



Building with conscience.

StoPowerwall® ci Insulation Inbound

Detail Booklet

Series 62s.xx | July 2022

Facades



Stucco Systems

StoPowerwall® ci (Insulation Inbound) is an energy efficient stucco wall assembly with a continuous air and water resistive barrier and continuous exterior insulation. It combines the strength and durability of traditional stucco with an advanced wall design and Sto high performance finishes. Insulation inbound of the sheathing facilitates installation, construction sequencing, and detailing.

StoPowerwall® ci (Insulation Inbound) can be used in residential or commercial wall construction.





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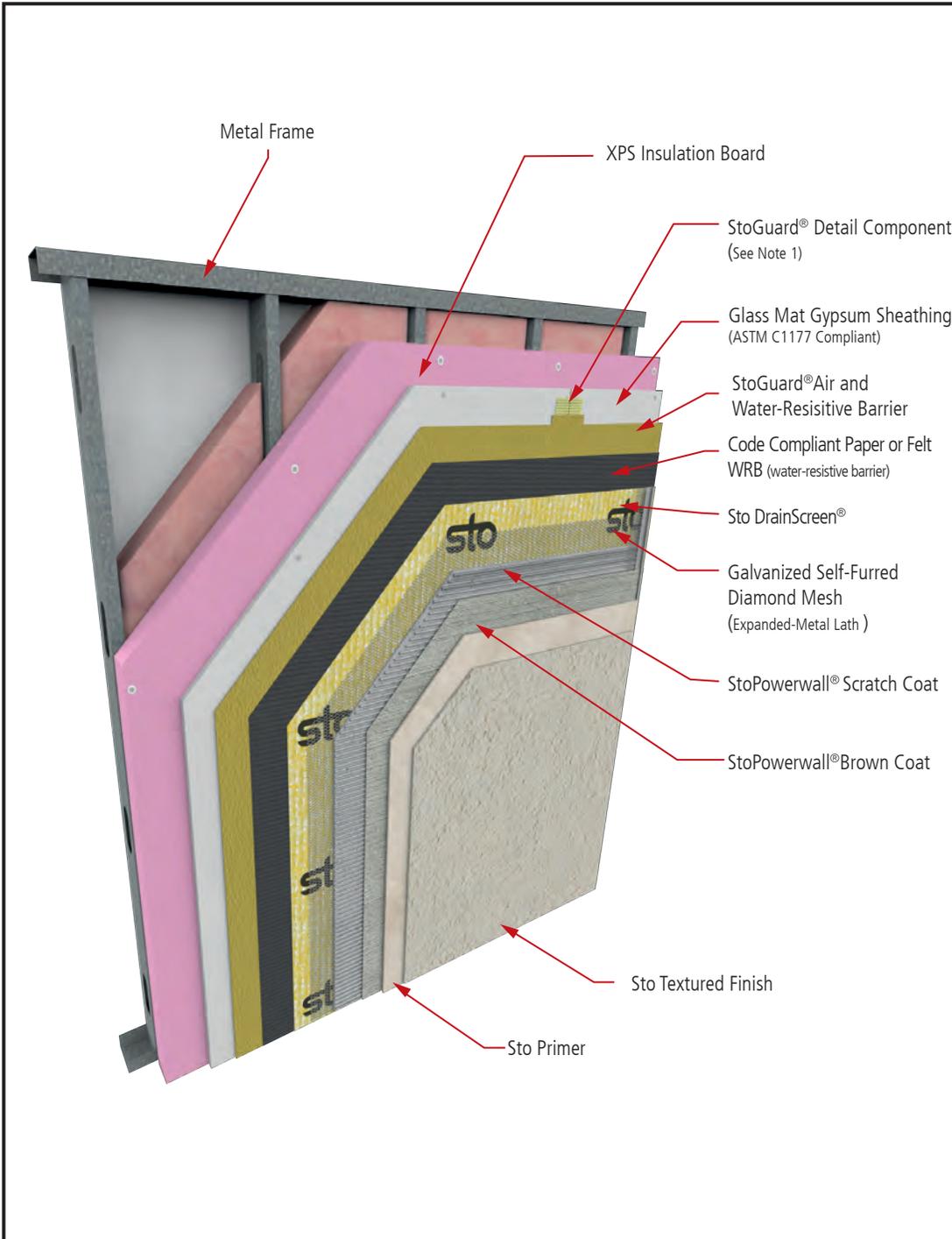
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StoPowerwall®ci

