



Building with conscience.

StoPowerwall® ExtraSeal®

Design Guide and Detail Booklet
Series 65c.xx | January 2025

Facades



Exterior Wall
Systems

StoPowerwall® ExtraSeal® is a stucco wall assembly for direct applications to concrete or concrete masonry (CMU) wall construction. It combines the strength and durability of traditional stucco with Sto ExtraSeal® water-resistive air barrier and Sto high performance finishes.

StoPowerwall ExtraSeal® can be used in residential or commercial wall construction for superior aesthetics, durability, and air and moisture control.





Design Guide



Table of Contents

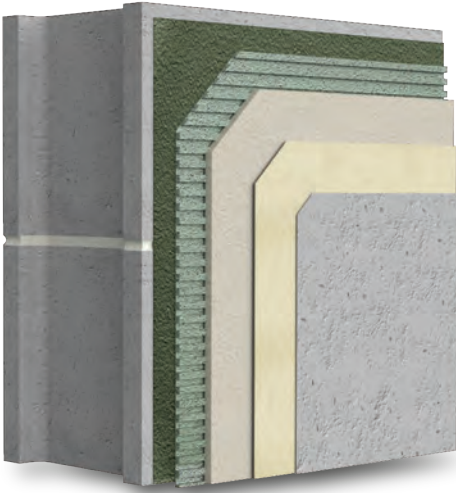
System Overview	3
System Components	3
Assembly Diagram	6
General Notes	6
References	11
StoGuard Product Use Chart	11
Guide Details	12



ATTENTION

The final design of any project is the sole responsibility of the Design Professional, with considerations for compliance with local building and design codes and requirements. Sto Corp. accepts no liability for design, engineering, or workmanship of any project. The information provided herein is in addition to other technical data provided by Sto Corp. (System Bulletin, Specification, Guide Details, etc). For more information, please visit www.stocorp.com

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StoPowerwall® ExtraSeal®

StoPowerwall ExtraSeal is a portland cement stucco wall covering that is intended for use over code compliant concrete and concrete masonry wall construction. It incorporates Sto ExtraSeal®, a trowel applied water-resistive air barrier, StoPowerwall® portland cement stucco, Sto primers, and Sto textured or StoCast finishes.

Sto ExtraSeal is the water-resistive air barrier component of the system and is applied as a skim coat and scratch coat directly to concrete and concrete masonry. StoPowerwall stucco is applied as a brown coat over the Sto ExtraSeal scratch coat. StoPowerwall stucco is ASTM C926¹ compliant and is installed in conformance with ASTM C926 practices. StoPowerwall stucco is available as a concentrate to which graded sand is added at the job site, or pre-sanded to simplify mixing in the field.

Sto proprietary integrally colored textured finishes or StoCast finishes are used in lieu of portland cement stucco finish to achieve brighter, richer colors and textures, and offer a wide variety of finish looks such as stone, brick, or wood on a single substrate. Aside from Sto proprietary blends of stucco, Sto Corp. also maintains a list of stucco vendors, whose products are suitable for use and warranted in StoPowerwall stucco wall assemblies. Refer to the **Addendum to StoPowerwall Specifications** for a listing of vendors, stucco types, information on building code compliance, and any limitations that may apply.

NOTE: Sto documents referenced in this booklet are in **bold** and can be viewed or downloaded by visiting the documentation center at www.stocorp.com, where other information - Guide Specification, System Bulletin, and Product Bulletins – is also available.

Trowel Applied Water-Resistive Air Barrier Product



Sto ExtraSeal® - Trowel applied, single component polymer modified portland cement-based water-resistive air barrier for use over prepared concrete and concrete masonry (CMU) walls.

Detail Component Products



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® Conformable Membrane - A versatile, easy to install membrane that simplifies detailing of transitions for air barrier continuity in Sto proprietary wall systems and other wall assemblies.



Sto Mesh & Sto Detail Mesh - A variety of designed coated glass fiber meshes used to provide reinforcement and impact resistance in Sto claddings.



Sto Armor Mat & Sto Armor Mat XX - A heavy, specifically designed coated glass fiber mesh used to provide ultra-high impact resistance in Sto claddings.



Patching and Leveling



Sto Leveler and Skim Coat - Trowel applied polymer modified cement-based patch and leveling material for applications up to 1/4 inch (6 mm) in depth

Stucco



StoPowerwall® Stucco - is a controlled blend of Portland cement with additives. When combined with graded sand and water at the jobsite, it is an ASTM C926 compliant stucco.



StoPowerwall® Pre-Blended - is an ASTM C926 compliant factory pre-blend of Portland cement with graded sand.



StoPowerwall® Scratch & Brown - is an ASTM C926 compliant, factory prepared portland cement stucco base coat to which sand and water are added at the job site.

Adhesives, Basecoats and Crack Defense System



Sto BTS® Plus - A trowel or spray applied, one-component, polymer-modified, high build cement based, dry powder material used as an adhesive and base coat.



Sto BTS® Xtra - A trowel or spray applied, lightweight factory blended one component polymer modified portland cement based extra high build adhesive and base coat.



Sto Primer/Adhesive - A trowel or spray applied, two-component, acrylic-based liquid to which portland cement is added for use as an adhesive and basecoat.



Sto Primer/Adhesive-B - A trowel or spray applied, one-component, polymer-modified, cement-based, dry powder material used as a base coat.



Sto RFP - A trowel or spray applied, ready mixed acrylic-based, fiber reinforced plaster material that is used as a base coat.



Sto Flexyl - A trowel or spray applied, acrylic-based liquid, to which portland cement is added and used as a waterproof adhesive and base coat.






Sto Watertight Coat - A two-component, trowel or spray applied waterproofing membrane with a low vapor permeability based on a unique combination of acrylic emulsion, Portland cement and fine fibers.




Sto TurboStick® - is a ready-to-use, single component polyurethane foam adhesive used for filling seams and gaps in penetrations and attachments, and as an adhesive to attach foam shapes or trim.

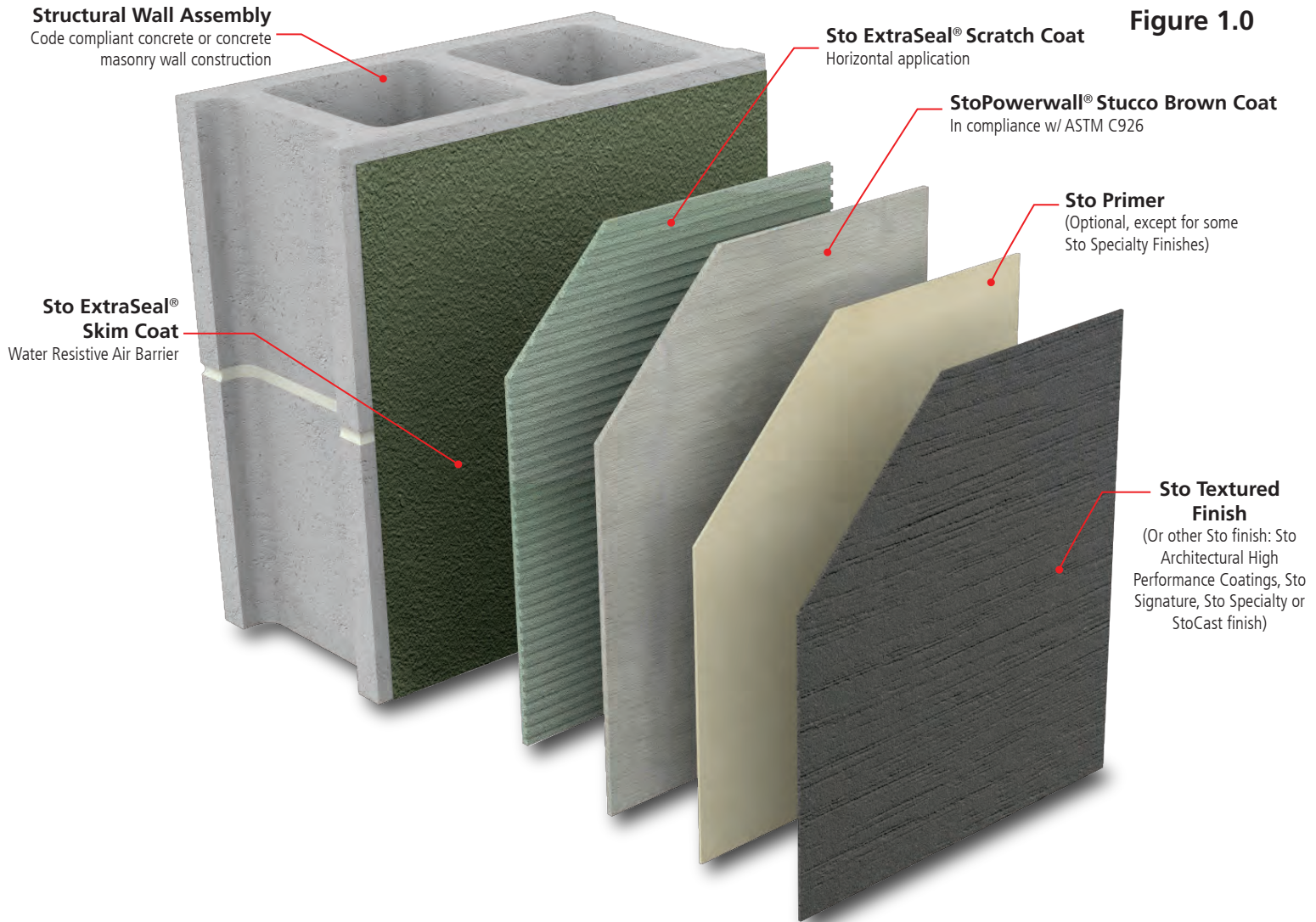


Primer (optional)

-  **StoPrime® Hot** - A roller, brush or spray-applied primer that is alkali resistant and is used over prepared vertical above grade wall surfaces. This primer enables application of finish before the 28-day cure period for stucco.
-  **StoPrime®** - A roller, brush or spray-applied, tintable, primer used to reduce surface water absorption of the base coat, and to enhance finish color, texture, and coverage of finishes.
-  **StoPrime® Sand** - A roller, brush or spray-applied, tintable and sanded primer used to reduce surface water absorption of the base coat, and to enhance finish color, texture, and coverage of finishes.

Finishes

-  Please visit www.stocorp.com for information on a wide range of available Sto exterior decorative and protective Textured Finishes, Signature Finishes, Specialty Finishes, and StoCast Finishes as selected and approved by the design professional or owner on the basis of job site installed mock-ups.



Structural Loads

1. Racking Loads, Load Bearing Walls:

Racking resistance in StoPowerwall ExtraSeal assemblies is provided by the structural backup of concrete or concrete masonry wall construction. Assuming the structural backup wall is load bearing, it also carries roof and floor loads. In all cases, stresses from racking and gravity loads are not to be transferred to the portland cement stucco wall covering, as they can cause cracking in the stucco.

2. Wind Loads:

StoPowerwall ExtraSeal transfers positive wind loads to the supporting wall construction and resists negative wind loads via adhesive attachment to the structural wall, which provides ultimate wind load resistance. Most important for adhesive attachment is substrate preparation to ensure that the surface is free from dust, dirt, grease, form oil, curing compounds, paints or coatings, efflorescence, salts, laitance or other surface conditions that could interfere with adhesion. The surface should be absorbent and slightly scarified or have surface roughness. StoPowerwall ExtraSeal components must not be installed over unprepared substrates or any substrate where adhesion is in question. Where the surface is too smooth, dense, or non-absorbent to receive the stucco components, or where form oil, an existing coating, or other surface contamination prohibits adhesion, furred or self-furred lath should be installed as specified by the design professional. Refer to StoPowerwall or StoPowerwall DrainScreen guide specifications and verify adequacy of lath attachment with respect to design wind pressures.



Structural Loads (cont'd)

3. Fixture Attachments: StoPowerwall® ExtraSeal® should not be used as a base for mechanical anchoring of attachments such as signage or light fixtures. Where fixtures must be attached, anchor into the structural backup wall.

Fire Protection

1. Noncombustible Construction:

StoPowerwall® ExtraSeal® can be used on Types I, II, III, and IV noncombustible wall construction. It is also suitable for use on Type V, combustible wall construction.

2. Fire Resistance-Rated Wall Assemblies:

In general, the StoPowerwall® ExtraSeal® system will not diminish the hourly rating of the concrete or concrete masonry backup wall construction. The 2021 IBC Table 721.1 (2) lists concrete and concrete masonry fire-resistance-rated wall assemblies to which StoPowerwall® ExtraSeal® can be added without changing the hourly rating. Also see **Fire Resistance Ratings of Concrete Masonry Assemblies (TEK 07-01D)**² published by the National Concrete Masonry Association.

Engineering judgements, modeling, or rational analysis by qualified fire protection engineers can also be used to determine if a particular wall assembly that includes StoPowerwall ExtraSeal will achieve an hourly rating.

Moisture Protection

1. Water-Resistive Air Barrier:

Sto ExtraSeal® is a vapor permeable water-resistive air barrier and is installed directly to prepared vertical above grade concrete and concrete masonry substrates. Sto ExtraSeal® is applied in two coats, first as a skim coat, which provides a smooth surface for connecting to other air barrier materials such as roofing membrane or foundation waterproofing, with appropriate air barrier transition components. Once the skim coat is applied and connecting air barrier transition components are in place, stucco accessories, such as casing beads, expansion and control joints are installed. Sto ExtraSeal® is then applied as a scratch coat to which the StoPowerwall® Stucco brown coat is applied. Sto ExtraSeal, when applied as directed, provides resistance to air leakage, and protection against water infiltration in the event of a breach in StoPowerwall® Extraseal® system while in service. It is not intended to correct faulty workmanship such as the absence or improper integration of flashing and coping in the wall assembly, nor is it intended to correct defective components of construction such as windows that leak into the wall assembly. Flashing should always be integrated in the wall assembly to direct water to the exterior, not into the wall assembly, particularly at potential leak sources such as windows.

As a component of an air barrier assembly Sto ExtraSeal® minimizes the risk of condensation within the building envelope by resisting mass transfer of moisture in the air to a cold surface in the wall assembly. A complete air barrier system consists of individual air barrier materials installed on walls, roof, and foundation, and air barrier components, such as windows and doors. that must be connected continuously to create an effective air barrier system. Many of the transition details between the stucco wall assembly and the roof, wall, or adjacent components in the wall assembly are effectively made with StoGuard® Detail Components to create a StoGuard® water-resistive air barrier system. The design/construction professional must take construction sequencing into account when designing an "airtight" assembly to ensure continuity and long-term durability. The effects of air tightness on mechanical ventilation should also be included in the overall project design.



Moisture Protection (cont'd)

Water-Resistive Air Barrier: (cont'd)

An air barrier should not be confused with a vapor retarder, which may also be used in the wall assembly to retard water vapor diffusion and reduce the risk of condensation. Generally, a vapor retarder is placed on the warm side of the insulation. Specifically, it is placed on the interior side of the insulation in cold climates. A vapor retarder may not be necessary, or appropriate, depending on the wall components and the range of temperature/humidity conditions inside and outside. A vapor retarder should not be used on the inside of walls in hot, humid climates. A dew point analysis and/or dynamic hygrothermal modeling should be performed to determine whether a vapor retarder is appropriate. Sto manufactures vapor permeable, vapor retarder, and vapor impermeable air barriers/water-resistive barriers for use in StoPowerwall® assemblies.

Refer to information at www.stocorp.com.

2. Flashing:

Flashing is required to direct water to the exterior where it is likely to penetrate components in the wall assembly and to divert water away from, not into, the exterior wall, including, above window and door heads, beneath window and door sills, at roof/wall intersections, decks, abutments of lower walls with higher walls, above projecting features, at floor lines, and at the base of the wall.

3. Grade Condition:

Stucco is required to terminate minimum 4-inches (102mm) above earth grade, and minimum 2-inches above hardscape (pavers/sidewalk). Increased clearance should be provided in freeze/thaw climate zones where snow drifts can accumulate against the wall surface. Do not use StoPowerwall® ExtraSeal® below grade.

4. Other Moisture Protection Considerations:

Sto Powerwall®ExtraSeal® is a direct-applied stucco wall assembly that resists water penetration at its outer surface. Direct-applied stucco wall assemblies do not have a drainage plane for incidental water that penetrates the outer surface to escape by gravity flow to a flashing that re-directs water to the exterior. As with any exterior wall assembly, StoPowerwall®ExtraSeal® requires proper design, design detailing, and integration with other components of wall construction, to provide a wall assembly that effectively resists air and water infiltration. The weather protection afforded by StoPowerwall®ExtraSeal® should be evaluated by the design-construction professional in relation to building design, height, orientation, climate zone, and any other factors that affect the severity of exposure to rain and water infiltration.

Do not use StoPowerwall® ExtraSeal® on surfaces subject to continuous or intermittent water immersion or hydrostatic pressure. Prevent the accumulation of water behind StoPowerwall® ExtraSeal®, either by condensation or water leakage into the wall construction, in the design and detailing of the wall assembly, and with proper sequencing and protective measures during construction.

Do not use StoPowerwall® ExtraSeal® on roofs or roof-like conditions. Do not use StoPowerwall® ExtraSeal® on weather exposed projecting ledges, sills, or other projecting features, unless supported by framing or other structural support and protected with metal coping or flashing. Refer to Sto Details.

For further information see Sto Tech Hotline No. 0403-BSc, **Critical Detail Checklist for Wall Assemblies**, Sto Tech Hotline No. 0603-BSc, **Moisture Control Principles for Design and Construction of Wall Assemblies**, and Sto Tech Hotline No. 1001-BSc, **Effects of Temporary Heating on Construction Materials in Cold Weather**



Thermal Insulation

StoPowerwall® assemblies are insulated in the stud cavity of frame walls built on the interior of concrete or concrete masonry wall construction, or with insulation applied directly to the interior of the wall. For more effective and efficient thermal insulation and where continuous insulation is required by building codes, refer to StoPowerwall® ci, an exterior insulated stucco wall assembly with continuous XPS (Extruded Polystyrene), or GPS (Graphite Polystyrene) insulation.

Impact Resistance

StoPowerwall® ExtraSeal® is an impact resistant wall system, often specified for use on ground floors and other areas where abuse and impact resistance are important. Other Sto systems, such as StoPowerwall® HVHZ (High Velocity Hurricane Zone), comply with Miami-Dade County requirements for large and small missile impact resistance, for areas of the country under the threat of hurricanes. Refer to information at www.stocorp.com.

Color Selection

Certain highly saturated colors such as dark blue, violet, or “fire engine” red require the use of organic tints to achieve their color. Organic tints are more prone to fade than inorganic tints. See Sto Tech Hotline No. 0893-EC, **Fading in EIFS and Architectural Coatings**, for further information on this topic and how to avoid color problems. Surface alkalinity (pH) can also affect final color of finishes and is an important consideration for stucco surfaces that will receive acrylic or acrylic elastomeric finishes, such as those specified for use in StoPowerwall® assemblies. A surface pH of less than 10 is recommended. pH should be checked at multiple locations on the wall before primer or finish is applied. A minimum cure time of 28 days is generally recommended before applying finishes to allow the pH of the stucco surface to neutralize. StoPrime Hot is the preferred primer for use on stucco surfaces as it “masks” surface alkalinity and reduces the time period between application of stucco and finish, allowing for finish application in less than 28 days. Refer to Sto Tech Hotline No. 1202-CF, **Alkaline Substrates and Polymeric Finishes**.

Joints

1. At through wall expansion joints and at joints formed with back-to-back casing beads, back joints with the appropriate StoGuard Detail Component. Care must be taken when backing casing beads or other accessories with membrane tapes or other impervious materials to terminate them at the edges of expanded flange accessories, as neither Sto ExtraSeal® nor StoPowerwall® Stucco will adhere to them. Refer to Sto Details. Seal stucco terminations and accessory butt joints with appropriate sealant and seal all penetrations through the stucco wall assembly with appropriate backer rod and sealant, as dictated by joint type.
2. Expansion and control joints are required in stucco wall assemblies to prevent or minimize the risk of cracking. Below is a list of general rules for the use of joints and accessories. Also, refer to Sto Details.
 - Provide two-piece expansion joints in the stucco assembly where building movement is anticipated: at joints in the substrate or supporting construction, where the system is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, and at columns and cantilevered areas.
 - Provide one piece expansion joints every 144 ft² (13 m²). Do not exceed length to width ratio of 2-1/2:1 in expansion joint layout and do not exceed more than 18 feet (5.5 m) in any direction without an expansion joint. Where casing bead is used back-to-back at the expansion joint, back the joint with the appropriate StoGuard® Detail Component. In some cases the spacing of joints may be increased to a maximum of 240 ft² (22.3m²) to accommodate joint spacing within the backup concrete or concrete masonry wall construction. If spacing is increased exercise care with other aspects of the stucco installation to minimize the risk of cracking.
 - Provide one piece expansion joints at through wall penetrations, for example, at corners above and below doors and windows.
 - Provide minimum 3/8 inch (9 mm) wide sealant joints where the stucco abuts windows, doors and other through wall penetrations, and terminate the stucco with casing bead.



