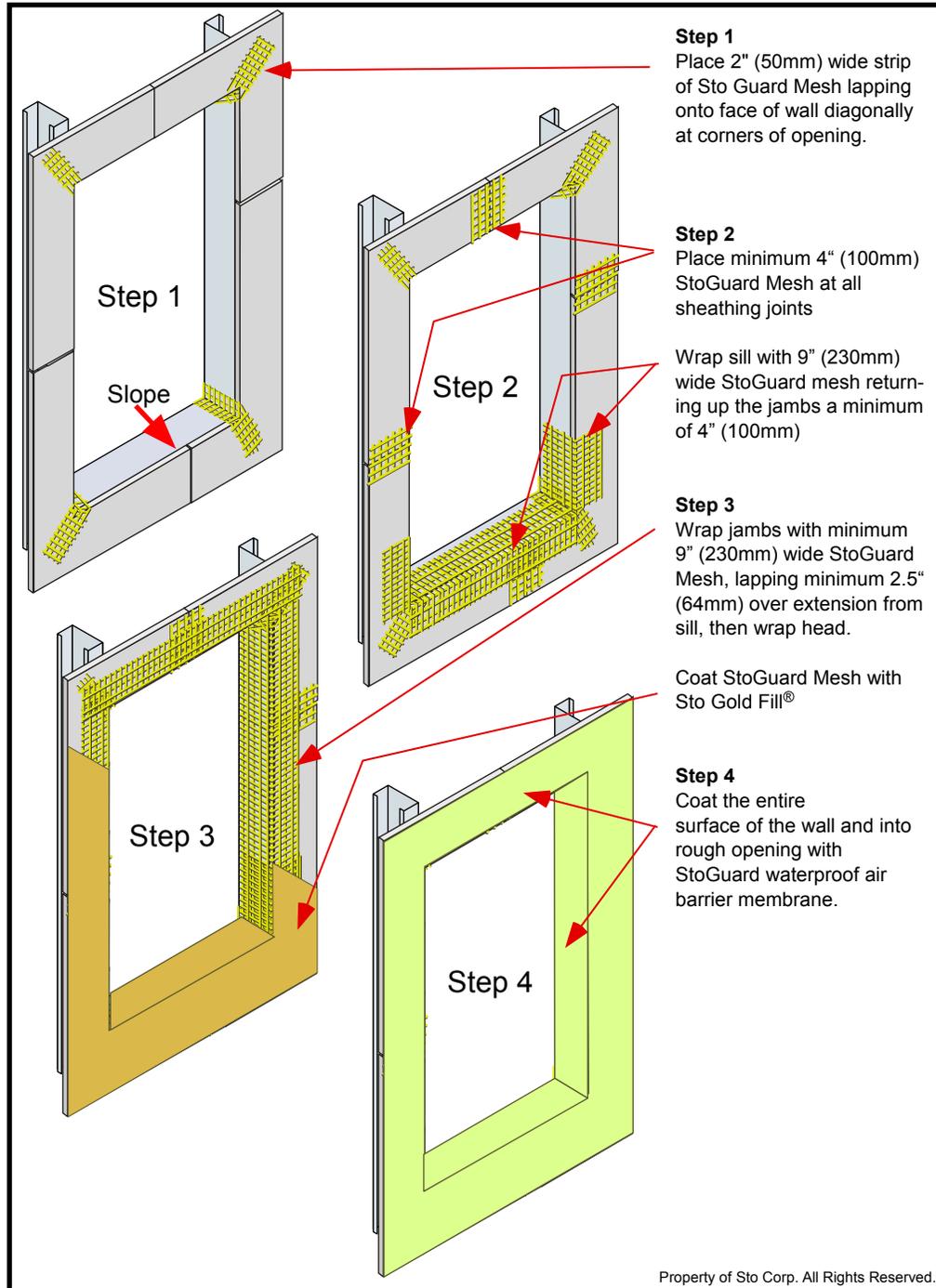
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StoGuard® Waterproof Air Barrier Frame Construction

Rough Opening Protection Sto Gold Fill® and StoGuard® Mesh

Date: March 2014



Notes:

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

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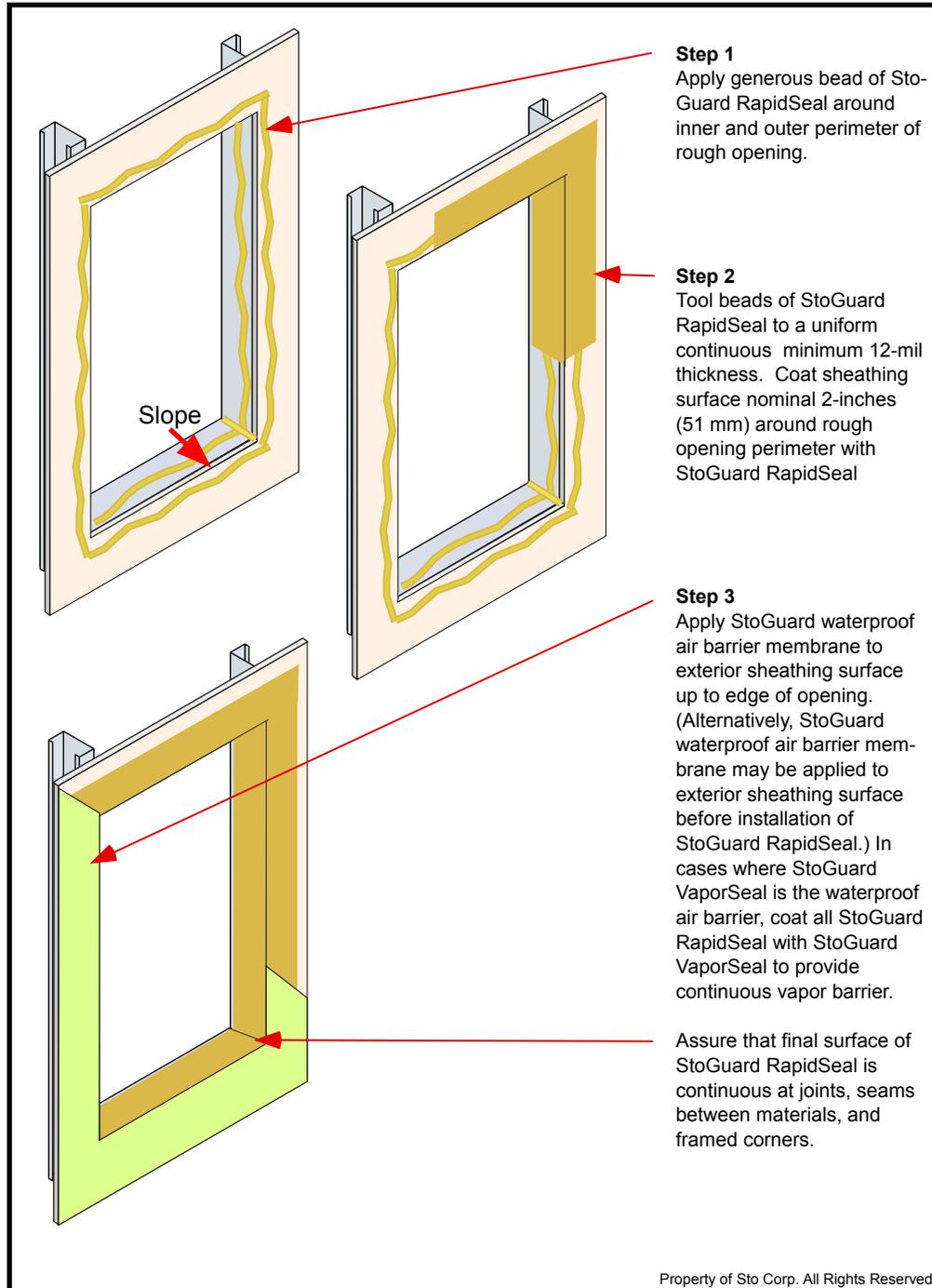


StoGuard® Waterproof Air Barrier Frame Construction

Rough Opening Protection with StoGuard® RapidSeal™

Detail No.: 20.20R

Date: March 2014



Notes:

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

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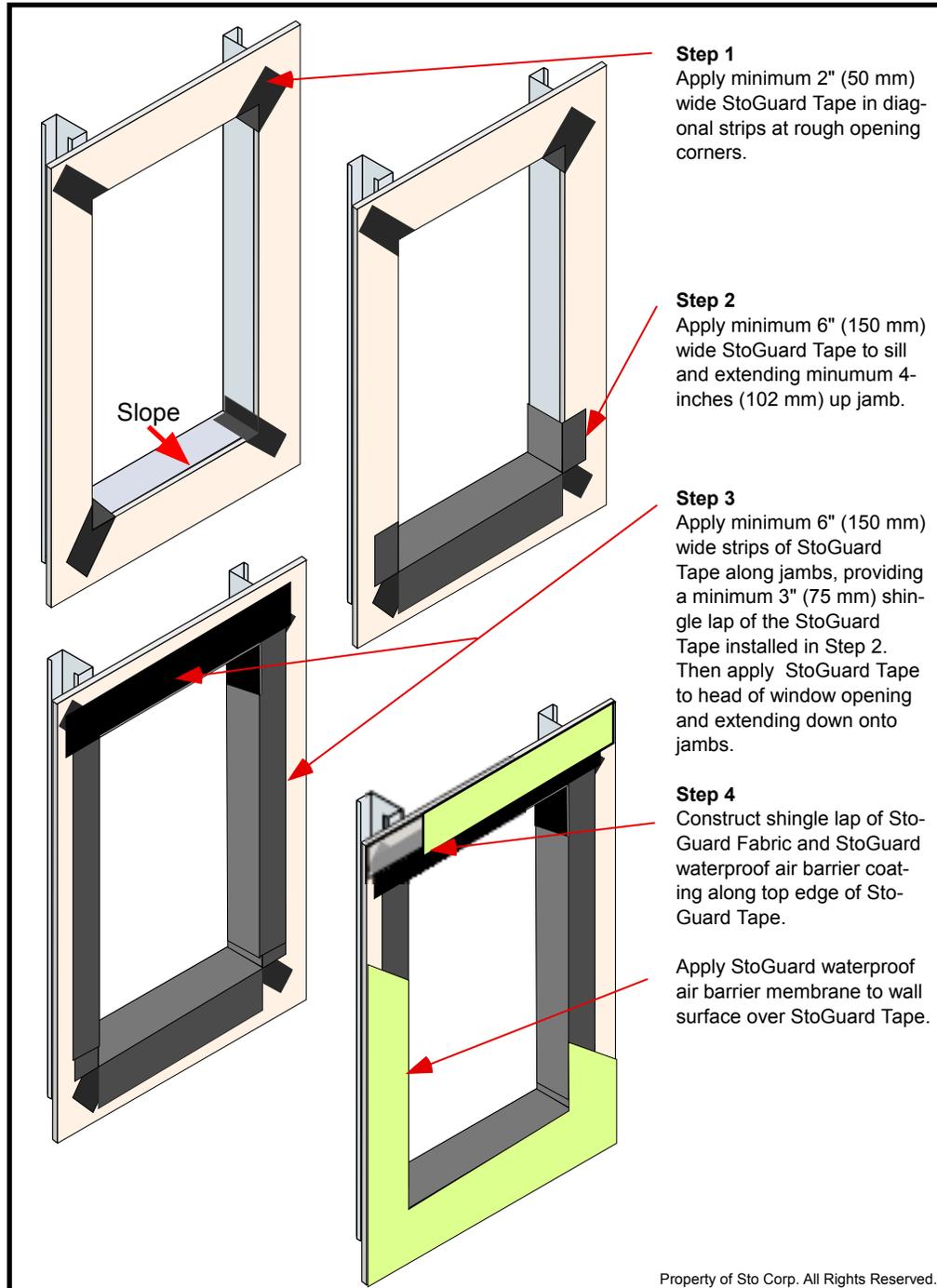
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StoGuard[®] Waterproof Air Barrier Frame Construction