System Components - Insulation Inbound

Detail No.: 62s.00
Date: July 2022



- 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. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.
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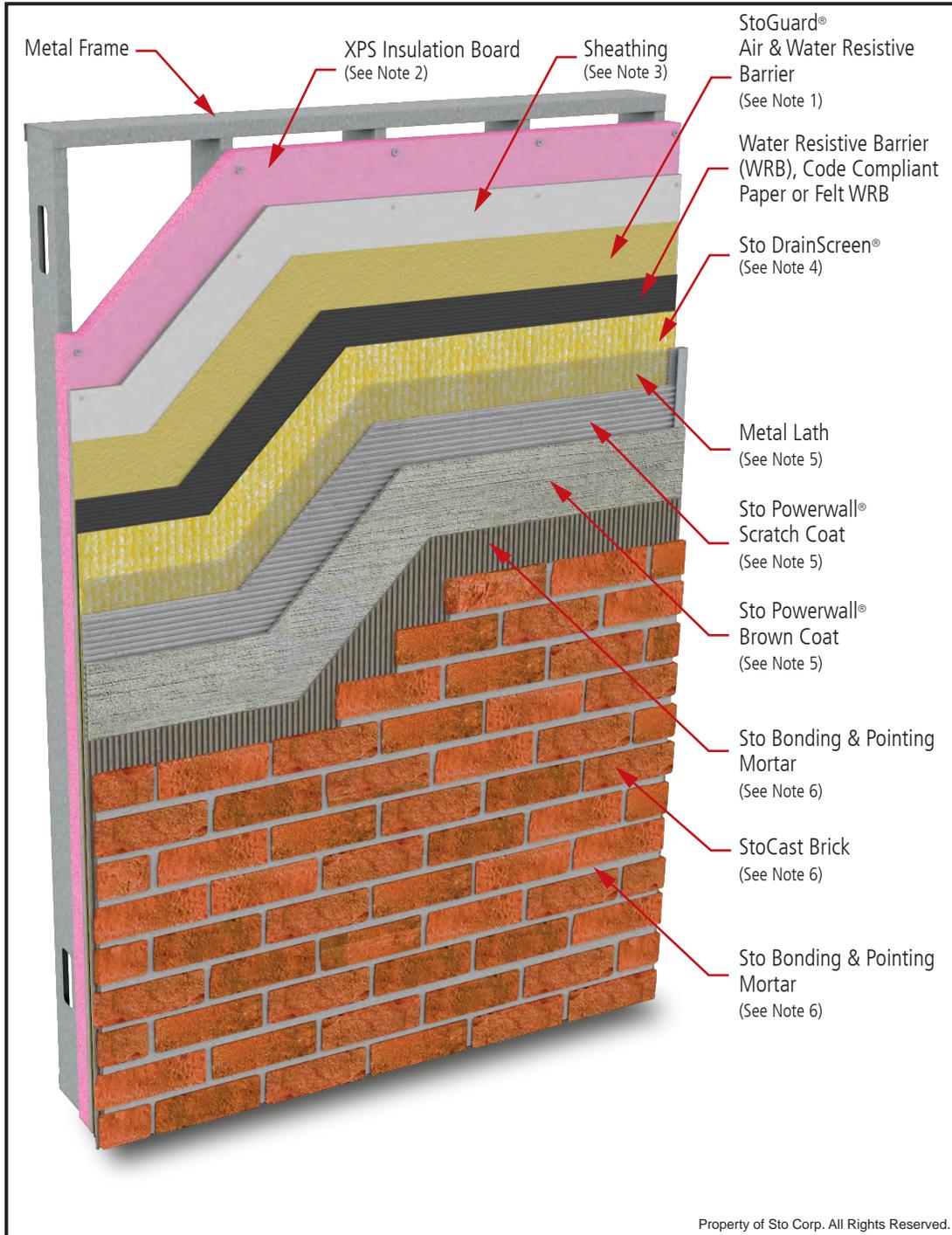
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Sto Powerwall® ci with StoCast Brick