Joins (cont'd)

- Provide appropriate accessories at stucco terminations and joints.
- Avoid the use of channel reveal accessories which can interfere with proper stress relief (channel reveal accessories do not function as control or expansion joints, unless specifically designed to accommodate movement).
- Provide appropriate sealant at stucco terminations and at stucco accessory butt joints.
- Indicate location of joints, accessories, and accessory type on architectural drawings.
- Maintain water-resistive air barrier continuity at joints with StoGuard Detail Components.

Trim, Reveals, and Projecting Architectural Features

In general, trim around windows, at floor lines, and other areas of construction is simpler and faster to achieve with EPS foam trim than forming it with stucco. All foam trim and projecting architectural features should have a minimum 1:2 [27°] slope along their top surface. Minimum ¾-inch (19 mm) foam thickness must remain beneath all finished reveals. All horizontal reveals should have a minimum 1:2 [27°] slope along their bottom surface. Slope should be increased for northern climates to prevent accumulation of ice/snow and water on the sloped surface. Where foam trim or the bottom surface of reveals project more than 2-inches (51 mm) from the face of the StoPowerwall® ExtraSeal® wall plane, the top surface should be protected with waterproof base coat, Sto Flexly or Sto Watertight Coat. Periodic inspections and increased maintenance may be required to maintain appearance and surface integrity of finishes installed on weather exposed sloped surfaces. Limit projecting features to easily accessible areas and limit total area to facilitate and minimize maintenance. Refer to Sto Details.

Note: the guide details in this booklet depict PVC accessories. These accessories are generally used in hot and coastal climates and may not be suitable for use in cold climates. Consult with the accessory manufacturer to determine best type of accessories to use for any particular project.

Efflorescence

Efflorescence is a normal occurrence in portland cement-based products and can affect final appearance of finish products installed over stucco. Efflorescence is generally caused by water getting into or behind the stucco and migrating to the exterior while carrying soluble salts that are within concrete, masonry, stucco and other portland cement-based materials. Proper proportioning of stucco ingredients, proper placement of stucco, and moist curing of the stucco to fully hydrate the portland cement in the stucco mix will provide a stucco that is resistant to water penetration and will minimize efflorescence. The use of a primer such as StoPrime® Hot, specifically designed to resist efflorescence, and Sto high performance finishes, will add to the water penetration resistance of the stucco wall assembly. Protective measures during construction to prevent water from getting into the wall, along with the use of flashing, coping, overhangs, and other methods of construction that keep water away from the wall will also help to prevent or minimize efflorescence.

Cracking

Some degree of cracking is normal in portland cement stucco and should be expected. Cracking is generally not caused by a material defect in the stucco and can be minimized by following sound design and construction practice such as: proper installation of accessories, proper incorporation of stress relief joints in the construction, the use of properly graded sand, proper proportioning of stucco mix ingredients, use of the minimum amount of water in the stucco mix for placement, and avoiding the use of excess water, moist curing of the stucco after it has been applied, and proper sequencing of construction to avoid stresses in the freshly placed stucco. For example, roof loads should be in place before stucco is applied to exterior load bearing walls, and interior drywall should be installed on the inside of exterior walls before the stucco is installed to avoid stress transfer to freshly placed stucco.

Additional protection against cracking can be achieved by adding Sto Crack Defense, a Sto glass fiber mesh reinforced layer embedded in Sto base coat, to the outer surface of the cured stucco brown coat, before the exterior finish is installed. Refer to Sto Details.



Table 1.1 - StoGuard® Air & Water-Resistive Barrier Product Applications

StoGuard® Detail Component	Sheathing Joints and Corners	Flashing and Rough Opening Protection	Penetrations	Static Joints and Seams	Dynamic Joints
Sto RapidGuard®	✓	✓	✓	✓	
StoGuard® Conformable Membrane	✓	✓	✓	✓	✓

References

¹ Standard Specification for Application of Portland Cement-Based Plaster, ASTM C926-20, ASTM International, West Conshohocken, PA.

² Fire Resistance Ratings of Concrete Masonry Assemblies, TEK 07-01D, National Concrete Masonry Association, Herndon, VA.



Guide Details

Components

System Components	65c.00
Sto High Performance Architectural Coating over Concrete	65c.00AC
System Components with StoCast Brick	66c.00 SCB
System Components with StoCast Wood	65c.00 SCW
System Components with MVES (Masonry Veneer Engineered System)	65c.00 MVES
System Components with Sto Crack Defense System	65c.00A CDS

Installation at Grade

Termination at Grade	65c.01A
Termination at Sidewalk	65c.01B
Termination at Sidewalk with Sealant	65c.01C
Termination at Balcony	65c.10A
Termination at Balcony with Sealant	65c.10B
Termination at Balcony with Soffit	65c.12

Installation at Joints

Frame to CMU at Floor Line	65c.15
Frame to CMU at Wall Transition	65c.16
Floor Line Joint	65c.21A
Floor Line Joint with Stucco Continuous	65c.21B

Installation at Windows

Rough Opening Protection	65c.23
Box Window - Sill/Jamb	65c.27
Box Window - Head	65c.28
Recessed Window - Sill/Jamb	65c.29
Recessed Window - Head	65c.30

Installation at Soffit

Soffit: Uninsulated and Vented	65c.35
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Installation at Dissimilar Material

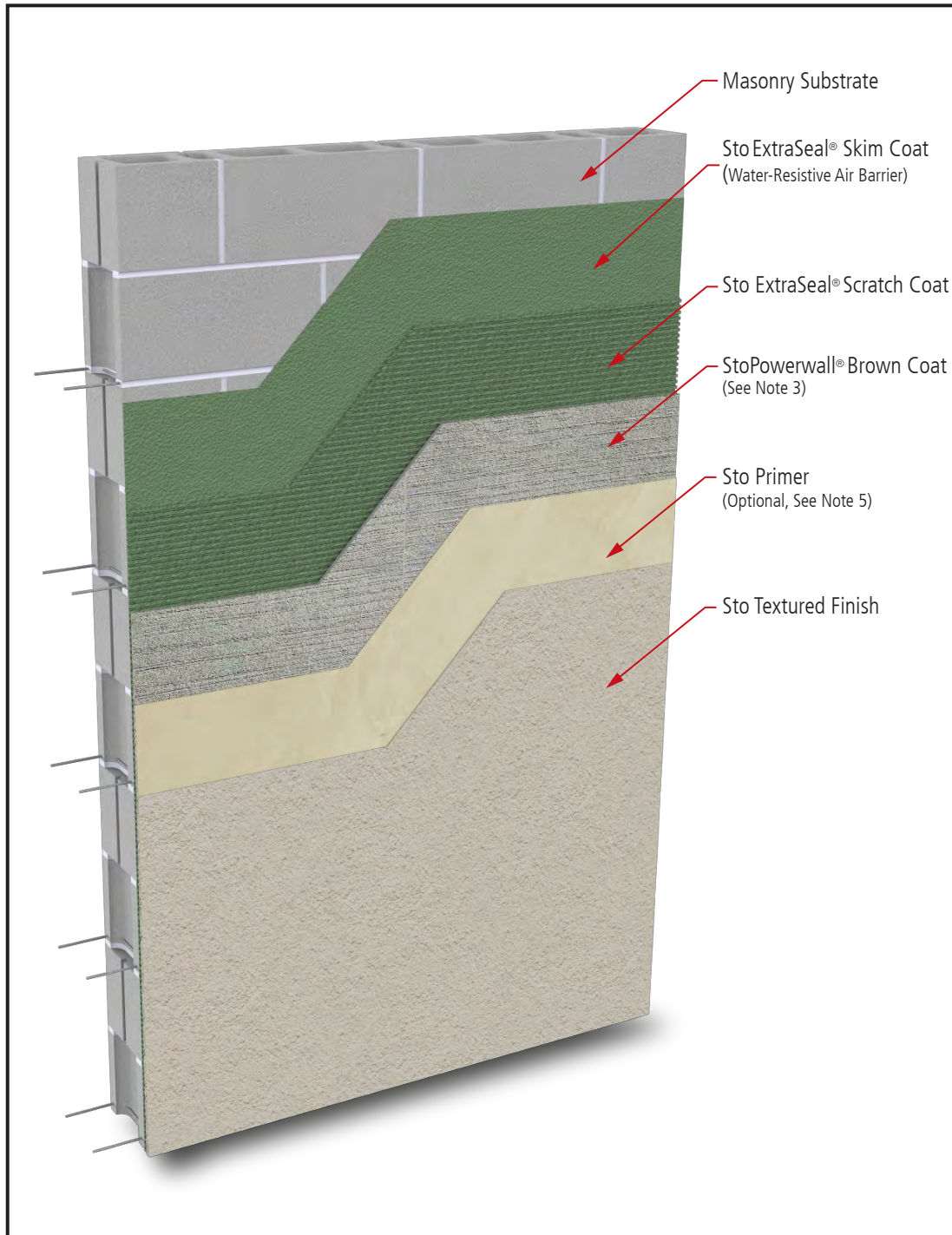
Movement Joint at Dissimilar Construction at Column Interface	65c.41A
Rigid Joint at Dissimilar Construction at Column Interface - Option 1	65c.41B
Rigid Joint at Dissimilar Construction at Column Interface - Option 2	65c.41C

Installation at Parapet, Saddle Flashing and Buildouts

Aesthetic Feature	65c.60A
Aesthetic Feature (greater than 2 inches)	65c.60B
Pipe Penetration	65c.70
Fixture Attachment	65c.73
Parapet	65c.81

StoPowerwall® ExtraSeal® System Components with Sto Textured Finish

Detail No.: 65c.00
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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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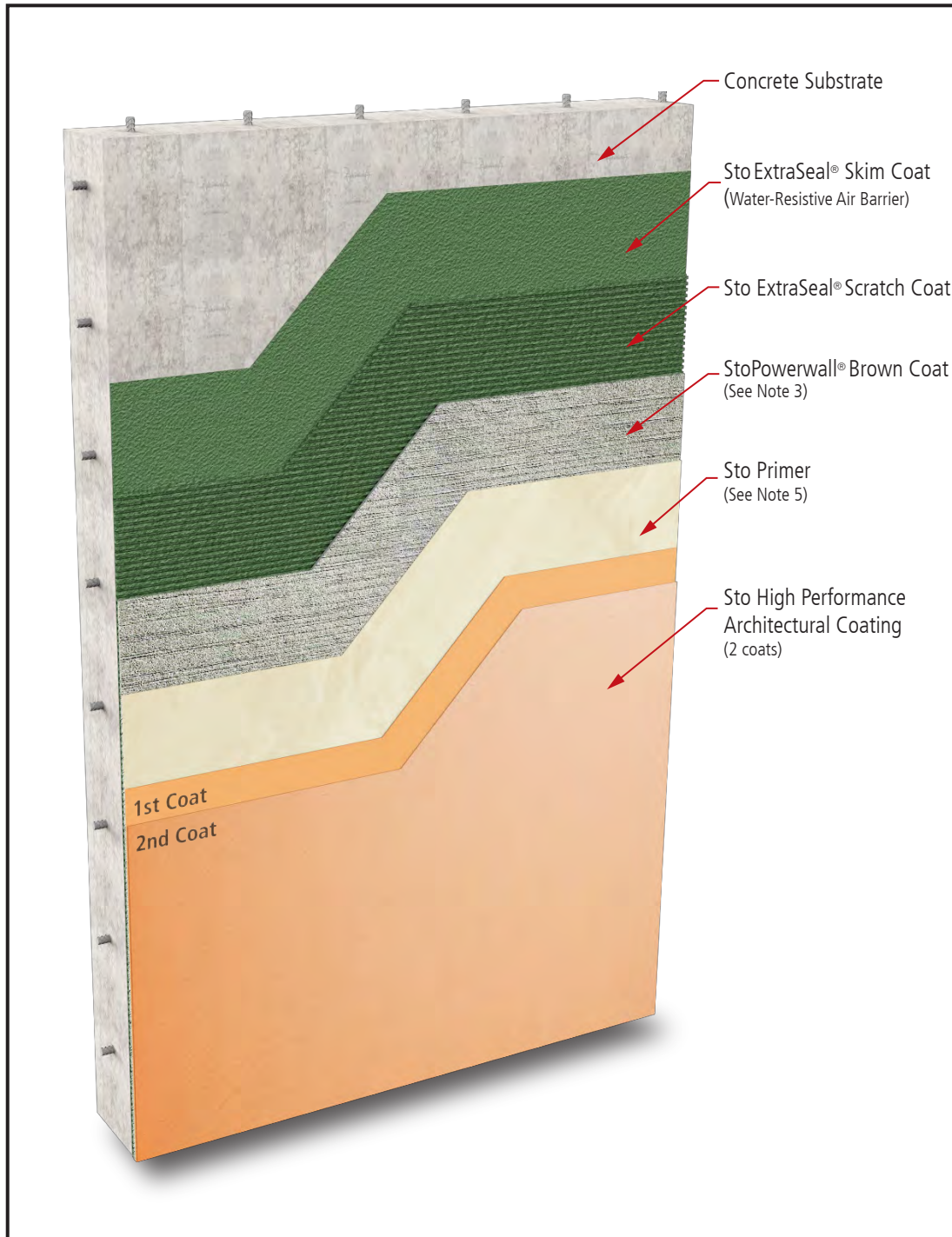
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StoPowerwall® ExtraSeal® with Sto High Performance Architectural Coating

Detail No.: 65c.00AC
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Refer to specific Sto Coating product bulletins.
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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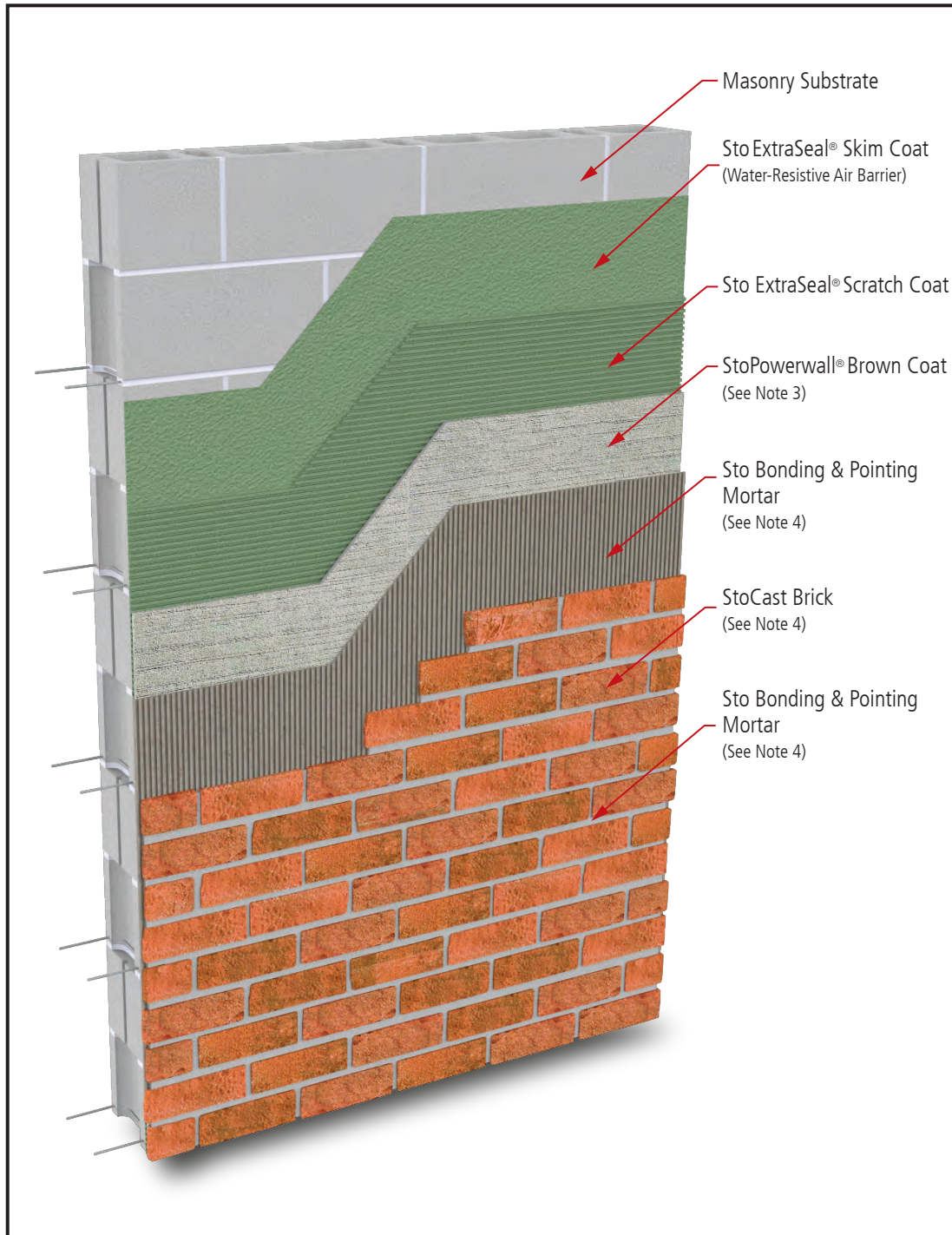
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www.stocorp.com



StoPowerwall® ExtraSeal® with StoCast Brick

Detail No.: 65c.00 SCB
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to the StoCast Brick Application Guide for more information.
5. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
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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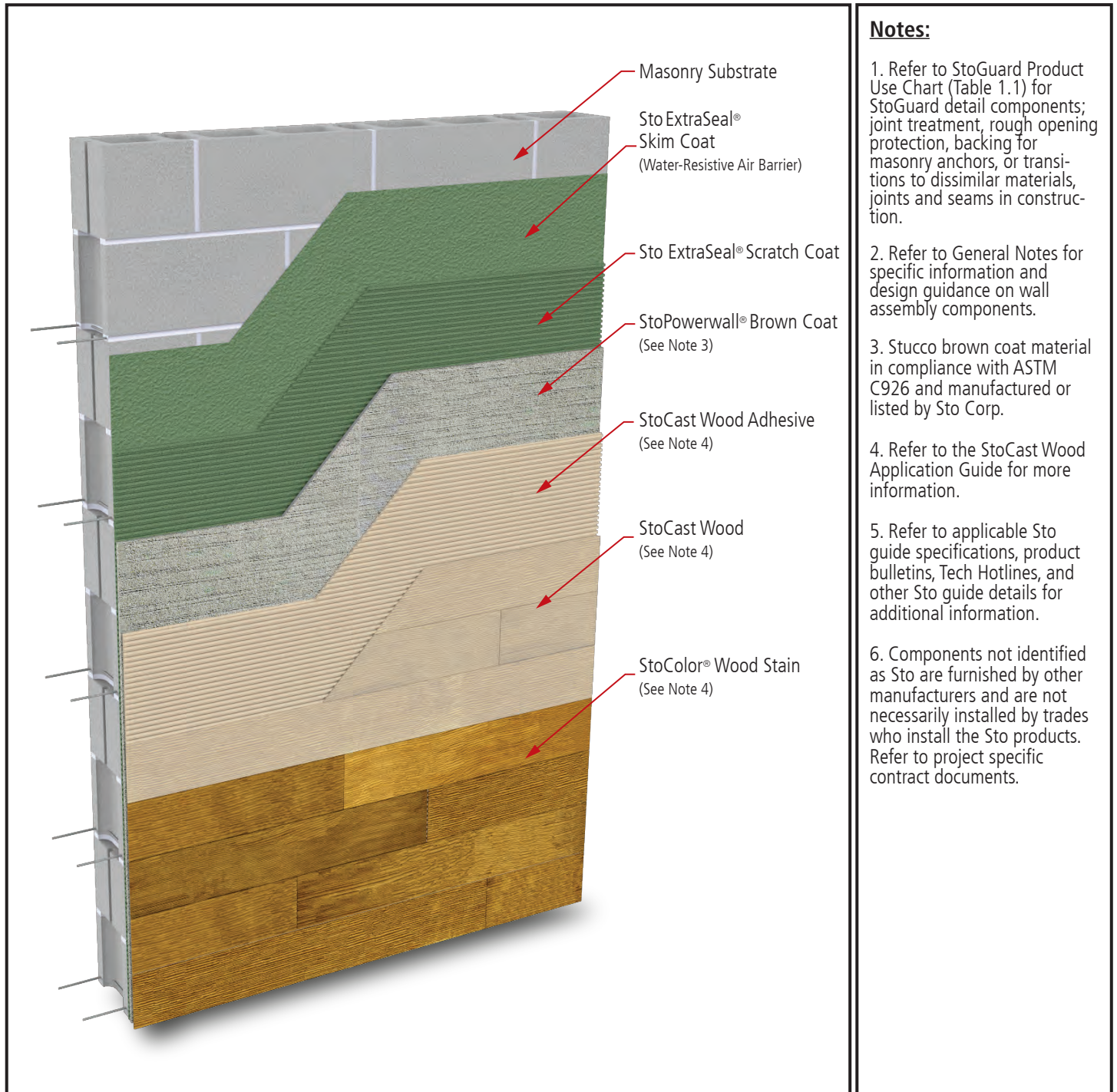
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StoPowerwall® ExtraSeal® with StoCast Wood