Rough Opening Protection with StoGuard Tape

Date: March 2014



Notes:

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

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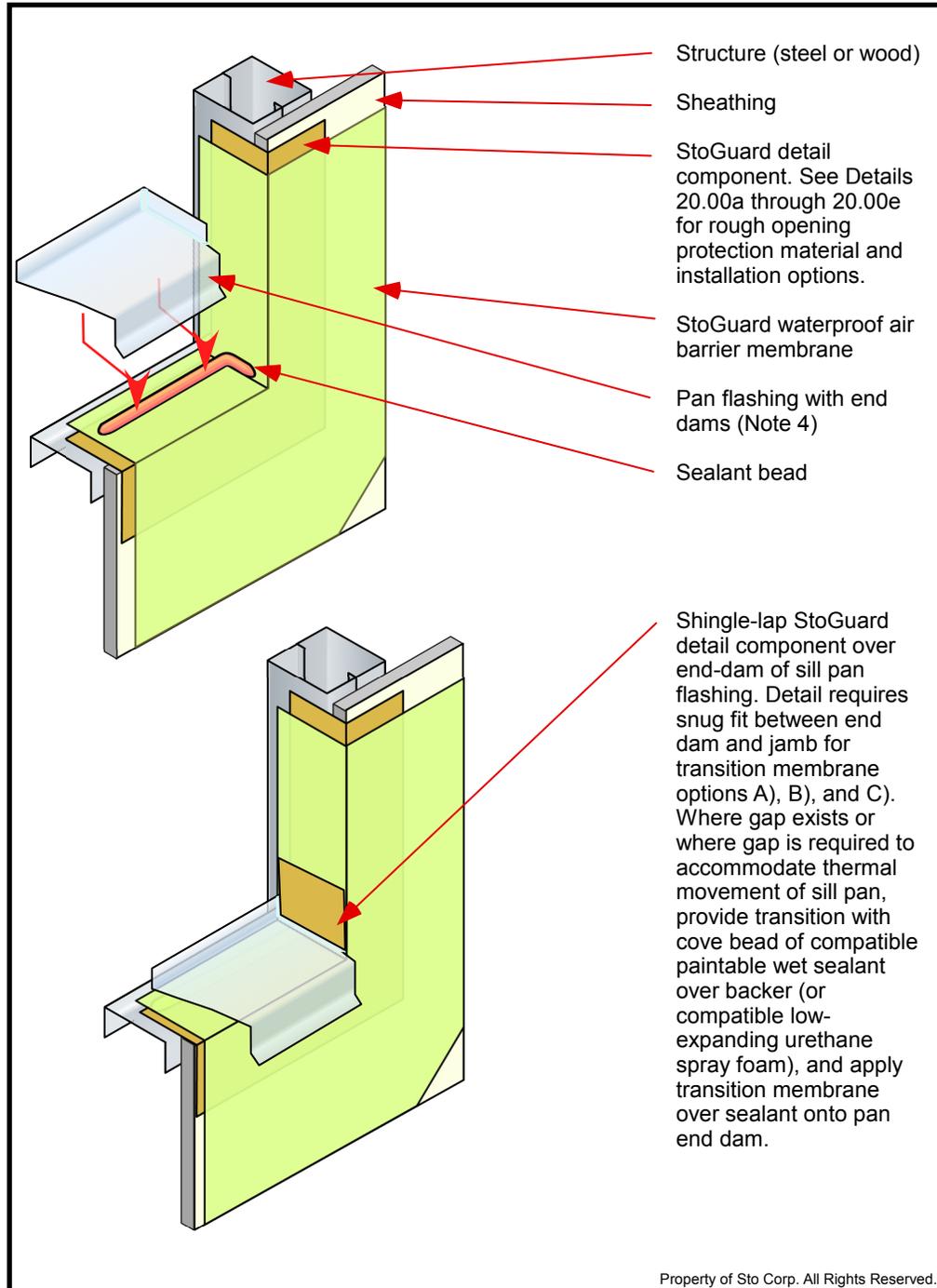
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StoGuard[®] Waterproof Air Barrier Frame Construction

Flashing Integration at Window Opening - Box Window

Detail No.: 20.23a

Date: March 2014



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidSeal™
 - B) Sto Gold Fill[®] with StoGuard Mesh (top coated with StoGuard waterproof air barrier)
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - D) StoGuard Tape (with StoGuard Fabric shingle lap)
- 2] Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means of positive slope to exterior at sill.
- 3] Prepare opening prior to the installation of the window or mechanical equipment.
- 4] Provide thermal break as needed in pan flashing design, depending on climate.
- 5] The complete installation of window or mechanical equipment should include an air seal between the object and the StoGuard protection inbound of the outer perimeter weather seal.
- 6] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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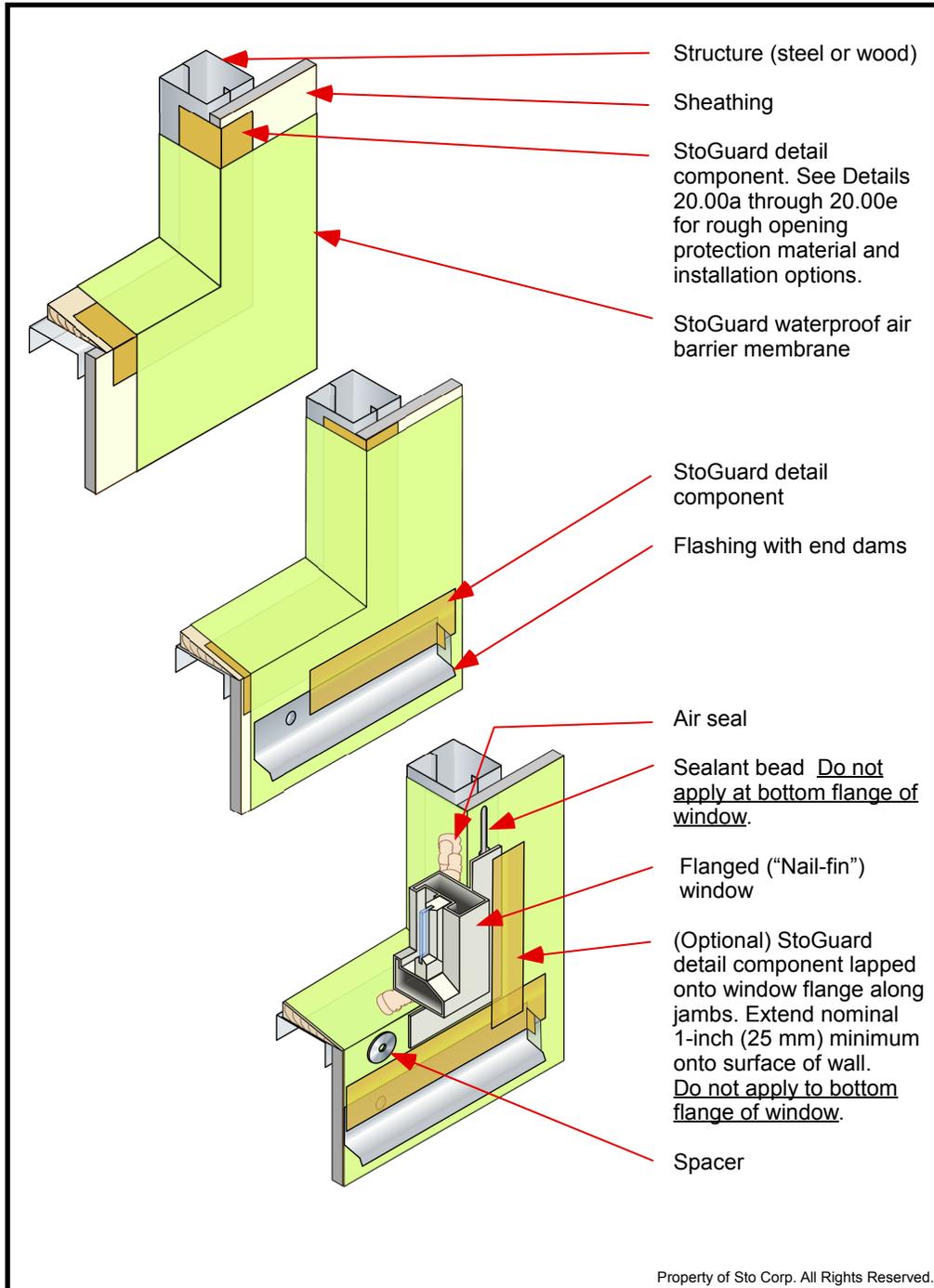
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StoGuard[®] Waterproof Air Barrier Frame Construction Concealed Flashing at Sill - Nail Fin Window