Detail No.: 62s.00 SCB
Date: July 2022



Notes:

1. See StoGuard Chart (22s.SG) for transition component, joint treatment, and rough opening protection product options.
2. XPS Insulation options, in compliance with ASTM C 578:
- Owens Corning Type IV XPS rigid insulation board.
- Dow Type IV XPS rigid insulation board.
3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.
4. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.
5. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
6. Refer to the StoCast Brick Application Guide 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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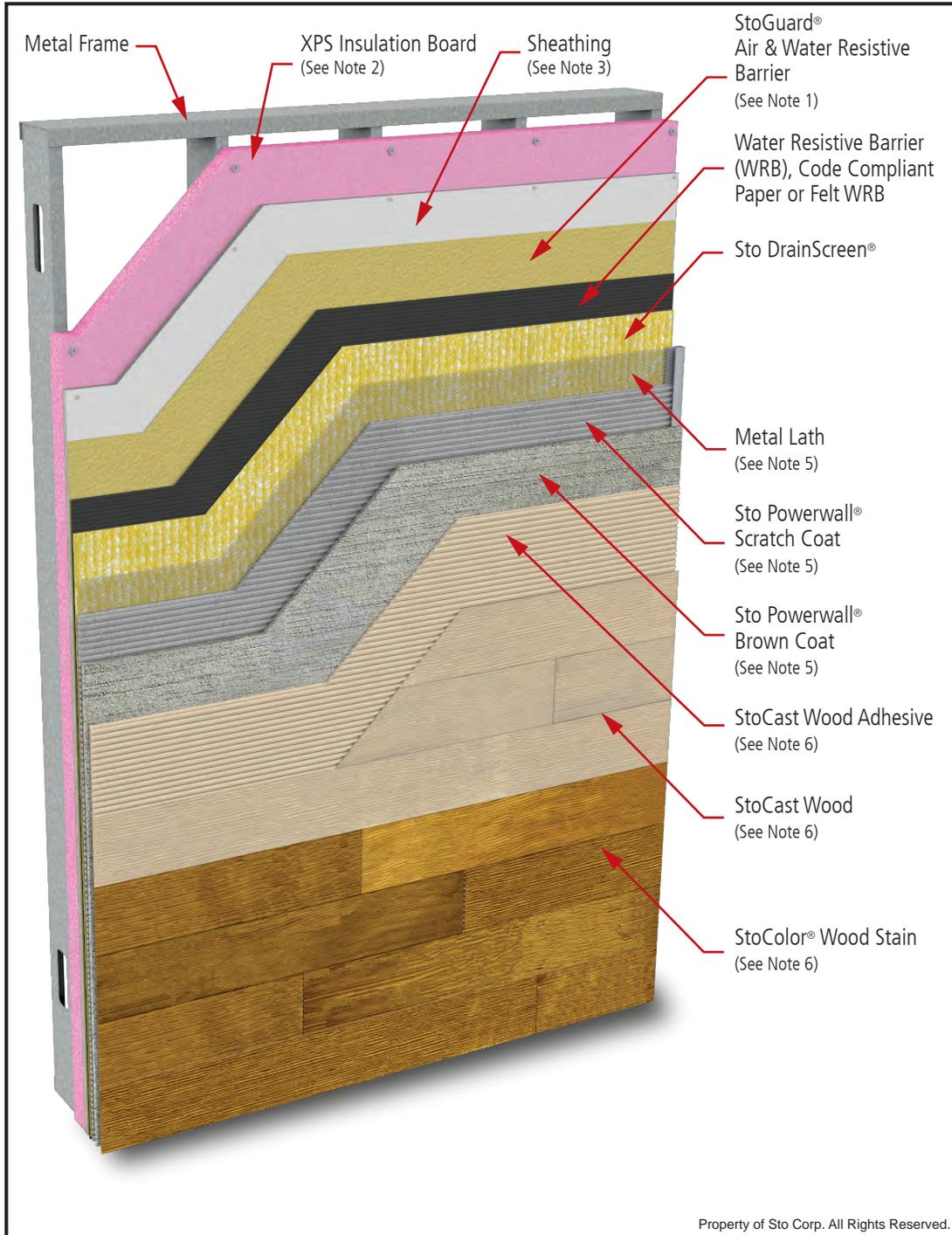
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Sto Powerwall® ci with StoCast Wood