Detail No.: 65c.00 SCW
Date: January 2025



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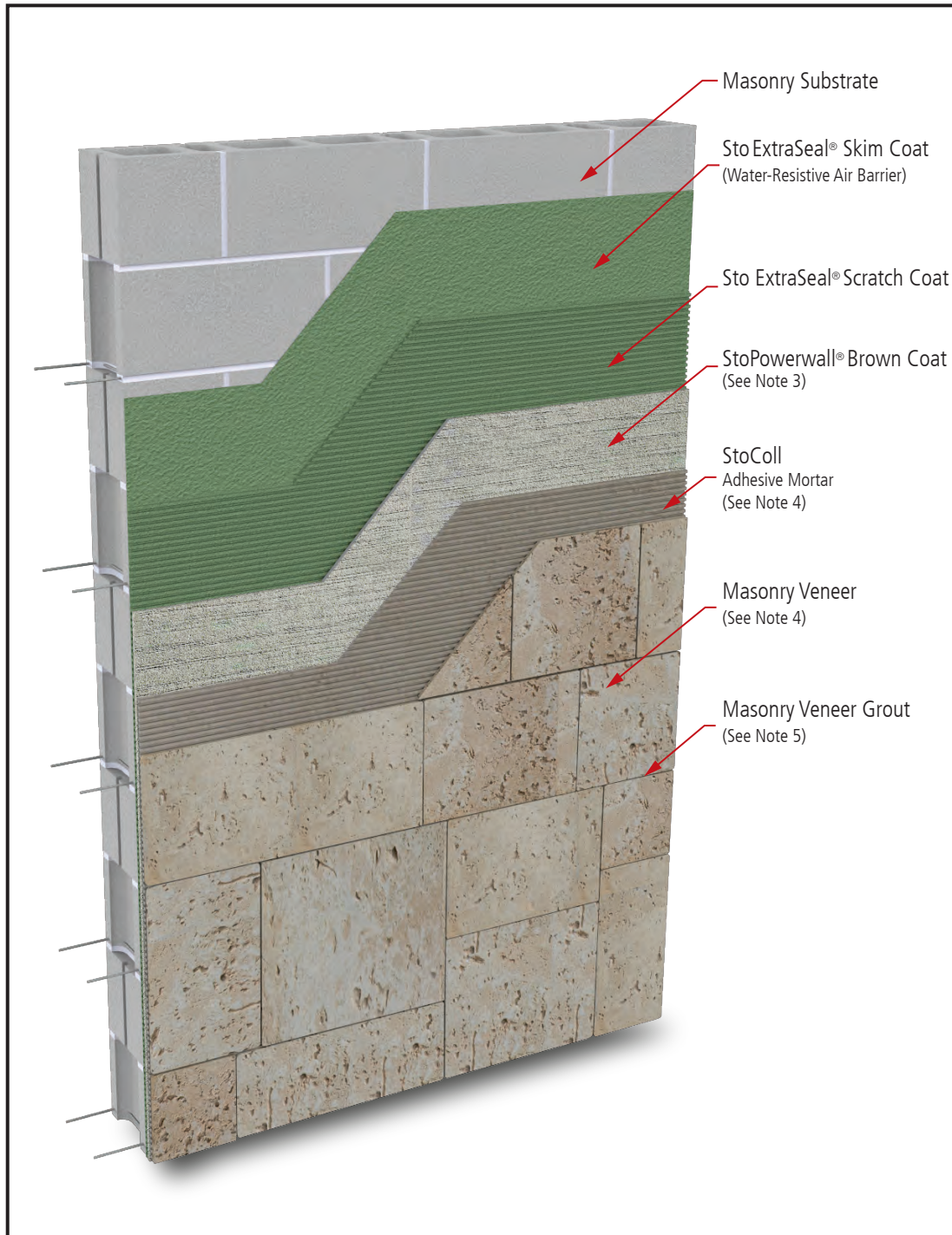
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StoPowerwall® ExtraSeal® with Masonry Veneer Engineered System (MVES)

Detail No.: 65c.00 MVES
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Veneer options: thin brick, thin stone, ceramic tile or manufactured stone in conformance with applicable building code requirements.
5. Portland cement-based grout / pointing mortar in compliance with ANSI 118.7
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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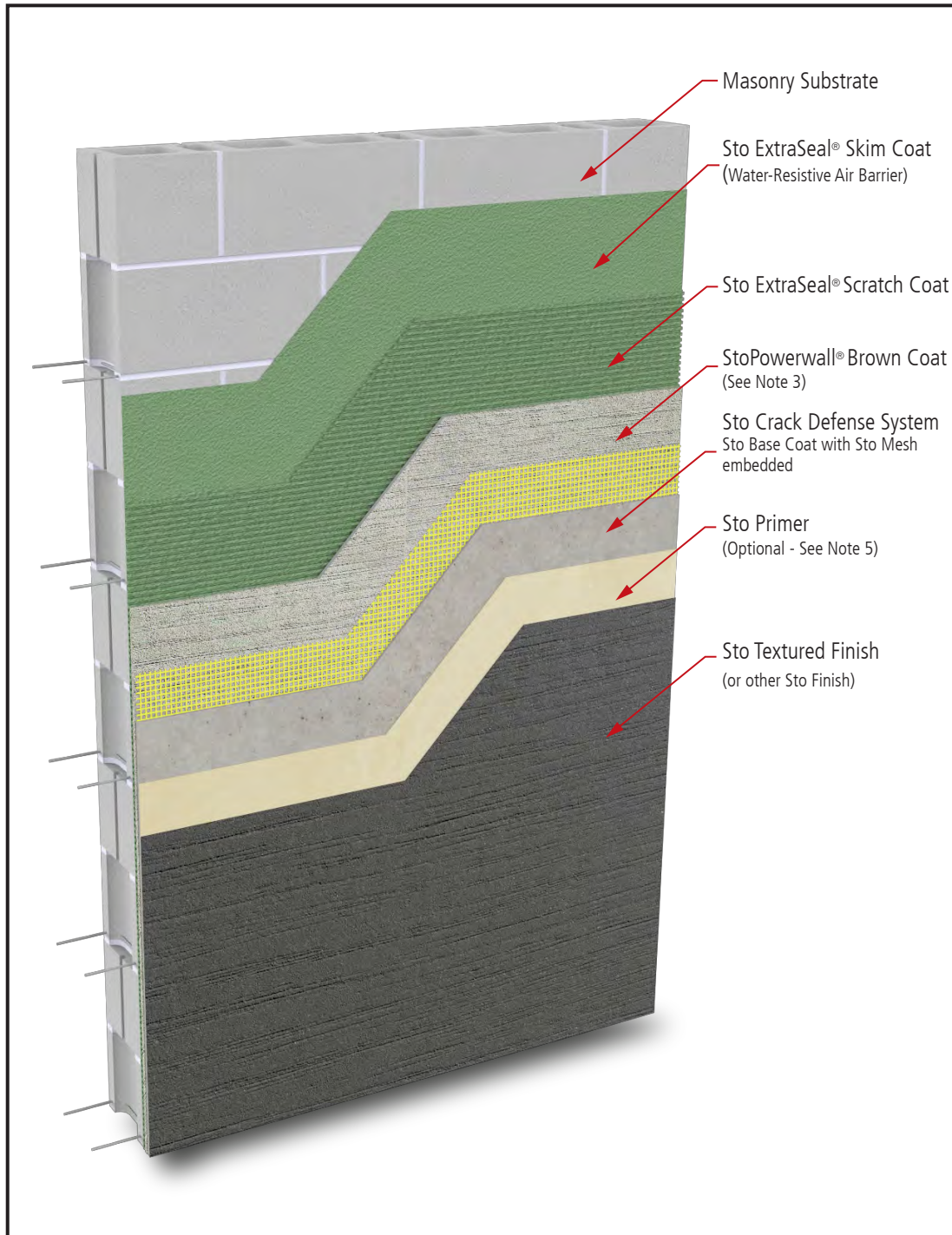
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StoPowerwall® ExtraSeal® with Sto Crack Defense System

Detail No.: 65c.00A CDS
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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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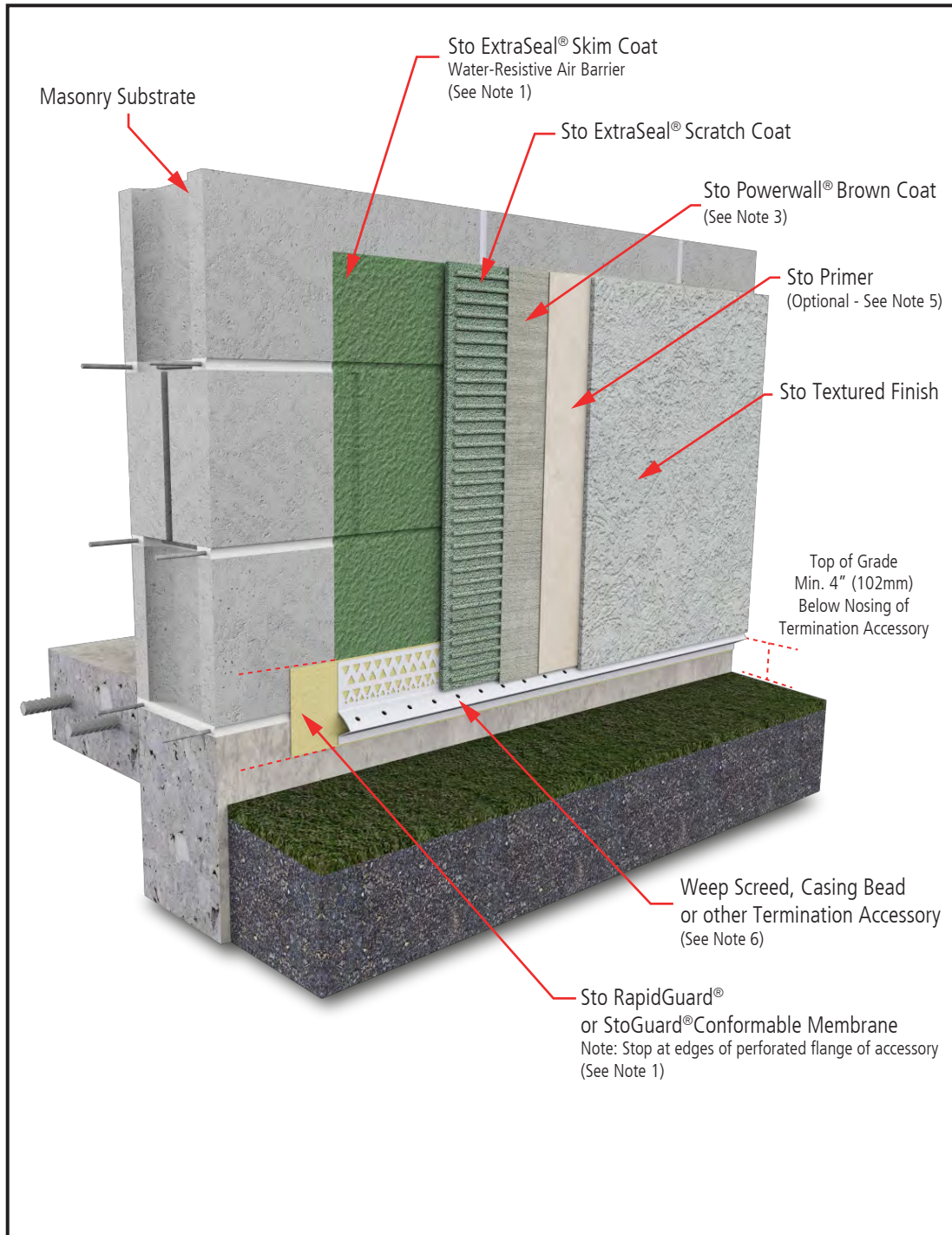
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StoPowerwall® ExtraSeal® Termination at Grade

Detail No.: 65c.01A
Date: January 2025



Notes:

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2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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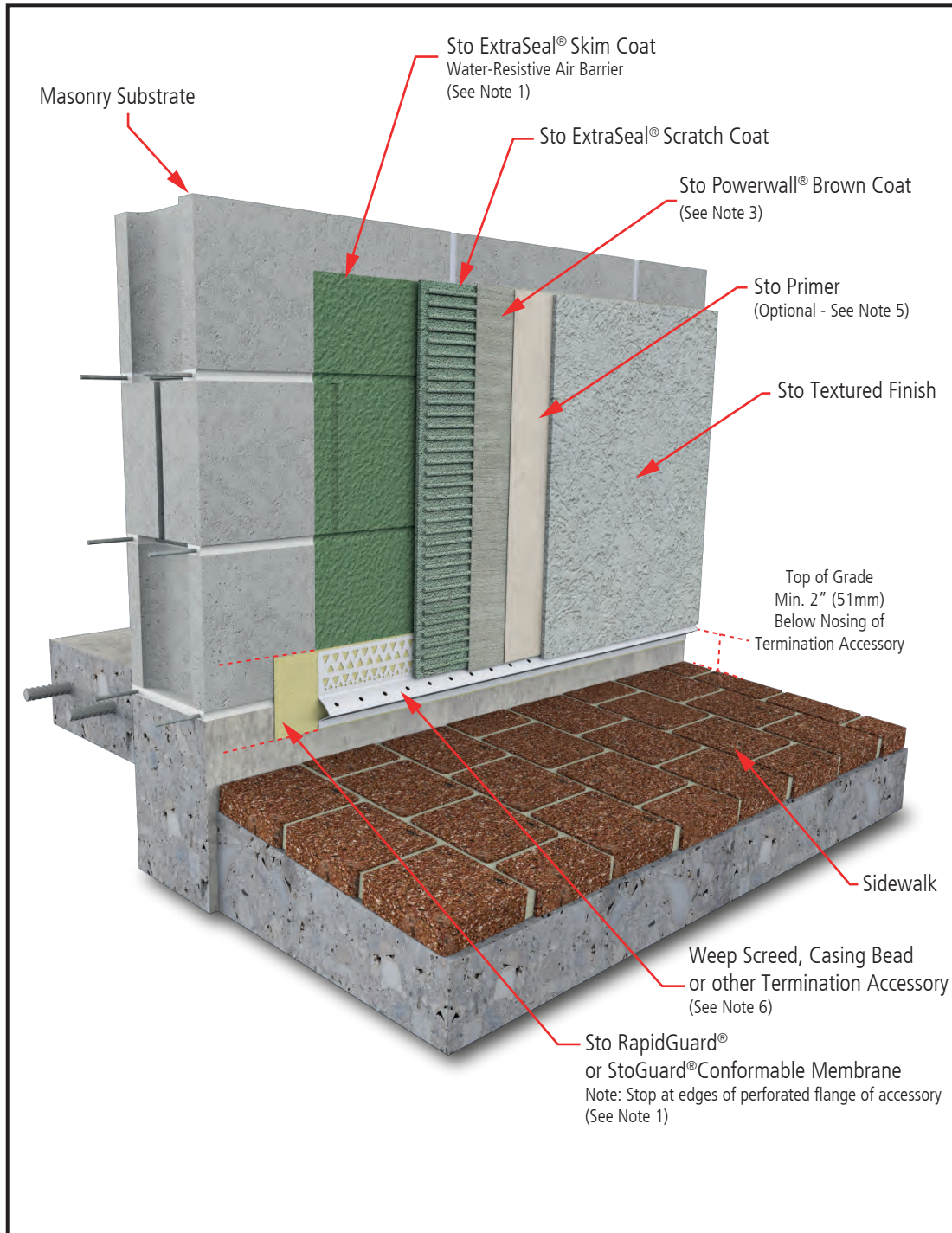
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StoPowerwall® ExtraSeal® Termination at Sidewalk

Detail No.: 65c.01B
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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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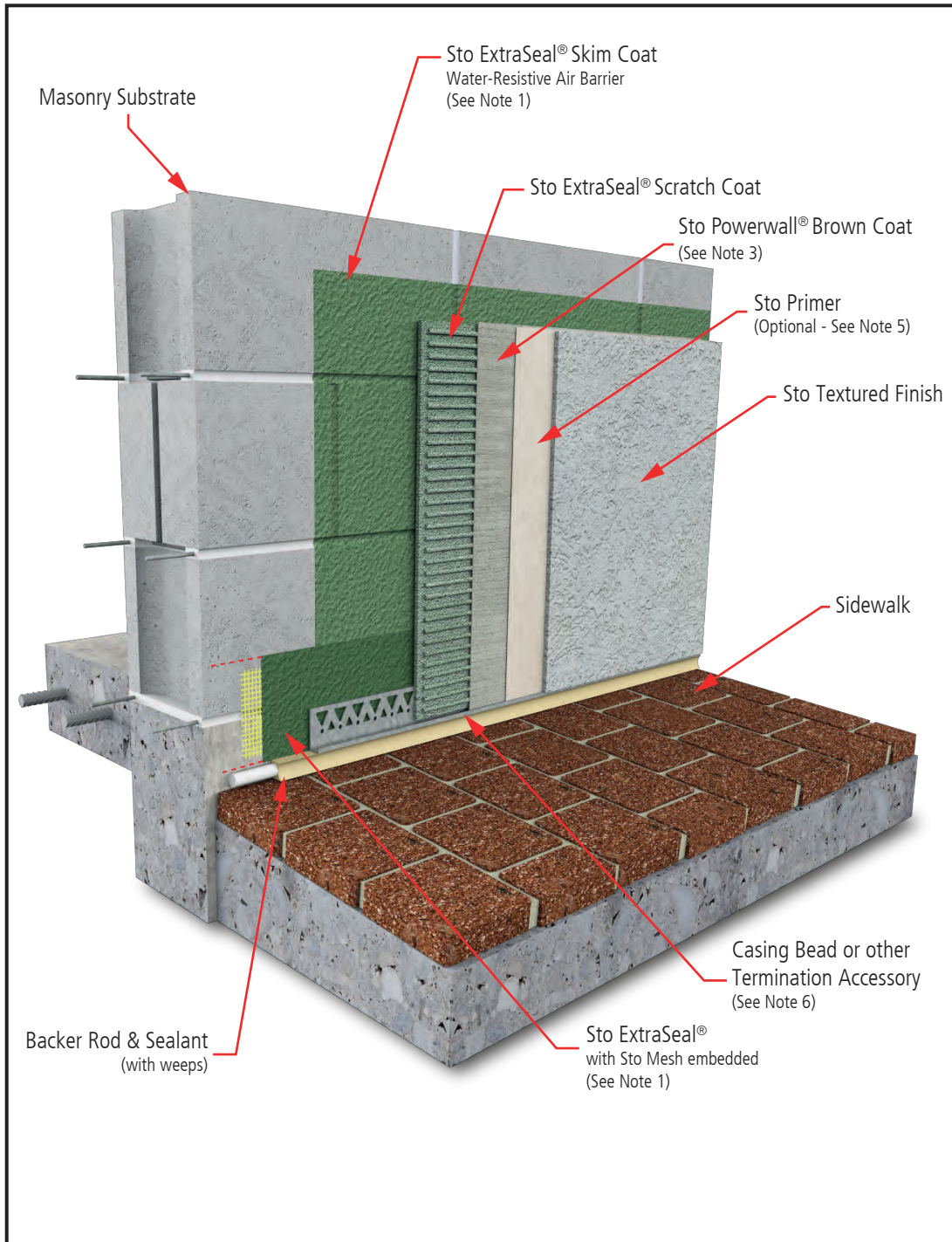
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StoPowerwall® ExtraSeal® Termination at Weather-Protected Sidewalk

Detail No.: 65c.01C
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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.
7. This detail for use only at weather protected areas: canopied areas, balconies with cover, protected arcades, and similar areas.

