

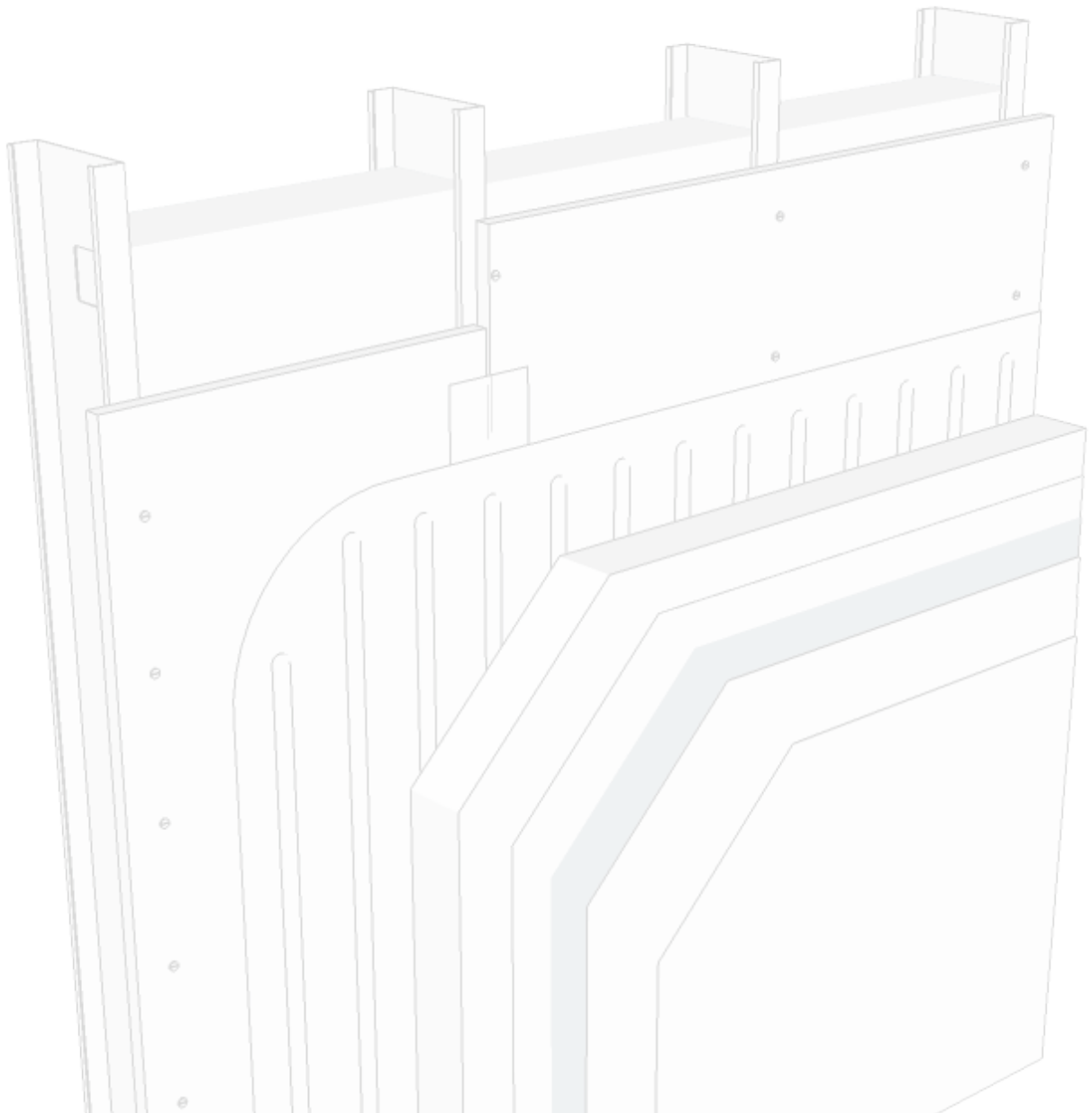
Detail Booklet

StoTherm® ci Mineral

Series 56s.xx CAE

Steel Frame Construction

February 2019



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StoTherm®ci Mineral General Notes

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Structural - Wind and Axial Loads

1. Design for maximum allowable deflection normal to the plane of the wall of L/240.
2. Design for wind load in conformance with code requirements.
3. Frame Construction: space studs maximum 406mm (16 inches) on center using either 2x4 or 2x6 wood framing or minimum 18 gauge galvanized steel stud framing.
4. Maximum ultimate wind load resistance: positive 12.1 kPa (253 lb/ft²), negative 6.03 kPa (-126 lb/ft²). Refer to the Sto Design Guide for details of wind load resistance tested assemblies.

Fire

1. Insulation board is noncombustible as defined by CAN/ULC S114 with 0 flame spread and 0 smoke development (CAN/ULC S102).
2. Non-Combustible Construction: system is permitted in non-combustible construction, without sprinklers, setback or height limitations (other than wind load height restrictions).
3. Fire-Resistant Rated Construction: system maintains hourly fire resistance rating of concrete, concrete masonry, and non-load bearing steel frame wall assemblies.

Moisture Protection

1. Refer to Sto Tech Hotline No. **0403-BSc, Critical Detail Checklist for Wall Assemblies**, and No. **0603-BSc Moisture Control Principles for Design and Construction of Wall Assemblies**, for basic details and principles that must be employed in design and construction of wall assemblies to control moisture.
2. StoGuard functions as the air barrier and moisture barrier (AMB) in the system and conforms with the requirements of ASTM E2570, Standard Test Methods for Evaluating Water-Resistive Barrier (WRB) Coatings Used Under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage. The moisture protection provided by StoGuard protects walls against moisture damage from rain during the construction process and in the event of a breach in the wall cladding while in service. Flashing must always be integrated with the AMB in the wall assembly to direct water to the exterior of the cladding, not into the wall assembly, particularly at potential leak sources such as windows.
3. The function of an air barrier should not be confused with that of a vapour retarder. A vapour retarder is placed in the wall to resist differential vapour pressures, whereas the air barrier is designed to resist the structural live loads induced by air pressure difference.

(continued on next page)

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Moisture Protection (cont'd)

Generally a vapour retarder is placed on the warm side of the wall. Specifically, it is placed on the interior side of the insulation in cold climates and on the exterior side of the insulation in warm humid climates to minimize condensation within the wall assembly.

A vapour retarder may not be necessary depending on the wall components, the range of temperature/humidity conditions inside and outside, and the mechanical ventilation of the building. A vapour retarder should not be used on the interior side of walls in warm humid climates. Refer to applicable building codes for further guidance.

4. The system functions to resist water penetration based on testing in accordance with ASTM E331, (Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference) and also drains incidental water in the event of a breach of the outer facing (lamina).
5. The system is "vapour open" with vapour permeable air and moisture barrier, insulation board, and lamina components. If a vapour barrier is required refer to information on StoGuard VapourSeal.
6. Precautions must be taken to keep insulation board dry during construction and while in service. R-value, adhesion and other properties can be compromised if insulation stays wet. During construction protect with tenting, base coat, or other protection to maintain insulation board integrity and properties.

Thermal Insulation

1. The system employs noncombustible continuous exterior mineral wool insulation in compliance with ASTM C612, Standard Specification for Mineral Fiber Block and Board Thermal Insulation, and as per CAN/ULC S716.1, Standard for Exterior Insulation and Finish Systems – System and Materials. The insulation comes in 51, 76, or 102mm (2, 3, or 4 inch) thicknesses with an RSI value of RSI-0.704 m²•K/W (R-4.0 ft²•h•°F / Btu per inch).
2. The system employs specially designed thermal dowels for attachment of the insulation to the supporting structure to minimize thermal bridging.

Impact Resistance

1. Heavy reinforcing mesh layer 373 g/m² (11 oz/yd²) is recommended for ground floors and other areas at risk of impacts or abuse. Alternative materials – stucco, stone, tile – may be more suitable in areas with heavy pedestrian traffic, vehicular traffic (e.g., porte cochere), and industrial areas.

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General Notes

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Acoustics

1. Outdoor-Indoor Transmission Class has been measured and calculated at 45 in accordance with ASTM E1332, Standard Classification for Rating Outdoor-Indoor Sound Attenuation, and ASTM E413, Classification for Rating Sound Insulation.

Aesthetics

1. Slight surface irregularities may be apparent in the finished wall surface for brief periods during the day in critical light. Smooth or fine texture finishes are discouraged. Minimum 1.5 mm (Medium) or heavier textures are preferred to hide surface imperfections. On some occasions surface mount dowels may “read” through the finished wall surface as the building ages. This can be remedied by recoating (or prevented by using countersunk dowels).

Joints

1. System requires joints at:
 - Expansion, deflection, control, or cold joints in supporting construction
 - Changes in building height
 - Dissimilar construction or materials
 - Floor lines in multi-level wood frame construction

Regulatory Compliance

1. StoGuard Air and Moisture Barrier: complies with LA-WRB performance requirements of CAN/ULC S716 and ASTM E2178 as per NBC Div. B Clause 5.4.1.2.(1)(a), Air Barrier Material Properties.
2. StoGuard Air and Moisture Barrier: meets the performance requirements of ASTM E2357 as per NBC Div. B Clause 9.36.2.9.(1)(c), Airtightness.
3. System: utilizing a noncombustible thermal insulation the system is exempt from full-scale assessment applicable to combustible cladding and/or insulations as outlined in Article 3.1.5.5. As such, it is also exempt from the Article’s building height limitations and may be used on buildings without height restriction (other than wind load height restrictions), including in retrofit installations where a building may be greater than 3 storeys and unsprinklered. Further, being a noncombustible cladding, comprised of noncombustible material (save minor combustible components), StoTherm ci Mineral may be used where spatial limitations restrict unprotected openings to <10% as per NBC Div. B Table 3.2.3.7.(1). Article 3.2.3.8. is not applicable as the system does not utilize a foam plastic insulation.

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Sustainability

1. Insulation board is made of 70% recycled content.
2. StoGuard Air and Moisture Barrier, Sto adhesive, and Sto lamina components comply with VOC requirements of SCAQMD Rule 1113.
3. System has high potential for LEED and other sustainability program credits based on efficient and effective use of continuous exterior insulation and resulting reductions in greenhouse gas emissions

Other

1. Always construct a site built mock-up using materials and sub-trades associated with the project to verify installation, sequencing, detailing, and aesthetics, and test the performance of the window/wall assembly and other selected critical detail areas for air leakage, water infiltration, and structural adequacy in relation to design wind pressures. Correct any deficiencies shown by the mock-up and testing before commencing work.
2. Refer to Product Bulletins, StoTherm ci Mineral Design Guide, Installation Guide, and guide Specifications and Details, for additional information.
3. The final design of the project is the responsibility of the Design Professional. Sto accepts no liability for design, engineering, or workmanship of any project. The notes provided herein are in addition to Sto Guide Details, Guide Specifications, and other items available at www.stocorp.com

For Questions or Assistance:

Sto Technical Services

Phone : +1 (800) 221-2397

Help Desk: helpdesk.stocorp.com

Website: www.stocanada.com

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StoGuard® Air and Moisture Barrier Product Use Information

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Fluid Applied Air and Moisture Barrier Products


 **Sto Gold Coat®** - Roller or spray applied vapor-permeable air & moisture barrier designed for use in StoTherm® ci Systems.


 **Sto VaporSeal R™** - Roller or spray applied air barrier and vapour barrier (< 60 metric perms). Provides superior protection against vapour diffusion, moisture intrusion and air leakage.


 **Sto Gold Coat® TA** - Trowel applied vapour-permeable air & moisture barrier for use behind siding, brick, stone, adhered veneer, and StoTherm® ci Systems.


Detail Component Products


 **Sto Gold Fill®** - Trowel applied joint treatment and air barrier material used to treat rough openings, corners, and sheathing joints with StoGuard® Mesh or Sto Detail Mesh.

 **Sto RapidGuard™** - One-component air barrier and waterproof material used to protect rough openings, sheathing joints, seams, cracks, penetrations, and other transitions in above grade wall construction.

 **StoGuard® Fabric** - Non-woven cloth reinforcement to treat joints, inside and outside corners and rough openings when embedded in Sto Gold Coat, Sto Emerald Coat, Sto AirSeal or Sto VaporSeal.

 **StoGuard® Mesh** - Glass fiber, self-adhesive mesh for use with Sto Gold Fill and Sto Gold Coat TA as part of the StoGuard assembly.

 **StoGuard® Transition Membrane** - Flexible air barrier material used to make connections with adjoining construction to achieve continuity of the air barrier assembly at dynamic joints and dissimilar materials.

 **StoGuard® Tape** - A self-adhering membrane composed of spun bond polyester fabric laminated to rubberized asphalt adhesive for use as rough opening protection at windows and doors. StoGuard® Primer required.

StoGuard® Air and Moisture Barrier Product Use Chart

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StoGuard® Products for Transition Components, Joint Treatments and Rough Opening Protection					
StoGuard® Product(s)	Transition Components				
	Sheathing Joints and Corners	Rough Opening Protection	Flashing and Penetration	Static Joints and Seams	Dynamic Joints and Seams
StoGuard® Fluid Applied Air & Moisture Barrier with StoGuard® Fabric	✓	✓	✓	✗ ¹	✗
Sto Gold Coat® TA with StoGuard® Mesh embedded	✓	✓	✓	✗ ¹	✗
Sto Gold Fill with StoGuard® Mesh or Sto Detail Mesh embedded	✓	✓	✓	✗ ¹	✗
Sto RapidGuard™	✓	✓	✓	✓	✗
StoGuard® Tape with StoGuard® Primer	✗	✓	✗	✗	✗
StoGuard® Transition Membrane embedded with any StoGuard® Fluid Applied Air & Moisture Barrier	✗	✗	✗	✓	✓

¹ Contact Sto Tech Services for more information.

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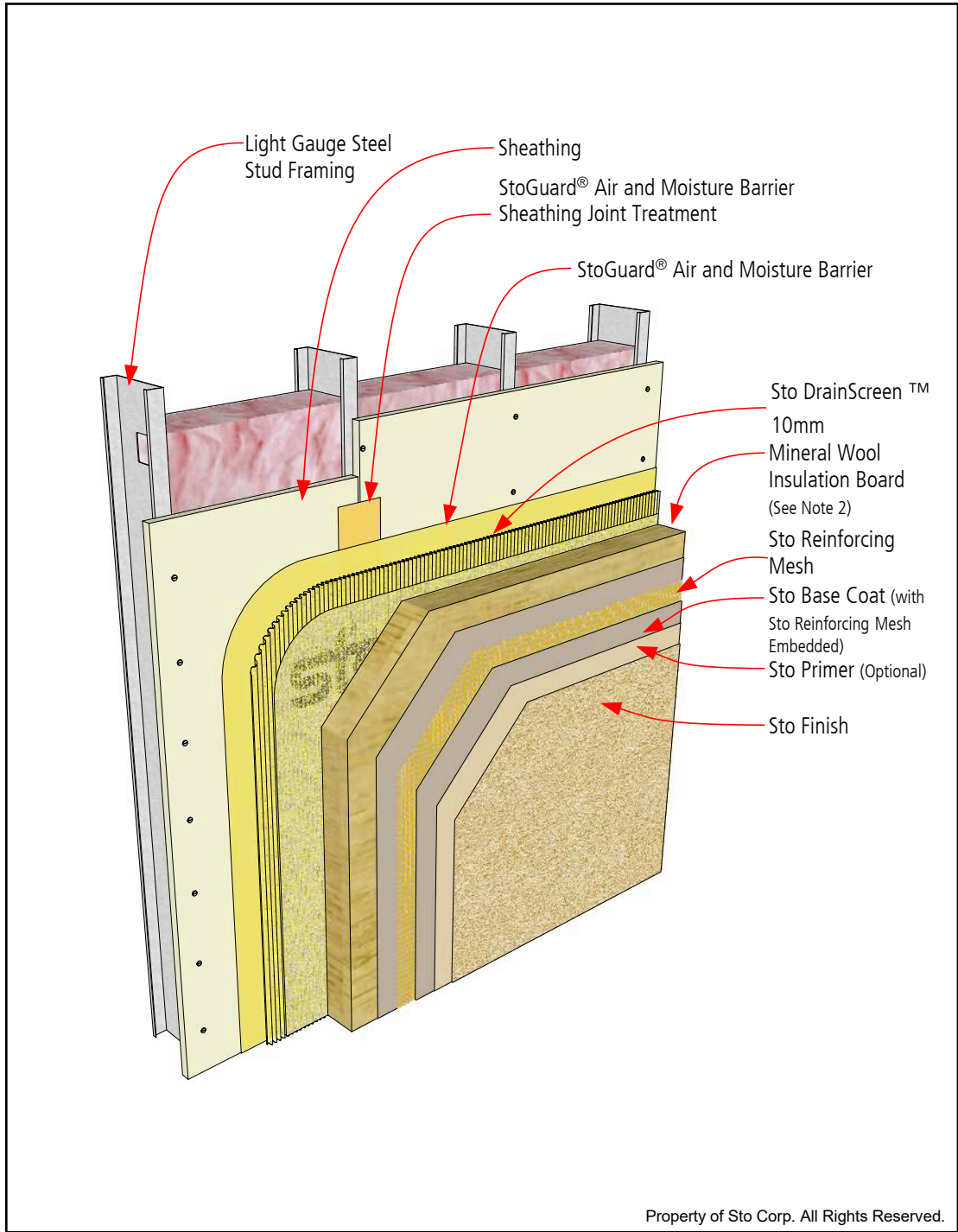
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StoTherm® ci Mineral System Components

Detail No.: 56s.00 CAE
Date: February 2019



Notes:

StoTherm ci Mineral System Components:

1. StoGuard Air and Moisture Barrier
2. Sto DrainScreen™ 10mm
3. Mineral Wool Insulation Board as specified by Sto
4. Sto Reinforcing Mesh
5. Sto Primer (optional)
6. Sto Base Coat
7. Sto Finish

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

2. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.

3. 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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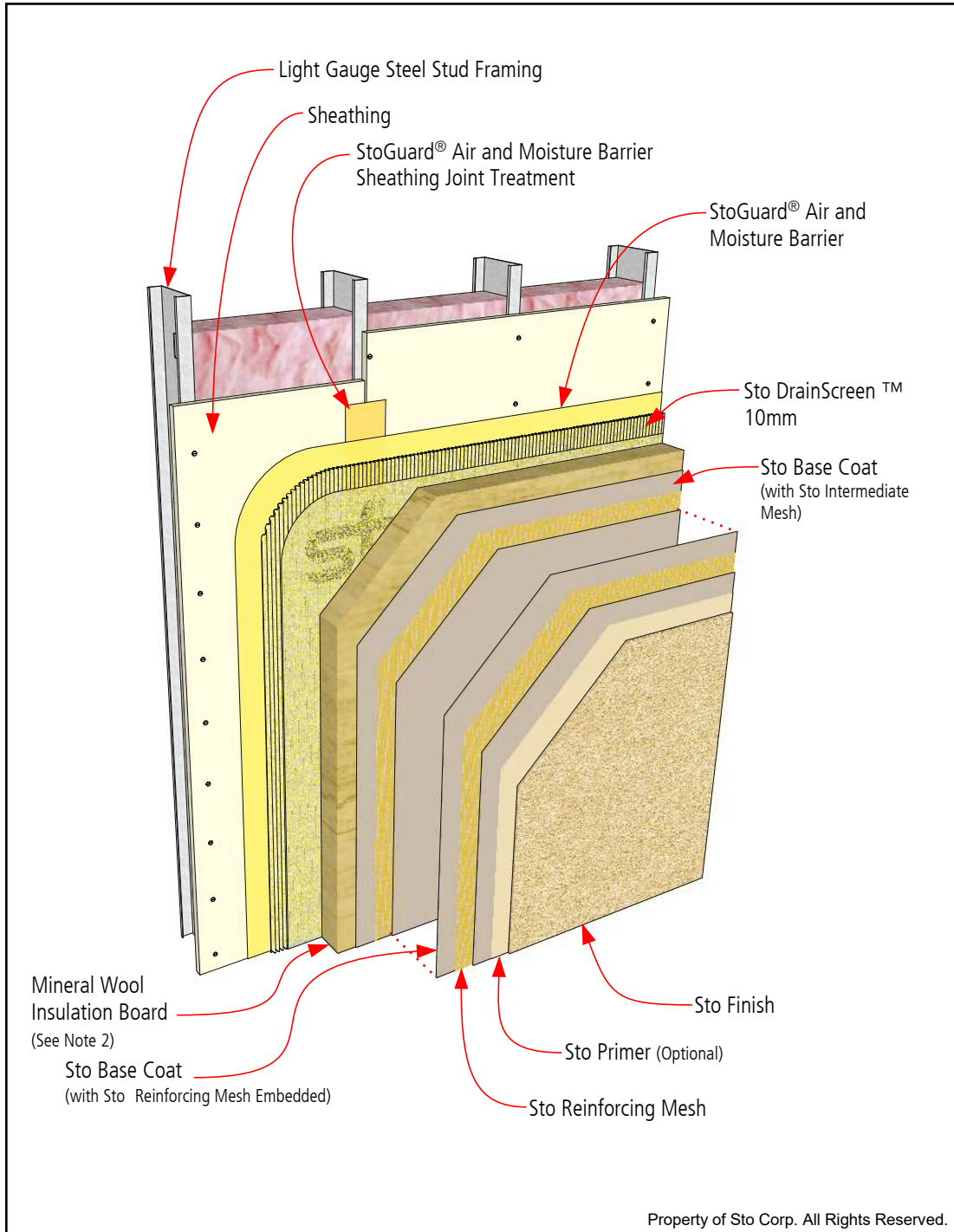
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StoTherm® ci Mineral System Components: Ultra-High Impact Resistance

Detail No.: 56s.01 CAE
Date: February 2019



Notes:

StoTherm ci Mineral System Components:

1. StoGuard Air and Moisture Barrier
2. Sto DrainScreen™ 10mm
3. Mineral Wool Insulation Board as specified by Sto
4. Sto Intermediate Mesh
5. Sto Reinforcing Mesh
6. Sto Primer (optional)
7. Sto Base Coat
8. Sto Finish

1. Ultra-high impact resistance recommended at all ground floors to a minimum height of 6'-0" (1.8 m) above finished grade and other areas accessible to pedestrian traffic, abnormal stress or impact.

2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.