Detail No.: 62s.00 SCW
Date: July 2022



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2. XPS Insulation options, in compliance with ASTM C 578:
- Owens Corning Type IV XPS rigid insulation board.
- Dow Type IV XPS rigid insulation board.
3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.
4. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.
5. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.
6. Refer to the StoCast Wood Application Guide for more information.
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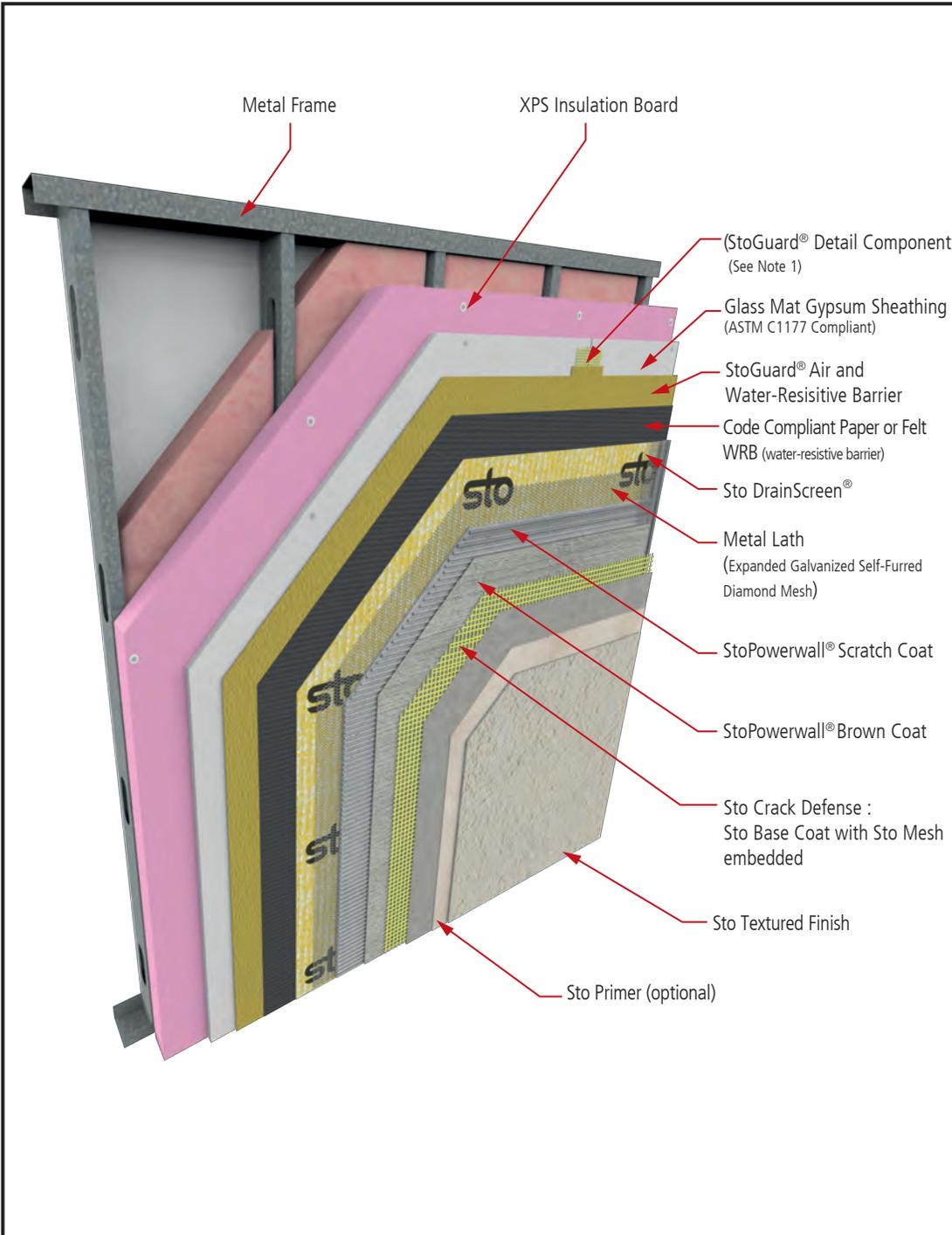
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StoPowerwall®ci with Sto Crack Defense System System Components - Insulation Inbound