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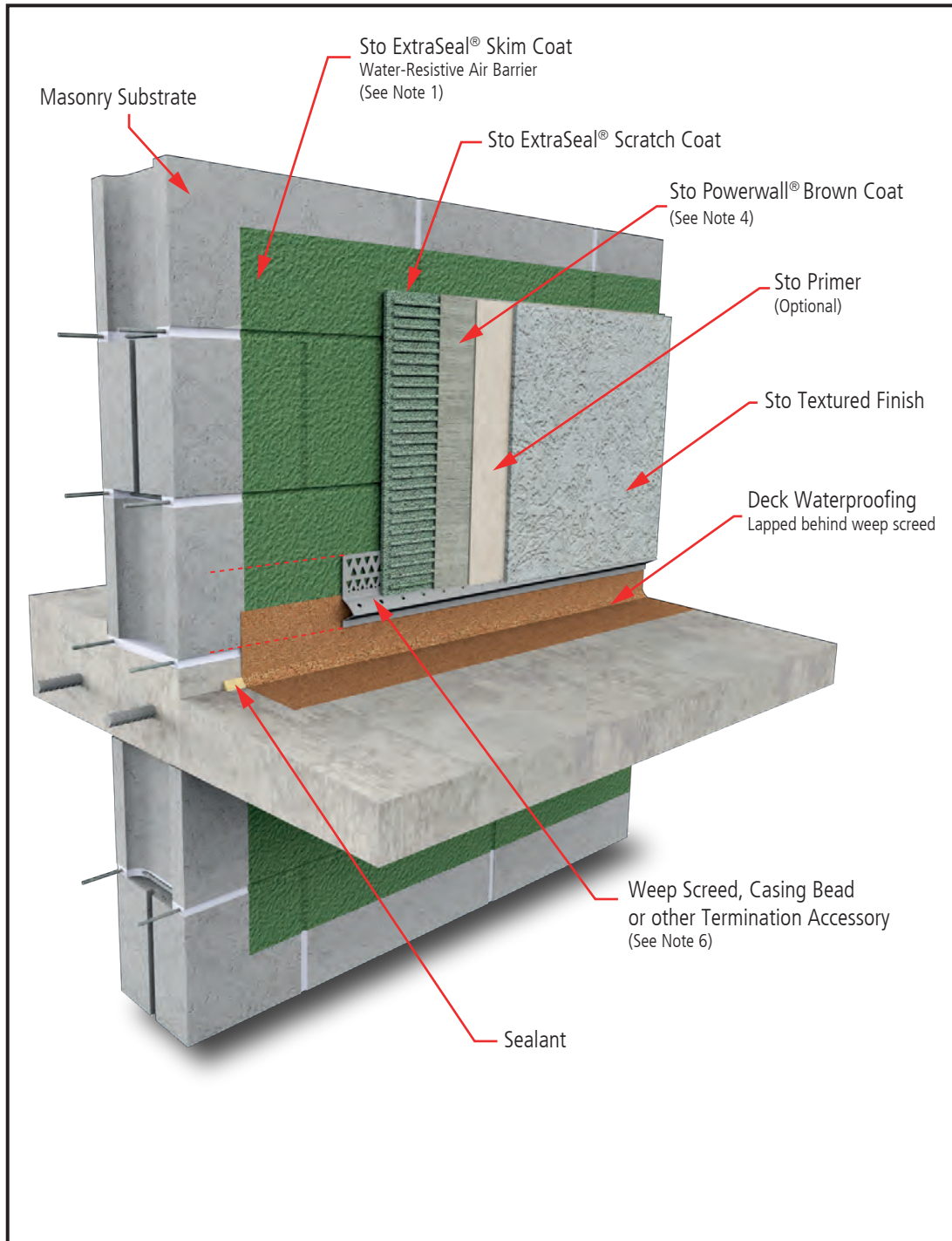
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StoPowerwall® ExtraSeal® Termination at Balcony

Detail No.: 65c.10A
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Provide air barrier and continuity of water protection at the wall/deck interface.
4. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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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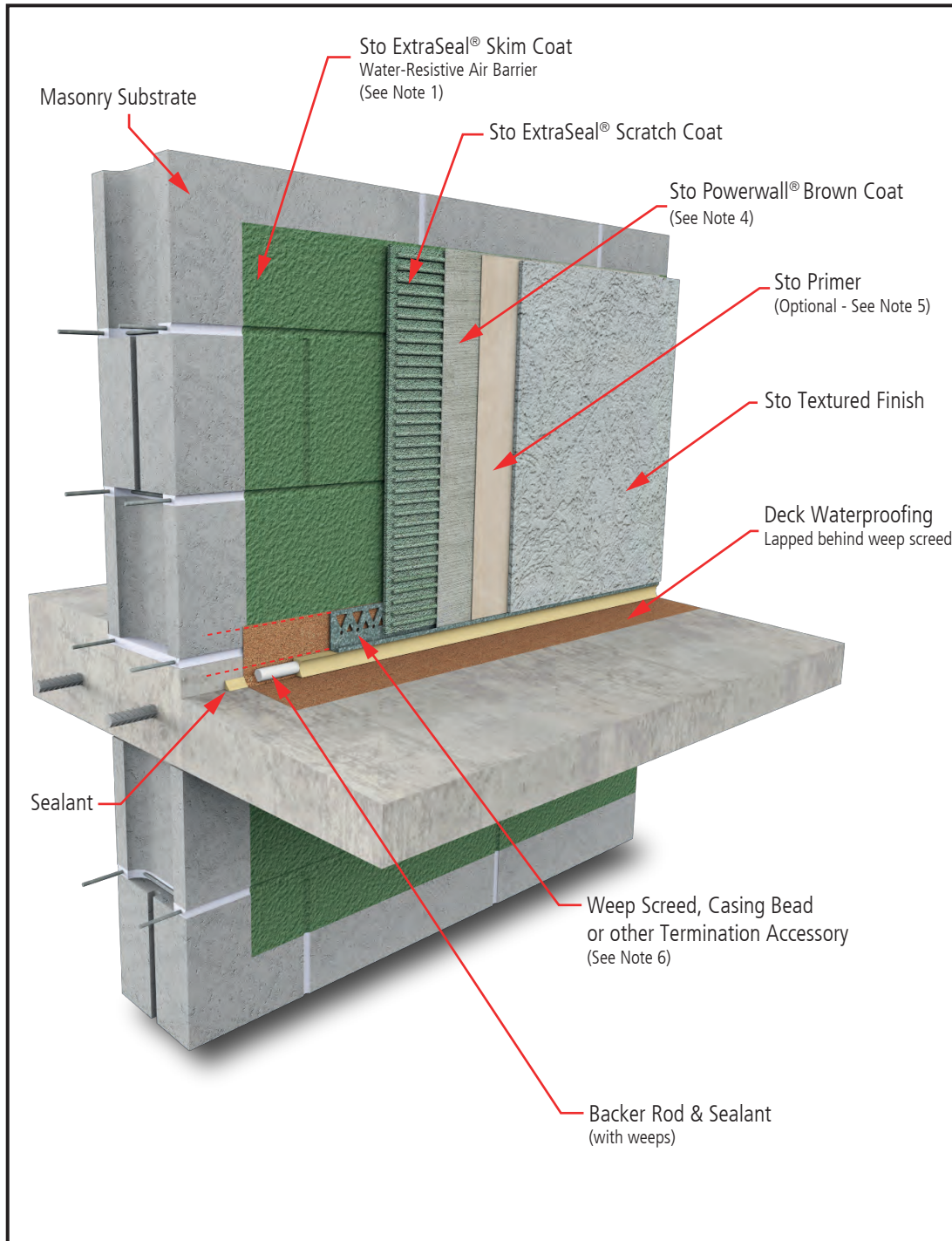
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StoPowerwall® ExtraSeal® Termination at Balcony with Sealant

Detail No.: 65c.10B
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Provide air barrier and continuity of water protection at the wall/deck interface.
4. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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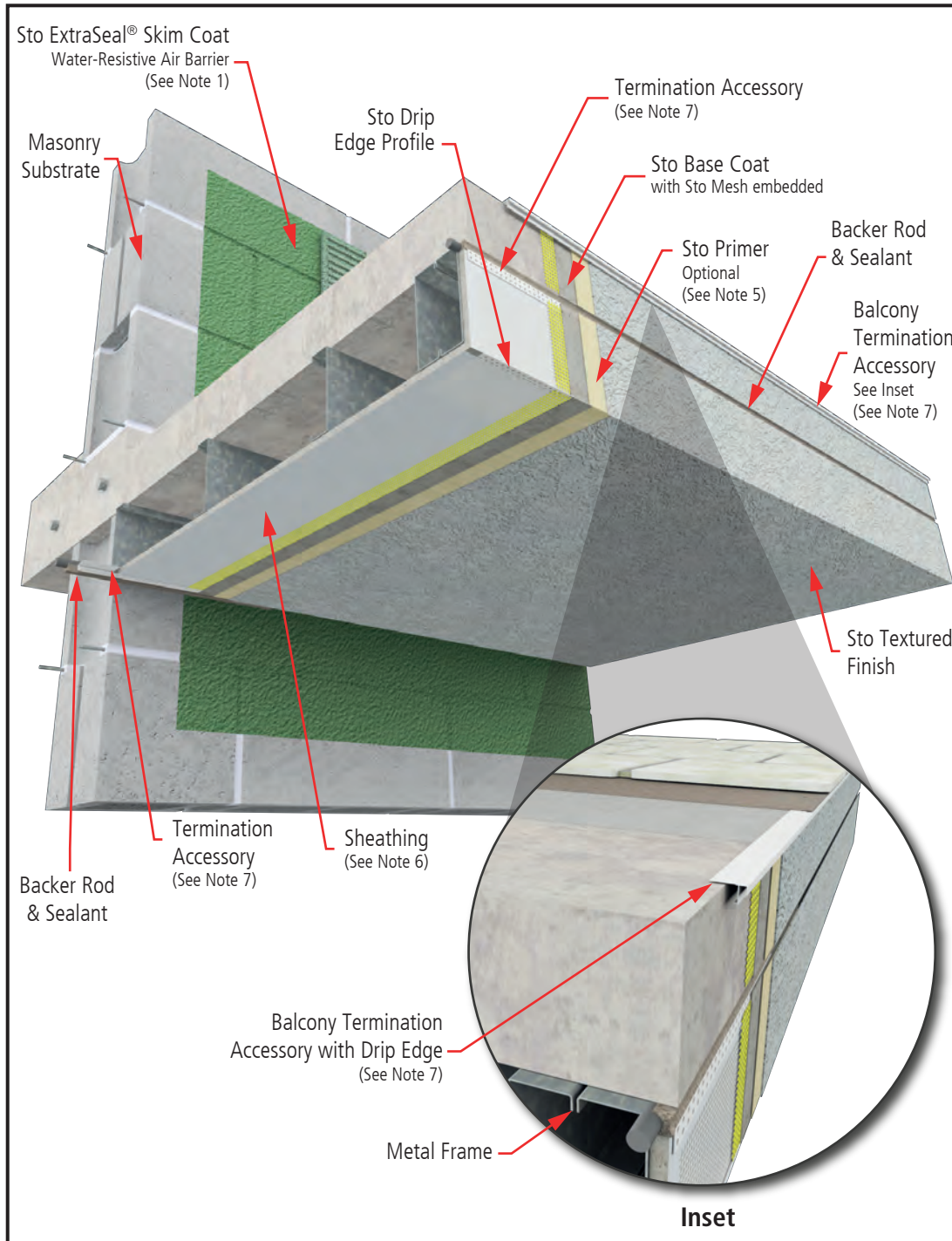
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StoPowerwall® ExtraSeal® Termination at Balcony Soffit

Detail No.: 65c.12
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Provide air barrier and continuity of water protection at the wall/deck interface.
4. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
6. Glass mat gypsum sheathing in compliance with ASTM C1177 or cementitious sheathing in compliance with ASTM C1325.
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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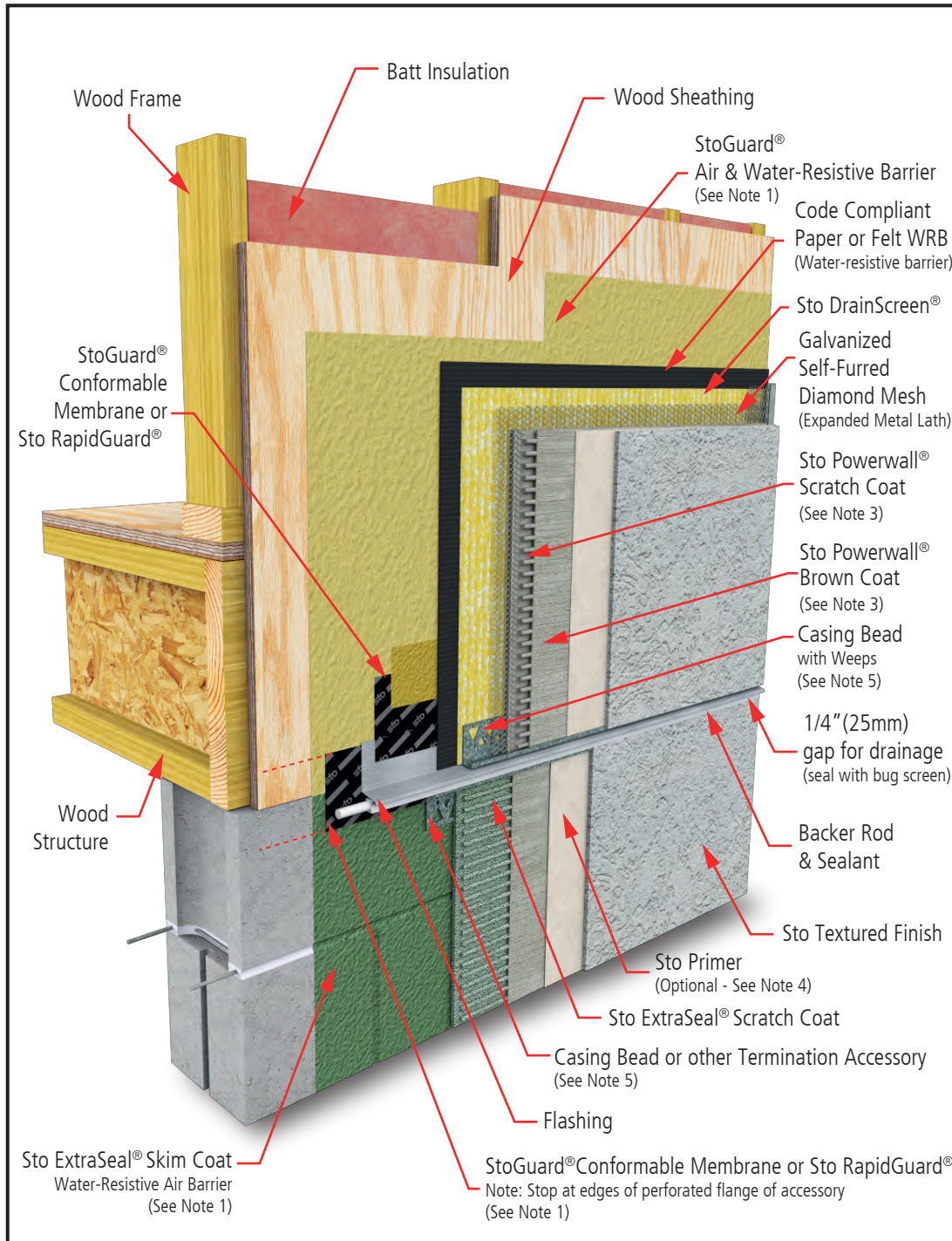
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StoPowerwall® ExtraSeal® Frame to CMU at Floor Line

Detail No.: 65c.15
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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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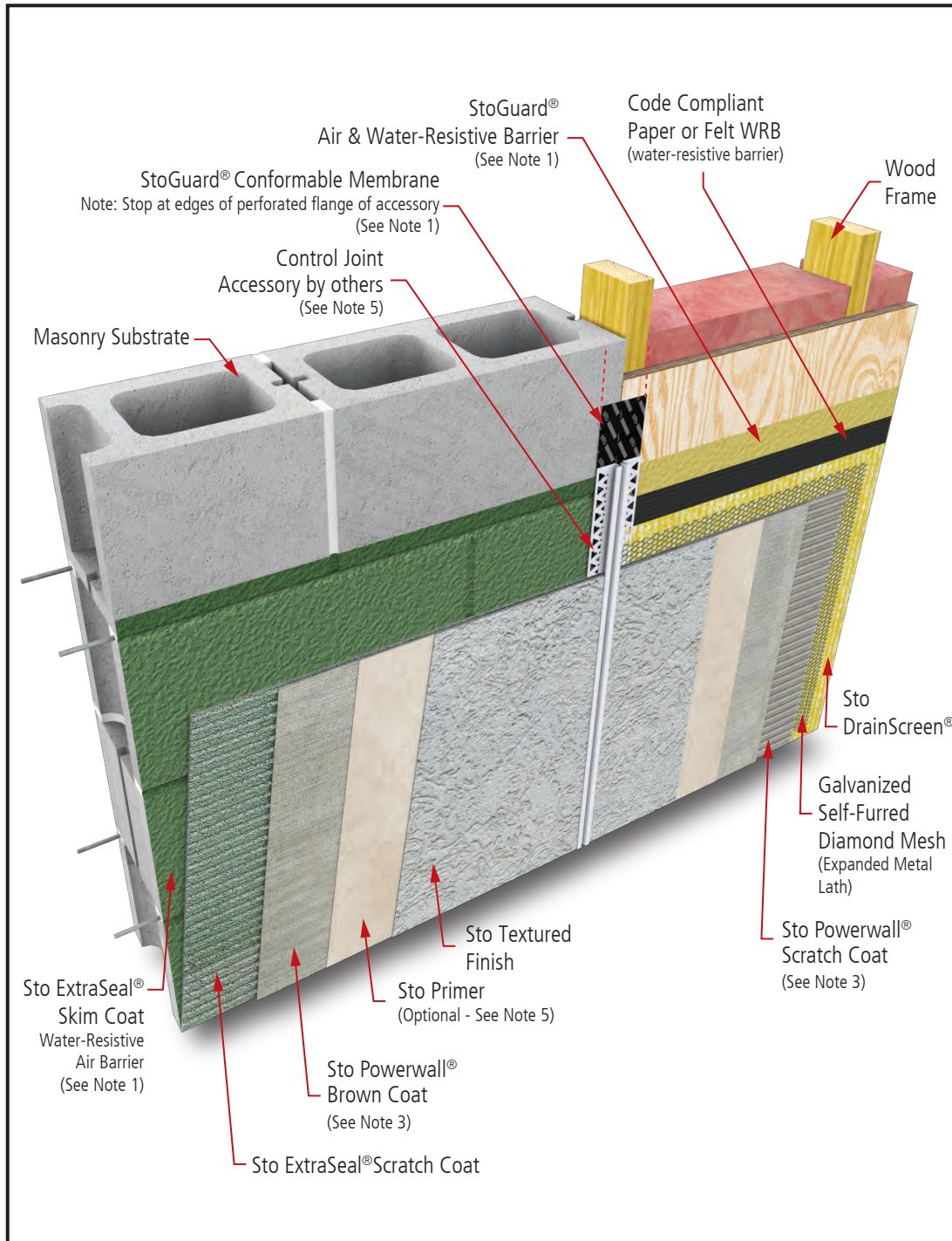
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StoPowerwall® ExtraSeal® Frame to CMU Wall Transition