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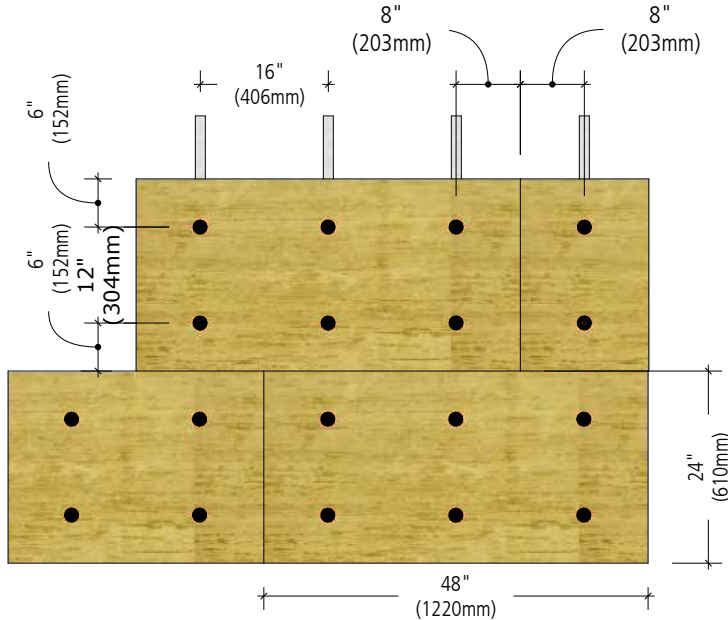
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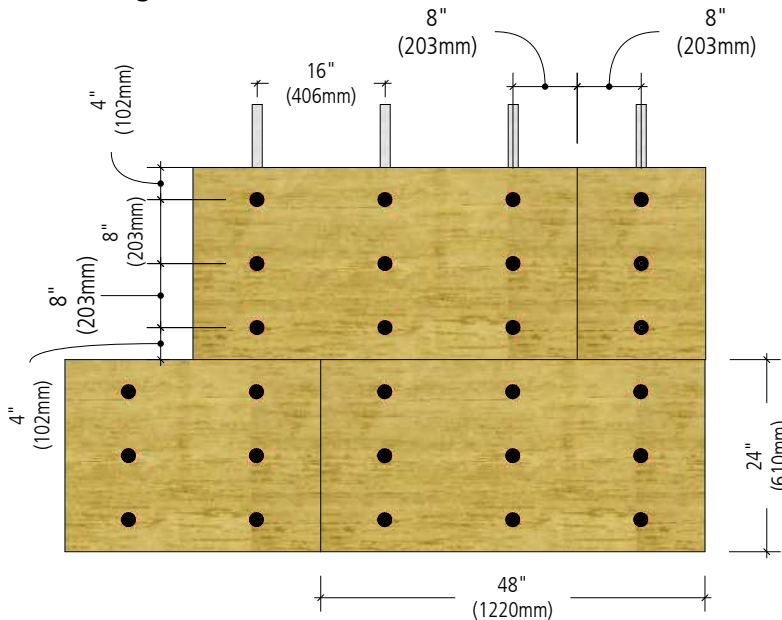
StoTherm® ci Mineral Mechanical Attachment Pattern and Components

Detail No.: 56s.02-1 CAE
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A. 6-Fastener Configuration on Frame



B. 9-Fastener Configuration on Frame



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Notes:

1. Additional framing may be needed to accommodate fastener spacing.
2. Allow adhesive to dry before adding fasteners.
3. 2" insulation will use surface mounted fasteners, 3" and 4" insulation will use countersunk fasteners.
4. Please refer to StoTherm ci Mineral Design Guide and StoTherm ci Mineral Install Guide for information on wind loads and fasteners
5. Refer to detail 56s.GN for general notes on the StoTherm ci Mineral system.
6. 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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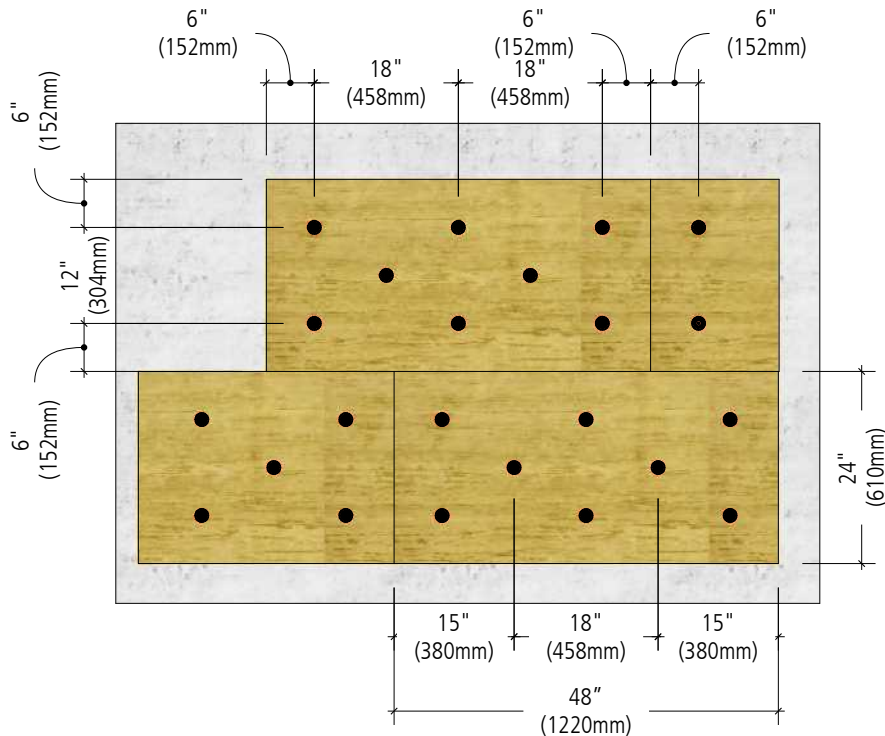
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StoTherm® ci Mineral Mechanical Attachment Pattern and Components

Detail No.: 56s.02-2 CAE
Date: February 2019

C. 8-Fastener Configuration / Solid Substrate



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Notes:

1. Allow adhesive to dry before adding fasteners.
2. 2" insulation will use surface mounted fasteners, 3" and 4" insulation will use countersunk fasteners.
3. Please refer to StoTherm ci Mineral Design Guide and StoTherm ci Mineral Install Guide for information on wind loads and fasteners
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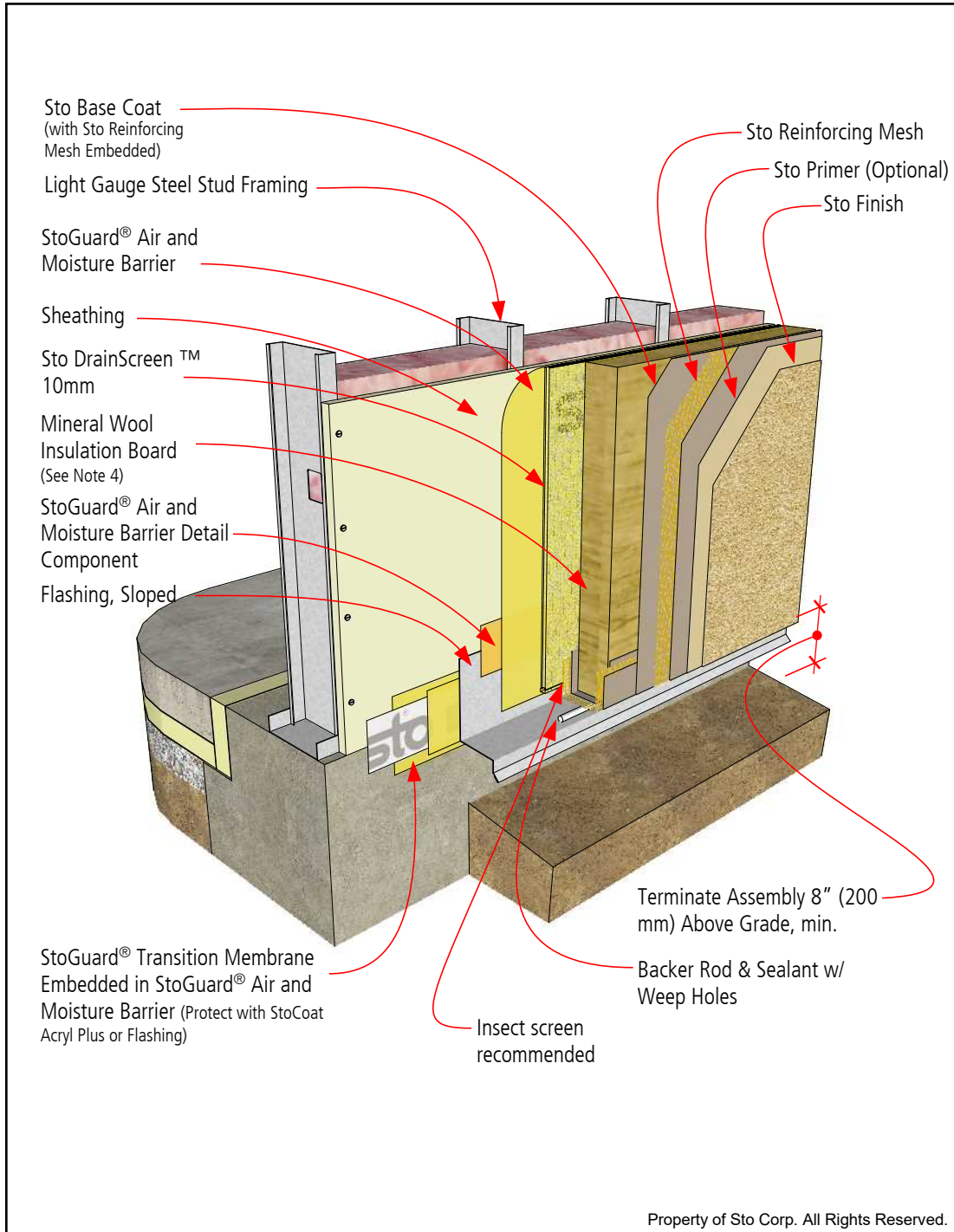
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StoTherm® ci Mineral Termination at Grade - Sheathing Flush with Foundation or Slab Edge

Detail No.: 56s.03A CAE
Date: February 2019



Notes:

1. Terminate system minimum 8" (200mm) above finished grade, higher for areas with heavy snow accumulations, or where required by code.
2. Ultra-high impact resistance recommended at all ground floors to a minimum height of 6'-0" (1.8 m) above finished grade and other areas accessible to pedestrian traffic, abnormal stress or impact.
3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
4. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
5. 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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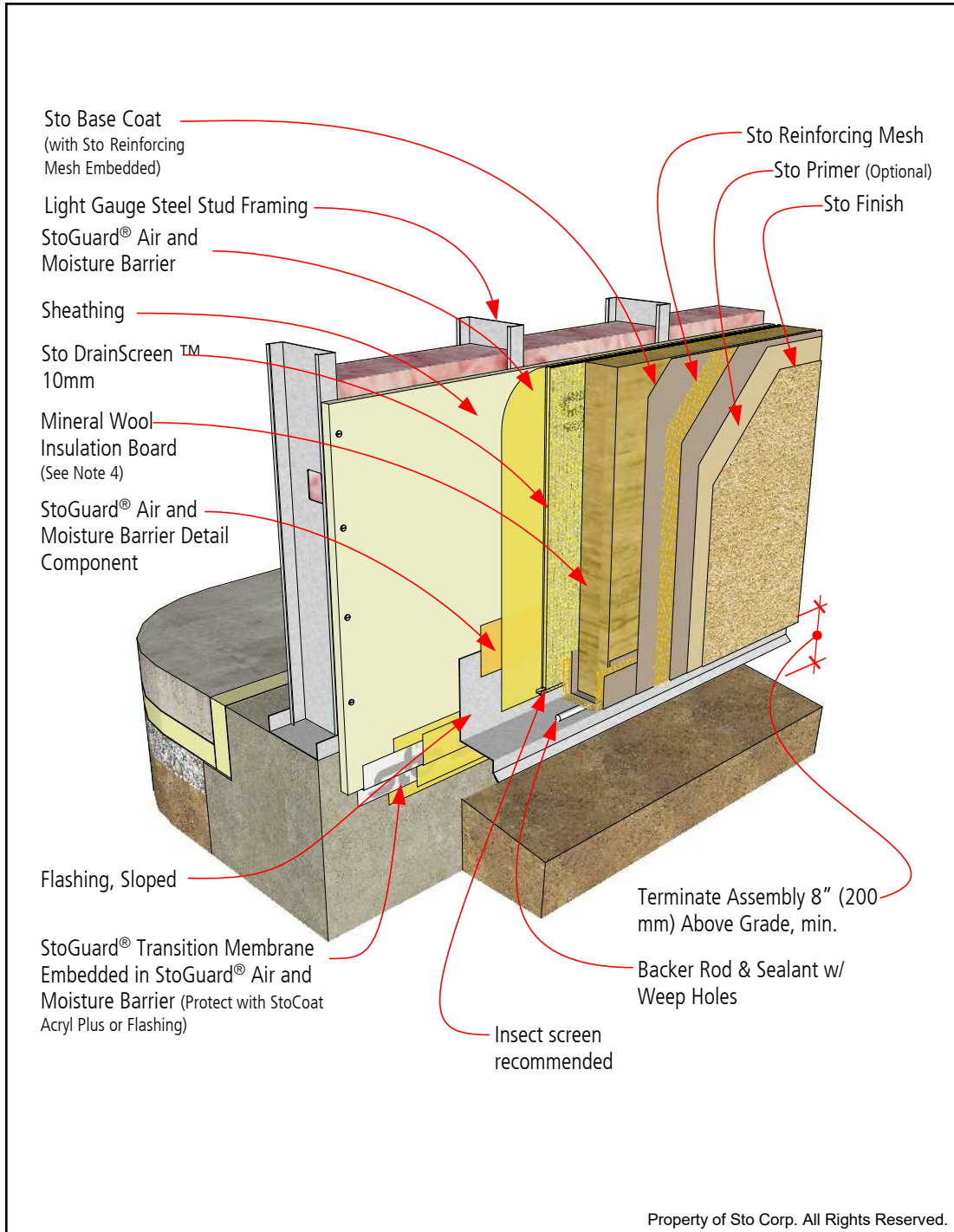
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StoTherm® ci Mineral Termination at Grade - Sheathing Overlapping Slab or Foundation

Detail No.: 56s.03B CAE
Date: February 2019



Notes:

1. Terminate system minimum 8" (200 mm) above finished grade, higher for areas with heavy snow accumulations, or where required by code.
2. Ultra-high impact resistance recommended at all ground floors to a minimum height of 6'-0" (1.8 m) above finished grade and other areas accessible to pedestrian traffic, abnormal stress or impact.
3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
4. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
5. 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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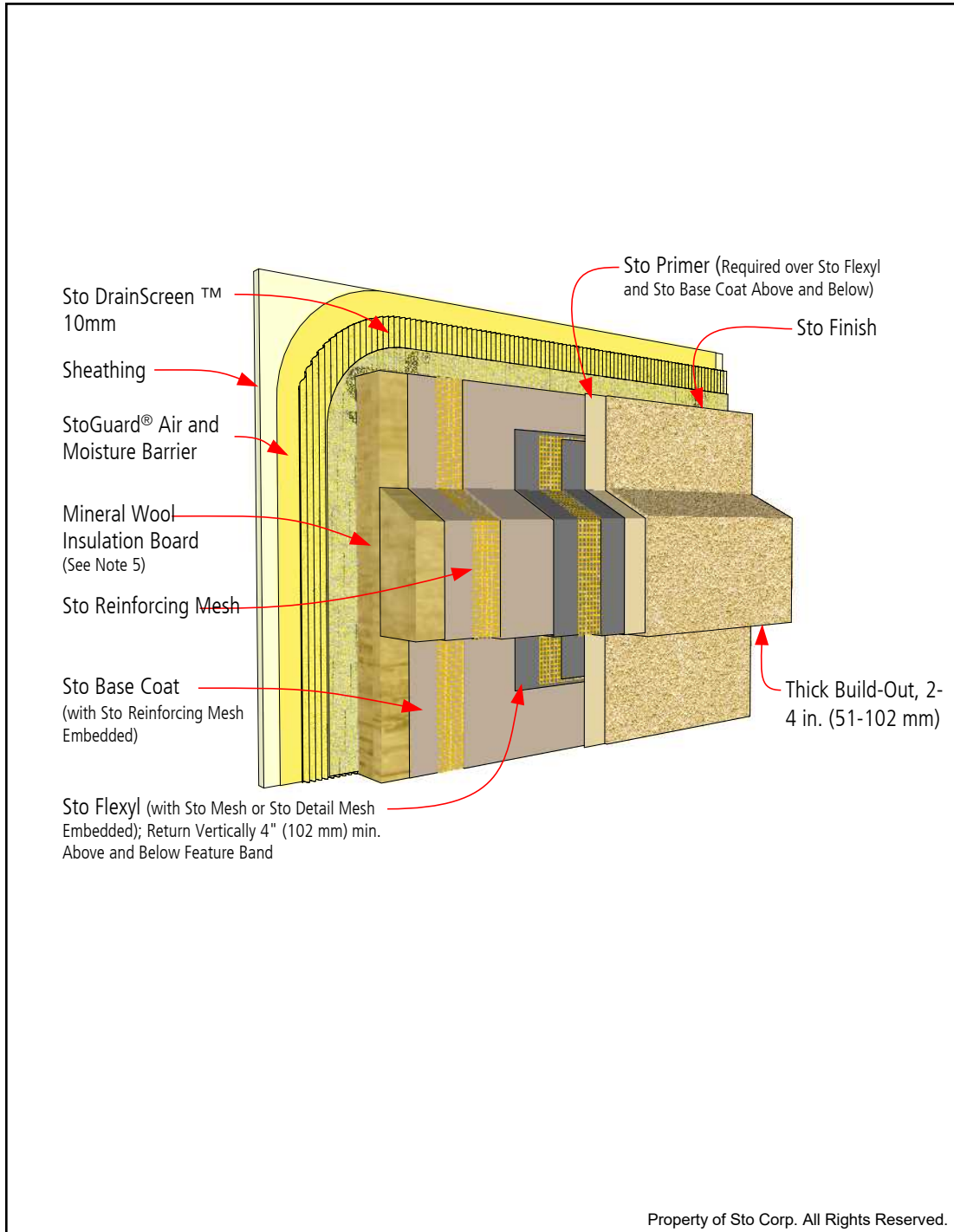
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StoTherm® ci Mineral Aesthetic Feature Band

Detail No.: 56s.04 CAE
Date: February 2019



- Notes:**
1. Feature band attached with adhesive and supplemental fasteners. Bands greater than 12" (300mm) in height will require two horizontal rows of fasteners spaced every 12-16" (300-400mm) o/c.
 2. Slope top surface of feature band minimum 27 degrees. Increase slope for northern climates to prevent snow and ice acculation.
 3. Limit thickness of build-out to reduce maintenance associated with projecting architectural features.
 4. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
 5. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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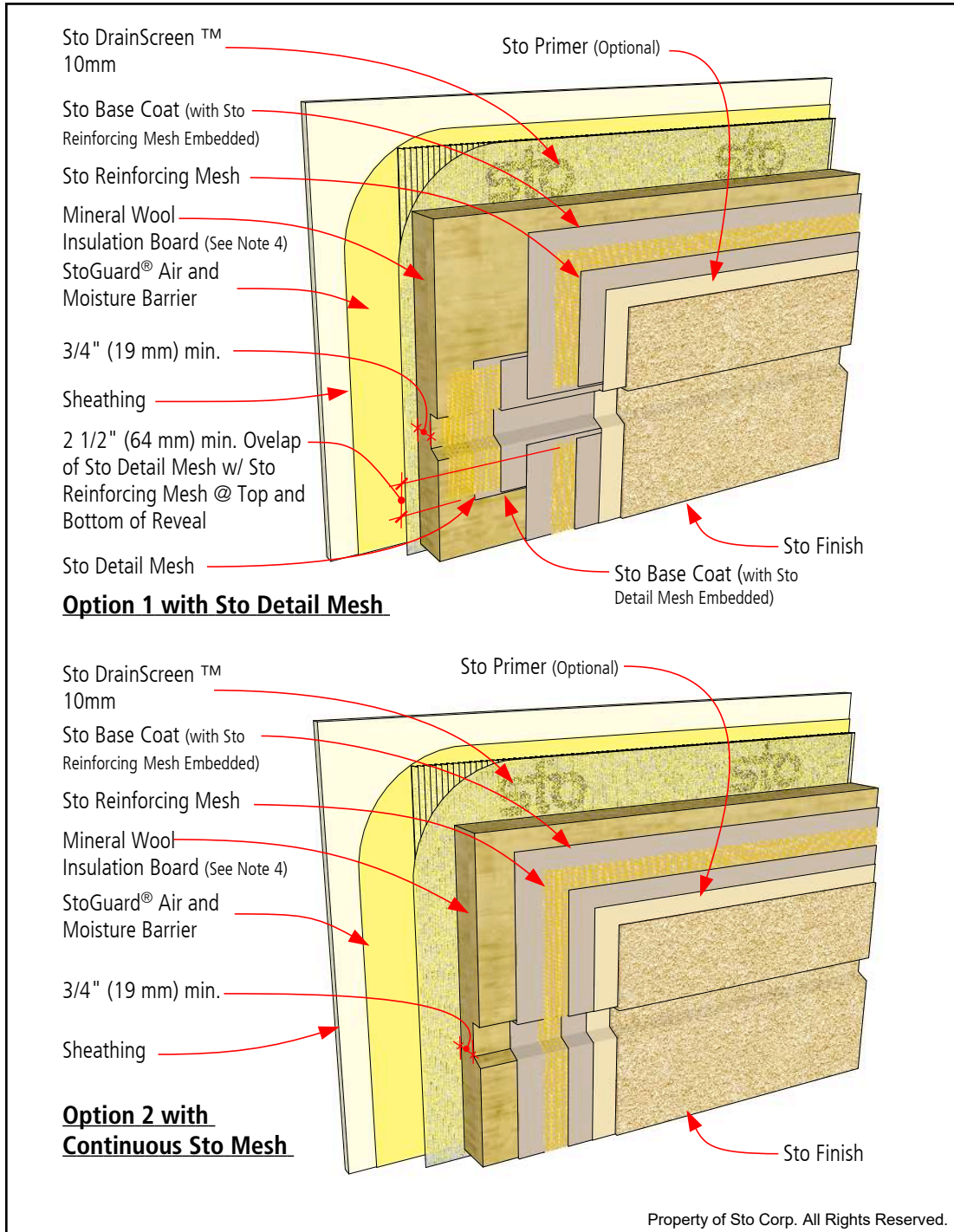
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StoTherm® ci Mineral Aesthetic Reveal

Detail No.: 56s.05 CAE
Date: February 2019



- Notes:**
1. Slope bottom surface of reveal minimum 27 degrees. Increase slope for northern climates to prevent snow and ice accumulations.
 2. Maintain minimum 3/4 inch (19 mm) thickness of insulation board at base of reveal.
 3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
 4. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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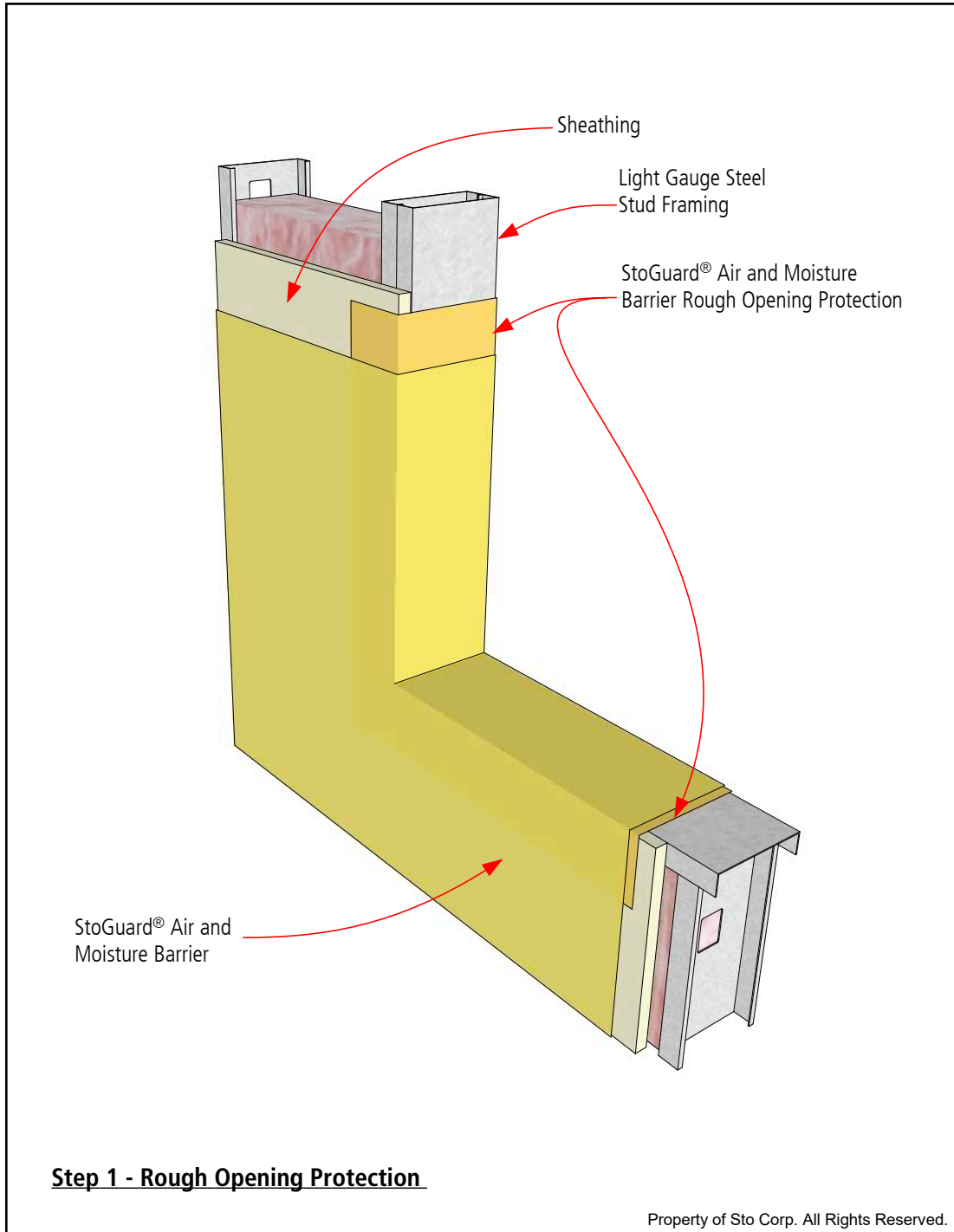
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StoTherm® ci Mineral Receptor-Type Window Sill