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidSeal™
 - B) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - D) StoGuard Tape (with StoGuard Fabric shingle lap.)
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®
(Use with StoTherm NExT EIF systems)
- 3] Prepare opening prior to the installation of the window or mechanical equipment.
- 4] The complete installation of window must include an air seal between the window and the StoGuard protection, inbound of the outer perimeter weather seal.
- 5] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

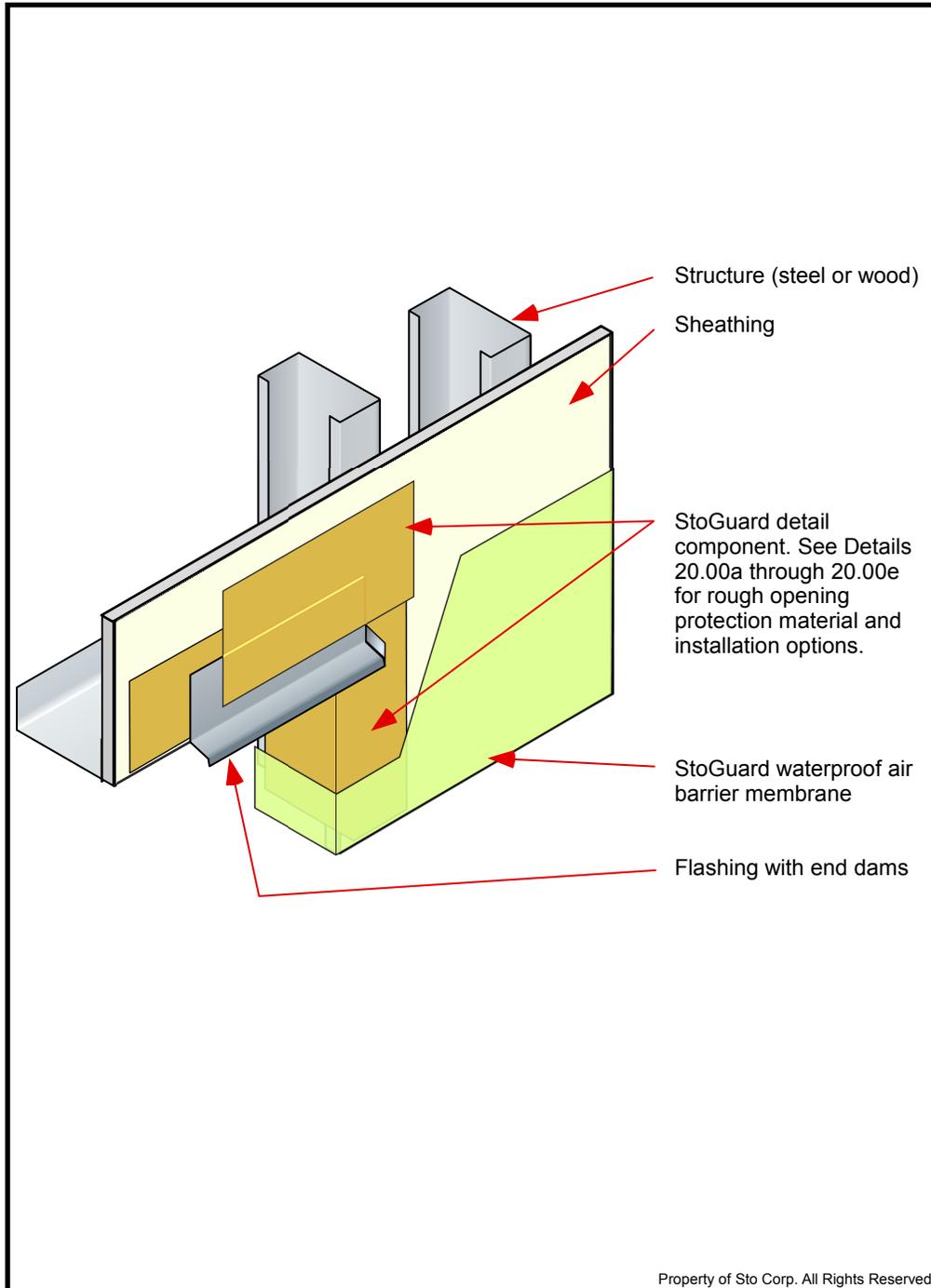
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StoGuard[®] Waterproof Air Barrier Frame Construction Window Head Flashing

Date: March 2014

**Notes:**

- 1] StoGuard detail component options:
 - A) StoGuard RapidSeal™
 - B) Sto Gold Fill[®] with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - D) StoGuard Tape (with StoGuard Fabric shingle lap)
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat[®]
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat[®]
 (Use with StoTherm NExT EIF systems)
- 3] Prepare opening prior to the installation of the window or mechanical equipment.
- 4] The complete installation of window must include an air seal between the window or mechanical equipment and the StoGuard protection, inbound of the outer perimeter weather seal.
- 5] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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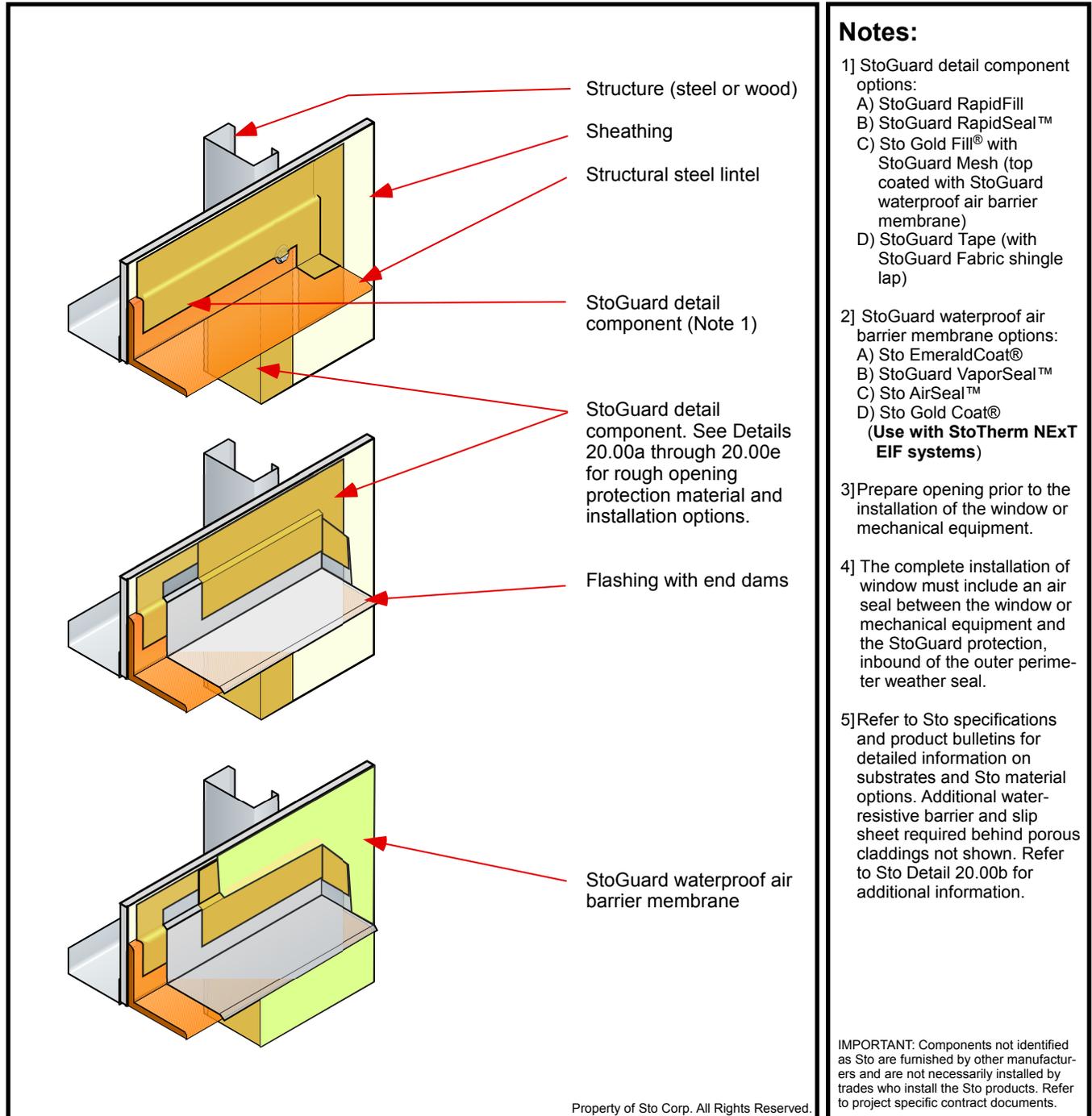
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StoGuard® Waterproof Air Barrier Frame Construction Head Flashing with Lintel