Detail No.: 65c.16
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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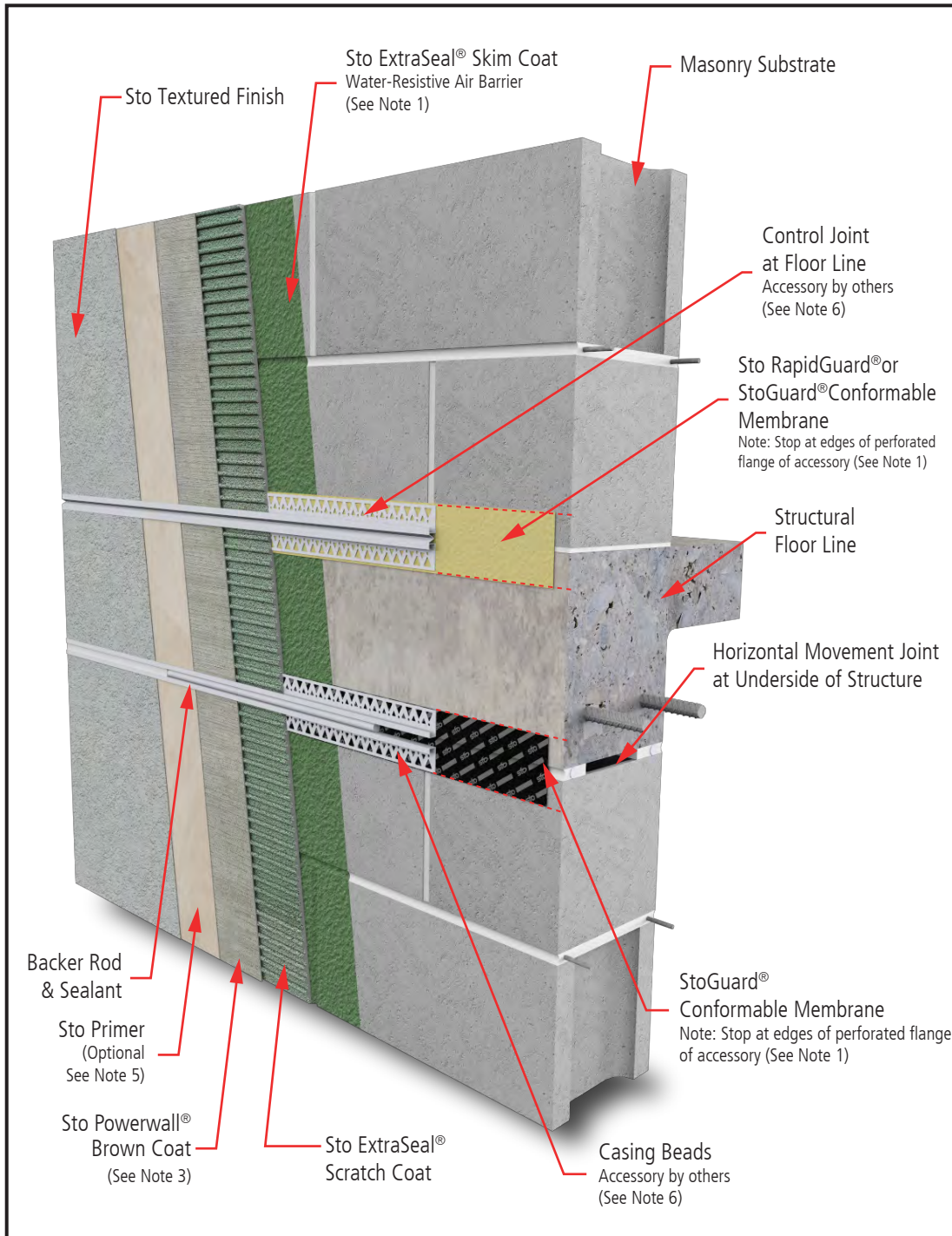
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StoPowerwall® ExtraSeal® Floor Line with Control Joint

Detail No.: 65c.21A
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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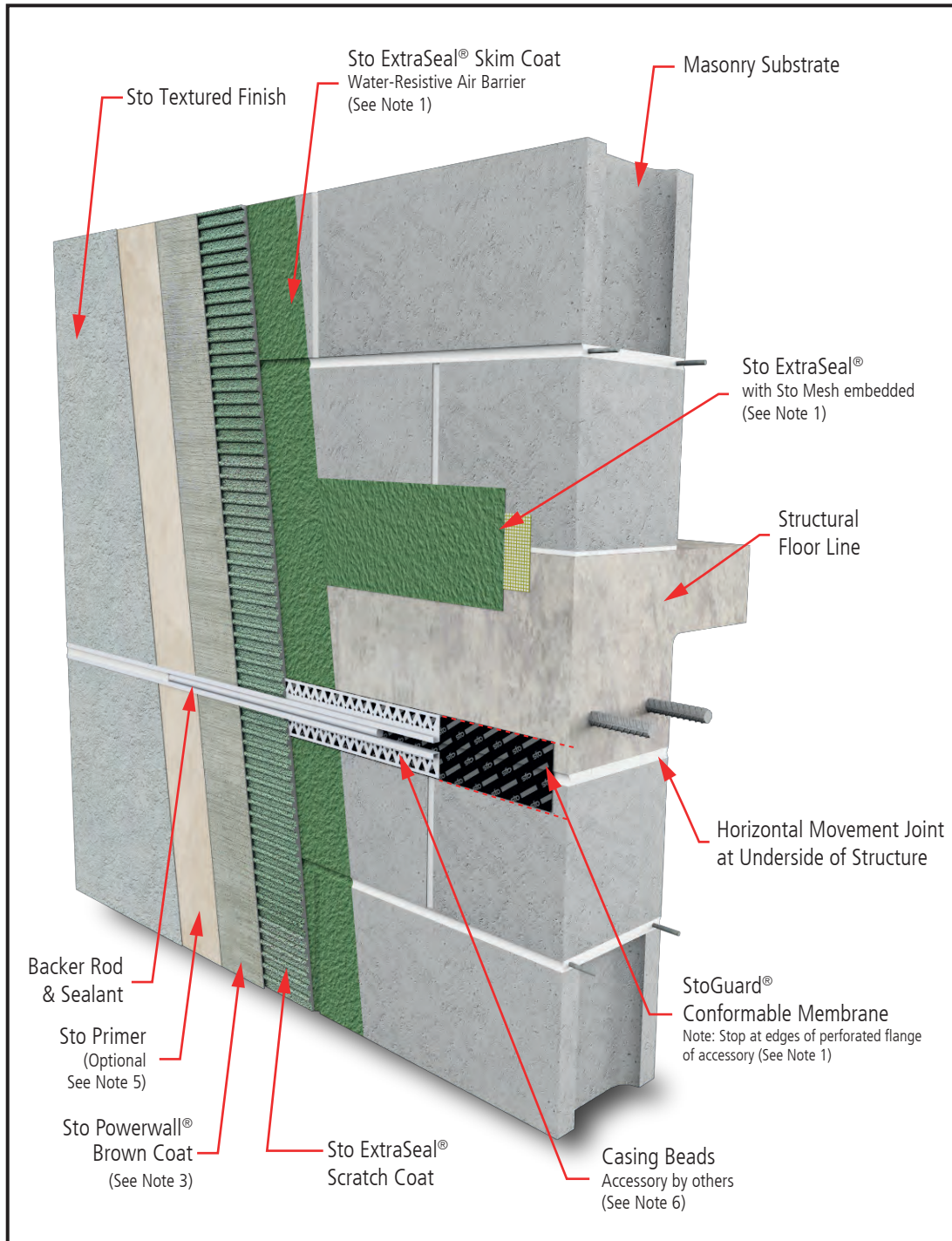
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StoPowerwall® ExtraSeal® Floor Line with Stucco Continuous

Detail No.: 65c.21B
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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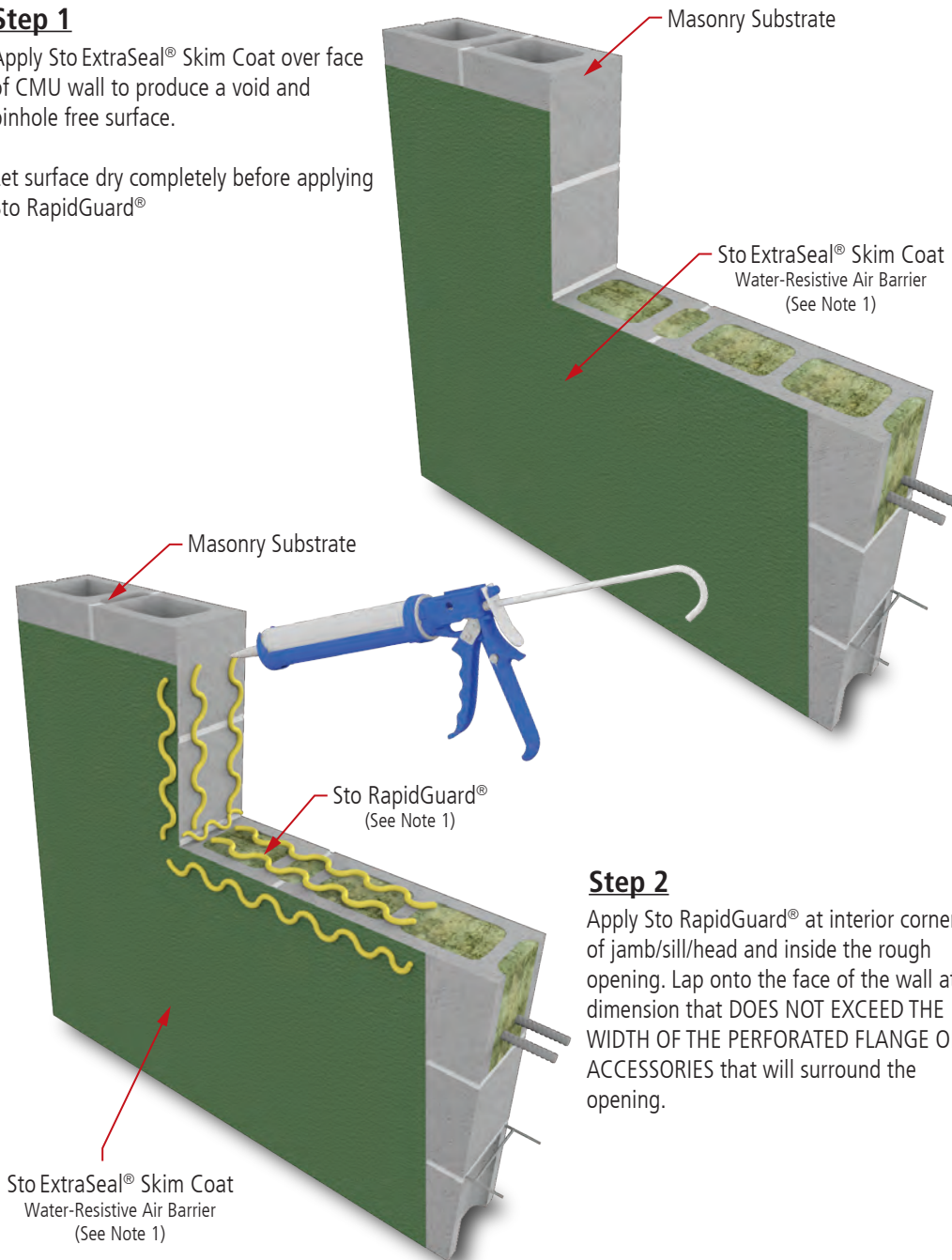
StoPowerwall® ExtraSeal® Rough Opening Protection

Detail No.: 65c.23
Date: January 2025
Page 1 of 2

Step 1

Apply Sto ExtraSeal® Skim Coat over face of CMU wall to produce a void and pinhole free surface.

Let surface dry completely before applying Sto RapidGuard®



Step 2

Apply Sto RapidGuard® at interior corners of jamb/sill/head and inside the rough opening. Lap onto the face of the wall at a dimension that DOES NOT EXCEED THE WIDTH OF THE PERFORATED FLANGE OF ACCESSORIES that will surround the opening.

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
4. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for 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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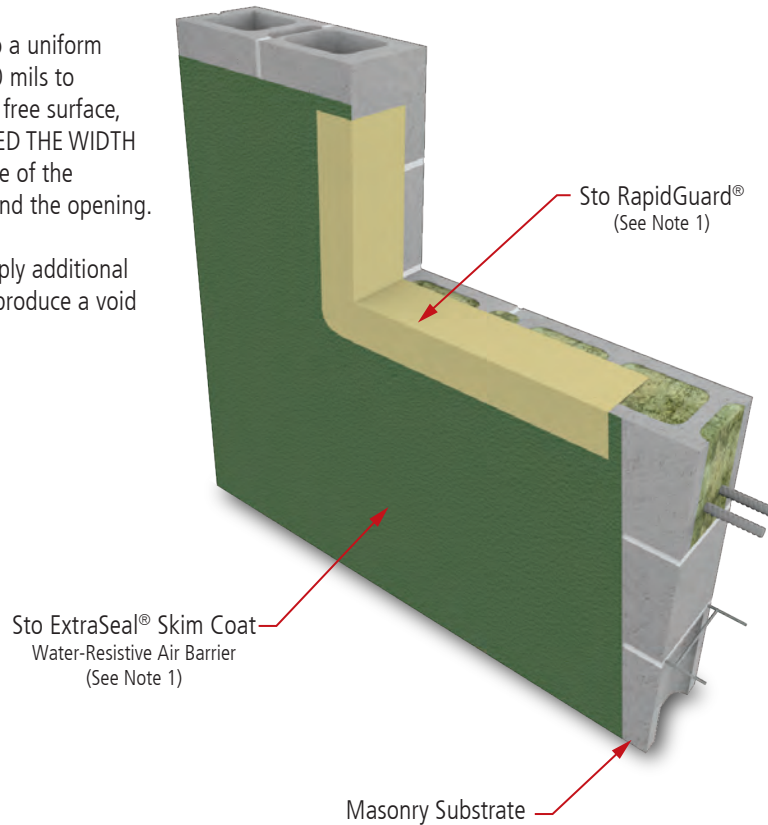
StoPowerwall® ExtraSeal® Rough Opening Protection

Detail No.: 65c.23
Date: January 2025
Page 2 of 2

Step 3

Spread Sto RapidGuard® to a uniform wet film thickness of 12-20 mils to achieve a void and pinhole free surface, making sure NOT TO EXCEED THE WIDTH OF THE PERFORATED flange of the accessories that will surround the opening.

Inspect after drying and apply additional material where needed to produce a void and pinhole free surface.



Notes:

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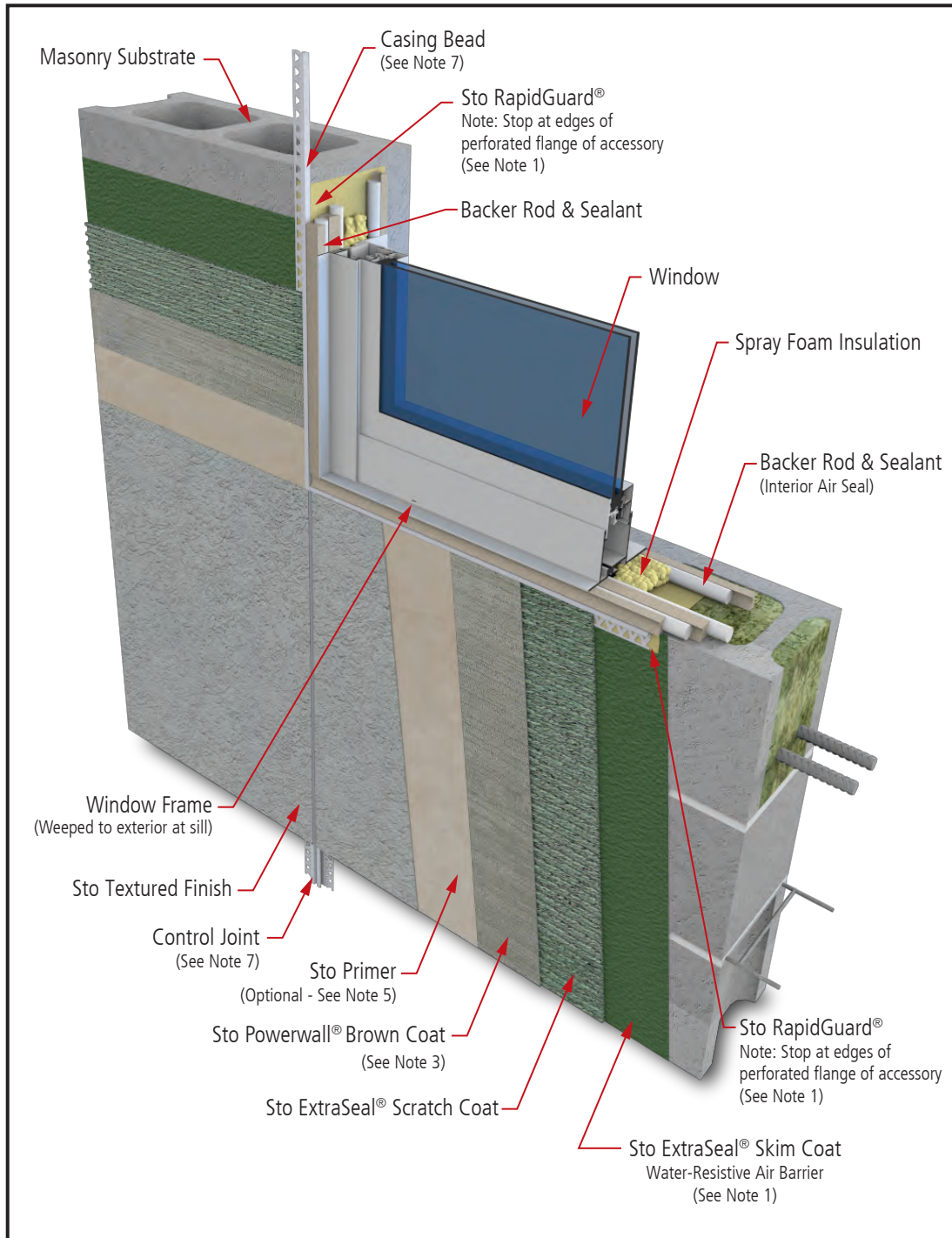
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StoPowerwall® ExtraSeal® Box Window (Flush) - Jamb and Sill

Detail No.: 65c.27
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
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. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
6. Refer to applicable Sto guide specifications, product bulletins, Tech Hotlines, and other Sto guide details for additional information.
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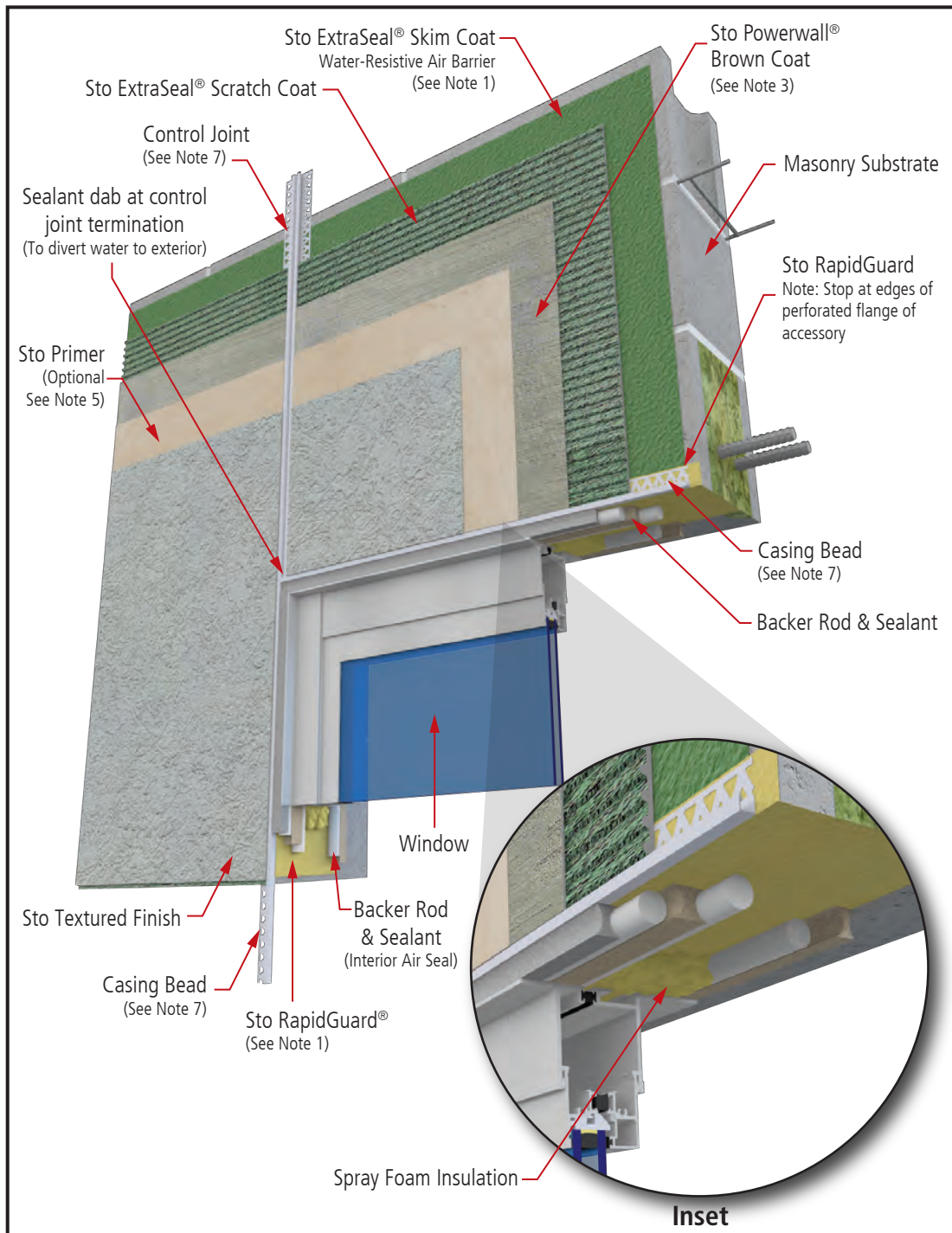
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www.stocorp.com