Detail No.: 56s.23A-1 CAE
Date: February 2019



- Notes:**
1. Consult with window and sealant manufacturers to verify window installation and detailing and to assure no water leakage into the wall assembly. Consult with window manufacturer regarding window and/or flashing assembly thermal breaks to avoid condensation. Test the final assembly using materials and trades associated with the project to verify performance. Correct any deficiencies associated with excess air leakage, water infiltration into the wall assembly, or structural inadequacies.
 2. Construct a site built mock-up using materials and sub-trades associated with the project to verify installation sequencing, detailing, and aesthetics.
 3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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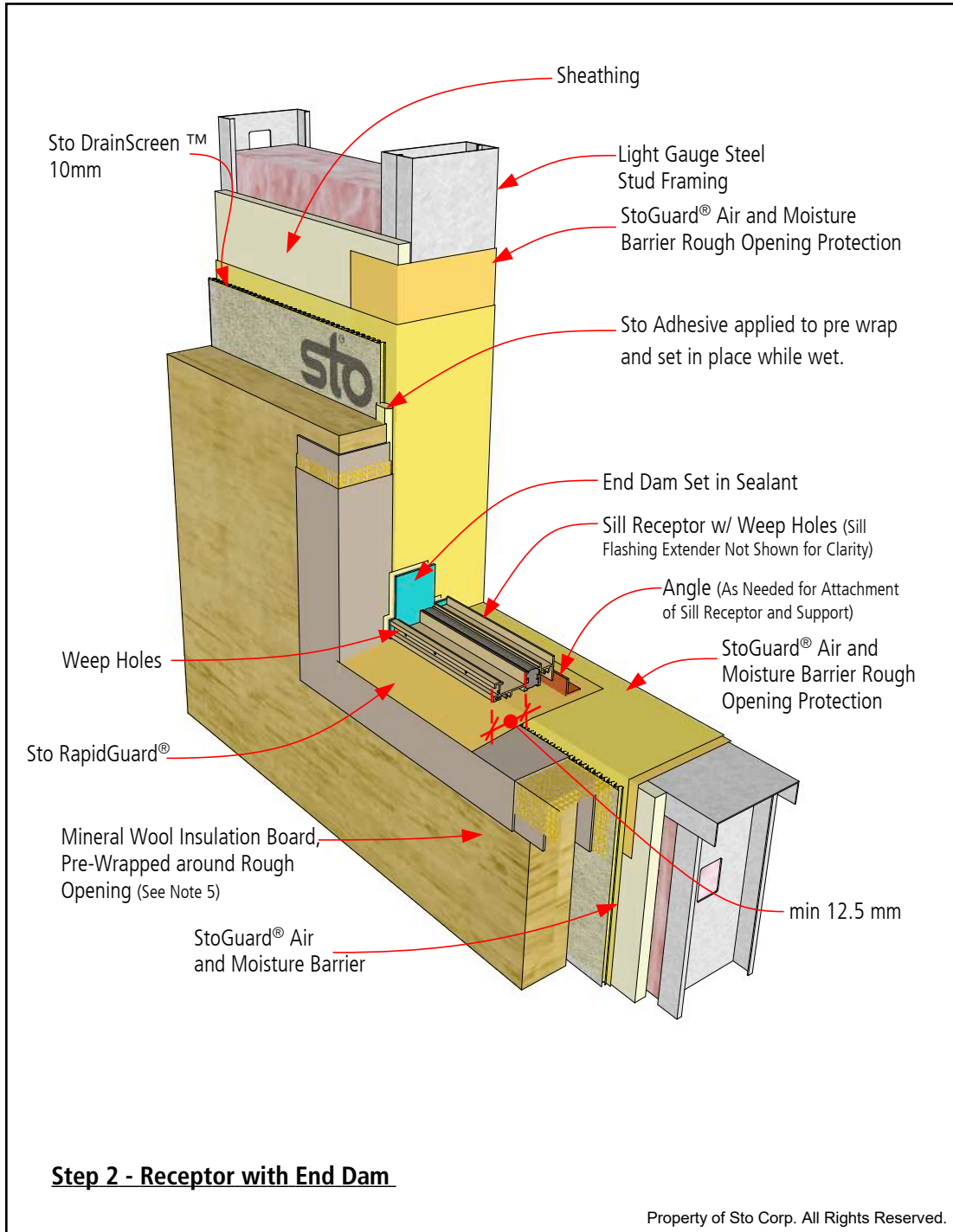
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StoTherm® ci Mineral Receptor-Type Window Sill

Detail No.: 56s.23A-2 CAE
Date: February 2019



- Notes:**
1. Consult with window and sealant manufacturers to verify window installation and detailing and to assure no water leakage into the wall assembly. Consult with window manufacturer regarding window and/or flashing assembly thermal breaks to avoid condensation. Test the final assembly using materials and trades associated with the project to verify performance. Correct any deficiencies associated with excess air leakage, water infiltration into the wall assembly, or structural inadequacies.
 2. Construct a site built mock-up using materials and sub-trades associated with the project to verify installation sequencing, detailing, and aesthetics.
 3. Install diagonal mesh (not shown) at all corners. Use full width Sto Detail Mesh 12" (300 mm) long and center on corner at 45°. Embed in Sto Base Coat.
 4. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
 5. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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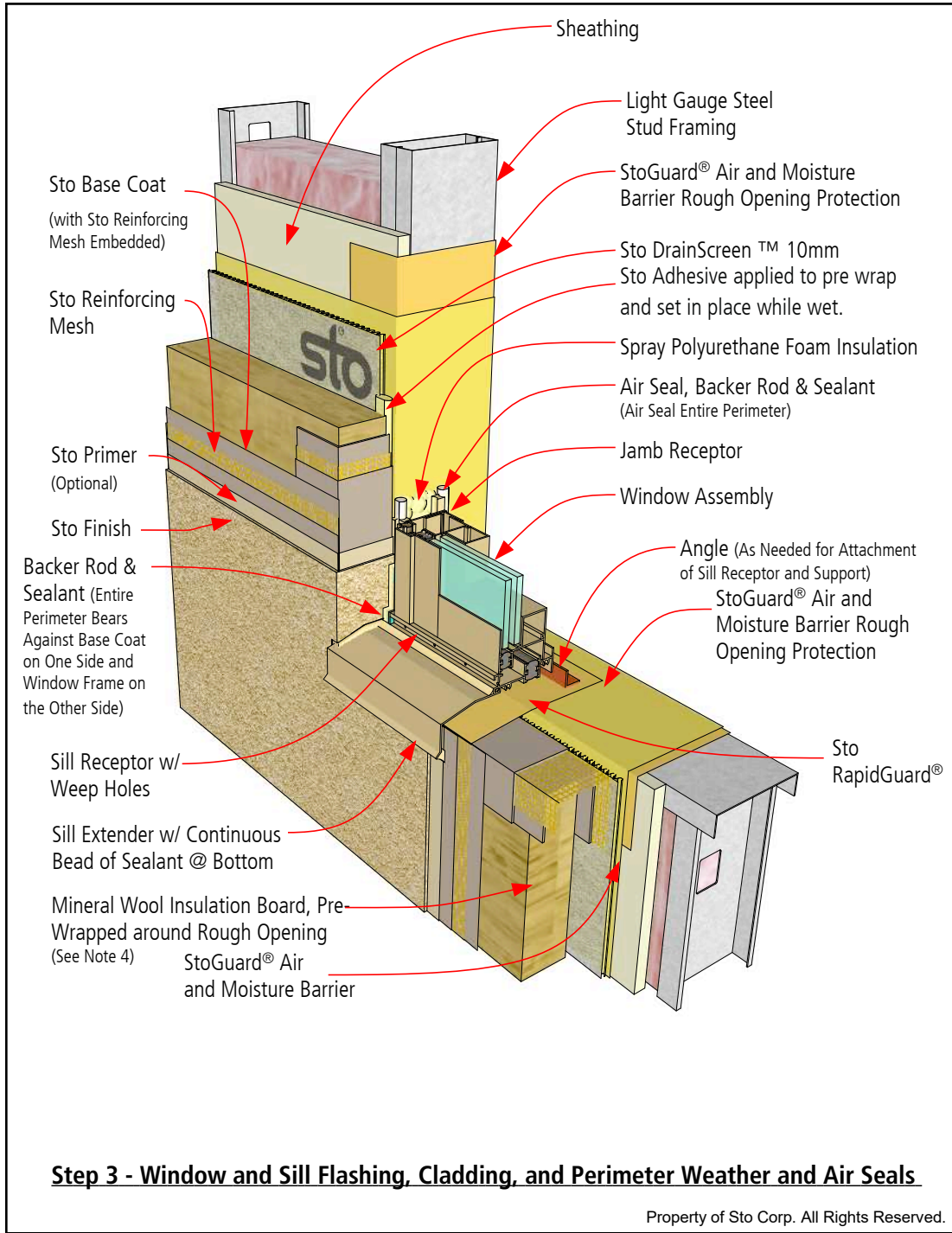
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StoTherm® ci Mineral Receptor-Type Window Sill

Detail No.: 56s.23A-3 CAE
Date: February 2019



- Notes:**
1. Consult with window and sealant manufacturers to verify window installation and detailing and to assure no water leakage into the wall assembly. Consult with window manufacturer regarding window and/or flashing assembly thermal breaks to avoid condensation. Test the final assembly using materials and trades associated with the project to verify performance. Correct any deficiencies associated with excess air leakage, water infiltration into the wall assembly, or structural inadequacies.
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 4. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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Step 3 - Window and Sill Flashing, Cladding, and Perimeter Weather and Air Seals

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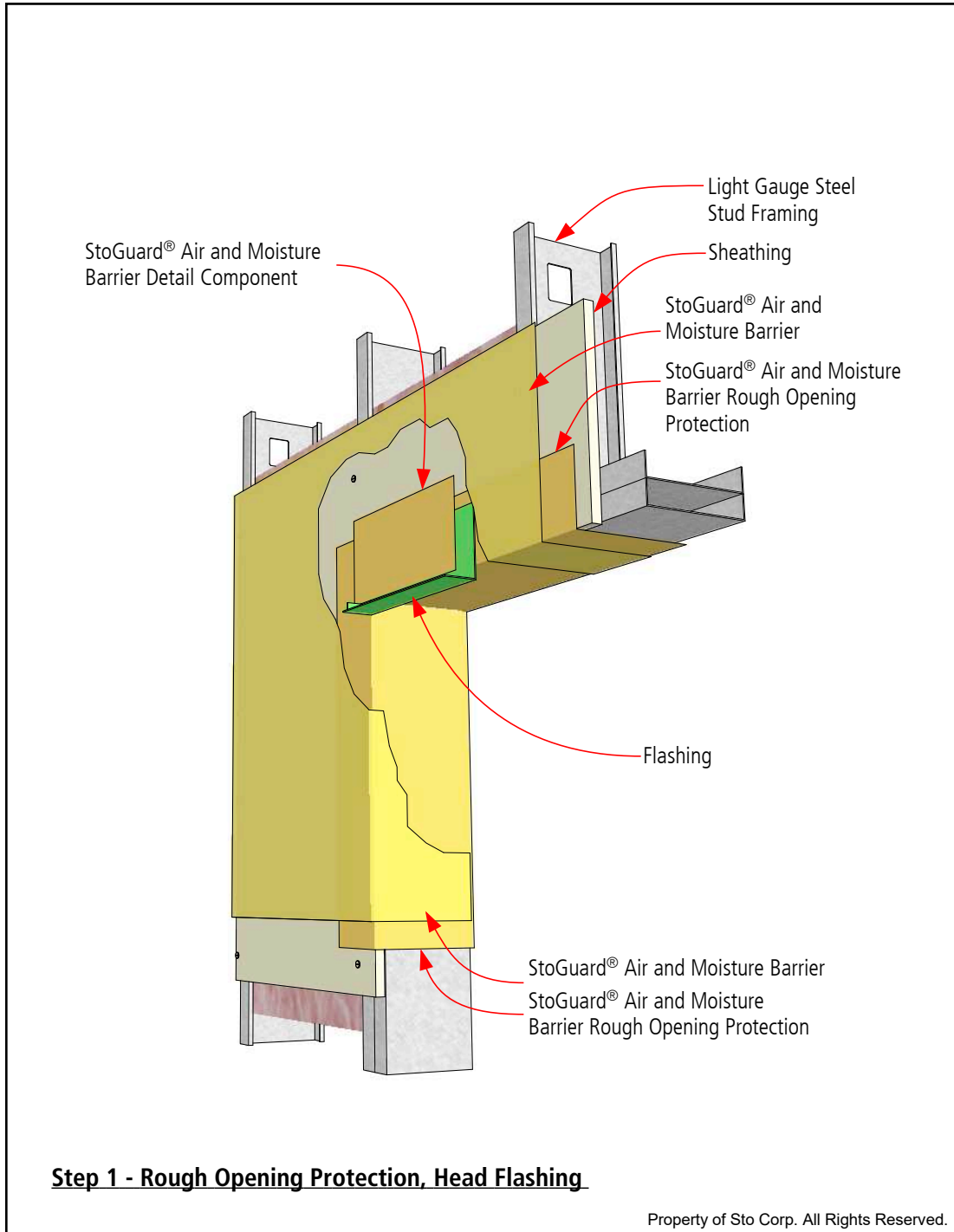
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StoTherm® ci Mineral Receptor-Type Window Head

Detail No.: 56s.23B-1 CAE
Date: February 2019



Notes:

1. Consult with window and sealant manufacturers to verify window installation and detailing and to assure no water leakage into the wall assembly. Consult with window manufacturer regarding window and/or flashing assembly thermal breaks to avoid condensation. Test the final assembly using materials and trades associated with the project to verify performance. Correct any deficiencies associated with excess air leakage, water infiltration into the wall assembly, or structural inadequacies.
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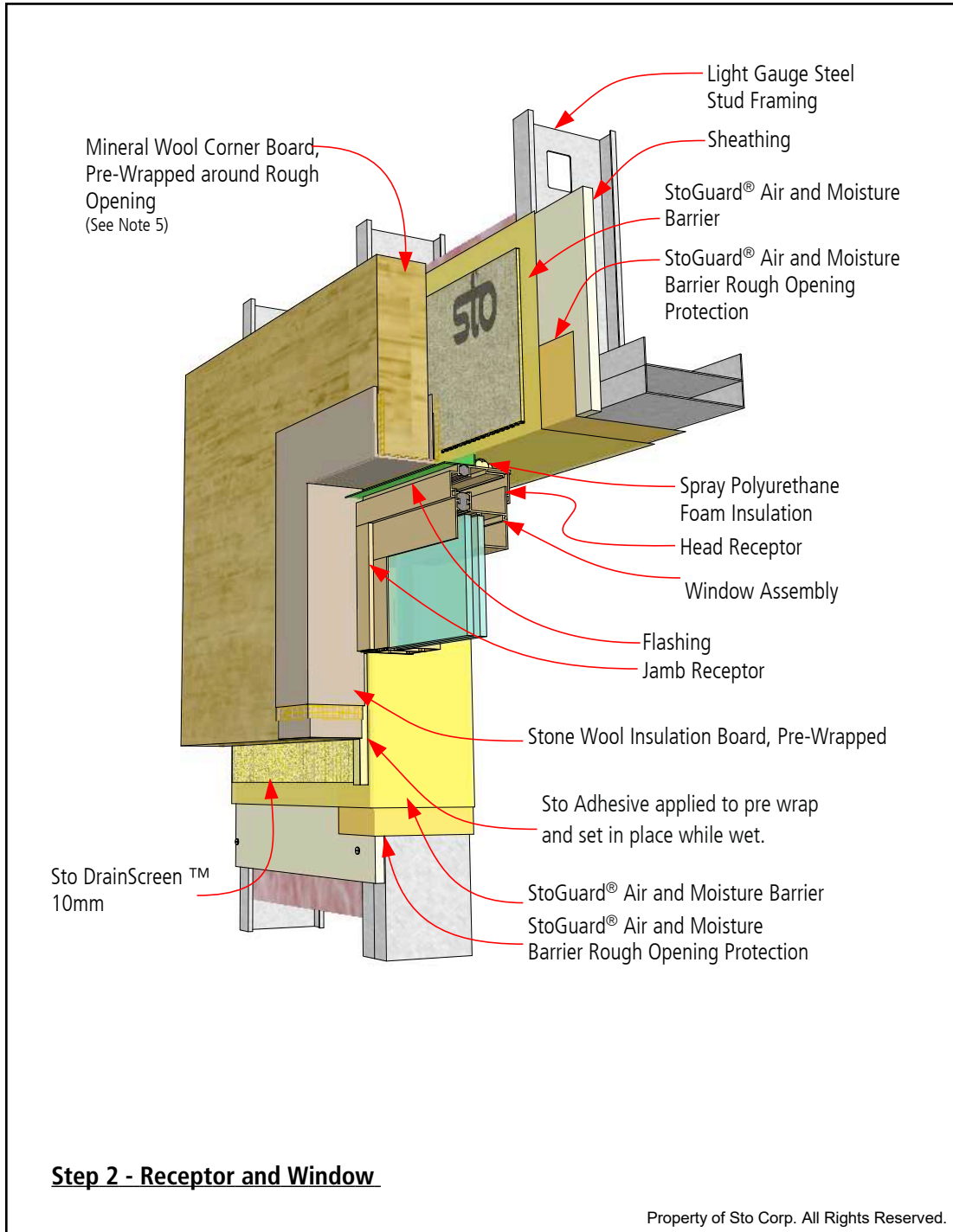
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StoTherm® ci Mineral Receptor-Type Window Head

Detail No.: 56s.23B-2 CAE
Date: February 2019



- Notes:**
1. Consult with window and sealant manufacturers to verify window installation and detailing and to assure no water leakage into the wall assembly. Consult with window manufacturer regarding window and/or flashing assembly thermal breaks to avoid condensation. Test the final assembly using materials and trades associated with the project to verify performance. Correct any deficiencies associated with excess air leakage, water infiltration into the wall assembly, or structural inadequacies.
 2. Construct a site built mock-up using materials and sub-trades associated with the project to verify installation sequencing, detailing, and aesthetics.
 3. Install diagonal mesh (not shown) at all corners. Use full width Sto Detail Mesh 12" (300 mm) long and center on corner at 45°. Embed in Sto Base Coat.
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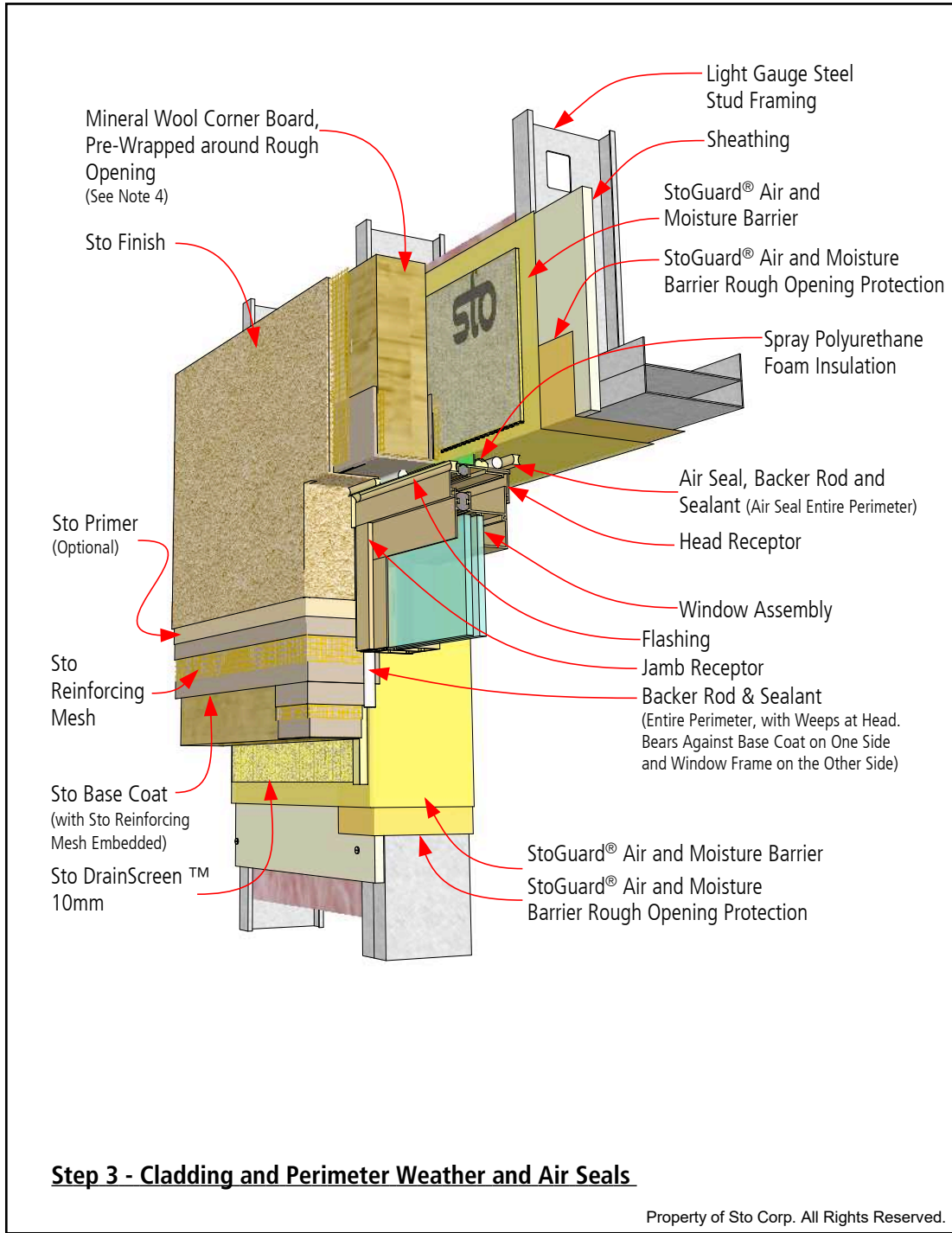
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StoTherm® ci Mineral Receptor-Type Window Head

Detail No.: 56s.23B-3 CAE
Date: February 2019



Notes:

1. Consult with window and sealant manufacturers to verify window installation and detailing and to assure no water leakage into the wall assembly. Consult with window manufacturer regarding window and/or flashing assembly thermal breaks to avoid condensation. Test the final assembly using materials and trades associated with the project to verify performance. Correct any deficiencies associated with excess air leakage, water infiltration into the wall assembly, or structural inadequacies.
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Step 3 - Cladding and Perimeter Weather and Air Seals

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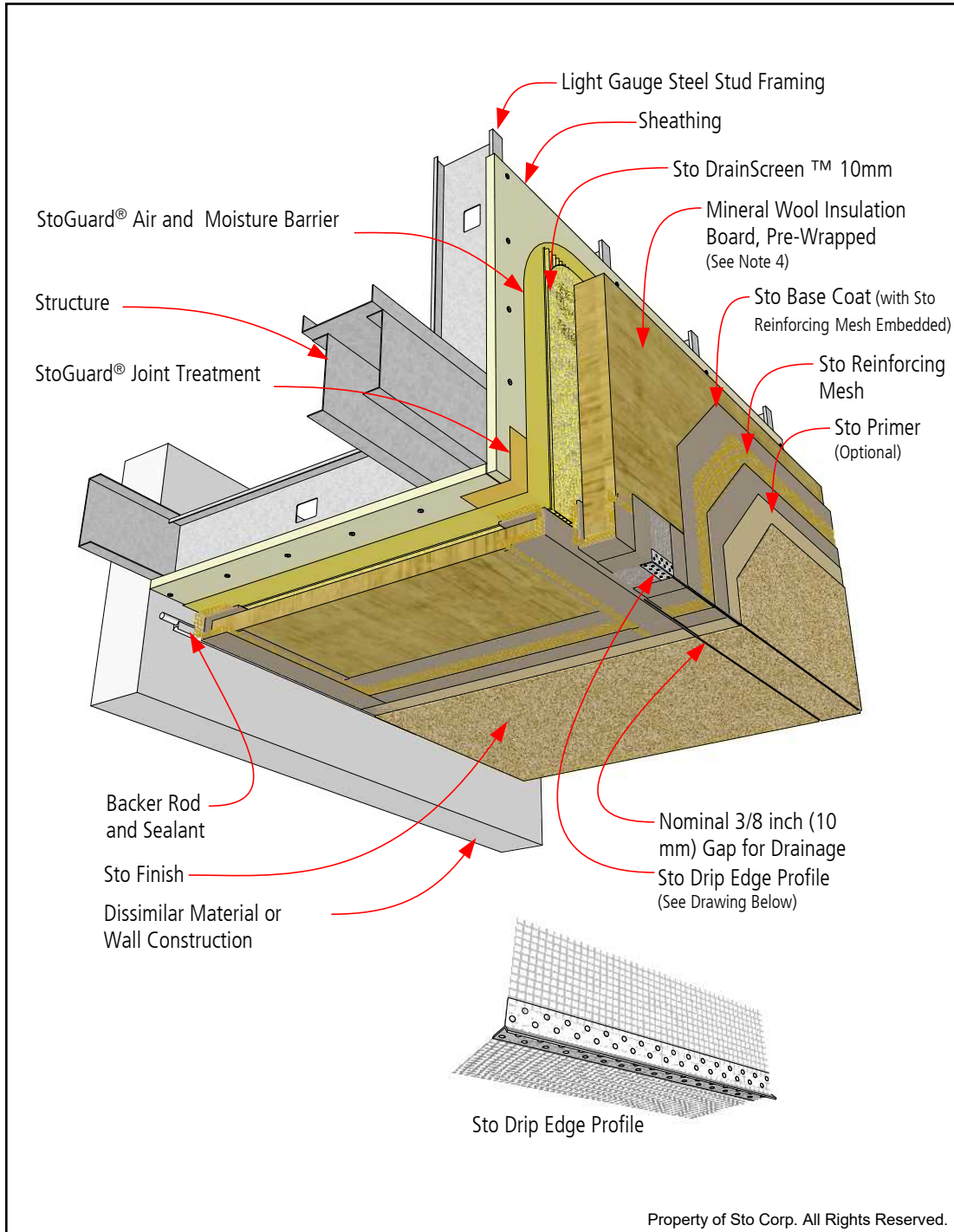
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StoTherm® ci Mineral Soffit: Insulated and Unvented