Date: March 2014



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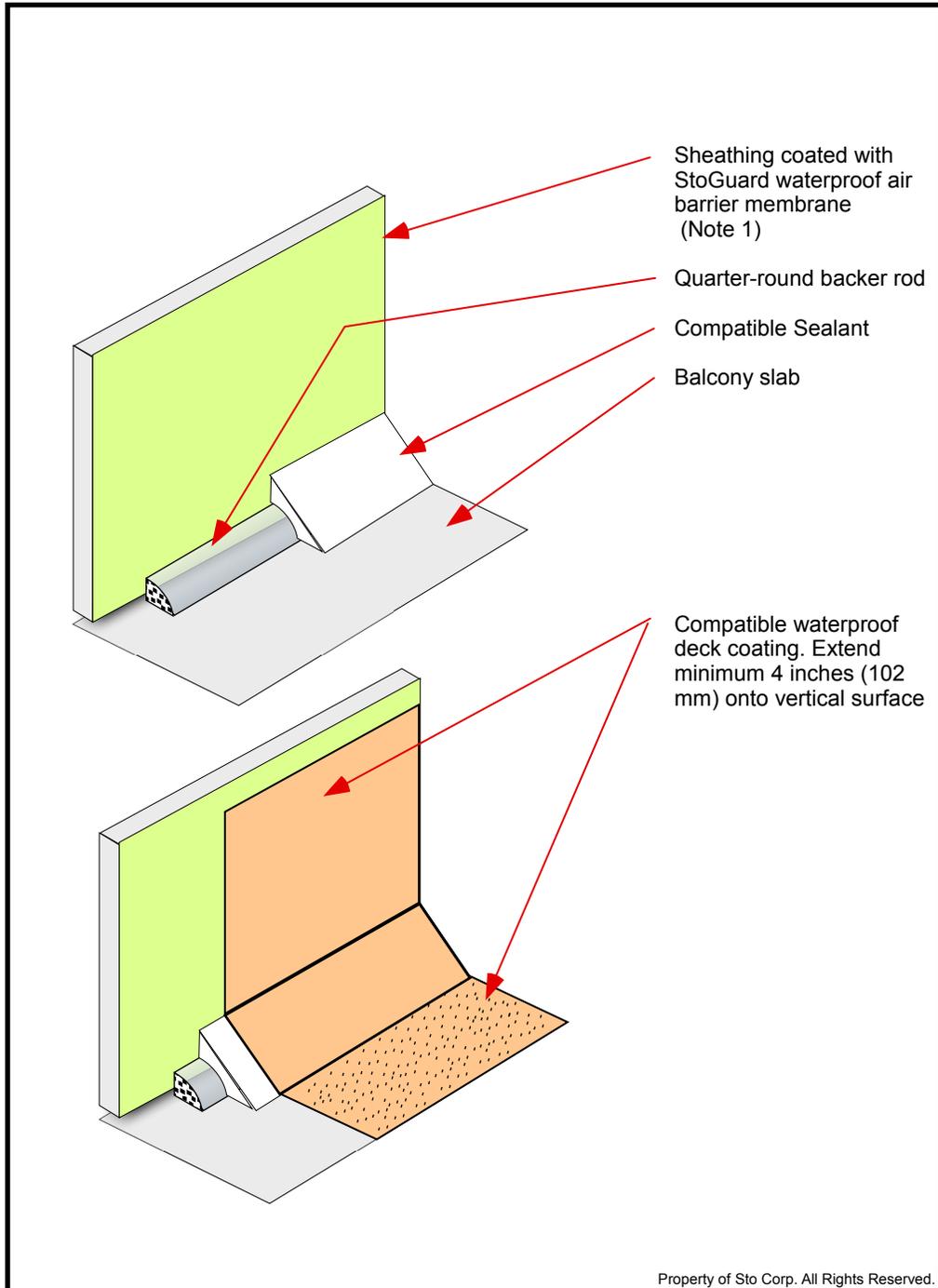
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StoGuard[®] Waterproof Air Barrier Frame Construction

Balcony Floor to Wall Transition with Deck Coating

Date: March 2014



Notes:

- 1] StoGuard waterproof air barrier membrane options:
 A) Sto EmeraldCoat[®]
 B) StoGuard VaporSeal[™]
 C) Sto AirSeal[™]
 D) Sto Gold Coat[®]
 (Use with StoTherm NExT EIF systems)
- 2] Provide positive slope to direct water away from wall. Verify compatibility of waterproof deck membrane materials with StoGuard waterproof air barrier membrane.
- 3] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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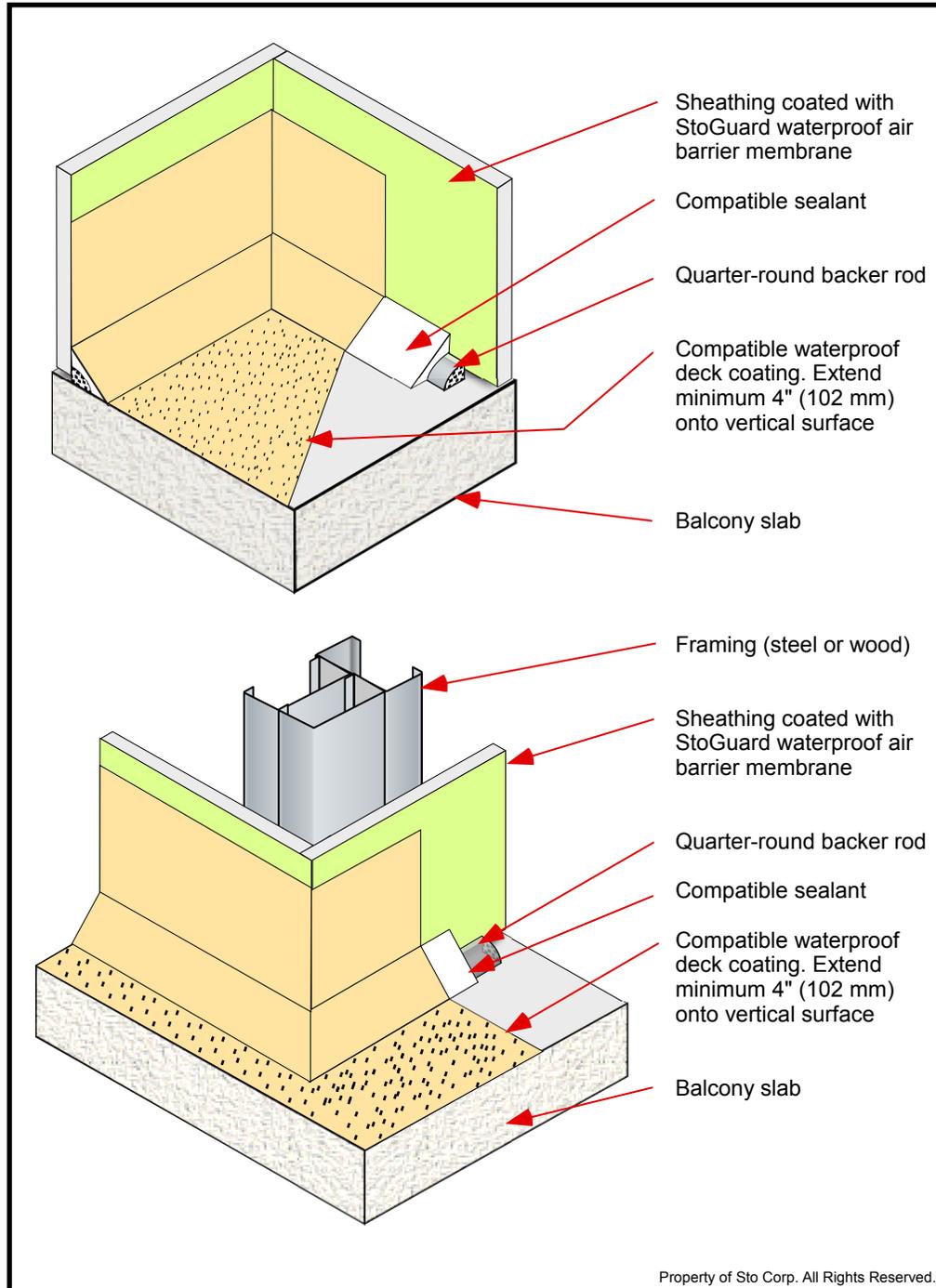


StoGuard[®] Waterproof Air Barrier Frame Construction

Detail No.: 20.30b

Balcony Floor to Wall Transition - Inside and Outside Corners

Date: March 2014



Notes:

- 1] StoGuard waterproof air barrier membrane options:
 A) Sto EmeraldCoat[®]
 B) StoGuard VaporSeal[™]
 C) Sto AirSeal[™]
 D) Sto Gold Coat[®]
 (Use with StoTherm NExT EIF systems)
- 2] Provide positive slope to direct water away from wall. Verify compatibility of balcony waterproofing materials with StoGuard waterproof air barrier membrane
- 3] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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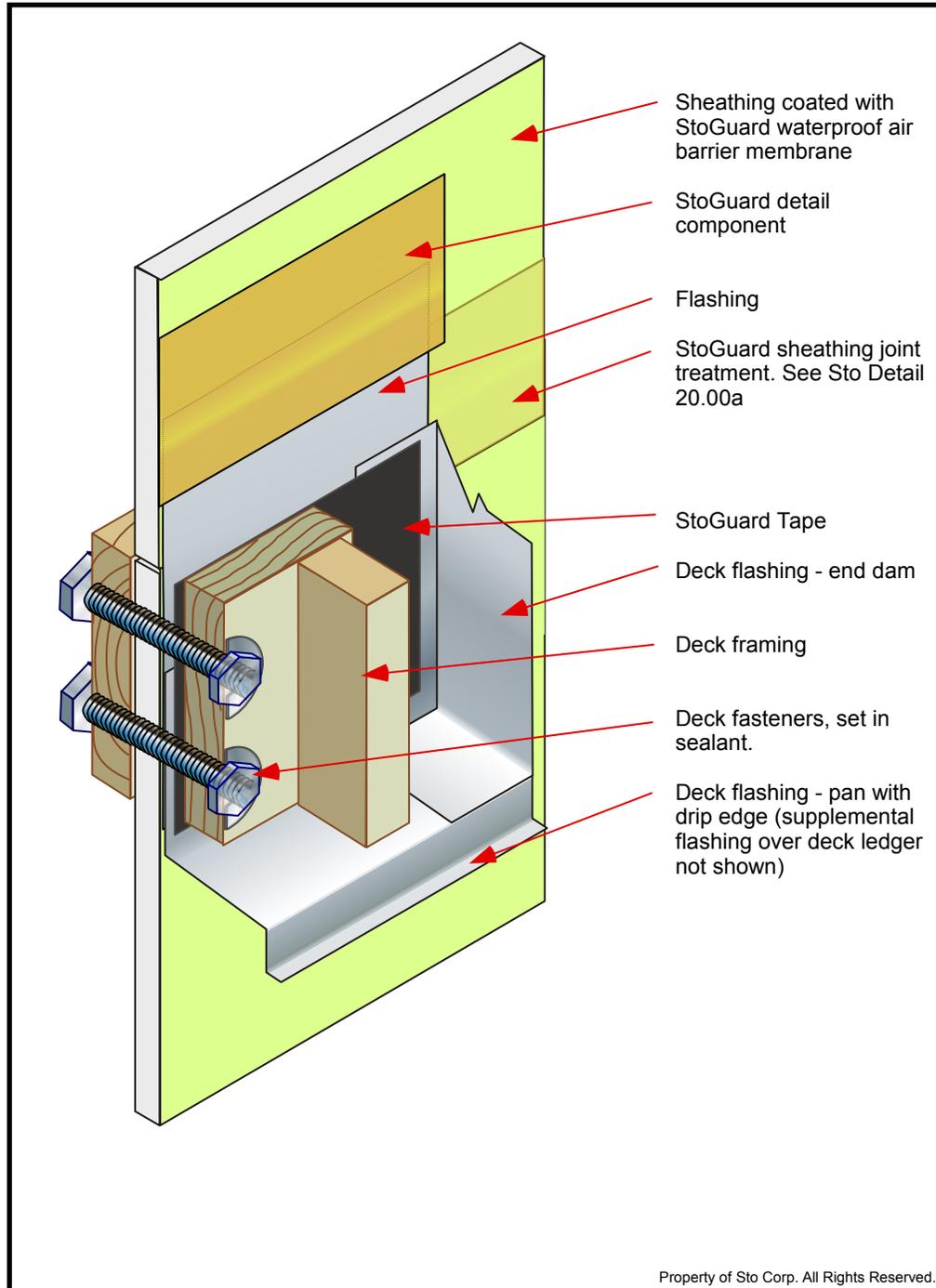
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StoGuard[®] Waterproof Air Barrier Frame Construction Deck Connection