StoPowerwall® ExtraSeal® Box Window (Flush) - Head

Detail No.: 65c.28
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
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.
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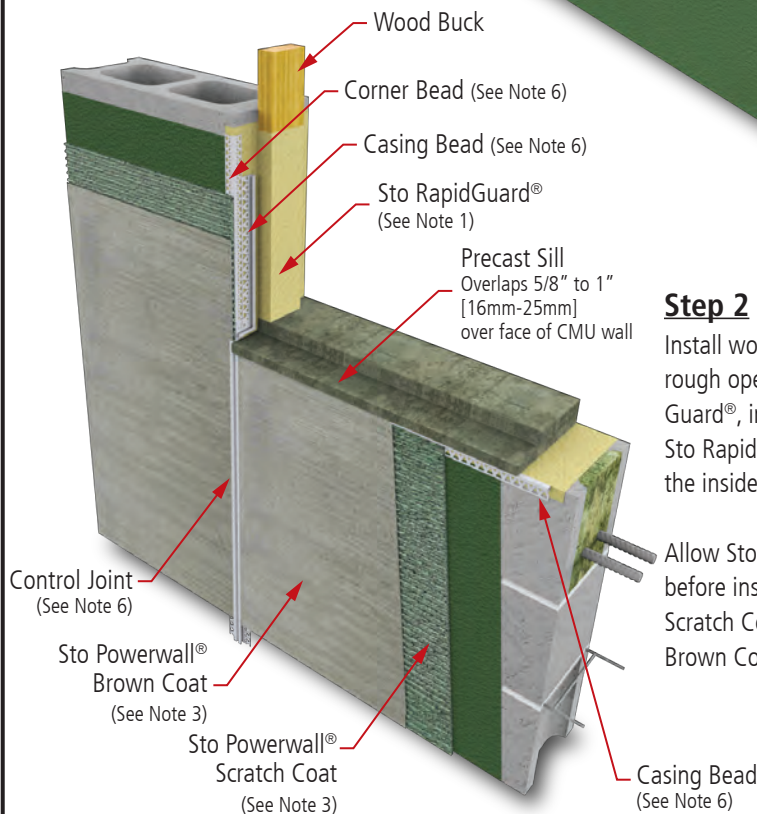
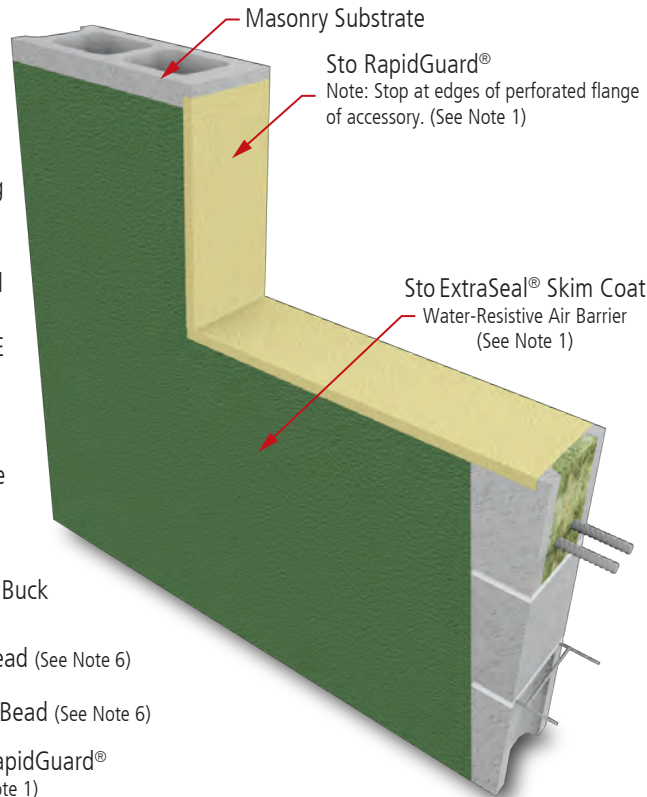
StoPowerwall® ExtraSeal® Recessed Window - Jamb and Sill

Detail No.: 65c.29
Date: January 2025
Page 1 of 2

Step 1

Apply Sto ExtraSeal® Skim Coat over face of CMU wall to produce a void and pinhole free surface.

Let surface dry completely before applying Sto RapidGuard®. Apply Sto RapidGuard® at jambs, sill and head into the rough opening, and lap onto the face of the wall at a dimension that DOES NOT EXCEED THE WIDTH OF THE PERFORATED FLANGE OF ACCESSORIES that will surround the opening. Treat entire rough opening surface and overlap onto face all the way around to produce a void and pinhole free surface. Let surface dry completely before installing the precast sill.



Step 2

Install wood buck at jamb and head of rough opening and coat with Sto RapidGuard®, in order to tie in with the existing Sto RapidGuard® previously installed onto the inside face of the CMU wall.

Allow Sto RapidGuard® to dry completely before installing accessories, Sto ExtraSeal® Scratch Coat, and StoPowerwall® Stucco Brown Coat.

Notes:

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2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
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.
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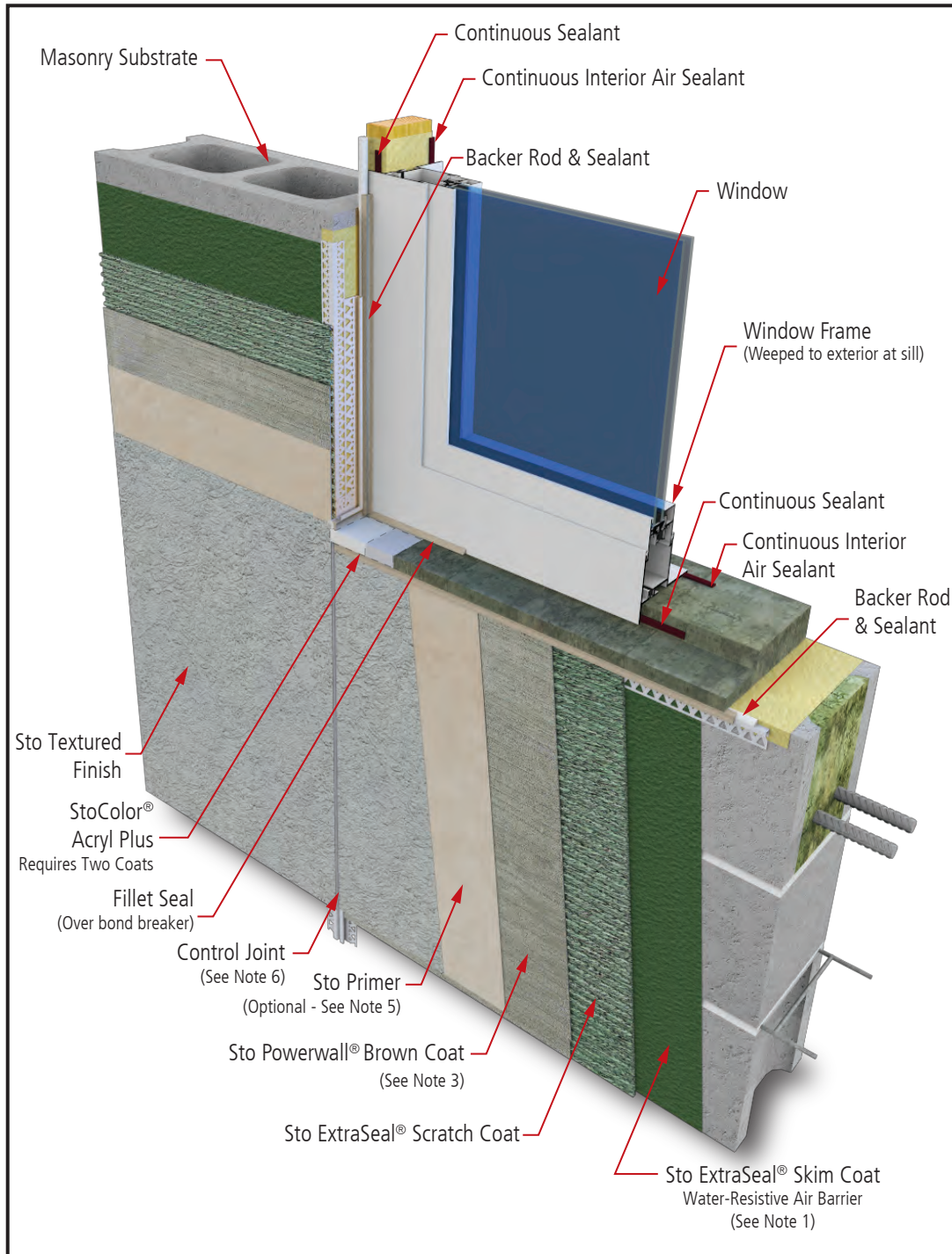
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StoPowerwall® ExtraSeal® Recessed Window - Jamb and Sill

Detail No.: 65c.29
Date: January 2025
Page 2 of 2



Notes:

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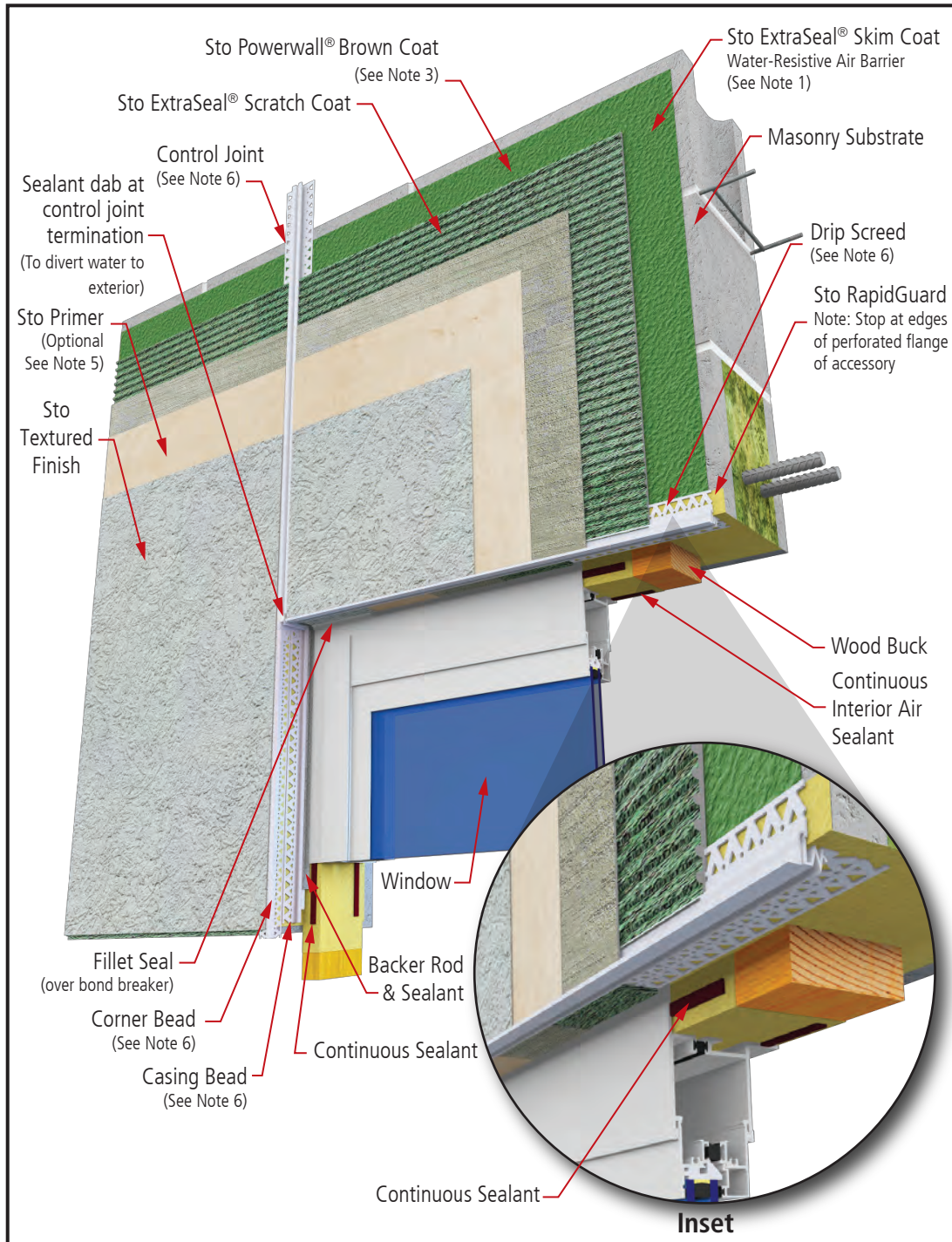
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StoPowerwall® ExtraSeal® Recessed Window - Head

Detail No.: 65c.30
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Stucco brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
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. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
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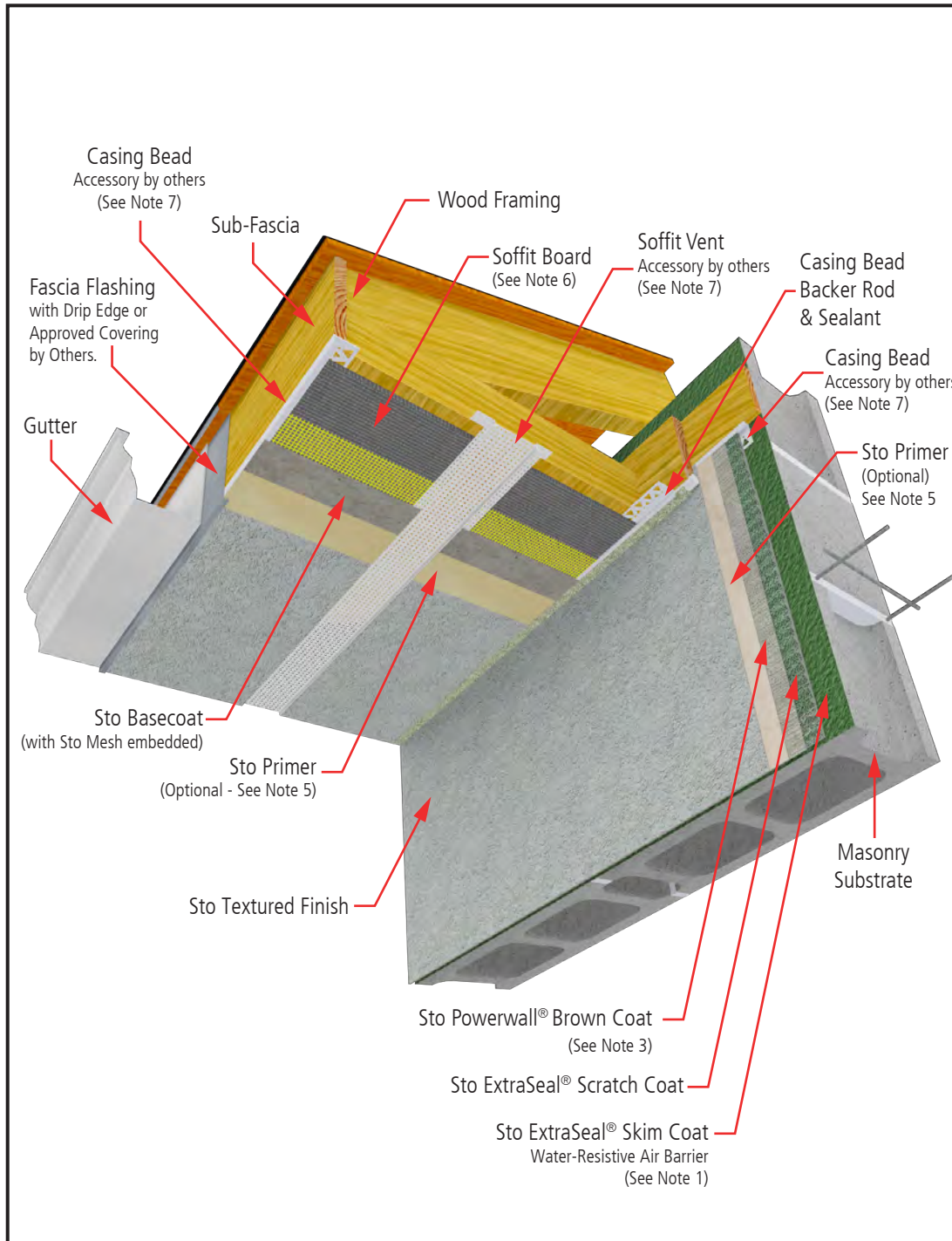
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StoPowerwall® ExtraSeal® Soffit - Uninsulated Vented

Detail No.: 65c.35
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
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5. Sto Primer is required for Sto Specialty Finishes such as Sto GraniTex, StoSignature Brick, and others. Refer to specific Sto finish product bulletins.
6. See StoQuik Finish Systems for Soffits and Ceilings Specification No.1400 and Detail Booklet 14s.xx for more 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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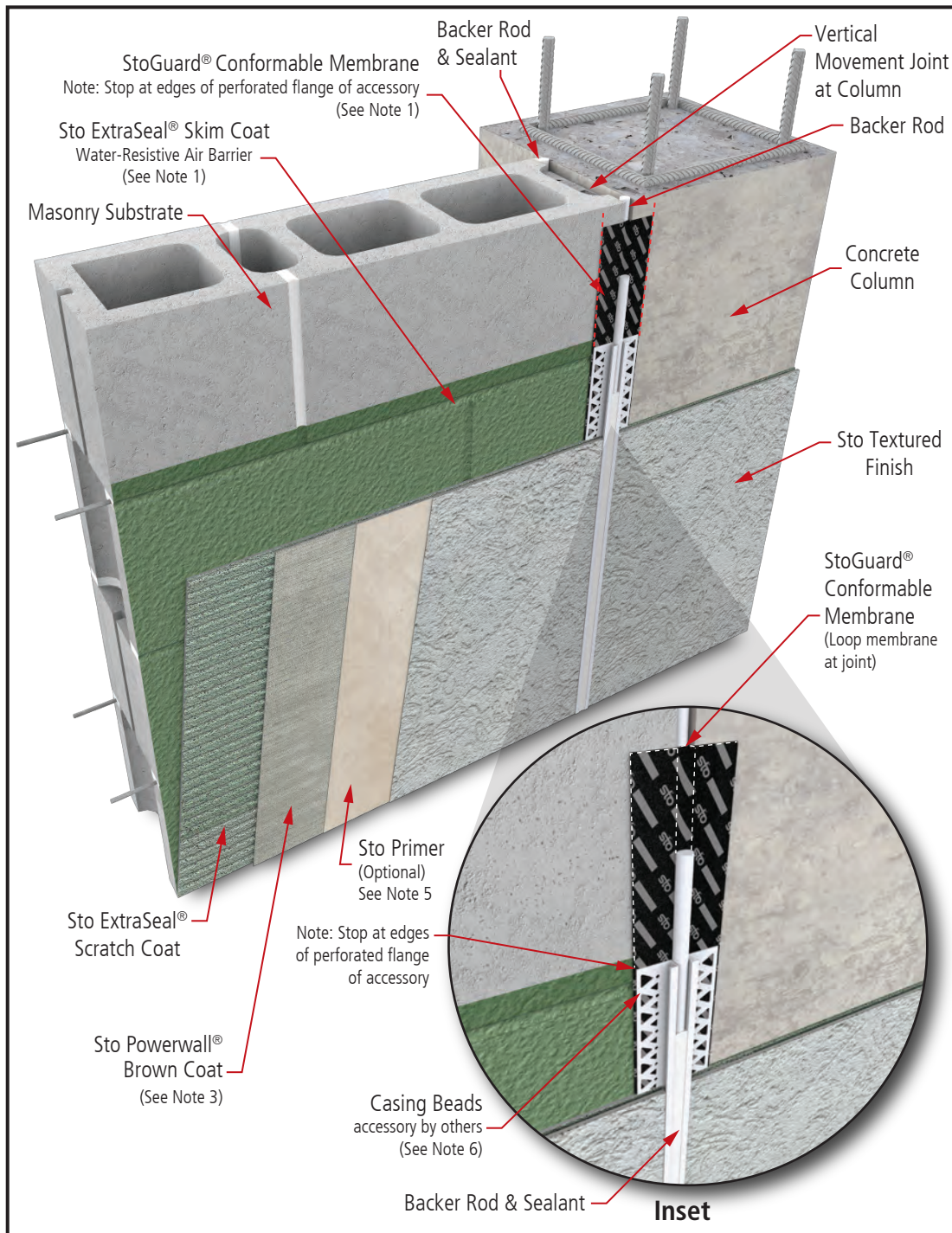
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StoPowerwall® ExtraSeal® Movement Joint at Dissimilar Construction - Column Interface