Detail No.: 56s.30 CAE
Date: February 2019



Notes:

1. Continue StoGuard air and moisture barrier onto dissimilar material or construction where required after verifying substrate material compatibility. Refer to Sto Detail 56s.53 for typical detailing of inside corner if substrate material or construction is dissimilar. Refer to Sto Detail 56s.54A if substrate material is similar at inside corner.
2. 2. 4" (10 cm) thick insulation board typically required for proper lap of accessory with mesh "tail." For thinner sections of insulation board pre-wrap insulation board with Sto base coat and mesh.
3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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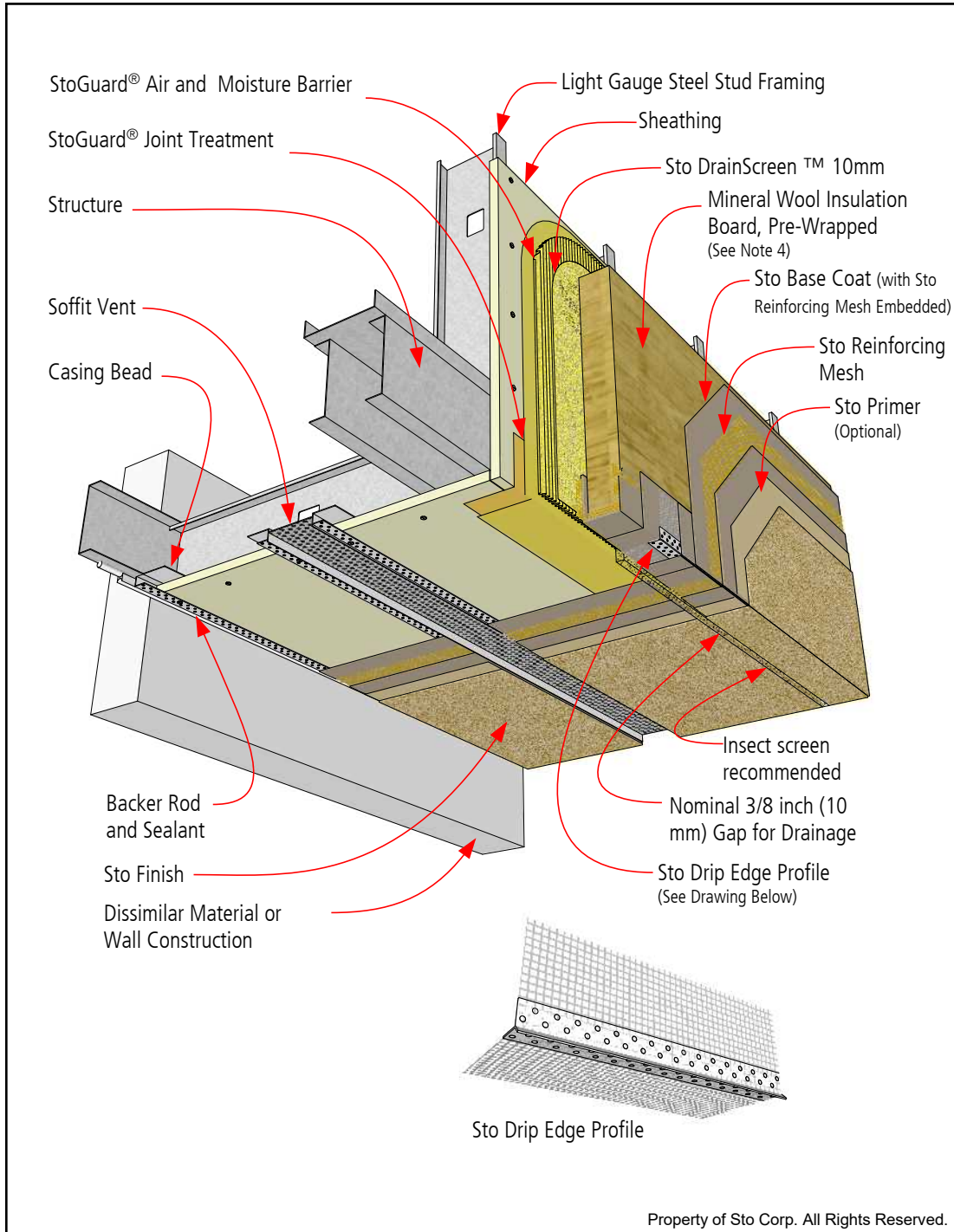
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StoTherm® ci Mineral Soffit: Uninsulated and Vented

Detail No.: 56s.31 CAE
Date: February 2019



- Notes:**
1. Prevent "communication" of vented air space with conditioned interior air to reduce the likelihood of condensation on materials in the vented space.
 2. Typical soffit board is gypsum sheathing in compliance with ASTM C 1177. Refer to Sto Specification No. F601S and Sto Detail Series 14.xx.
 3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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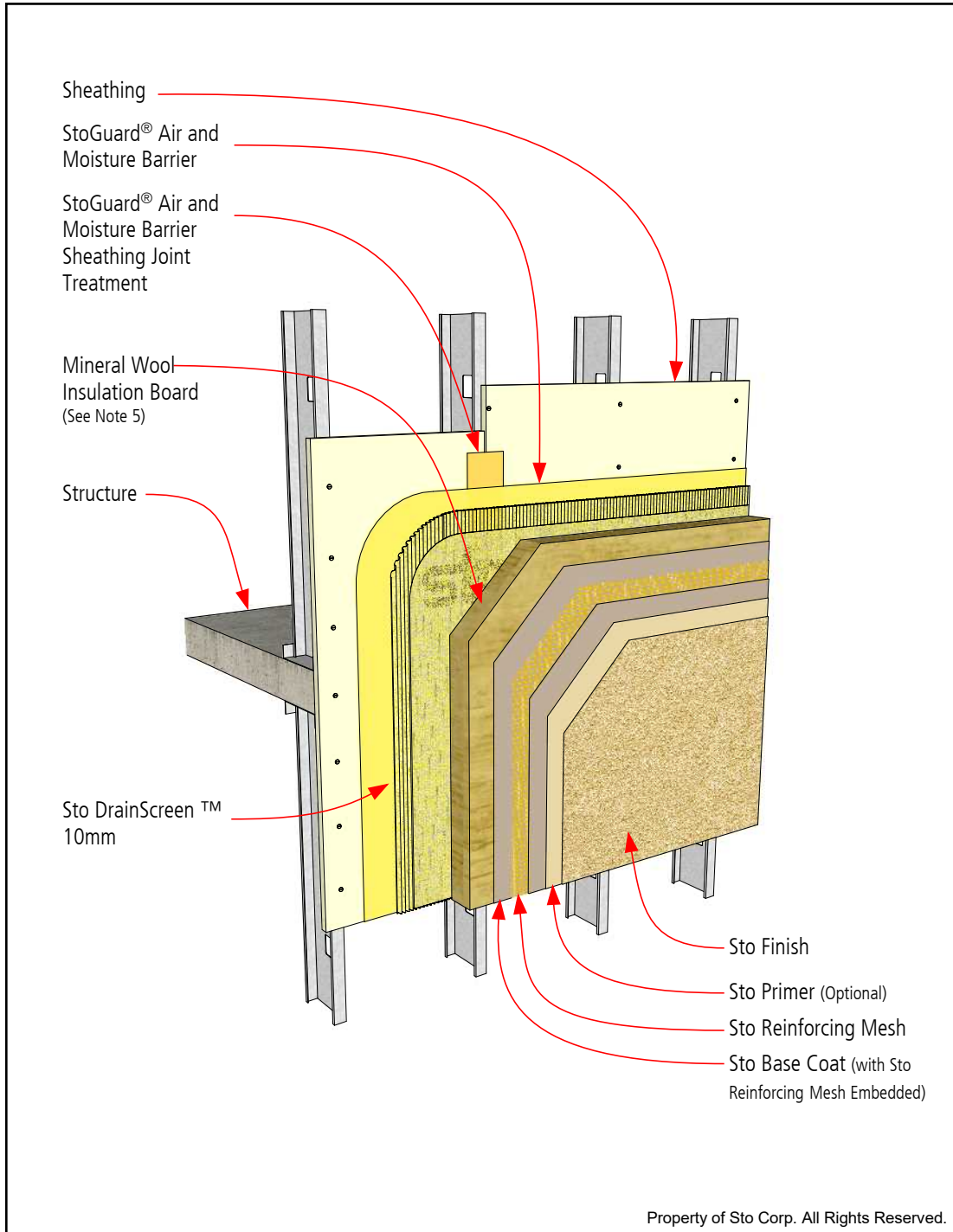
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StoTherm® ci Mineral Floor Line Without Deflection

Detail No.: 56s.40 CAE
Date: February 2019



Notes:

1. This detail is typically limited to low-rise construction where no floor line deflection is anticipated. Refer to Sto Detail 56s.41A, B, or C for a floor line condition with deflection.
2. Sheathing attachment is typically at 8" (20.3 cm) on center or less vertically. Add C-channels or other attachment means along slab edge if necessary to conform with required fastener spacing.
3. Provide fire stopping at floor line as needed.
4. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
5. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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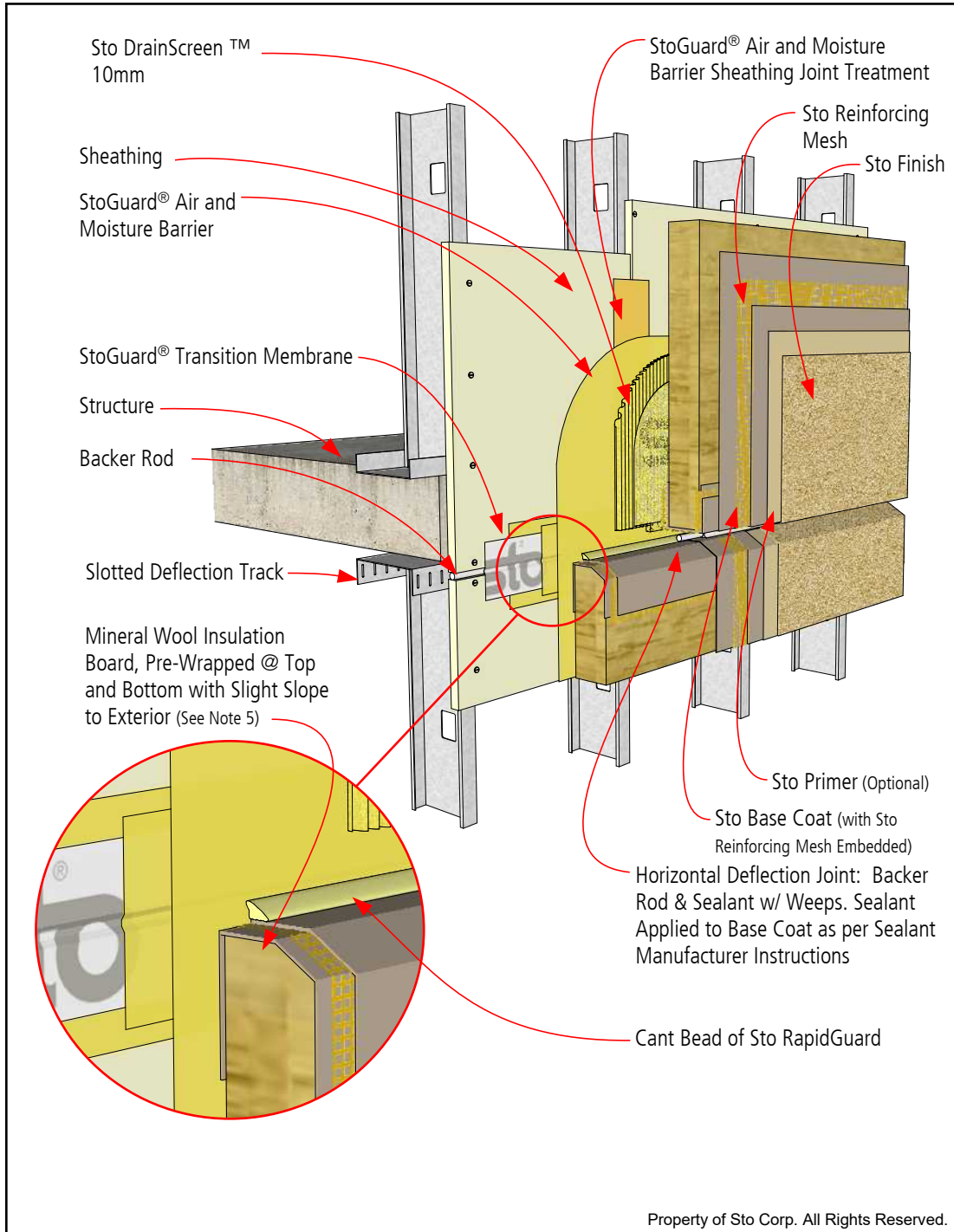
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StoTherm® ci Mineral Floor Line With Deflection - Drainage at Floor Line with Cant Bead

Detail No.: 56s.41A CAE
Date: February 2019



Notes:

1. Sheathing attachment is typically at 20.3cm (8") on center or less vertically. Add C-channels or other attachment means along slab edge if necessary to conform with required fastener spacing.
2. Provide fire stopping at floor line as needed.
3. Lower section of system to be complete and Sto transition components applied as shown, before next section of system (starting with the Sto DrainScreen) can be installed.
4. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
5. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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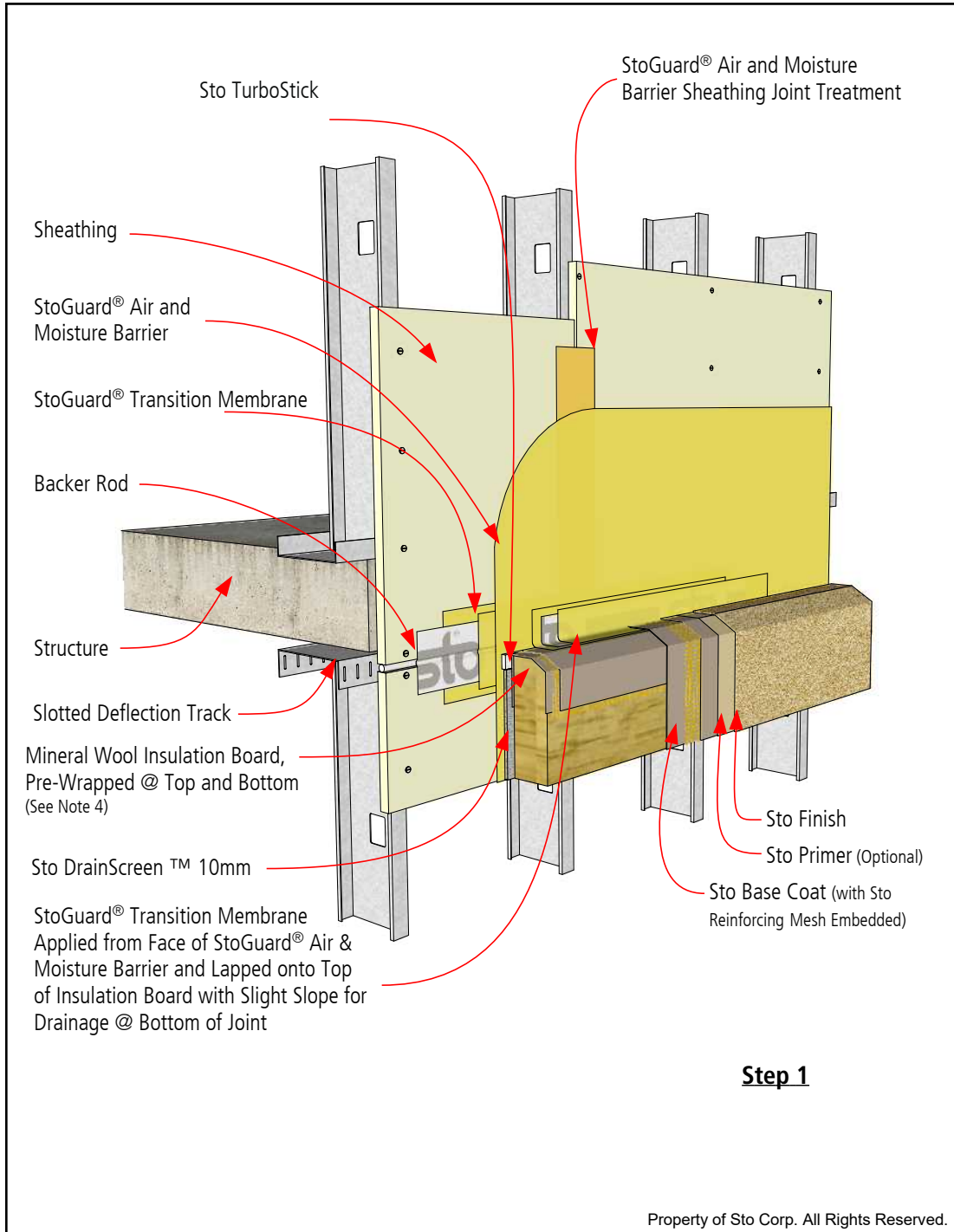
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StoTherm® ci Mineral Floor Line With Deflection - Drainage at Floor Line With Transition Membrane

Detail No.: 56s.41B-1 CAE
Date: February 2019



Notes:

1. Sheathing attachment is typically at 8" (20.3 cm) on center or less vertically. Add C-channels or other attachment means along slab edge if necessary to conform with required fastener spacing.
2. Provide fire stopping at floor line as needed.
3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
4. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
5. 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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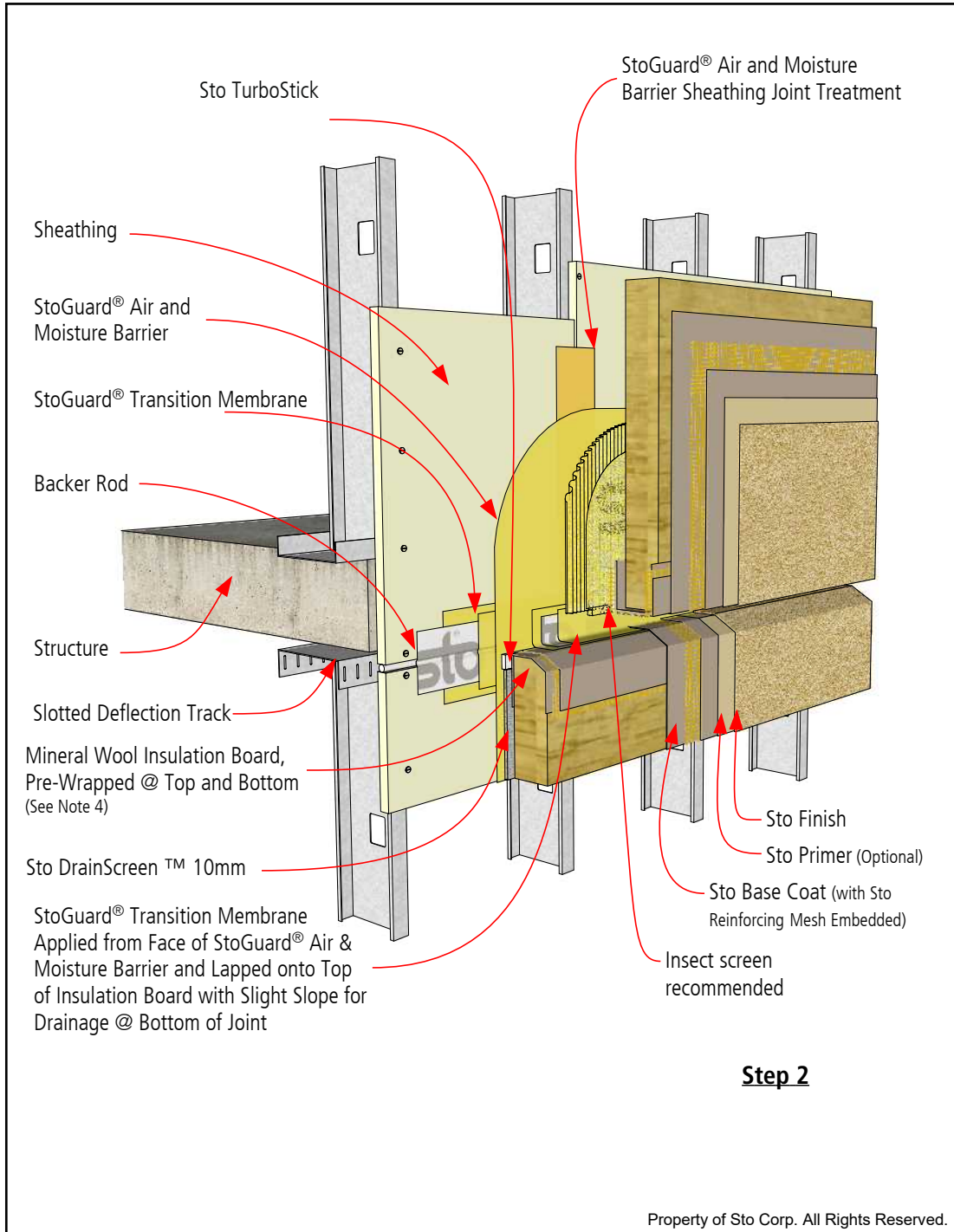
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StoTherm® ci Mineral Floor Line With Deflection - Drainage at Floor Line With Transition Membrane

Detail No.: 56s.41B-2 CAE
Date: February 2019



Notes:

1. Sheathing attachment is typically at 8" (20.3 cm) on center or less vertically. Add C-channels or other attachment means along slab edge if necessary to conform with required fastener spacing.
2. Provide fire stopping at floor line as needed.
3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
4. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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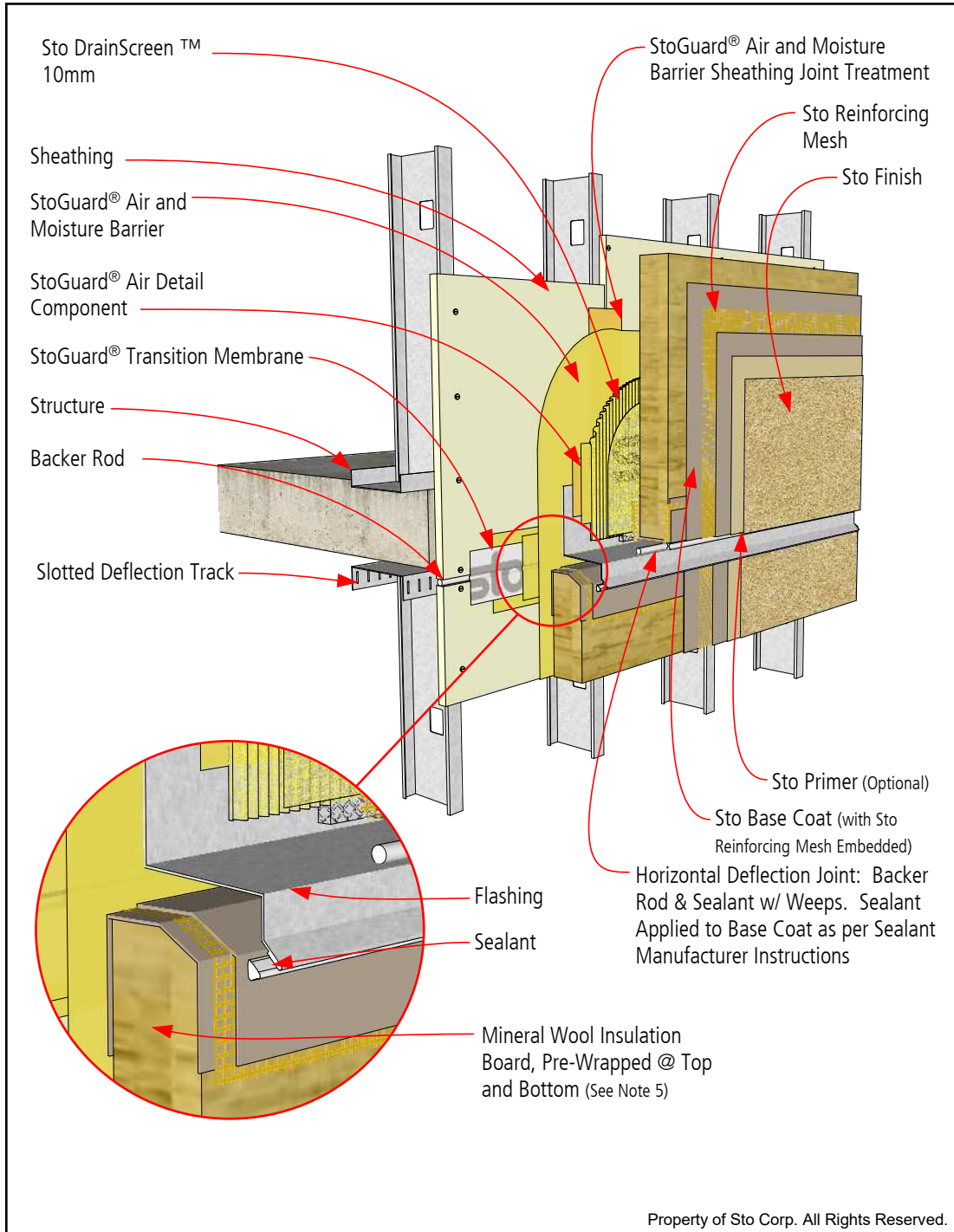
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StoTherm® ci Mineral Floor Line With Deflection - Drainage at Floor Line with Flashing