Detail No.: 20.32

Date: March 2014



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidFill
 - B) StoGuard RapidSeal™
 - C) Sto Gold Fill[®] with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane).
 - D) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - E) StoGuard Tape (with StoGuard Fabric shingle lap).
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat[®]
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat[®]

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

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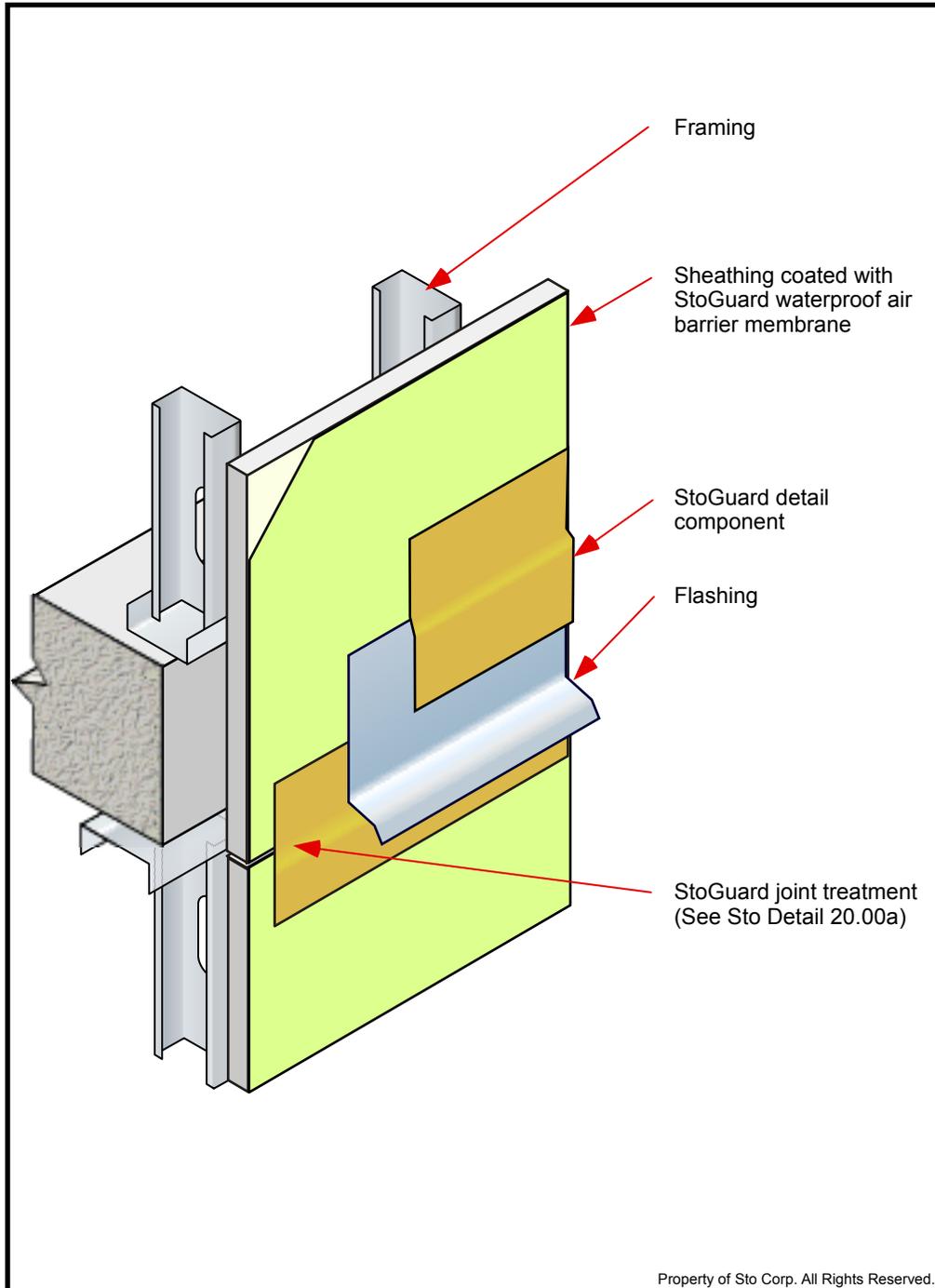
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StoGuard® Waterproof Air Barrier Frame Construction

Detail No.: 20.51a

Floor Line Flashing at Fixed Slab-to-Frame Condition

Date: March 2014



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidFill
 - B) StoGuard RapidSeal™
 - C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
 - D) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - E) StoGuard Tape (with StoGuard Fabric shingle lap)
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®

(Use with StoTherm NEXt EIF systems)
- 3] StoGuard joint treatment options:
 - A) StoGuard RapidFill
 - B) Sto Gold Fill® with StoGuard Mesh joints $\leq 1/8"$ (3 mm) wide
 - C) StoGuard Fabric with StoGuard waterproof air barrier membrane joints $\leq 1/8"$ (3 mm) wide
 - D) StoGuard RapidSeal™ with StoGuard Mesh - joints $\leq 1/4"$ (6 mm) wide
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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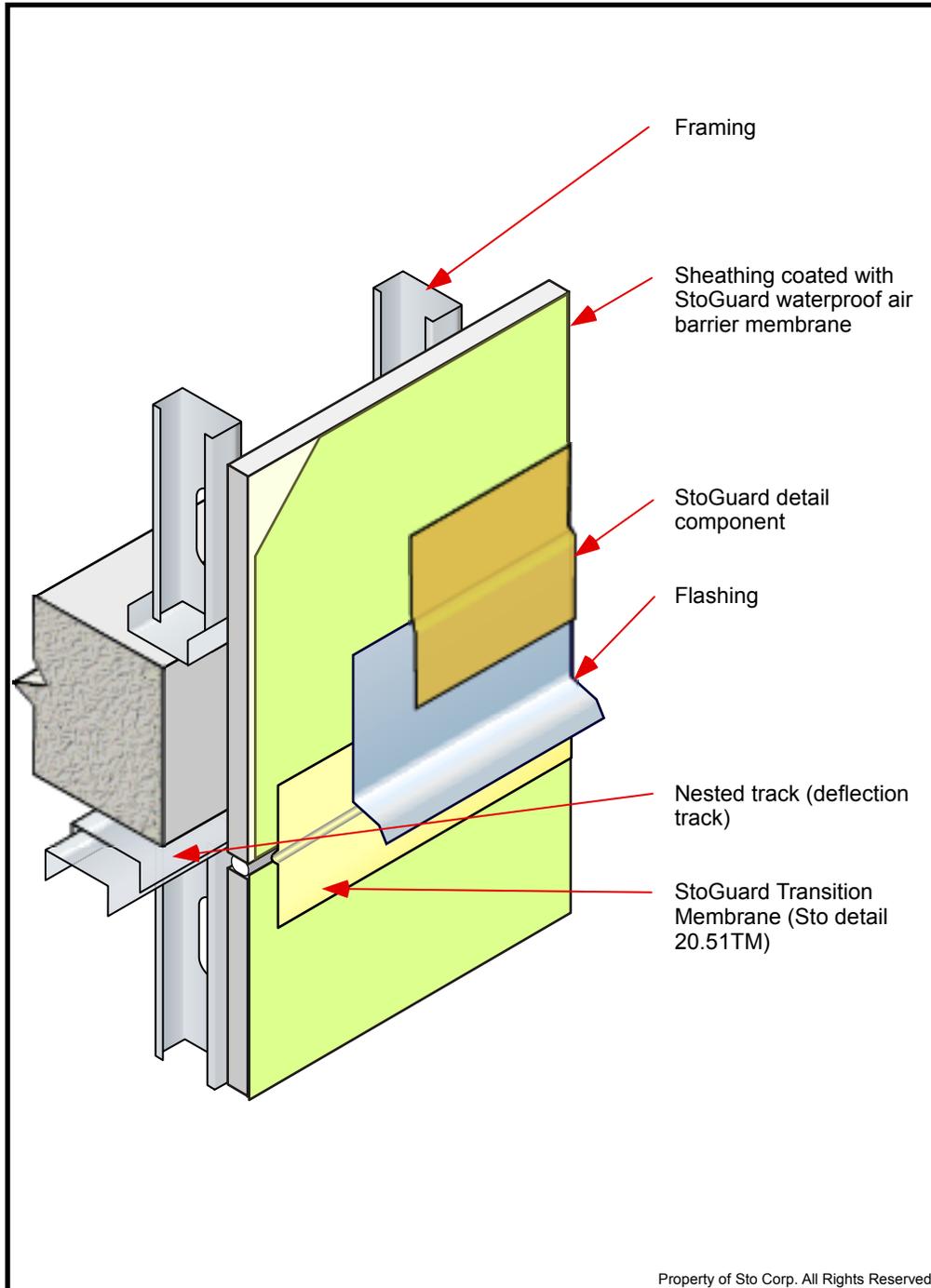
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StoGuard[®] Waterproof Air Barrier Frame Construction Floor Line with Deflection Track