Detail No.: 65c.41A
Date: January 2025



Notes:

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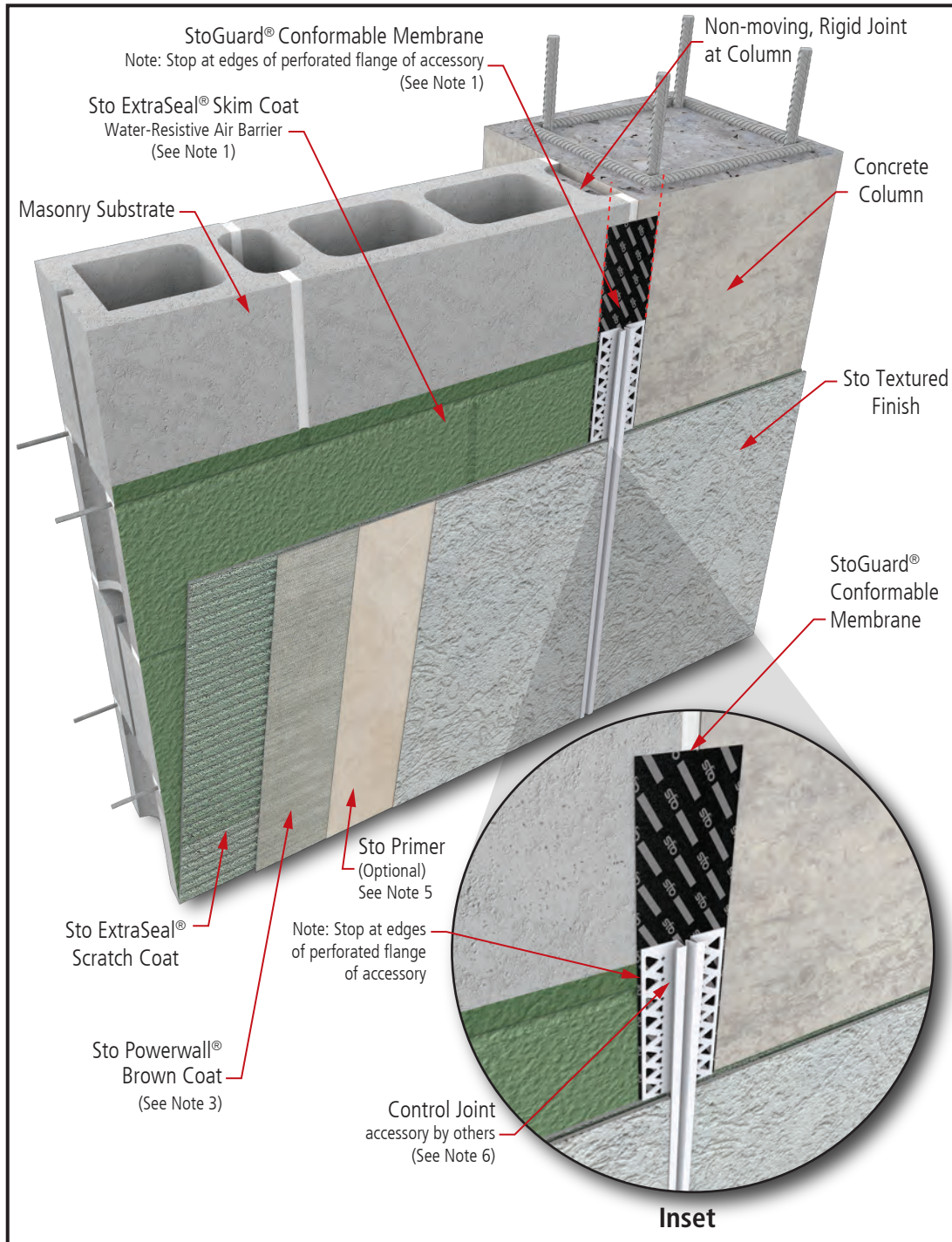


StoPowerwall® ExtraSeal®

Rigid Joint at Dissimilar Construction - Column Interface

Option 1

Detail No.: 65c.41B
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
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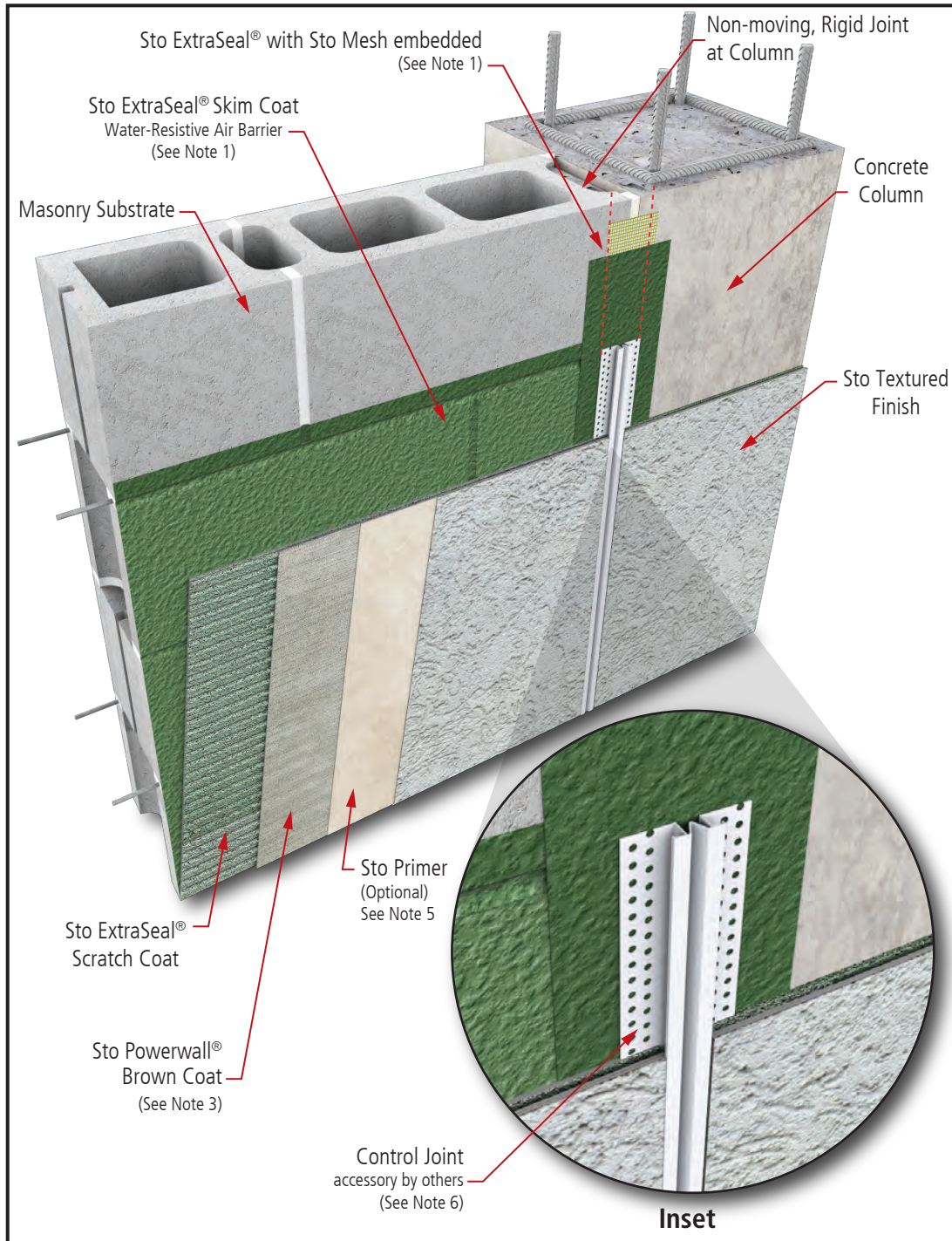
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StoPowerwall® ExtraSeal® Rigid Joint at Dissimilar Construction - Column Interface Option 2

Detail No.: 65c.41C
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
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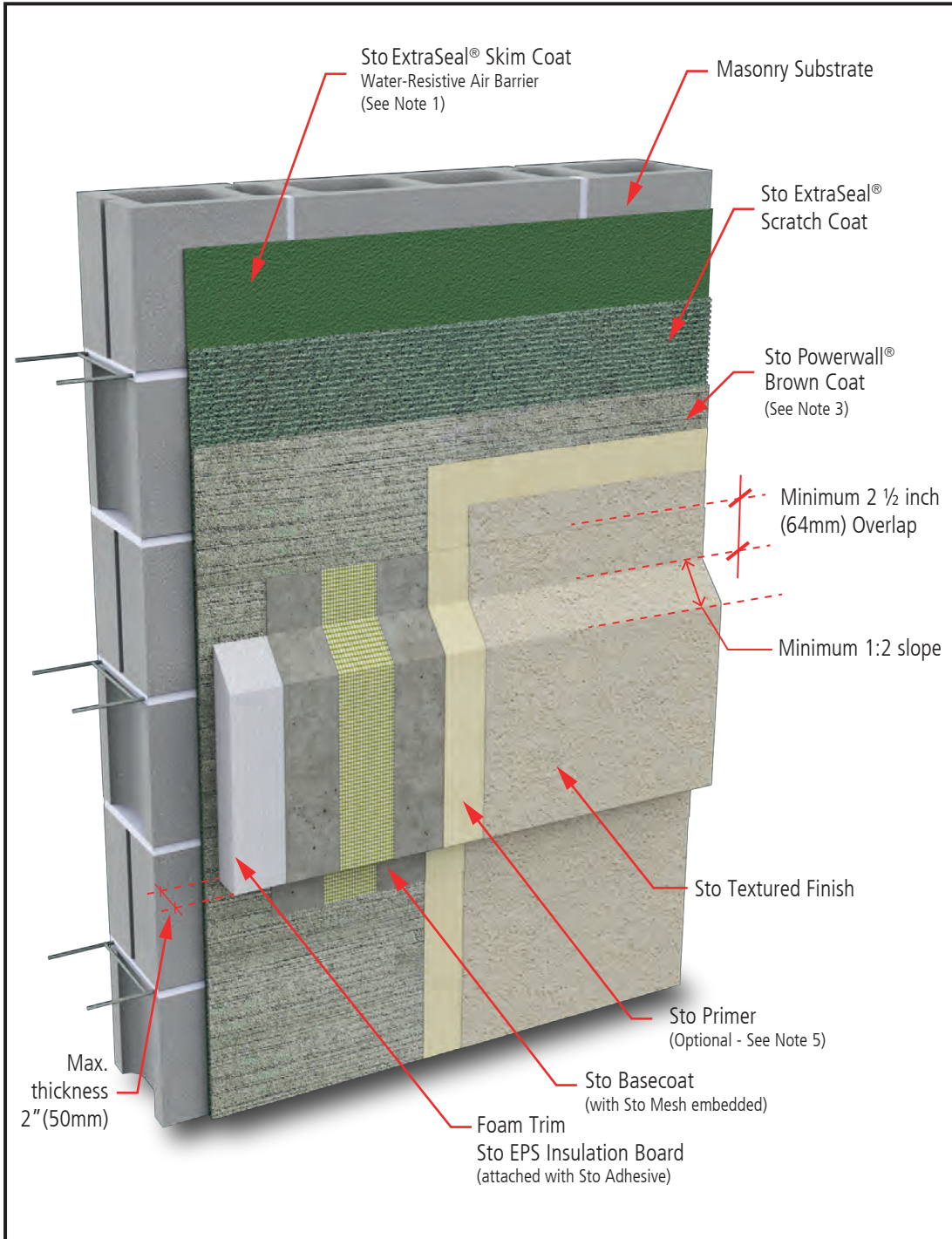
StoPowerwall® ExtraSeal®

Aesthetic Feature

For feature thickness of 2" (50mm) or less

Detail No.: 65c.60A

Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
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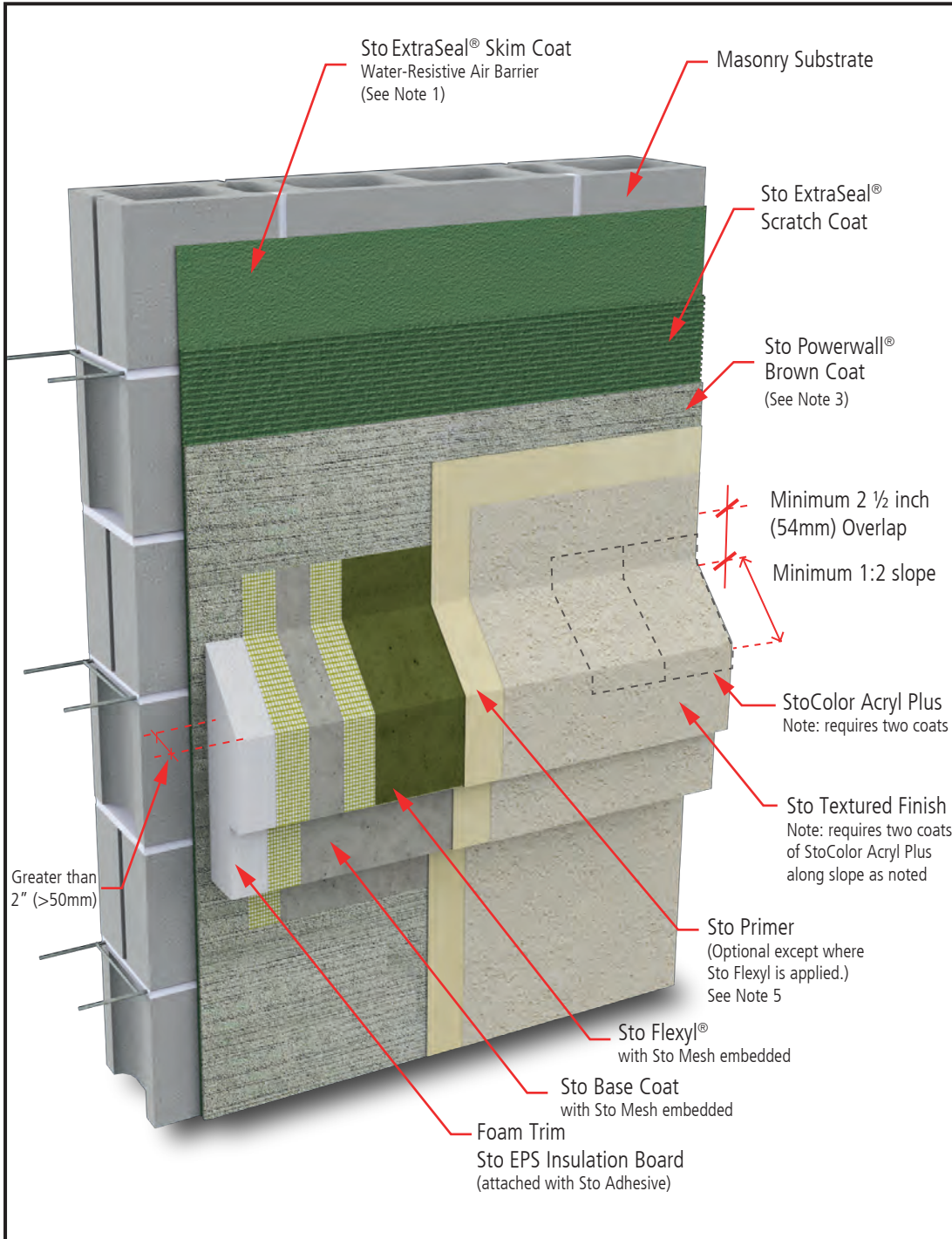


StoPowerwall® ExtraSeal®

Aesthetic Feature

For feature thickness of greater than 2"(>50mm)

Detail No.: 65c.60B
Date: January 2025



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.
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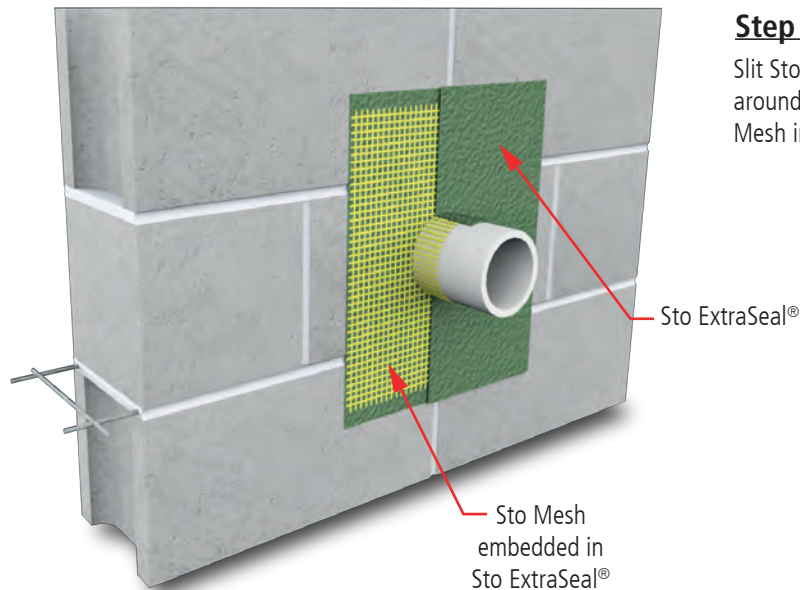
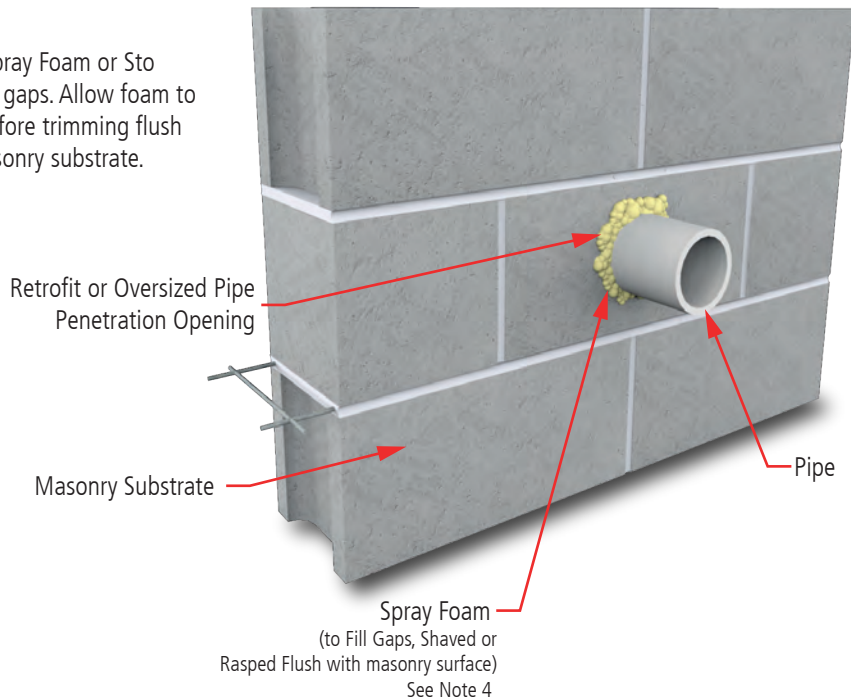


StoPowerwall® ExtraSeal® Small Pipe Penetration

Detail No.: 65c.70
Date: January 2025
Page 1 of 3

Step 1

Use Urethane Spray Foam or Sto TurboStick to fill gaps. Allow foam to cure properly before trimming flush with face of masonry substrate.



Step 2

Slit Sto Mesh in center to fit around pipe and embed Sto Mesh in Sto ExtraSeal.