Detail No.: 56s.41C CAE
Date: February 2019



Notes:

1. Sheathing attachment is typically at 20.3cm (8") on center or less vertically. Add C-channels or other attachment means along slab edge if necessary to conform with required fastener spacing.
2. Provide fire stopping at floor line as needed.
3. Lower section of system to be complete and Sto transition components applied as shown, before next section of system (starting with the Sto DrainScreen) can be installed.
4. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
5. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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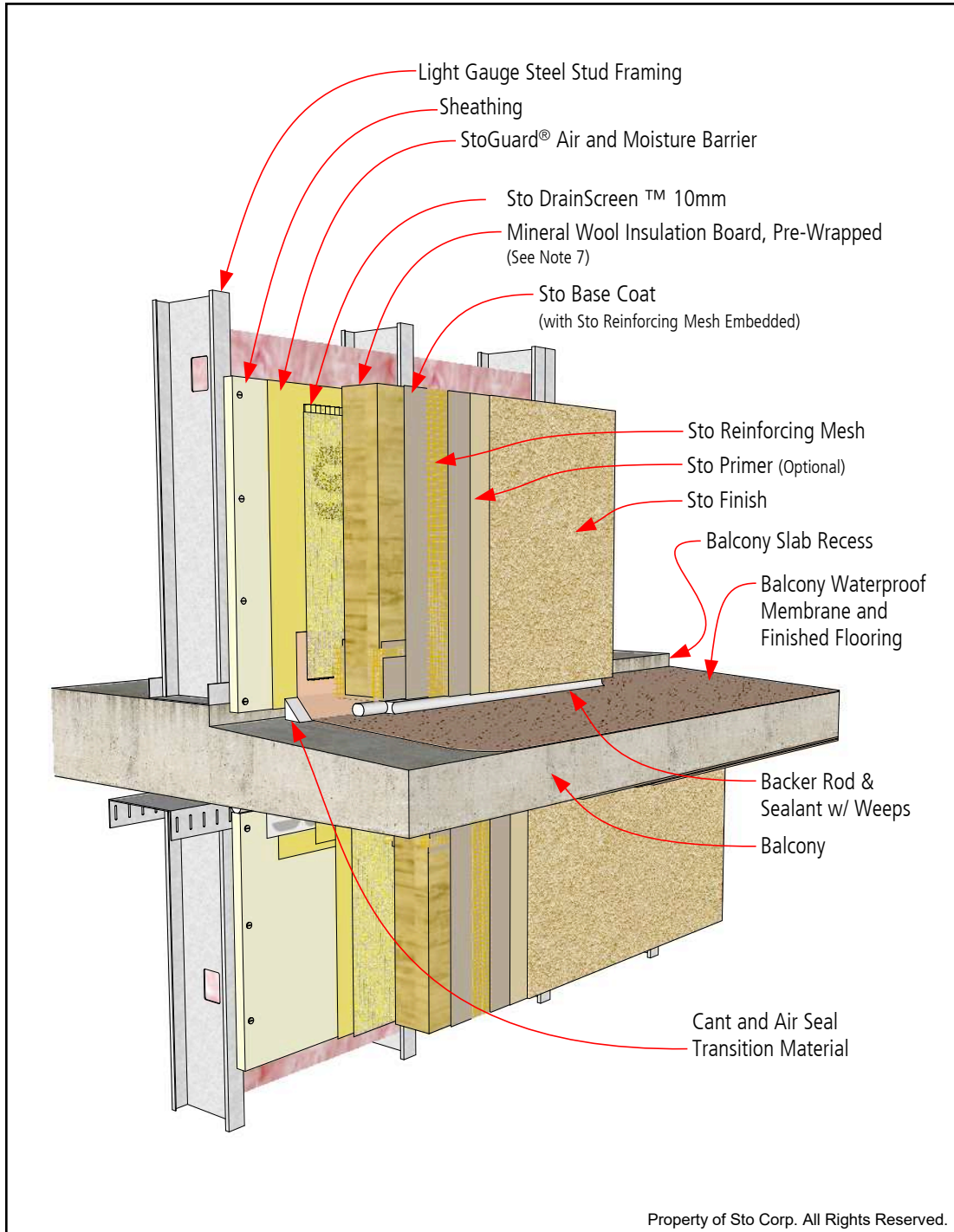
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StoTherm® ci Mineral Balcony Floor/Wall

Detail No.: 56s.42A CAE
Date: February 2019



Notes:

1. Detail applies to Balcony Protected Overhead by Balcony Ceiling Above.
2. Slope balcony to direct water away from wall.
3. Consider the use of high or ultra-high reinforcing meshes on balcony walls to supplement standard reinforcing mesh for added abuse and impact resistance.
4. Verify compatibility of StoGuard Air and Moisture Barrier with balcony waterproof membrane material where they interface or lap one another.
5. Counter flash balcony membrane on wall if not fluid applied.
6. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
7. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
8. 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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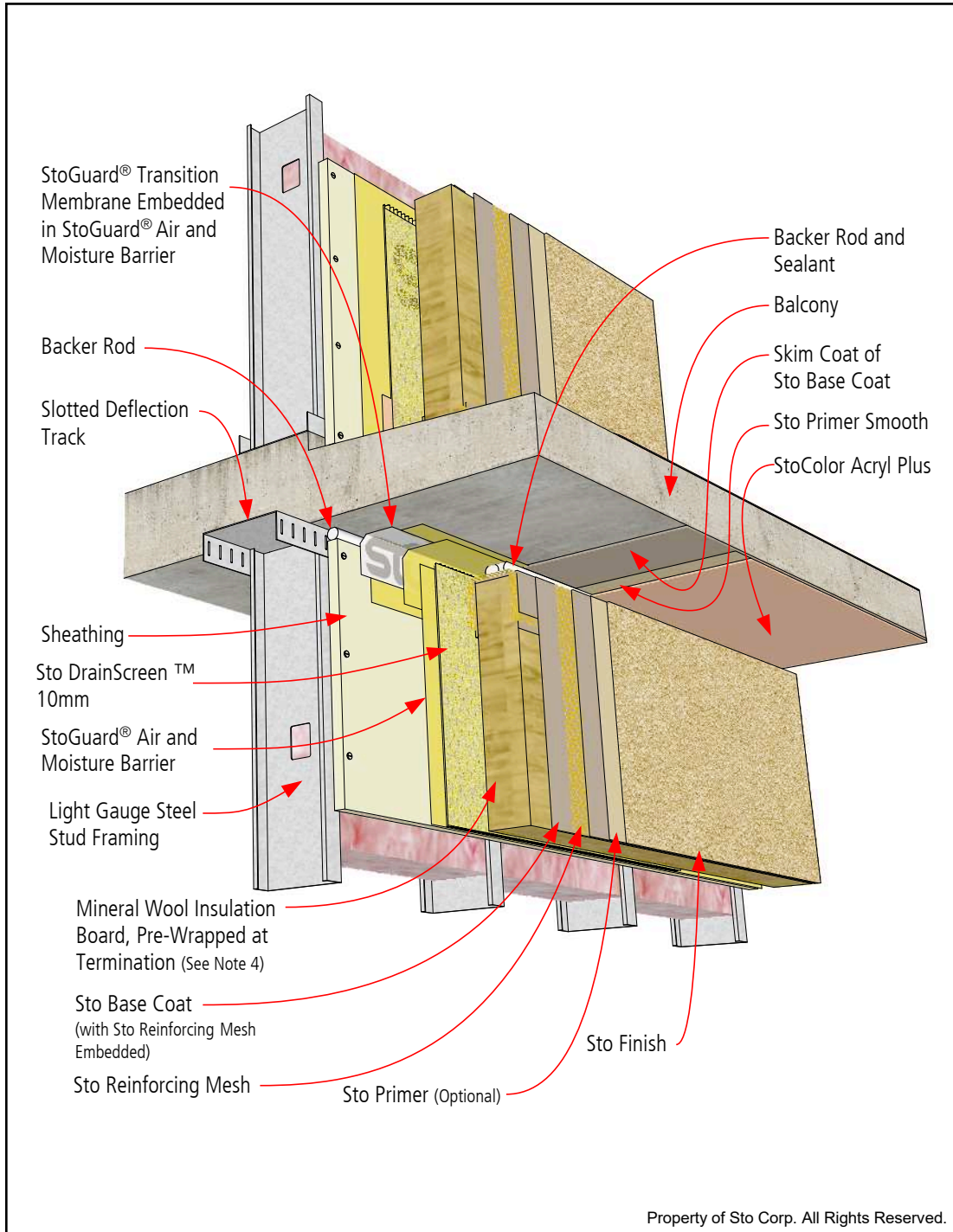
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StoTherm® ci Mineral Balcony Ceiling/Wall

Detail No.: 56s.42B CAE
Date: February 2019



Notes:

1. Detail applies to Balcony Protected by Balcony Ceiling Above.
2. Underside of balcony may also be finished with Sto Finish or other Sto smooth or textured coatings.
3. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
4. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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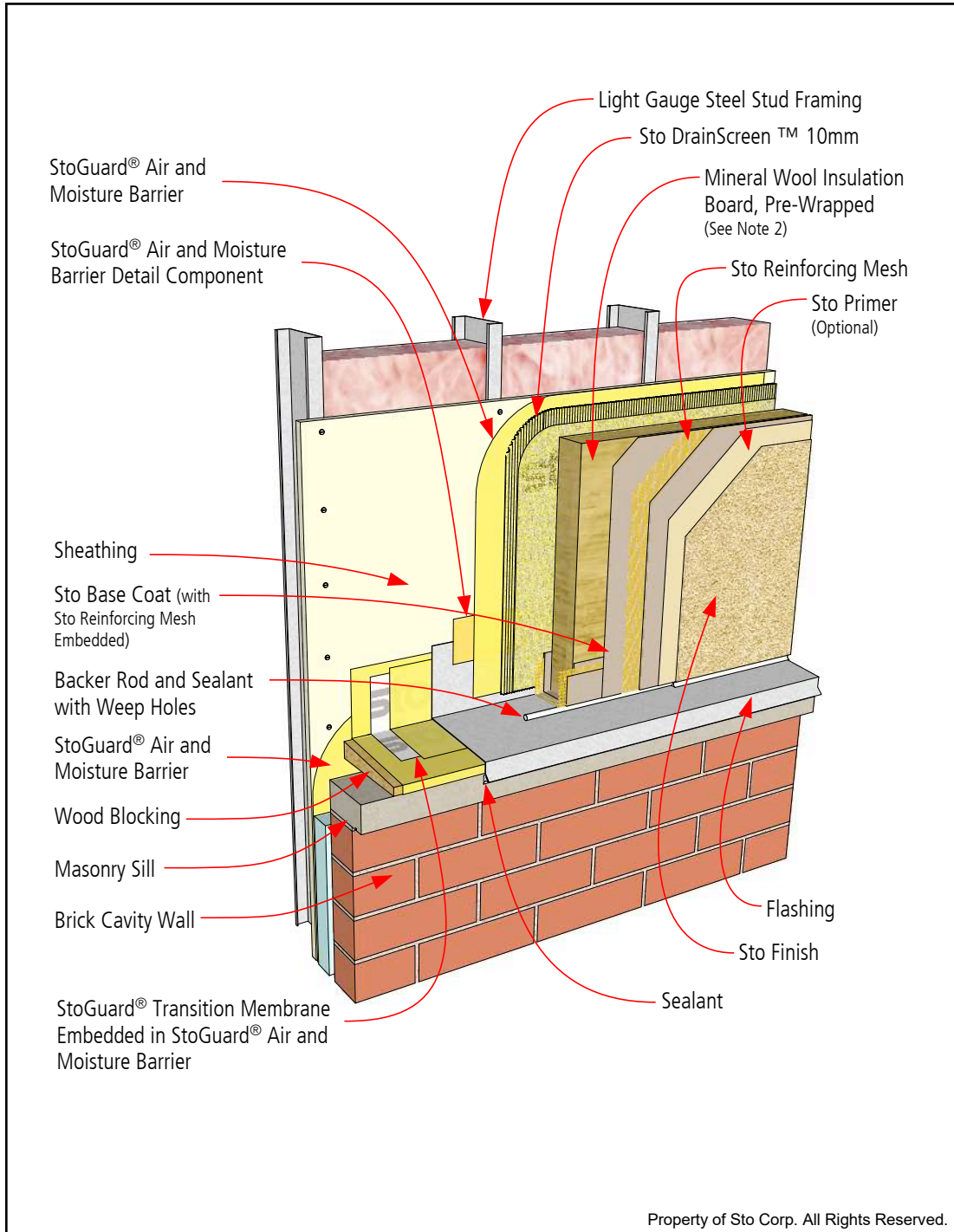
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StoTherm® ci Mineral Horizontal Termination at Dissimilar Cladding

Detail No.: 56s.50 CAE
Date: February 2019



Notes:

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
2. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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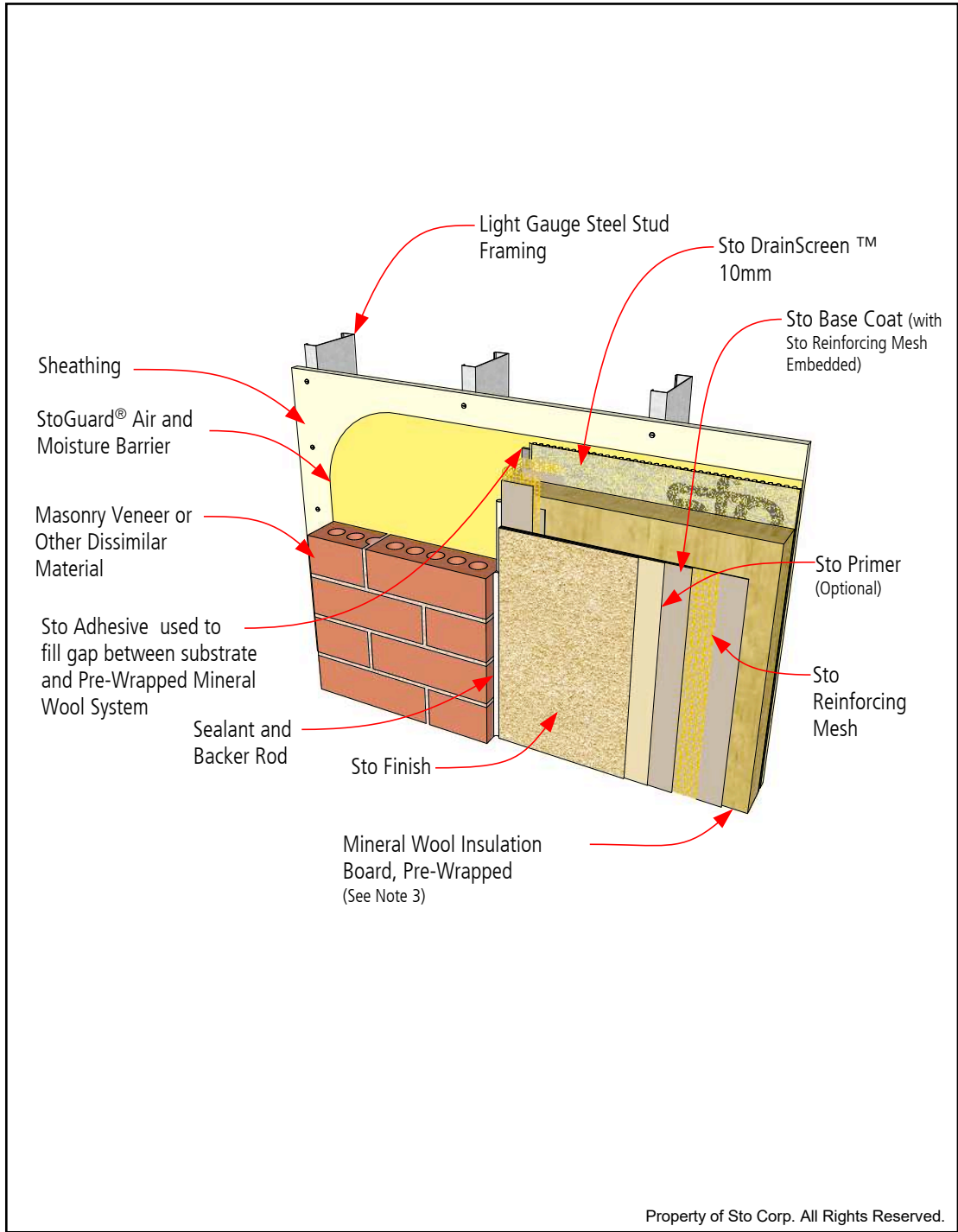
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StoTherm® ci Mineral Vertical Termination at Dissimilar Cladding

Detail No.: 56s.51A CAE
Date: February 2019



Notes:

1. Sto adhesive applied the full length of vertical terminations. Apply adhesive to the pre-wrapped insulation board and set in place while adhesive is wet. The Sto DrainScreen should be held back 1" (25mm) from termination point to allow space for adhesive.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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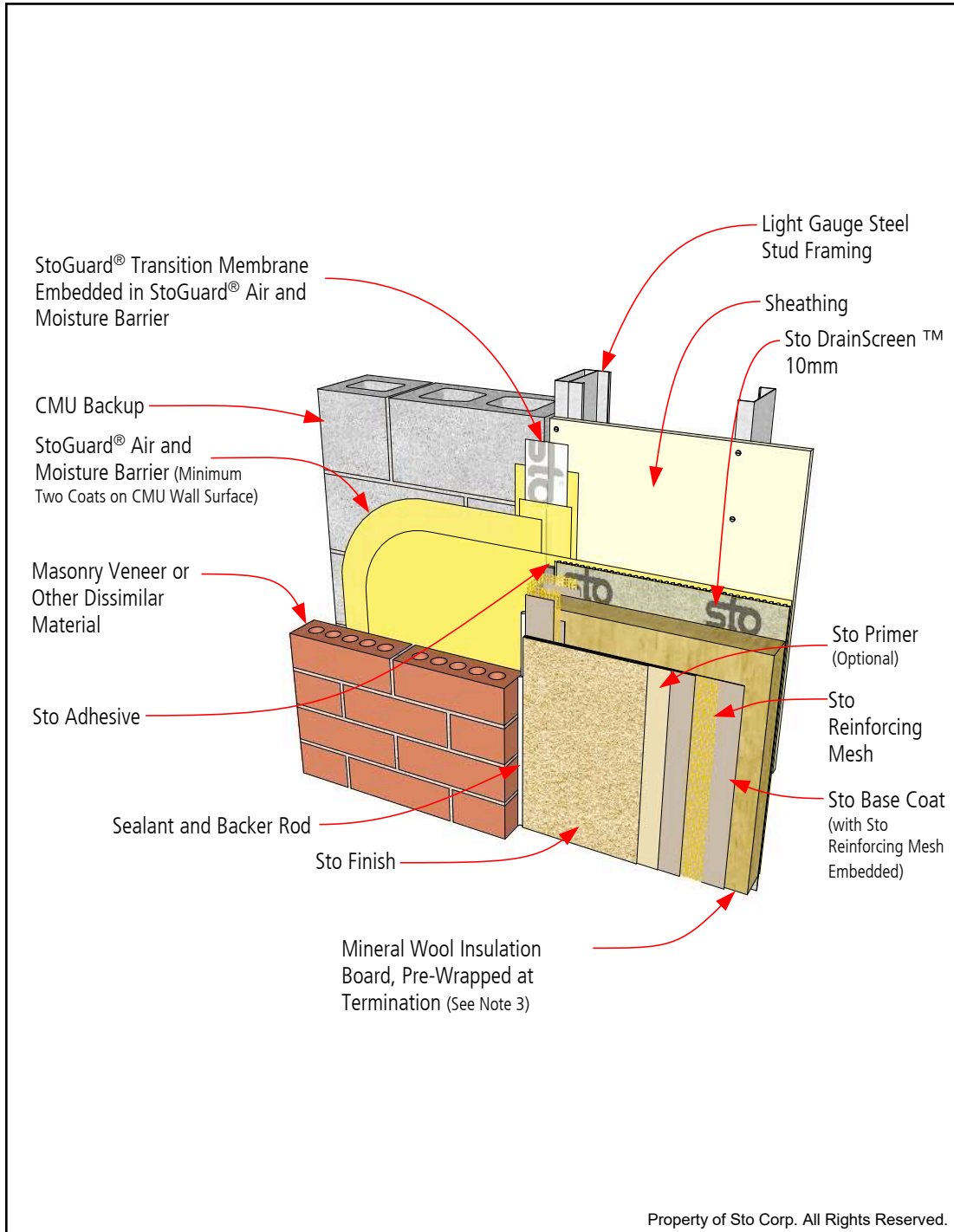
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StoTherm® ci Mineral Vertical Termination at Dissimilar Backup Wall Construction

Detail No.: 56s.51B CAE
Date: February 2019



Notes:

1. Sto adhesive applied the full length of vertical terminations. Apply adhesive to the pre-wrapped insulation board and set in place while adhesive is wet. The Sto DrainScreen should be held back 1" (25mm) from termination point to allow space for adhesive.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
4. 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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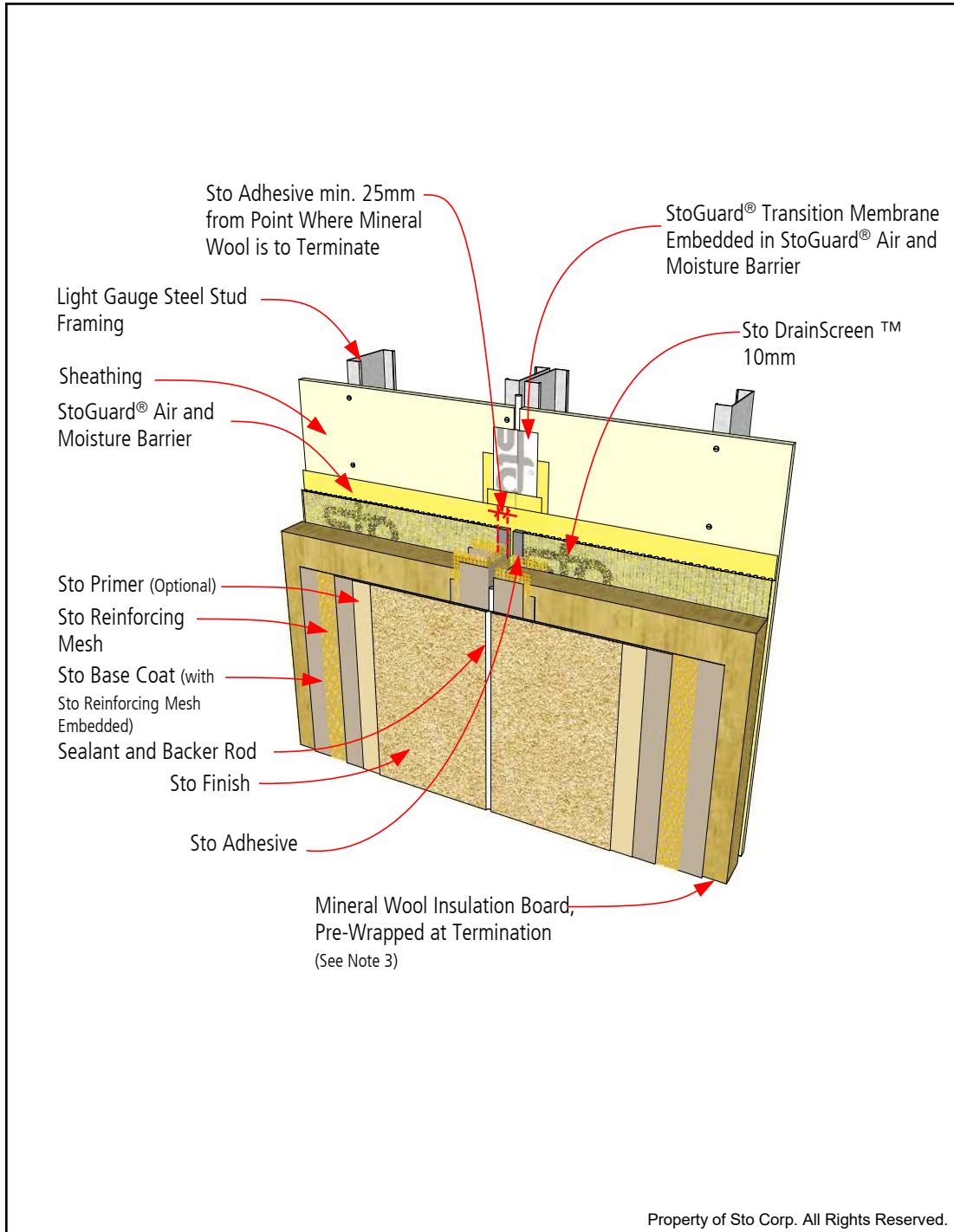
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StoTherm® ci Mineral Vertical Expansion Joint in Back-Up Wall