Detail No.: 20.51b

Date: March 2014



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidFill
 - B) StoGuard RapidSeal™
 - C) Sto Gold Fill[®] with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
 - D) StoGuard Fabric with StoGuard waterproof air barrier membrane
 - E) StoGuard Tape (with StoGuard Fabric shingle lap)
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat[®]
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat[®]

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

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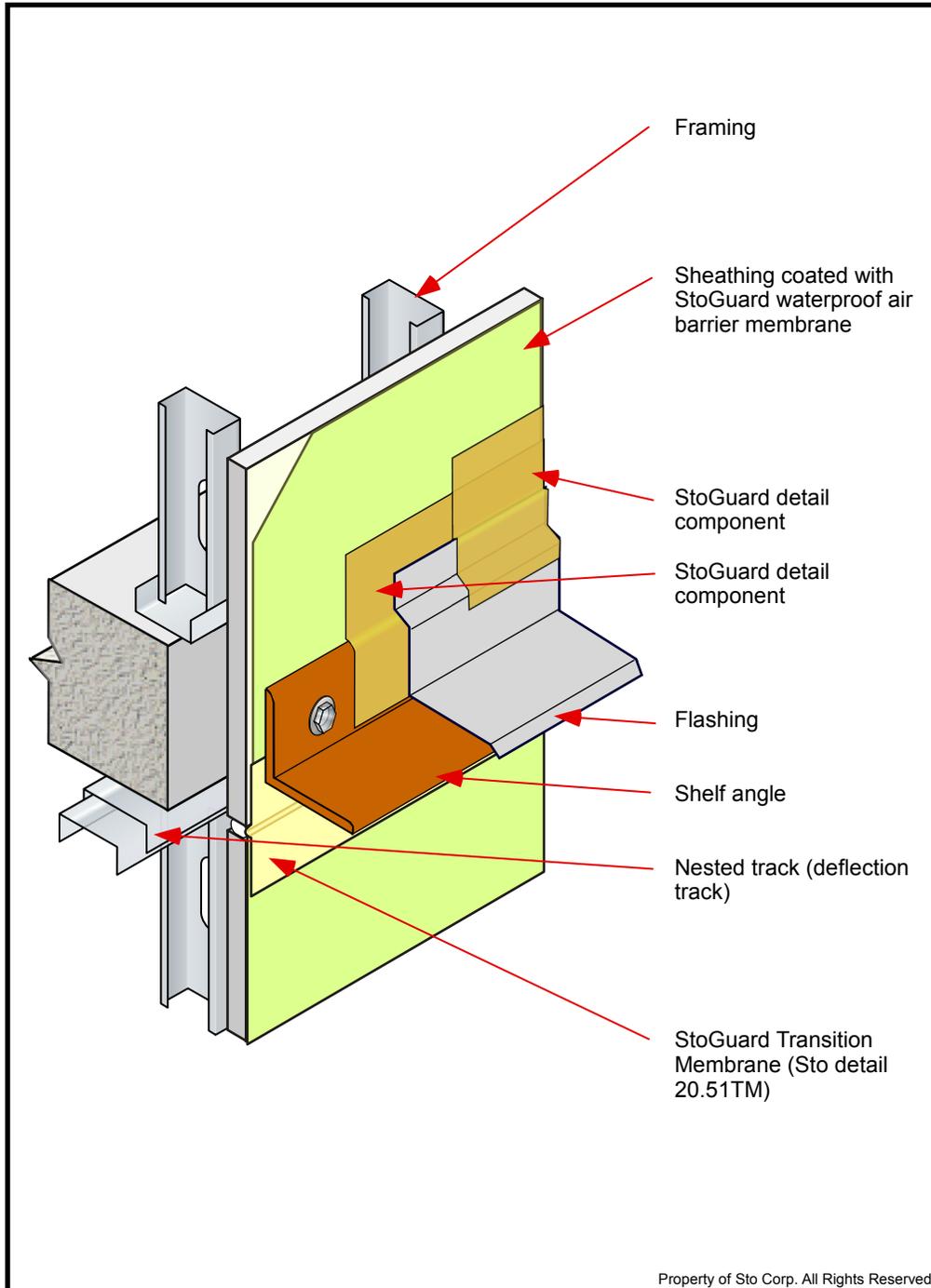
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StoGuard® Waterproof Air Barrier Frame Construction Shelf Angle at Floor Line

Date: March 2014

**Notes:**

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

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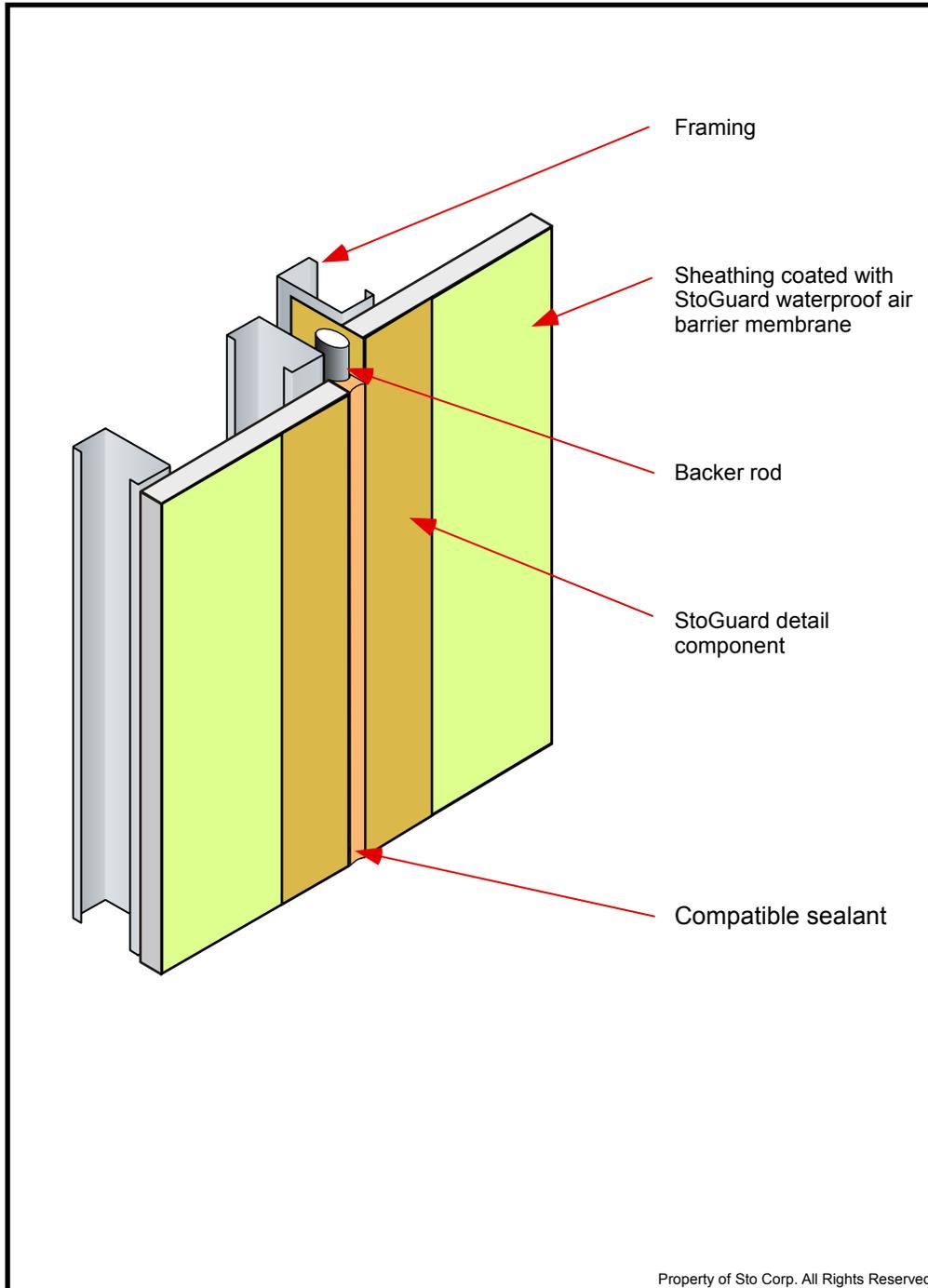