Notes:

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4. Consult Spray Foam manufacturer for maximum size of gap for product being used.
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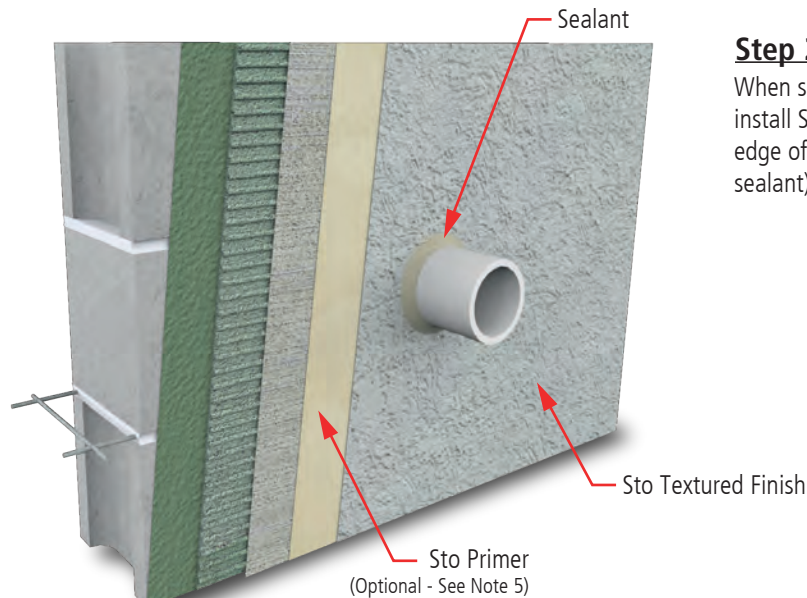
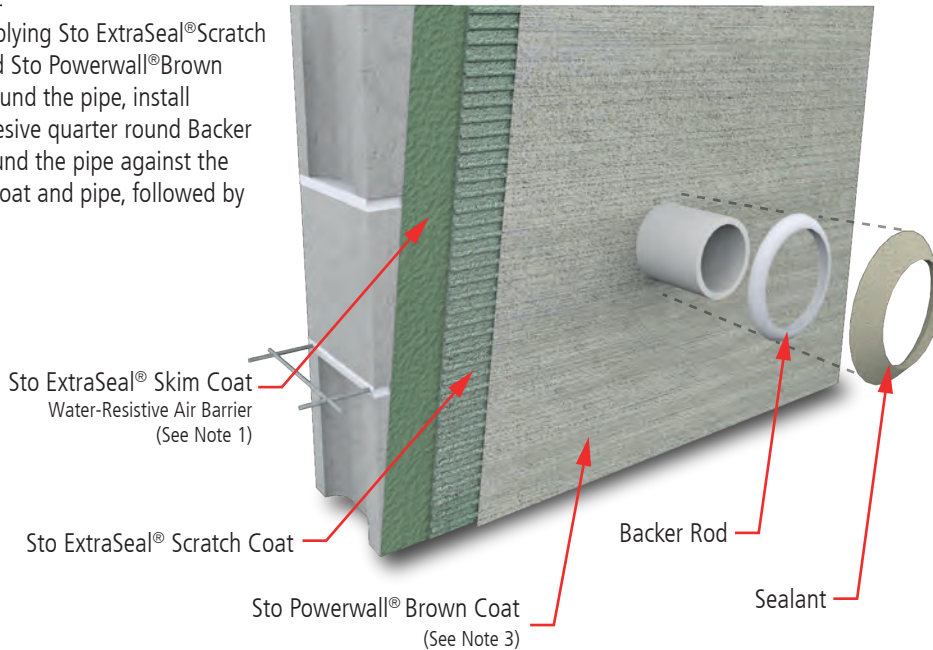


StoPowerwall® ExtraSeal® Small Pipe Penetration - Option 1

Detail No.: 65c.70
Date: January 2025
Page 2 of 3

Step 1

After applying Sto ExtraSeal® Scratch Coat and Sto Powerwall® Brown Coat around the pipe, install self-adhesive quarter round Backer Rod around the pipe against the Brown Coat and pipe, followed by sealant.



Step 2

When sealant is fully cured, install Sto Textured Finish up to edge of sealant (not over sealant).

Notes:

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StoPowerwall® ExtraSeal®

Small Pipe Penetration - Option 2

V-groove and Sealant

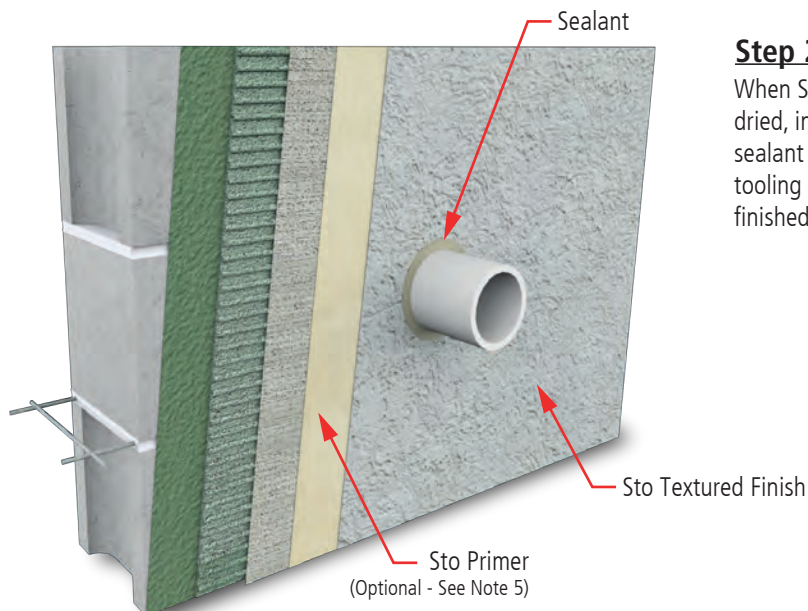
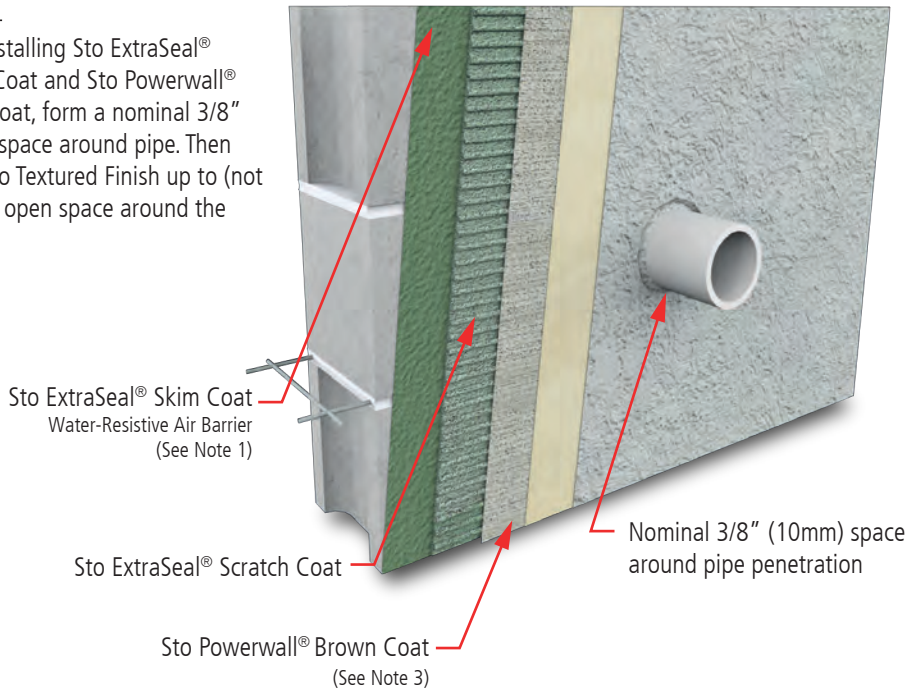
Detail No.: 65c.70

Date: January 2025

Page 3 of 3

Step 1

When installing Sto ExtraSeal® Scratch Coat and Sto Powerwall® Brown Coat, form a nominal 3/8" (10mm) space around pipe. Then install Sto Textured Finish up to (not into) the open space around the pipe.



Step 2

When Sto Textured Finish has dried, install backer rod and sealant around the pipe, tooling it flush with the finished wall surface.

Notes:

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StoPowerwall® ExtraSeal® Fixture Attachment

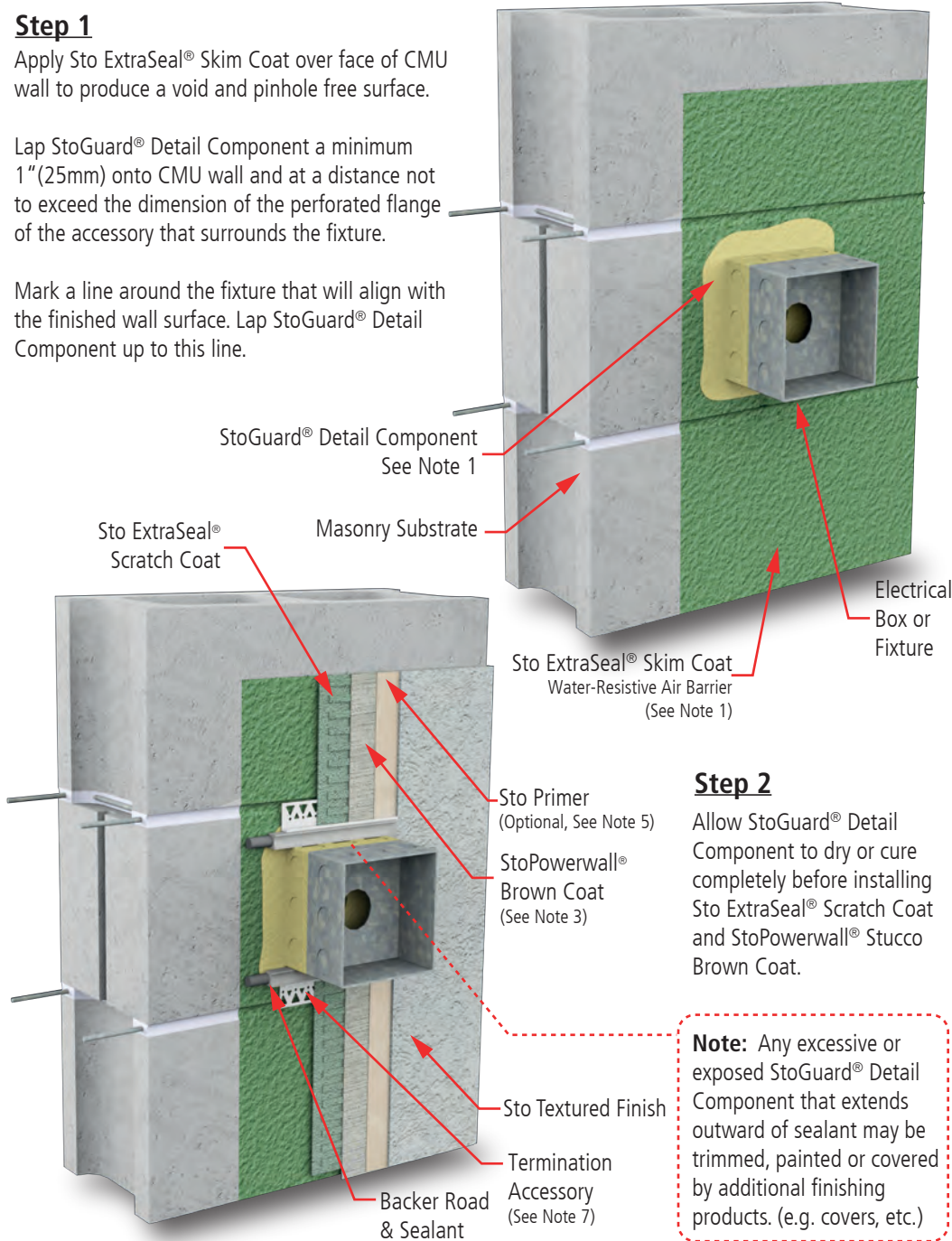
Detail No.: 65c.73
Date: January 2025

Step 1

Apply Sto ExtraSeal® Skim Coat over face of CMU wall to produce a void and pinhole free surface.

Lap StoGuard® Detail Component a minimum 1" (25mm) onto CMU wall and at a distance not to exceed the dimension of the perforated flange of the accessory that surrounds the fixture.

Mark a line around the fixture that will align with the finished wall surface. Lap StoGuard® Detail Component up to this line.



Step 2

Allow StoGuard® Detail Component to dry or cure completely before installing Sto ExtraSeal® Scratch Coat and StoPowerwall® Stucco Brown Coat.

Note: Any excessive or exposed StoGuard® Detail Component that extends outward of sealant may be trimmed, painted or covered by additional finishing products. (e.g. covers, etc.)

Notes:

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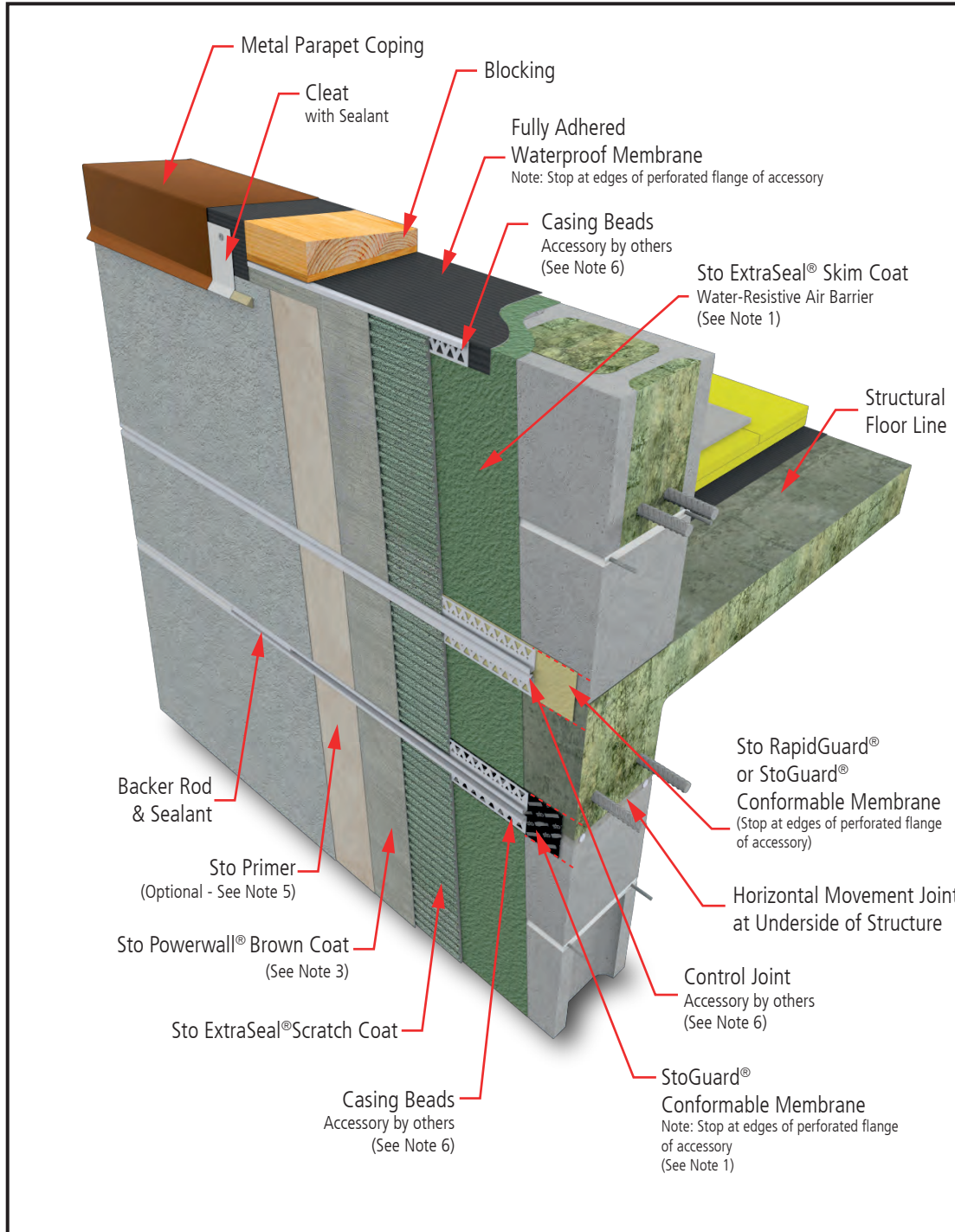


StoPowerwall® ExtraSeal® Parapet - Front

Detail No.: 65c.81

Date: January 2025

Page 1 of 2



Notes:

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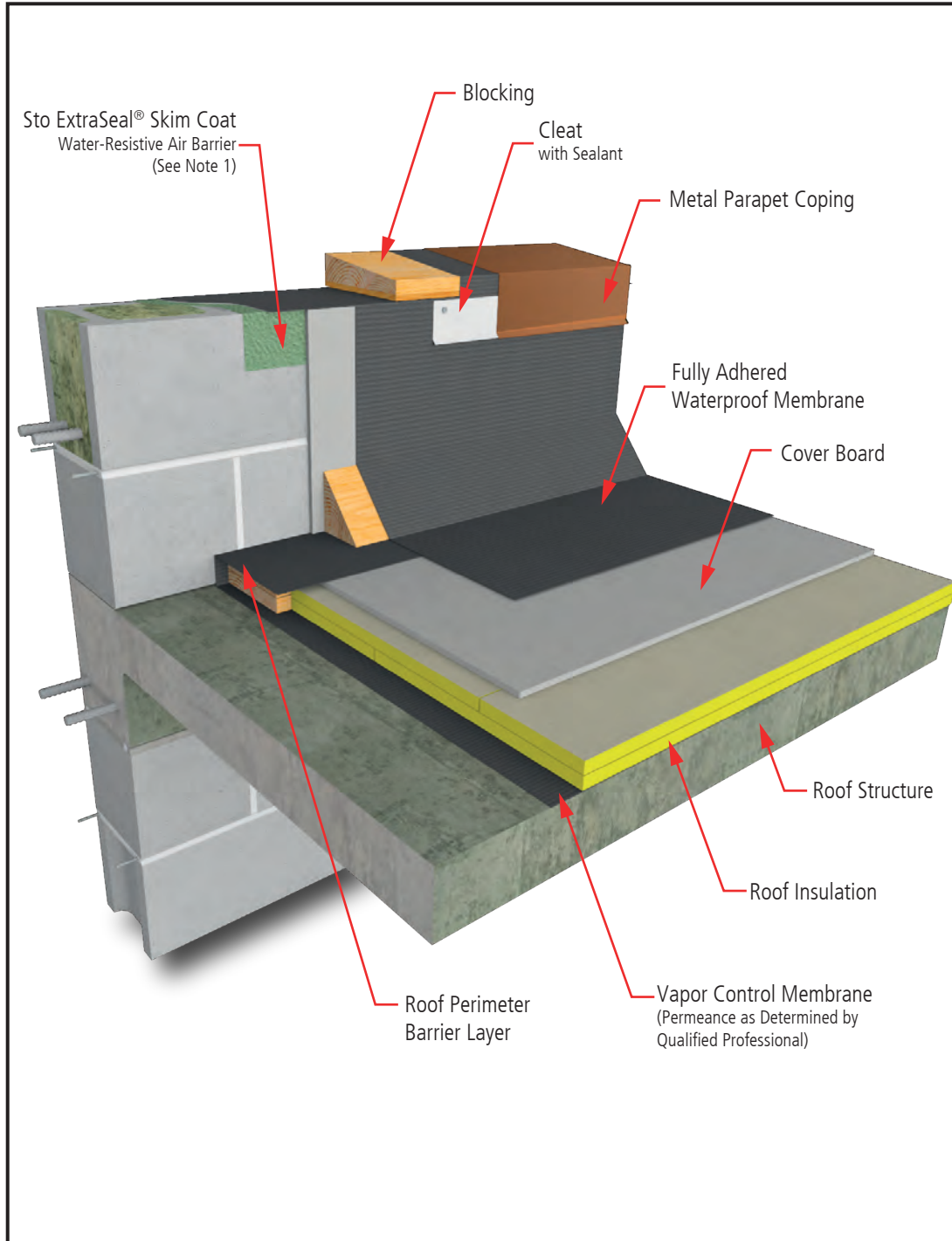


StoPowerwall® ExtraSeal® Parapet - Back

Detail No.: 65c.81

Date: January 2025

Page 2 of 2



Notes:

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