Detail No.: 56s.52A CAE
Date: February 2019



Notes:

1. Sto adhesive applied the full length of vertical terminations. Apply adhesive to the pre-wrapped insulation board and set in place while adhesive is wet. The Sto DrainScreen should be held back 1" (25mm) from termination point to allow space for adhesive.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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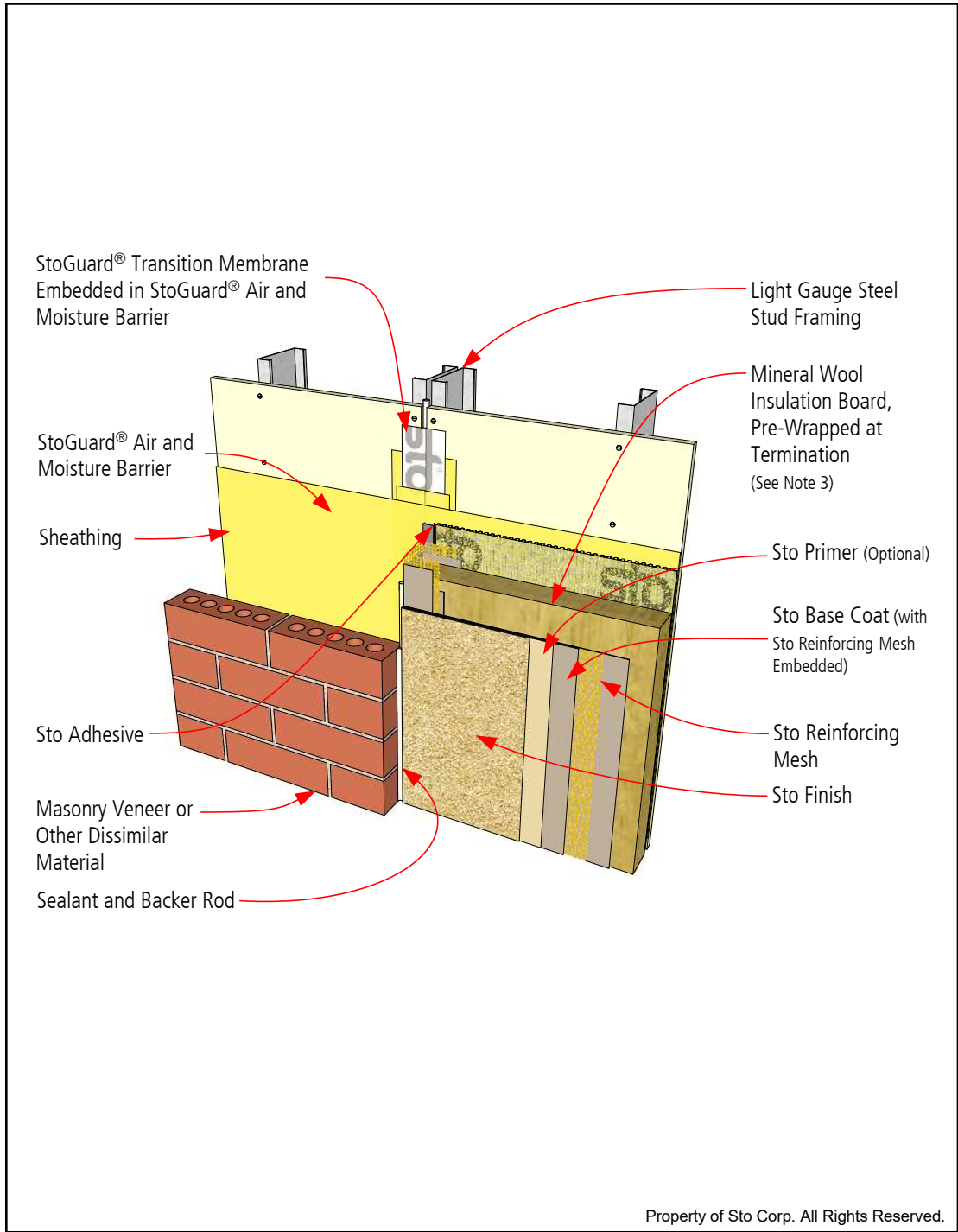
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StoTherm® ci Mineral Vertical Expansion Joint in Back-Up Wall, StoTherm ci and Dissimilar Cladding

Detail No.: 56s.52B CAE
Date: February 2019



- Notes:
1. Sto adhesive applied the full length of vertical terminations. Apply adhesive to the pre-wrapped insulation board and set in place while adhesive is wet. The Sto DrainScreen should be held back 1" (25mm) from termination point to allow space for adhesive.
 2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
 3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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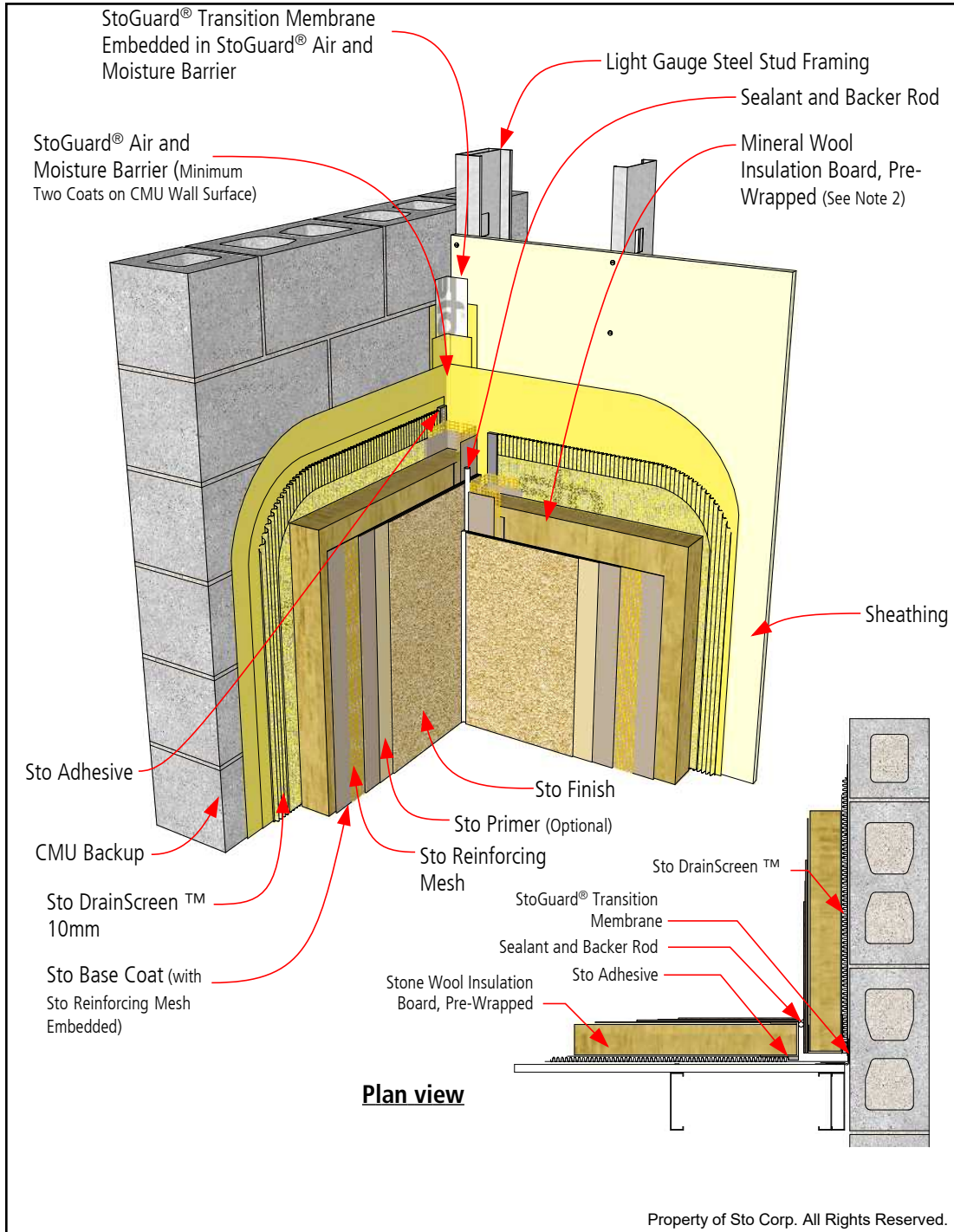
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StoTherm® ci Mineral Inside Corner with Dissimilar Backup Wall

Detail No.: 56s.53 CAE
Date: February 2019



Notes:

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
2. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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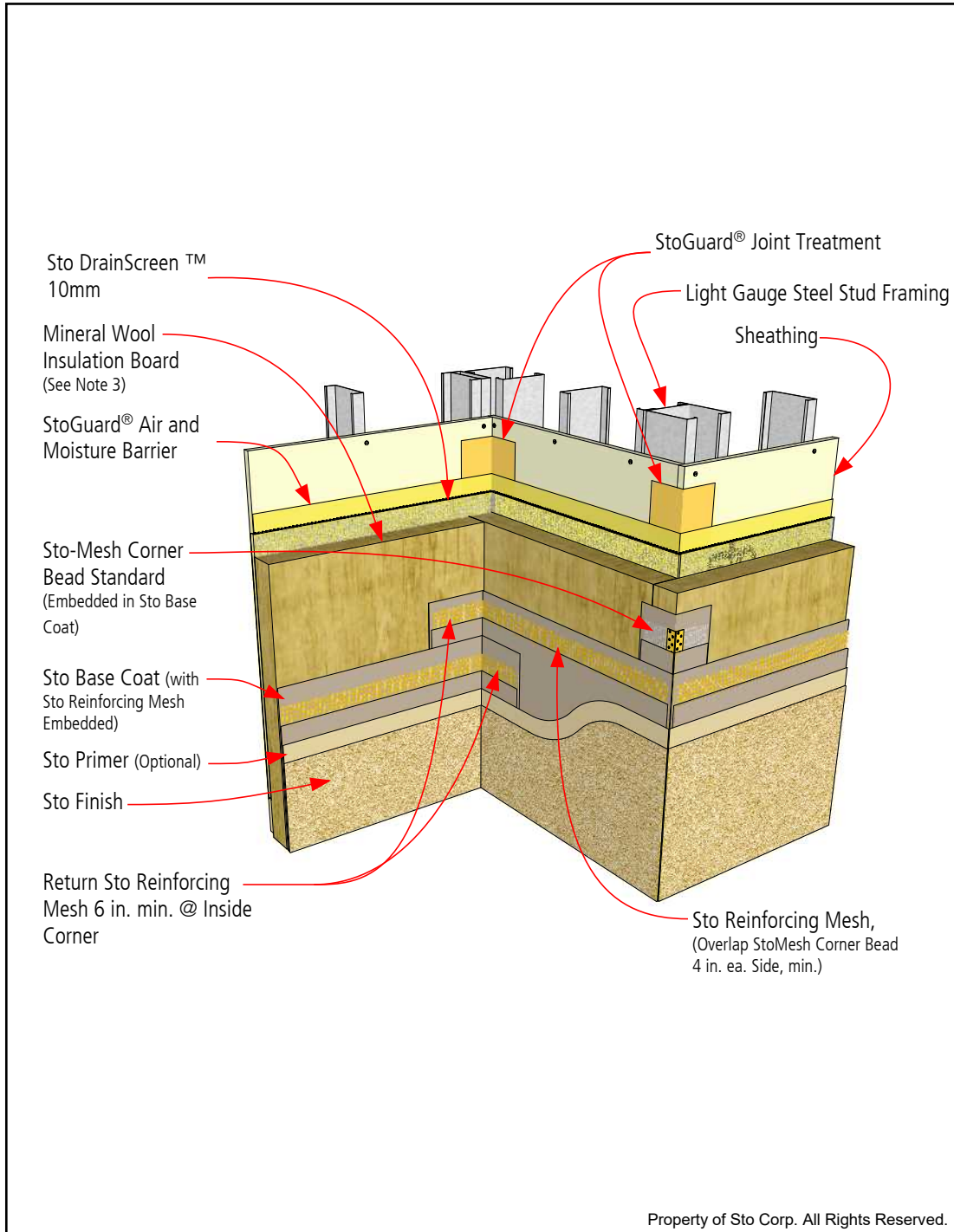
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StoTherm® ci Mineral Inside and Outside Corner with Common Substrate and StoMesh Corner Bead Reinforcement

Detail No.: 56s.54A CAE
Date: February 2019



Notes:

1. Provide joint at interior corner if movement is anticipated. Refer to Sto Detail 56s.53.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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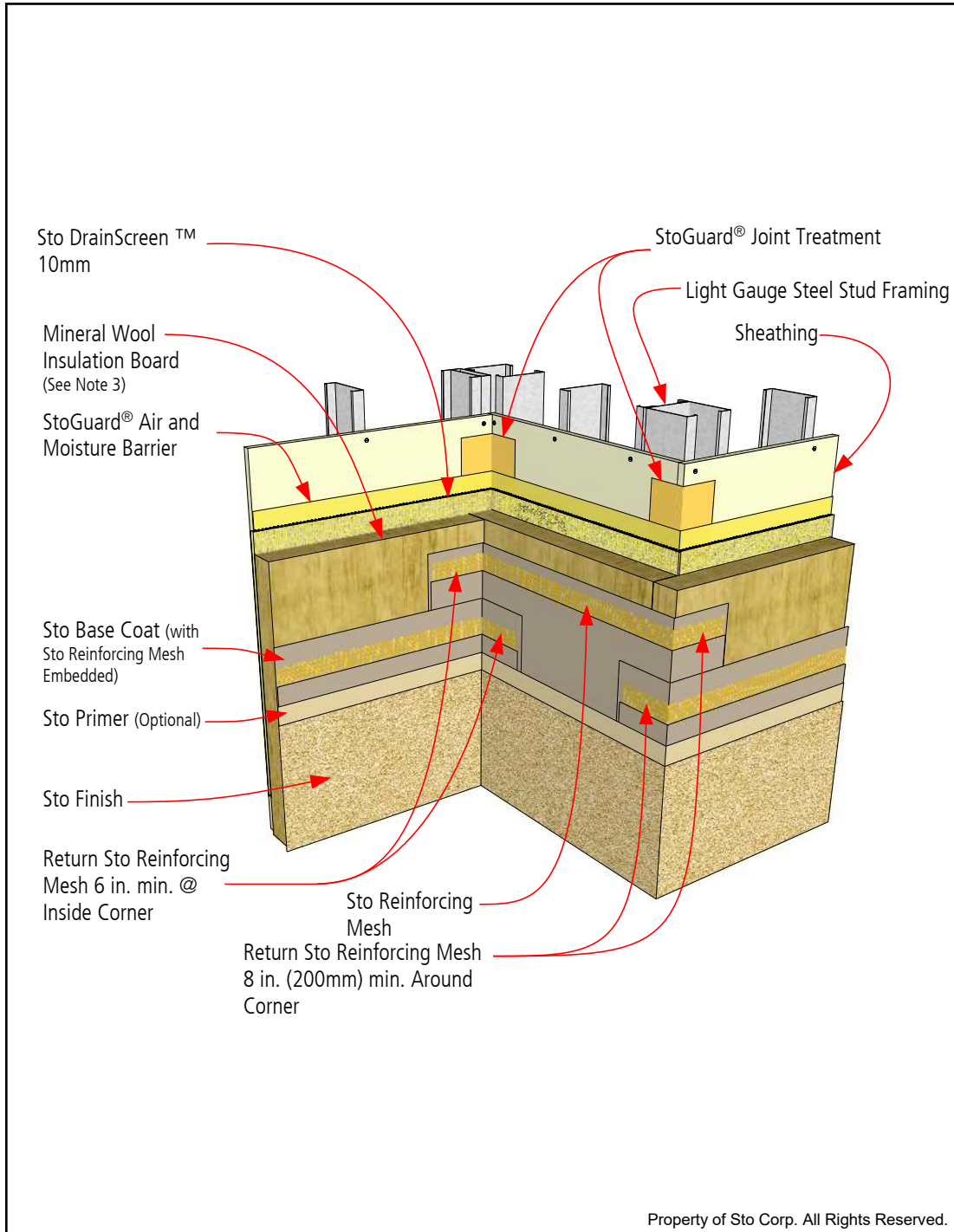
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StoTherm® ci Mineral Inside and Outside Corner with Common Substrate and Sto Reinforcing Mesh

Detail No.: 56s.54B CAE
Date: February 2019



Notes:

1. Provide joint at interior corner if movement is anticipated. Refer to Sto Detail 56s.53.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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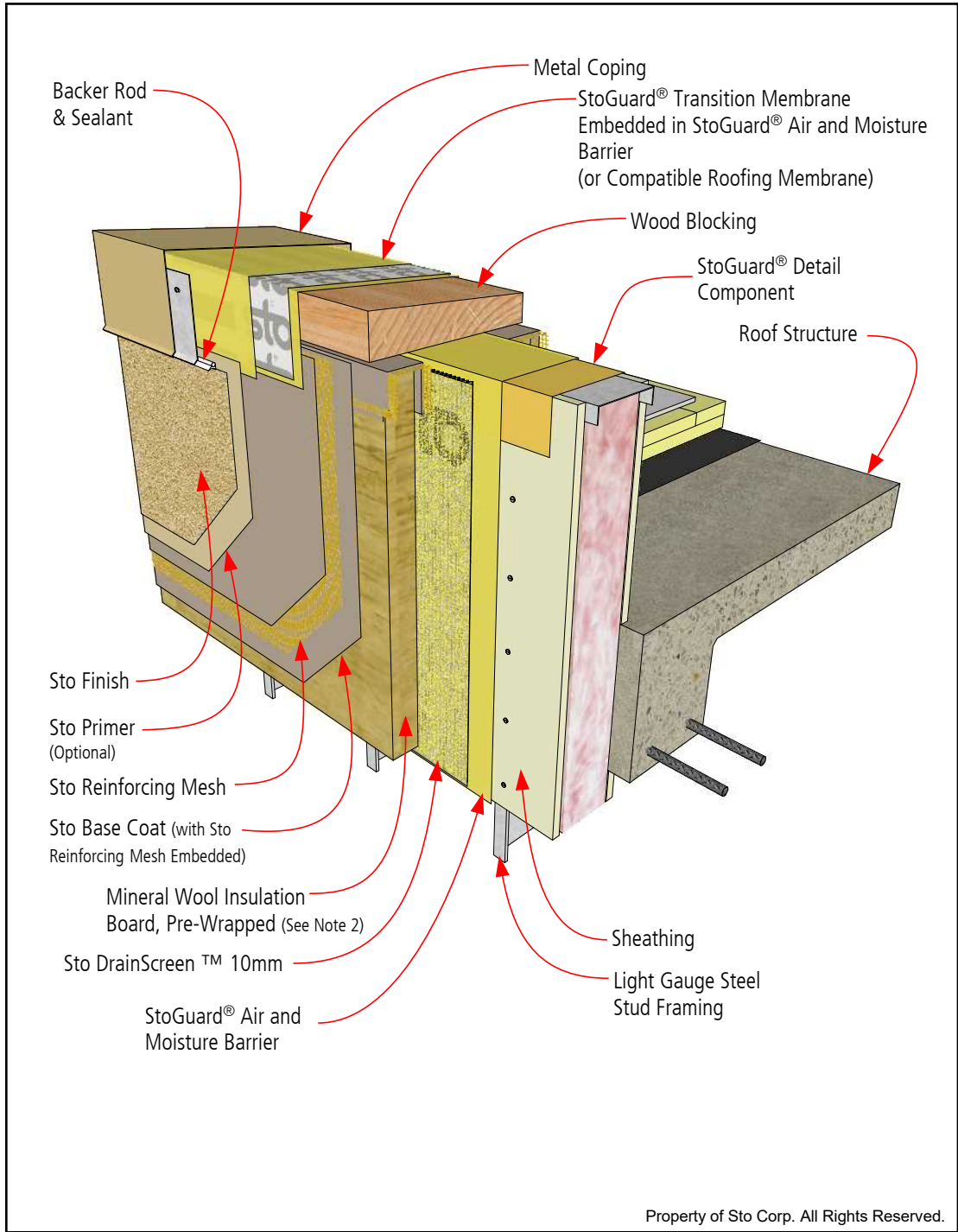
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StoTherm® ci Mineral Termination at Parapet - Front

Detail No.: 56s.60A CAE
Date: February 2019



Notes:

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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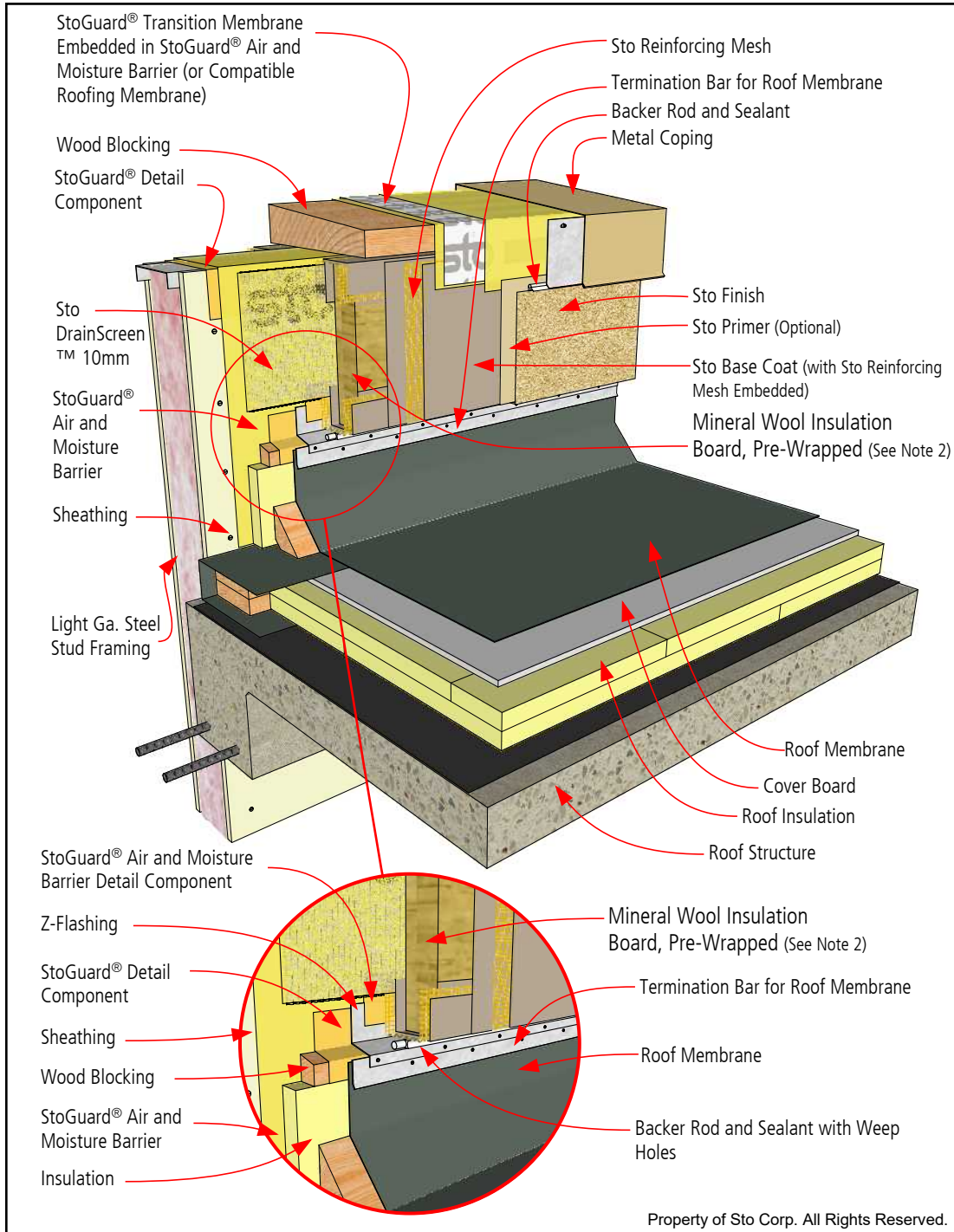
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StoTherm® ci Mineral Termination at Parapet - Back