StoGuard[®] Waterproof Air Barrier Frame Construction

Detail No.: 20.52b

Vertical Through-Wall Expansion Joint with Wet Sealant

Date: March 2014



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidFill
 - B) StoGuard RapidSeal™
 - C) Sto Gold Fill StoGuard Mesh top coated with StoGuard waterproof air barrier membrane.
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat®
 - B) StoGuard VaporSeal™
 - C) Sto AirSeal™
 - D) Sto Gold Coat®
 (Use with StoTherm NExT EIF systems)
- 3] Specify a compatible sealant material that meets the movement requirements of the joint as defined by the joint sealant supplier.
- 4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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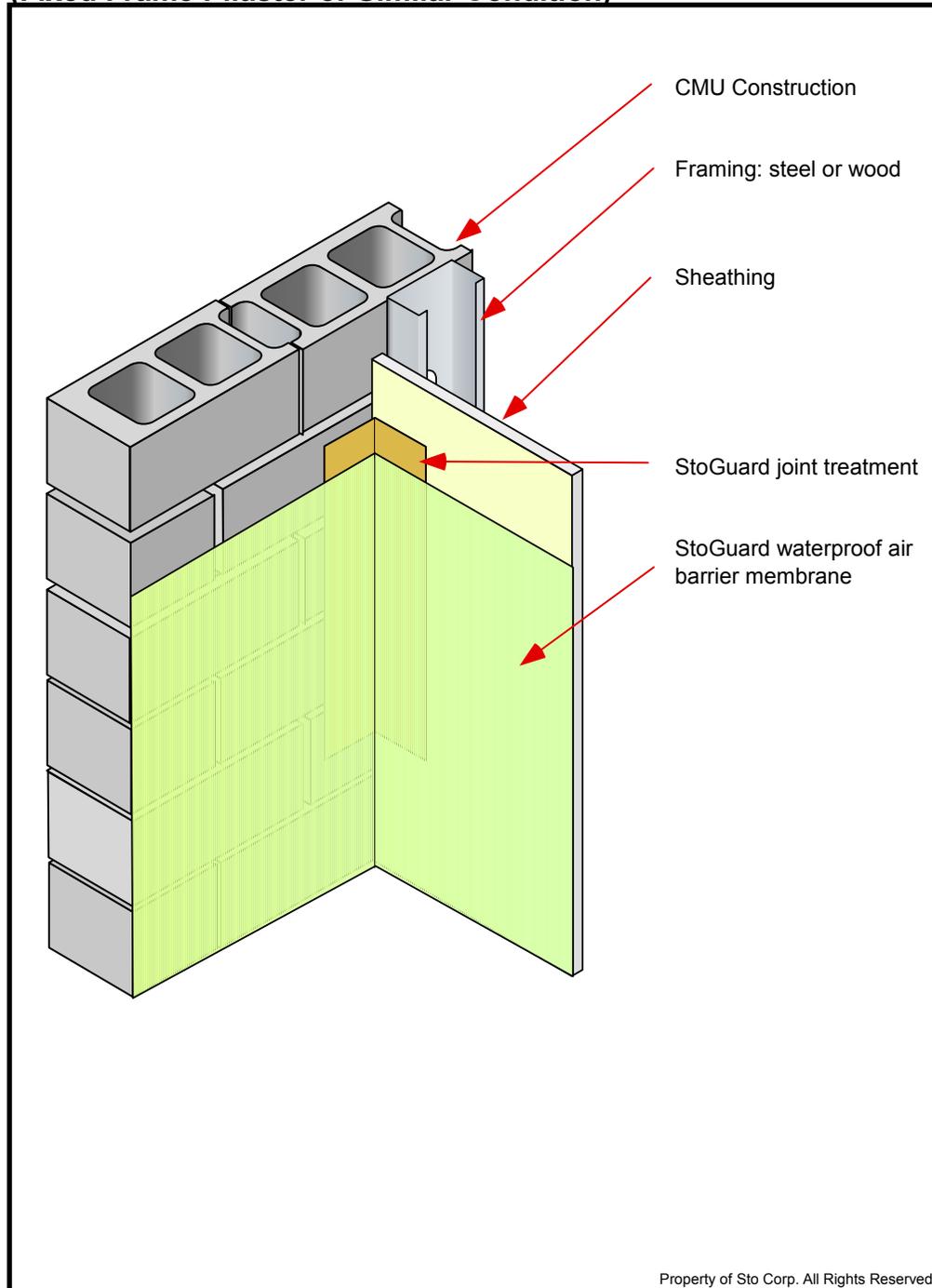
StoGuard[®] Waterproof Air Barrier Frame Construction

Inside Corner - Dissimilar Substrates

(Fixed Frame Pilaster or Similar Condition)

Detail No.: 20.53

Date: March 2014



Notes:

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

- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto EmeraldCoat[®]
 - B) StoGuard VaporSeal[™]
 - C) Sto AirSeal[™]
 - D) Sto Gold Coat[®]

(Use with StoTherm NExT EIF systems)

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

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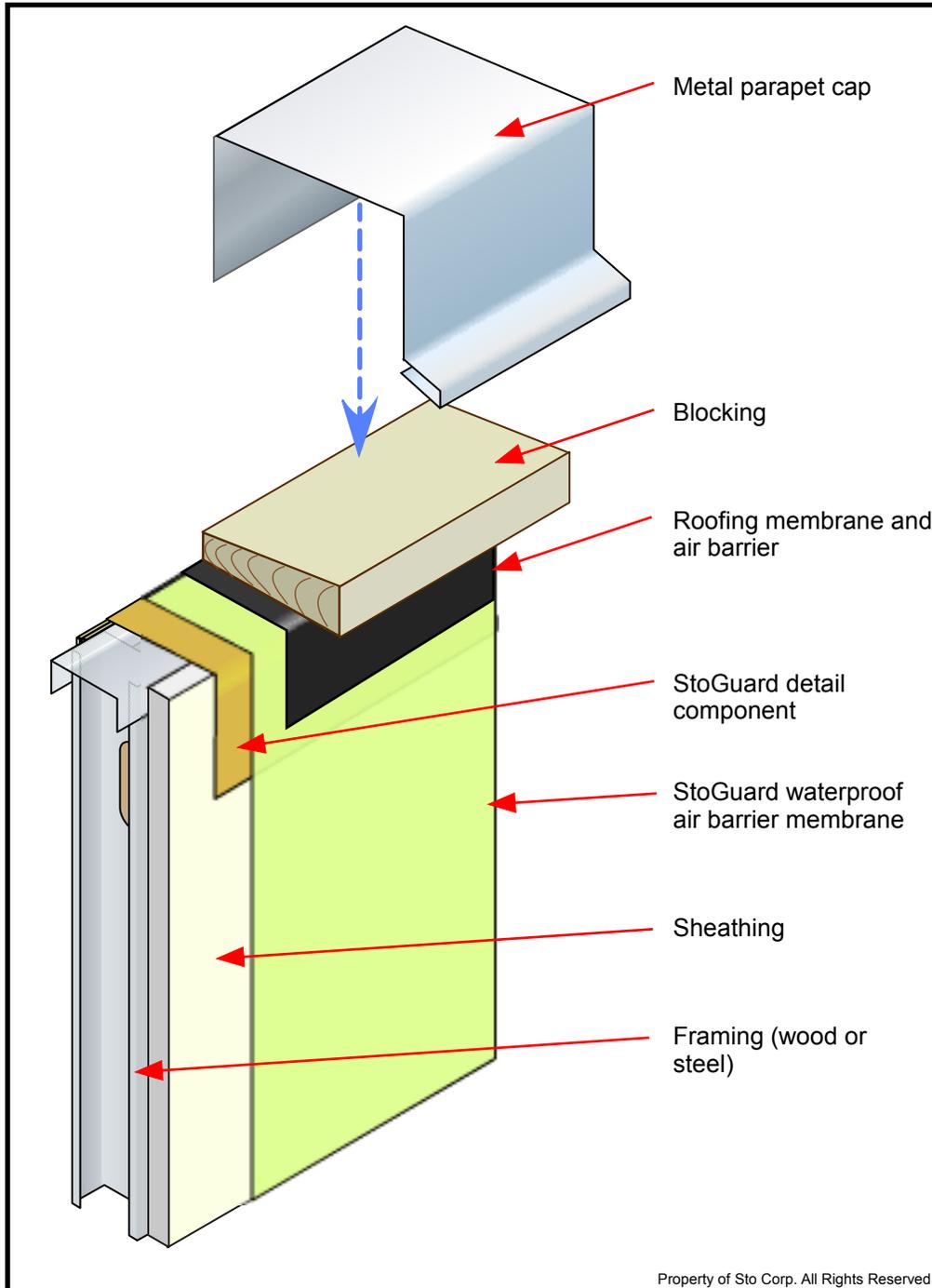
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StoGuard® Waterproof Air Barrier Frame Construction Termination at Parapet

Date: March 2014

**Notes:**

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

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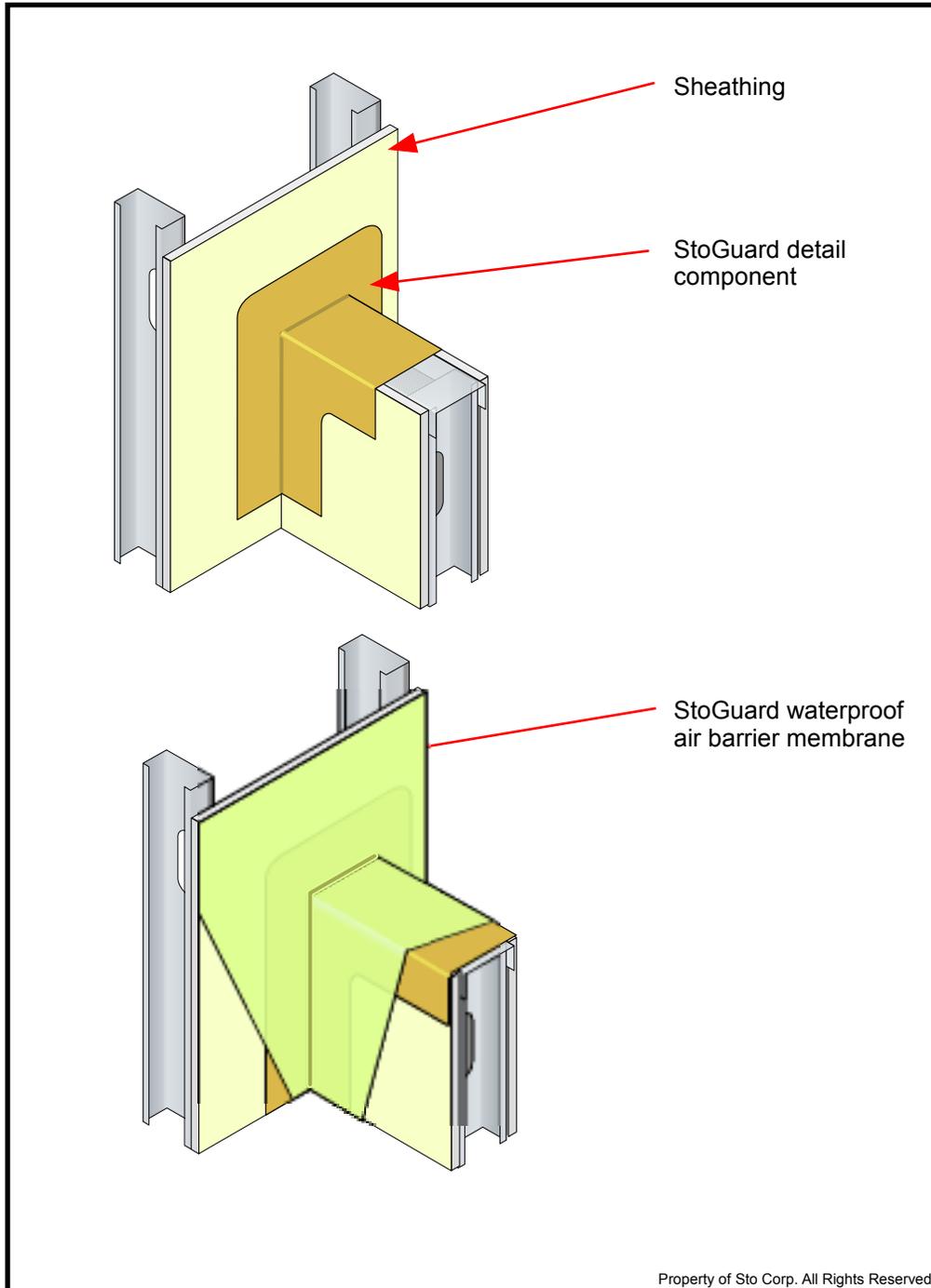
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StoGuard[®] Waterproof Air Barrier Frame Construction Saddle Wall Intersection