Detail No.: 56s.60B CAE
Date: February 2019



Notes:

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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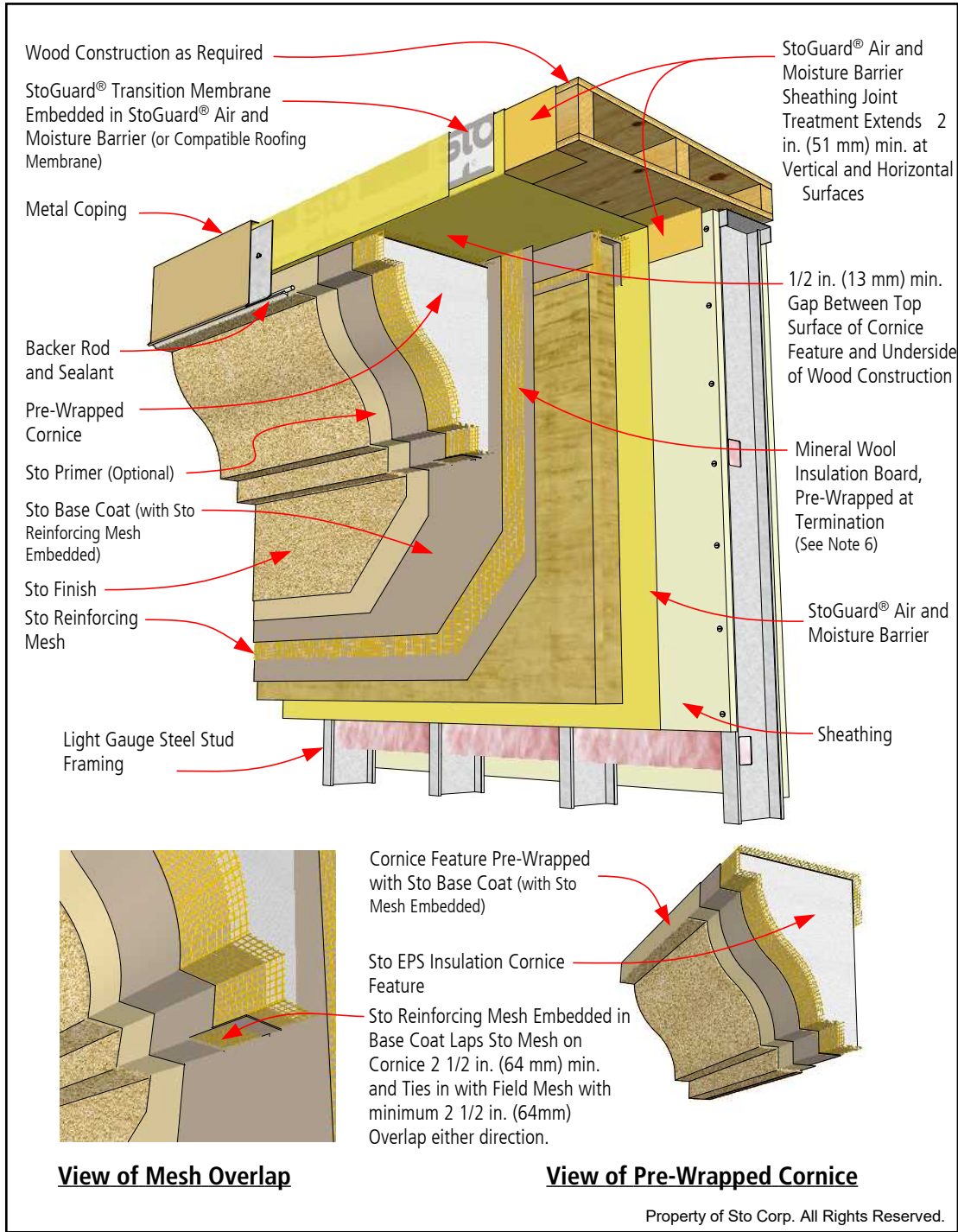
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StoTherm® ci Mineral Parapet with Cornice Feature

Detail No.: 56s.61 CAE
Date: February 2019



- Notes:**
1. EPS cornice feature may not be permitted on elevations requiring the use of mineral wool insulation. Consult with authority having jurisdiction before including in design and/or installing.
 2. Cornice feature attached with Sto TurboStick Adhesive; also used as filler and rasped smooth at any gaps between feature band and base layer of insulation board.
 3. Cornice feature may also be attached directly to StoGuard where applicable.
 4. Supplemental mechanical attachment of feature band maybe necessary in some cases. Verify installation method for adequate attachment before commencing work.
 5. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
 6. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
 7. 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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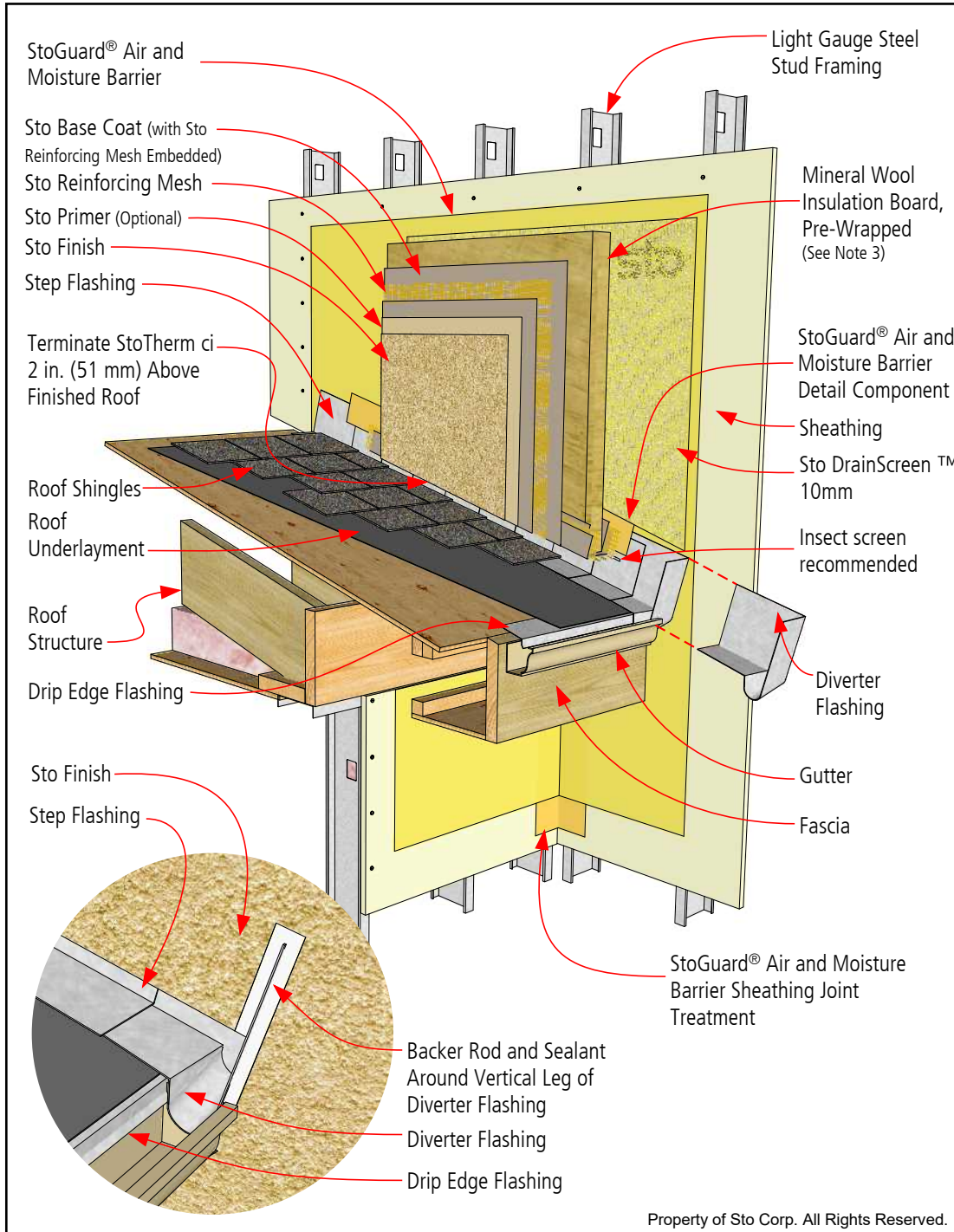
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StoTherm® ci Mineral Diverter Flashing at Roof/Wall Abutment

Detail No.: 56s.62 CAE
Date: February 2019



- Notes:**
1. Maintain minimum 2" (51 mm) gap between roof shingles and StoTherm ci termination. Increase gap for low slope roofs to prevent snow and ice accumulations.
 2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
 3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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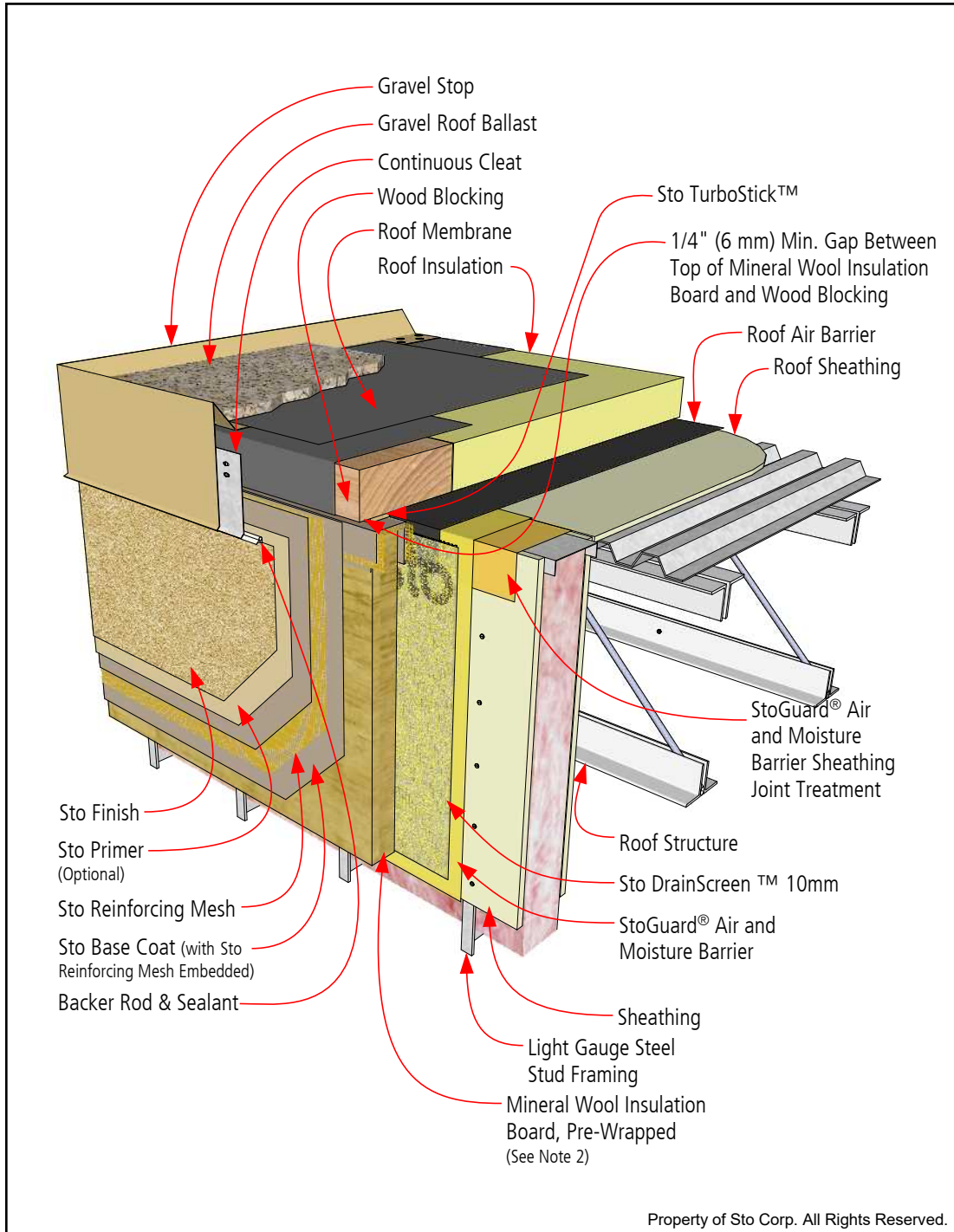
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StoTherm® ci Mineral Gravel Stop

Detail No.: 56s.63 CAE
Date: February 2019



Notes:

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
2. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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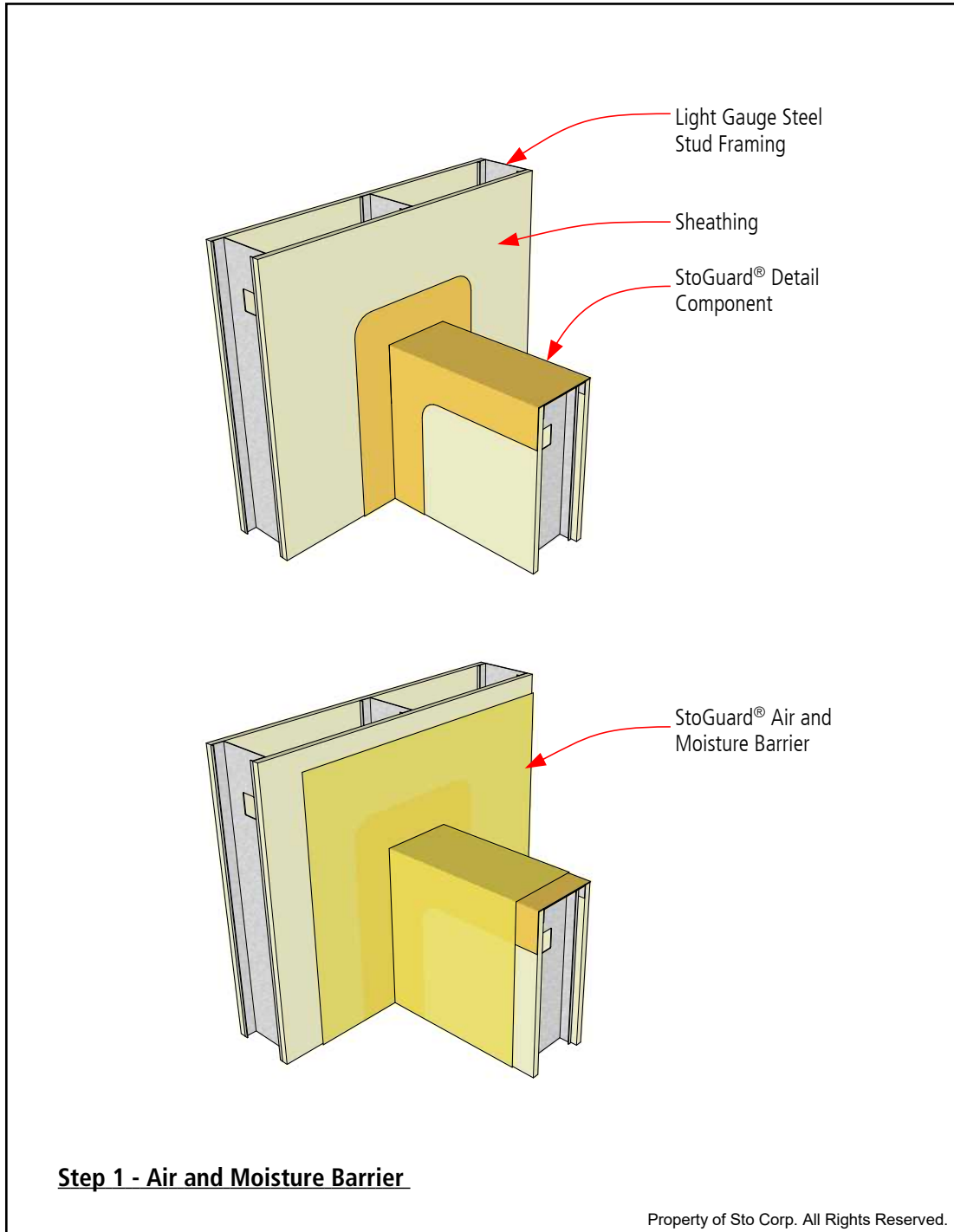
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StoTherm® ci Mineral Saddle Flashing at Lower/Higher Wall Abutment

Detail No.: 56s.64-1 CAE
Date: February 2019



Notes:

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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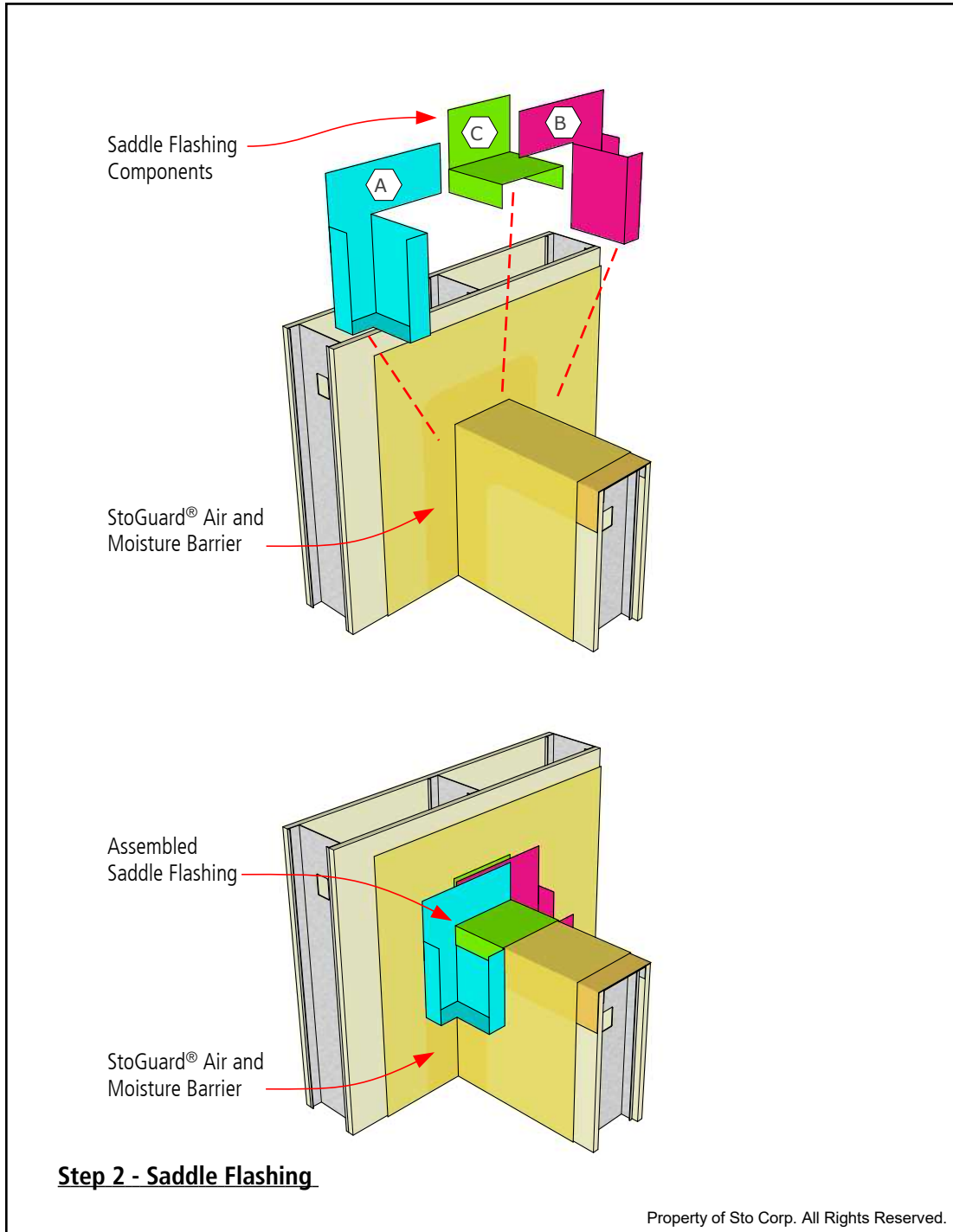
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StoTherm® ci Mineral Saddle Flashing at Lower/Higher Wall Abutment

Detail No.: 56s.64-2 CAE
Date: February 2019



Notes:

1. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
2. 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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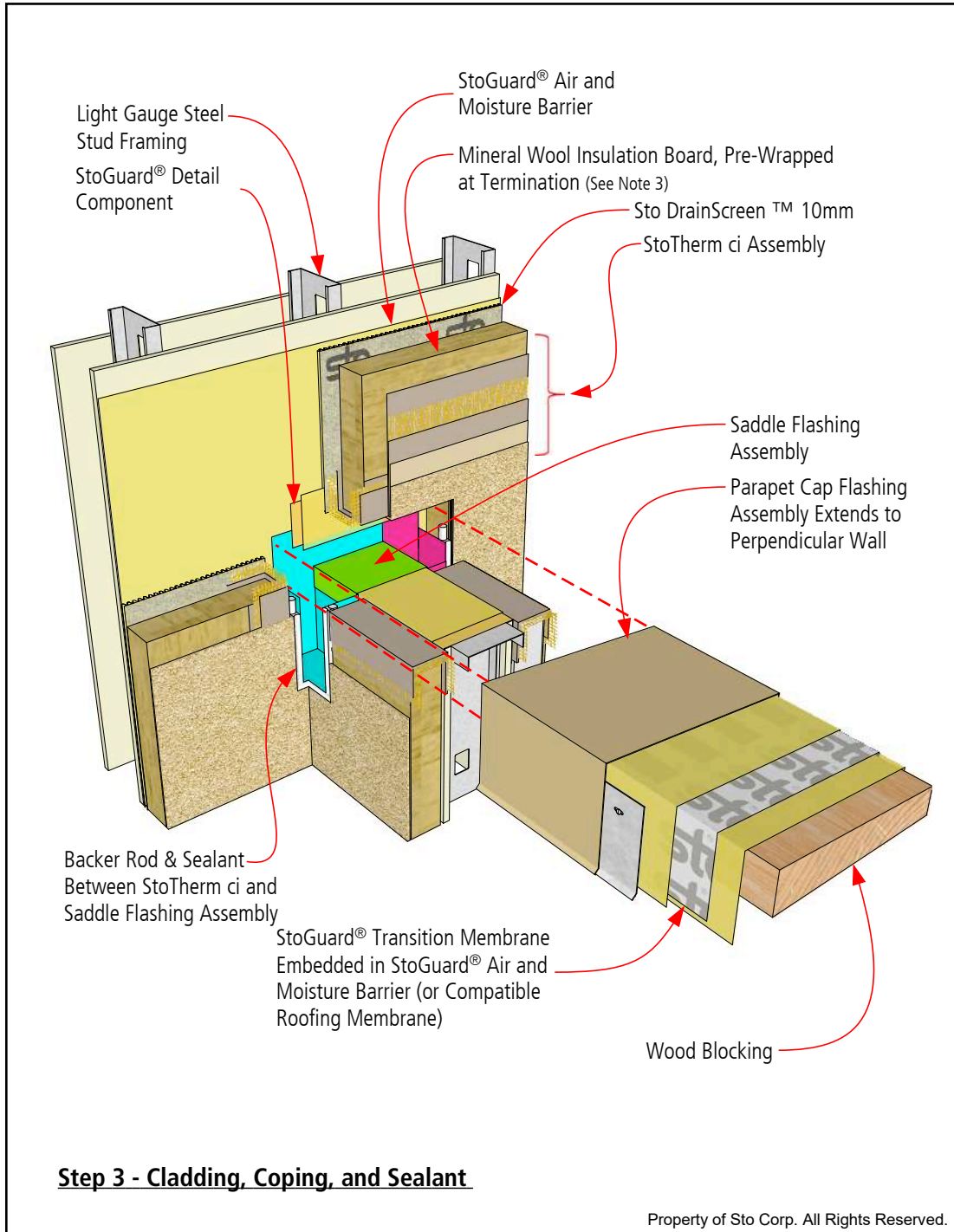
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StoTherm® ci Mineral Saddle Flashing at Lower/Higher Wall Abutment

Detail No.: 56s.64-3 CAE
Date: February 2019



Notes:

1. Provide minimum 2" (51 mm) gap between parapet cap flashing and StoTherm ci termination.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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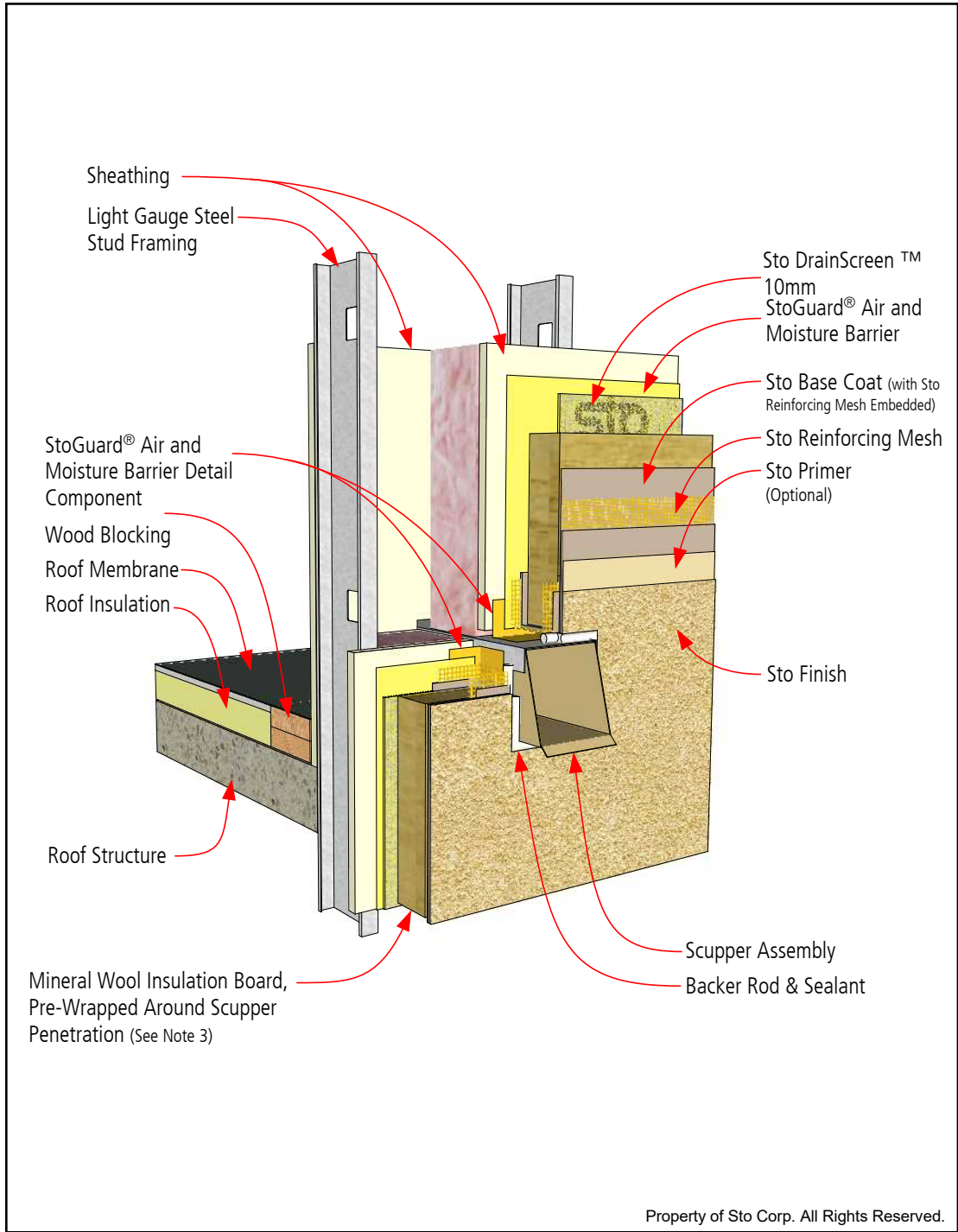
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StoTherm® ci Mineral Scupper Penetration

Detail No.: 56s.65 CAE
Date: February 2019



Notes:

1. Scuppers have a dimension greater than 100mm in any direction will require the incorporation of diagonal mesh as used at window and other penetration corners.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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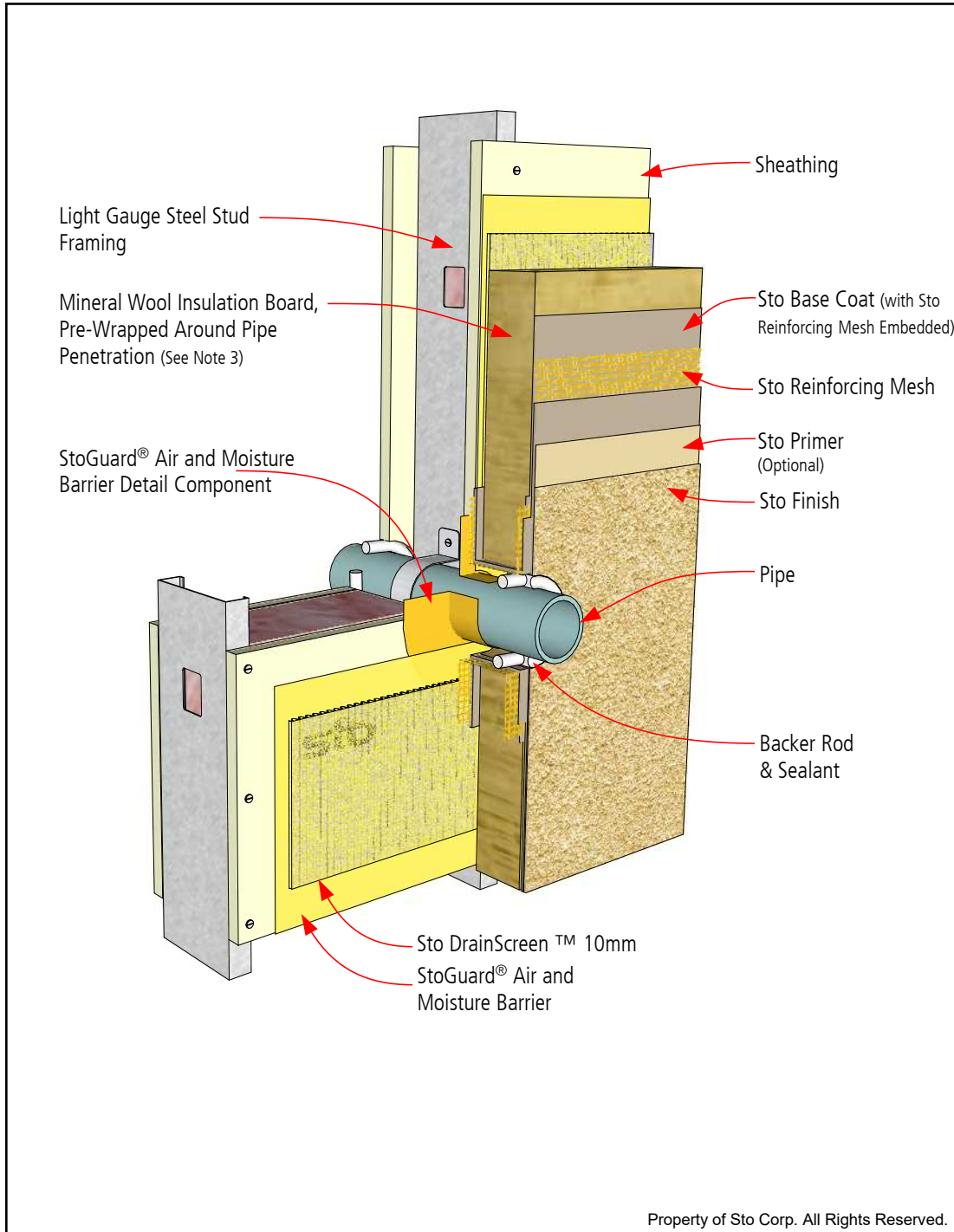
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StoTherm® ci Mineral Pipe Penetration - Precision Cut Sheathing

Detail No.: 56s.70A CAE
Date: February 2019



Notes:

1. Refer to Sto Detail 56s.70B where sheathing is "rough cut" around pipe or where gap around pipe exceeds allowable gap dimension for StoGuard Air and Moisture Barrier Detail Component.

2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.

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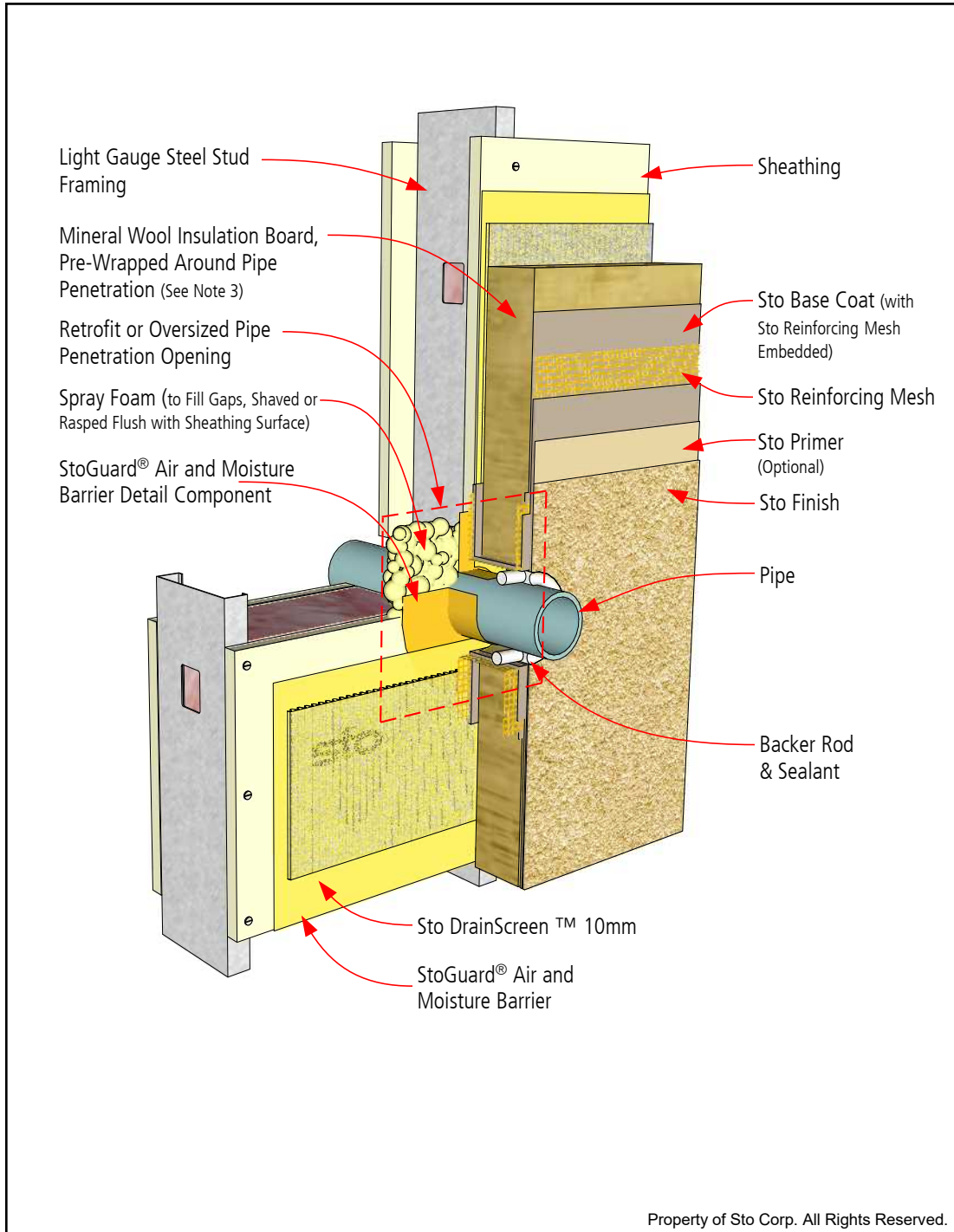
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StoTherm® ci Mineral Pipe Penetration - Rough Cut Sheathing

Detail No.: 56s.70B CAE
Date: February 2019



Notes:

1. Appropriate spray foam is used to fill gaps in sheathing. Where sheathing fits snug around pipe refer to Sto Detail 56s.70A.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
3. Mechanical Fasteners not shown. See Sto Detail 56s.02 for mechanical attachment pattern and additional information.
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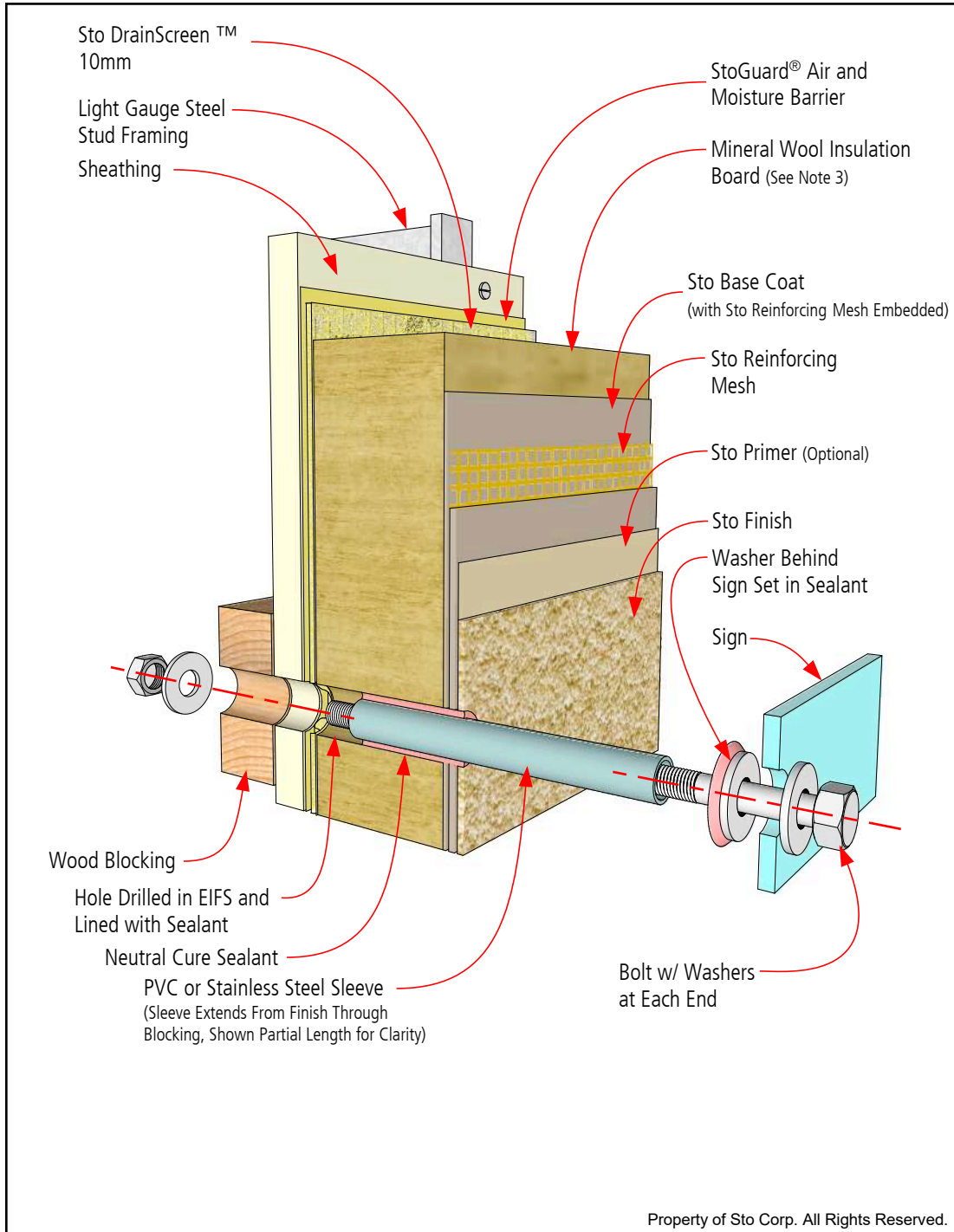
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StoTherm® ci Mineral Sign Attachment

Detail No.: 56s.71 CAE
Date: February 2019



Notes:

1. Blocking not required where solid substrate or wood-based sheathing is capable of supporting the sign (or other attached object). Use appropriate fasteners for attachment.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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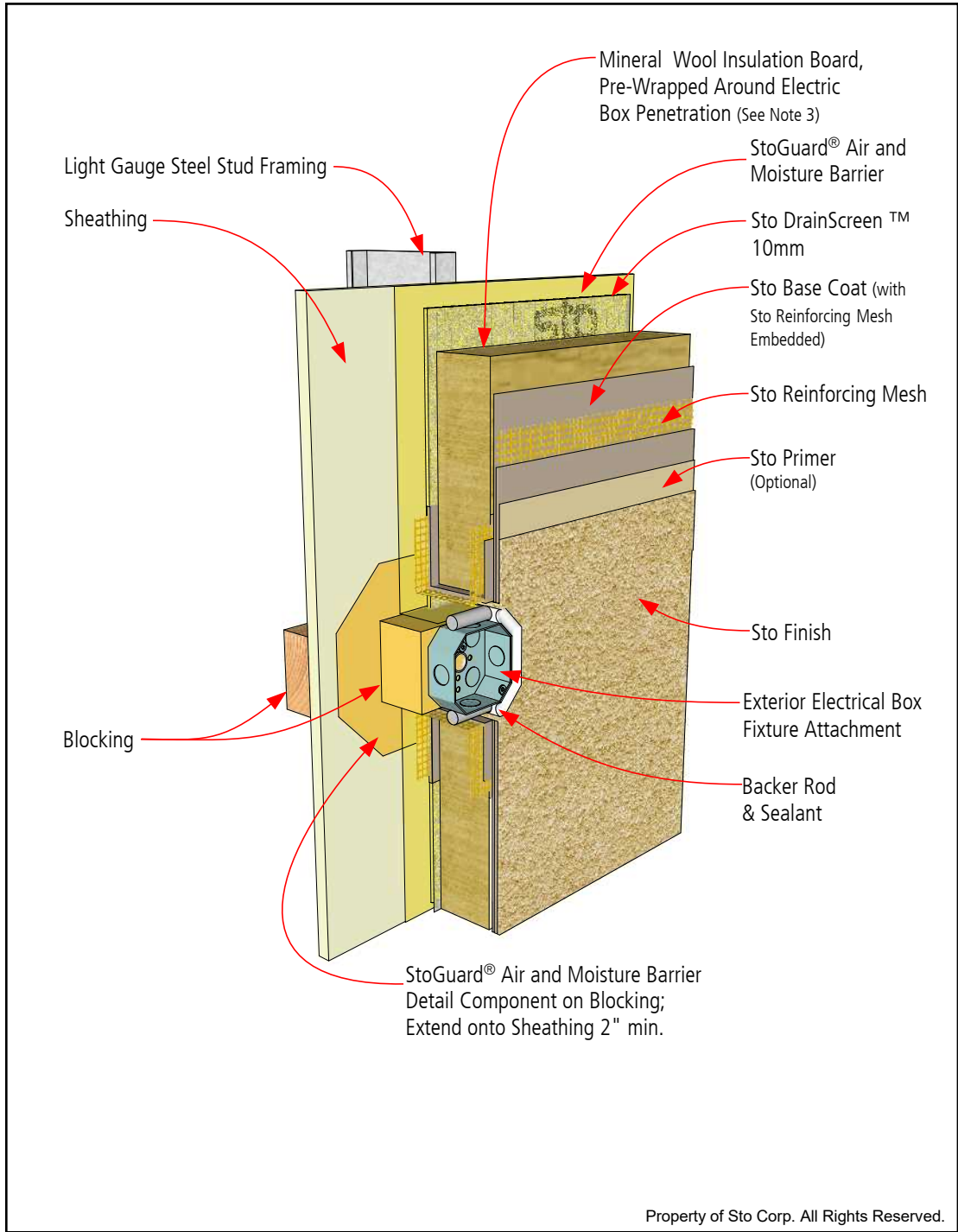
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StoTherm® ci Mineral Fixture Attachment

Detail No.: 56s.73 CAE
Date: February 2019



Notes:

1. Attach fixture to blocking or solid substrate. Where attached to blocking seal the blocking with Sto Detail Component.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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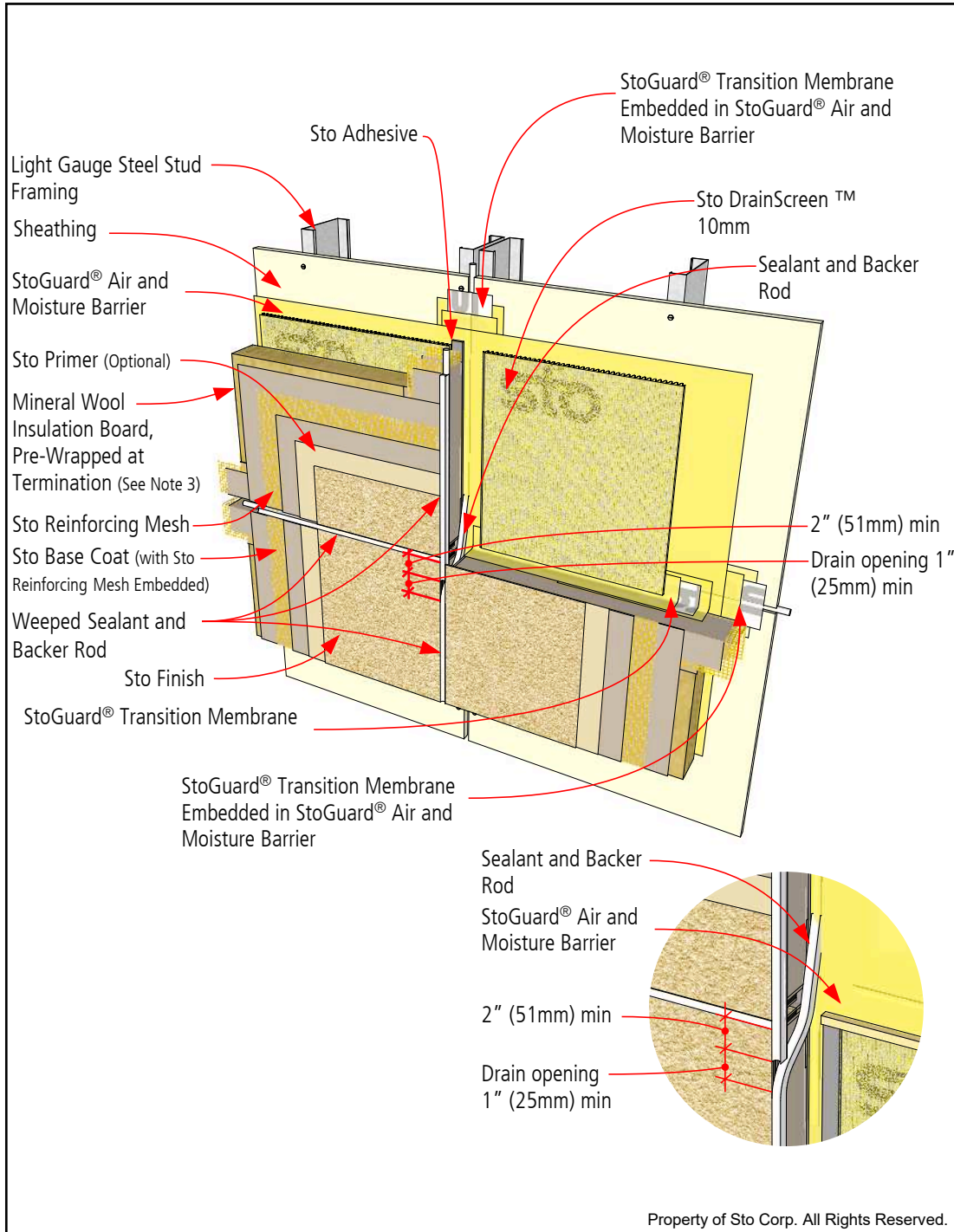
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StoTherm® ci Mineral Rainscreen Joint Configuration

Detail No.: 56s.74 CAE
Date: February 2019



Notes:

1. Sto adhesive applied the full length of vertical terminations. Apply adhesive to the pre-wrapped insulation board and set in place while adhesive is wet. The Sto DrainScreen should be held back 1" (25mm) from termination point to allow space for adhesive.
2. Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.
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