Detail No.: 22.64

Date: March 2014



Notes:

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

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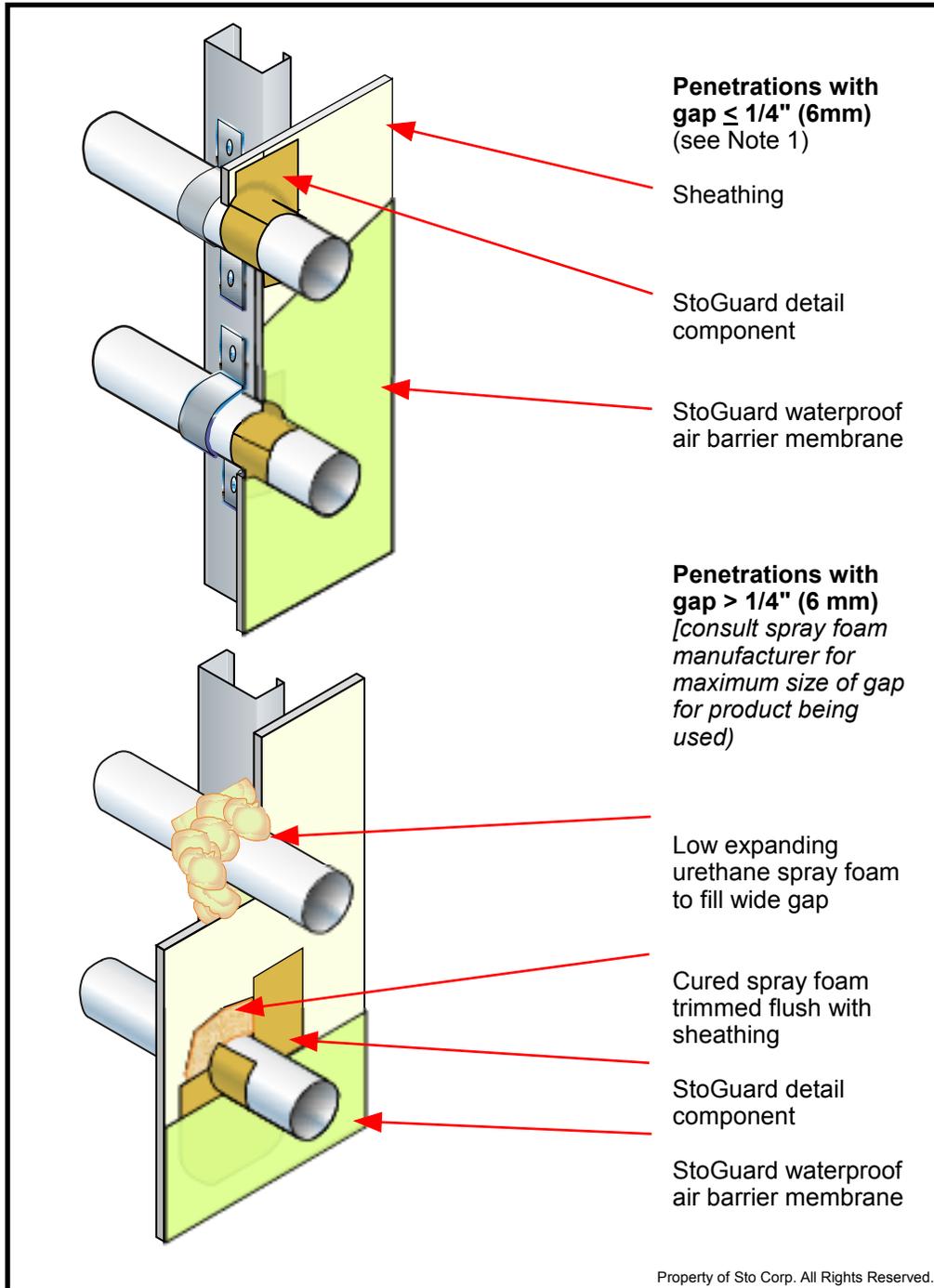
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StoGuard® Waterproof Air Barrier Frame Construction Mechanical Penetrations

Detail No.: 20.70

Date: March 2014



Notes:

- 1] StoGuard detail component options:
 - A) StoGuard RapidFill
 - B) StoGuard RapidSeal™ with StoGuard Mesh
 - C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
 - D) StoGuard Fabric with StoGuard waterproof air barrier membrane- (gaps $\leq 1/8"$ [3 mm])
 - E) StoGuard Tape (with StoGuard Fabric shingle lap)
- 2] StoGuard waterproof air barrier membrane options:
 - A) Sto Gold Coat® (vapor permeable)
 - B) Sto EmeraldCoat® (high perm)
 - C) StoGuard VaporSeal™ (vapor impermeable)
 - D) Sto AirSeal™ (high perm)
- 3] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistant barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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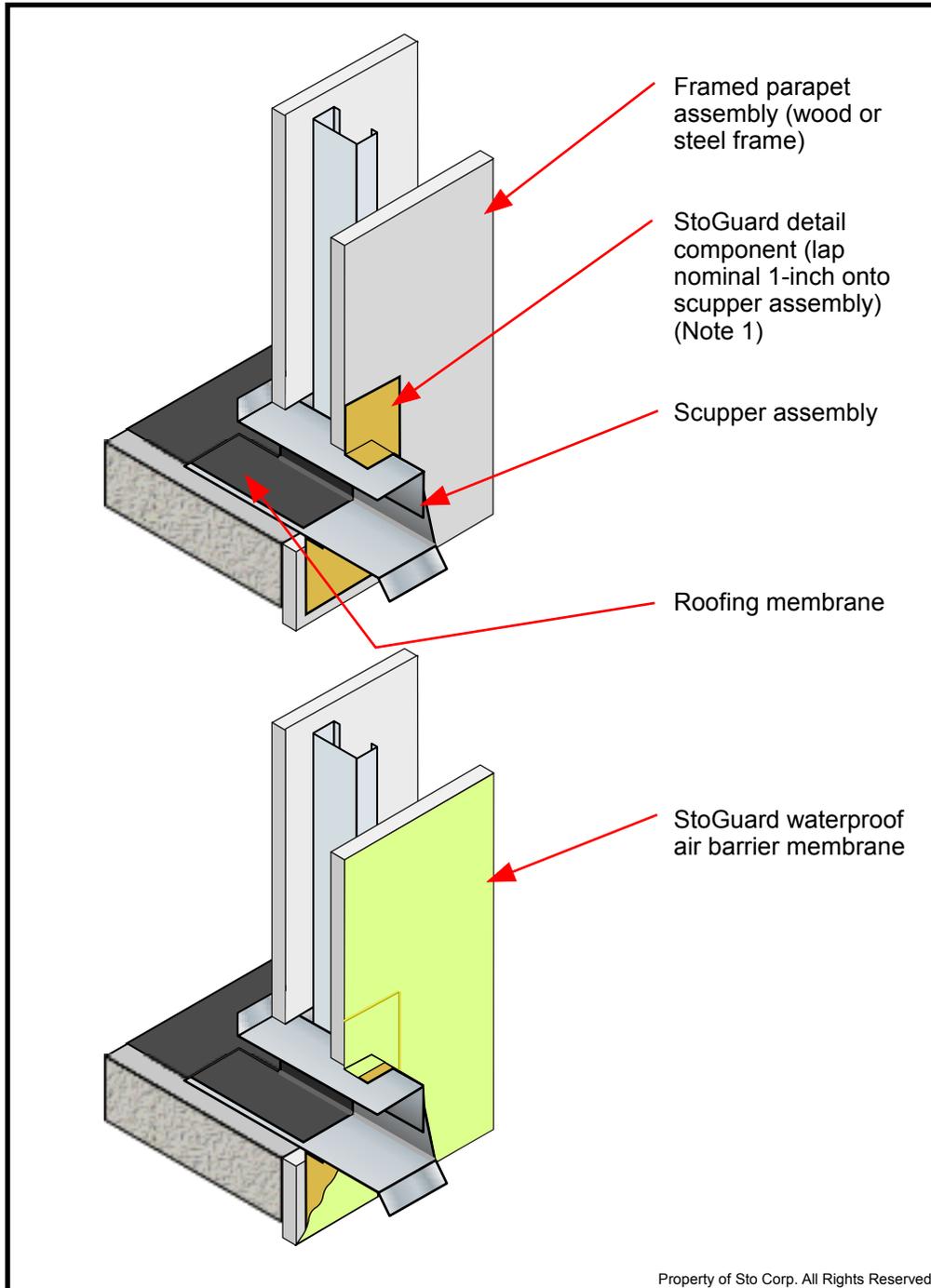
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StoGuard® Waterproof Air Barrier Frame Construction Scupper

Date: March 2014

**Notes:**

- 1] StoGuard detail component options:
 - A) StoGuard RapidFill
 - B) StoGuard RapidSeal™ with StoGuard Mesh
 - C) Sto Gold Fill® with StoGuard Mesh (top coated with StoGuard waterproof air barrier membrane)
 - D) StoGuard Fabric with StoGuard waterproof air barrier membrane-
(gaps ≤ 1/8" [3 mm])
 - E) StoGuard Tape (with StoGuard Fabric shingle lap)
- 2] Prepare opening prior to the installation of the window or mechanical equipment. Provide sill wedge or other means of positive slope to exterior at sill.
- 3] Verify compatibility of roof membrane materials with StoGuard.
- 4] Verify continuity of roof membrane to waterproof air barrier interface.
- 5] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options. Additional water-resistive barrier/slip sheet required behind some claddings not shown. Refer to Sto Detail 20.00b for additional information.

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