Detail No.: 62s.01

Date: July 2022



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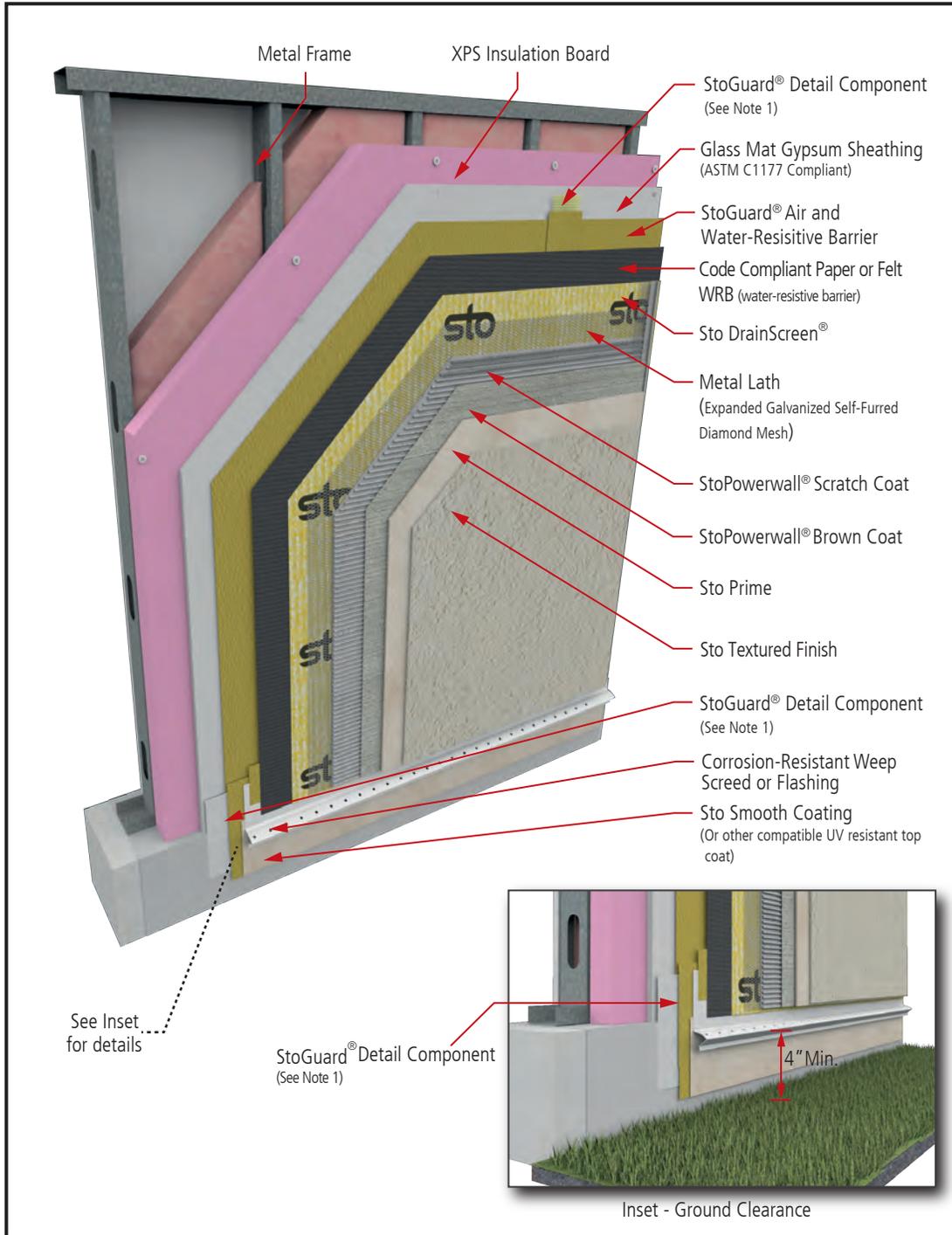
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StoPowerwall®ci

Termination at Grade: Sheathing Flush with Foundation

Detail No.: 62s.02
Date: July 2022



Notes:

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2. Refer to General Notes for specific information and design guidance on wall assembly components.
3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.
4. Cladding termination minimum 4" (101 mm) above finish grade, minimum 2" (51 mm) above paved surfaces.
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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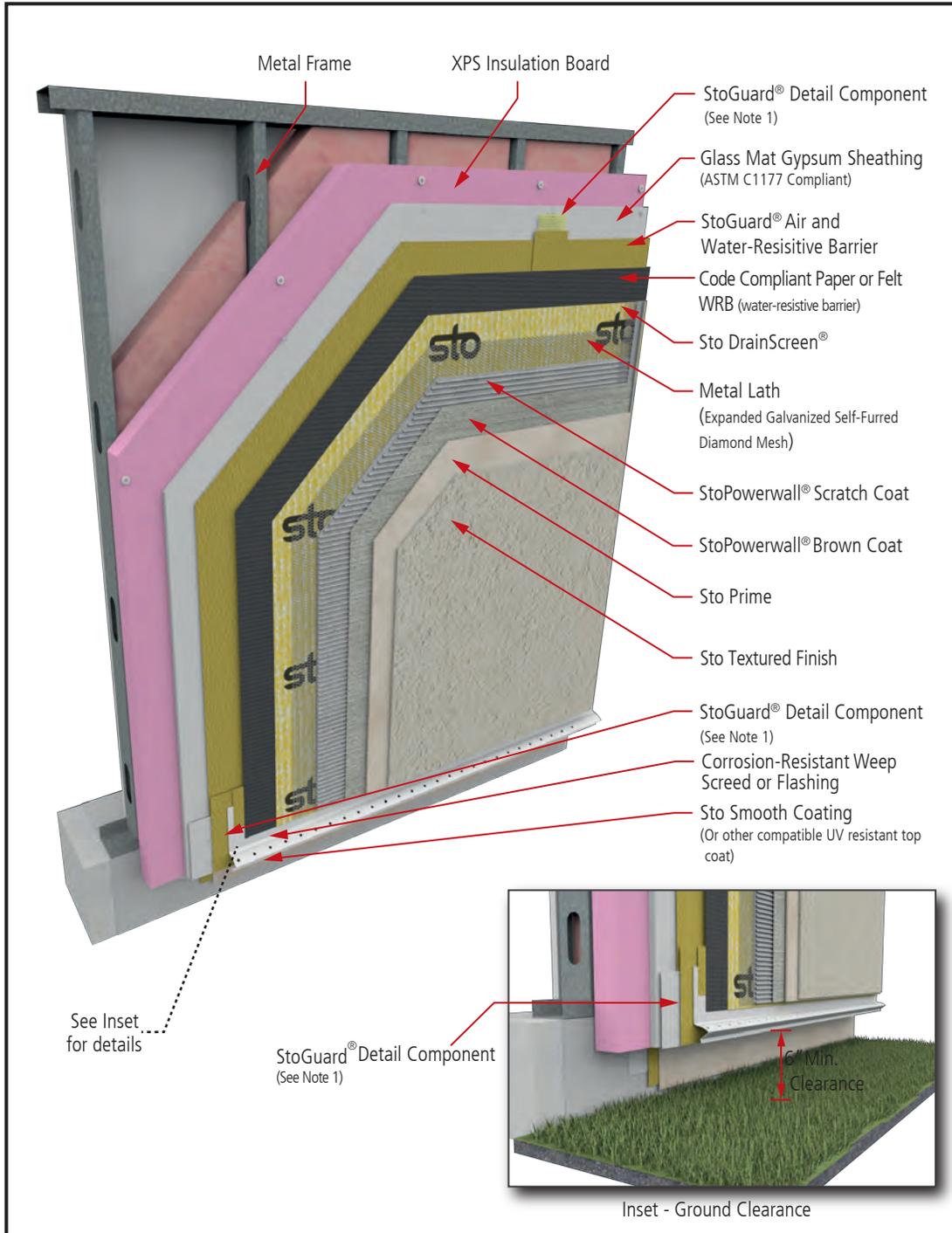


StoPowerwall®ci

Termination at Grade: Sheathing over Foundation

Detail No.: 62s.03

Date: July 2022



Notes:

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3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.
4. Cladding termination minimum 6" (152 mm) above finish grade.
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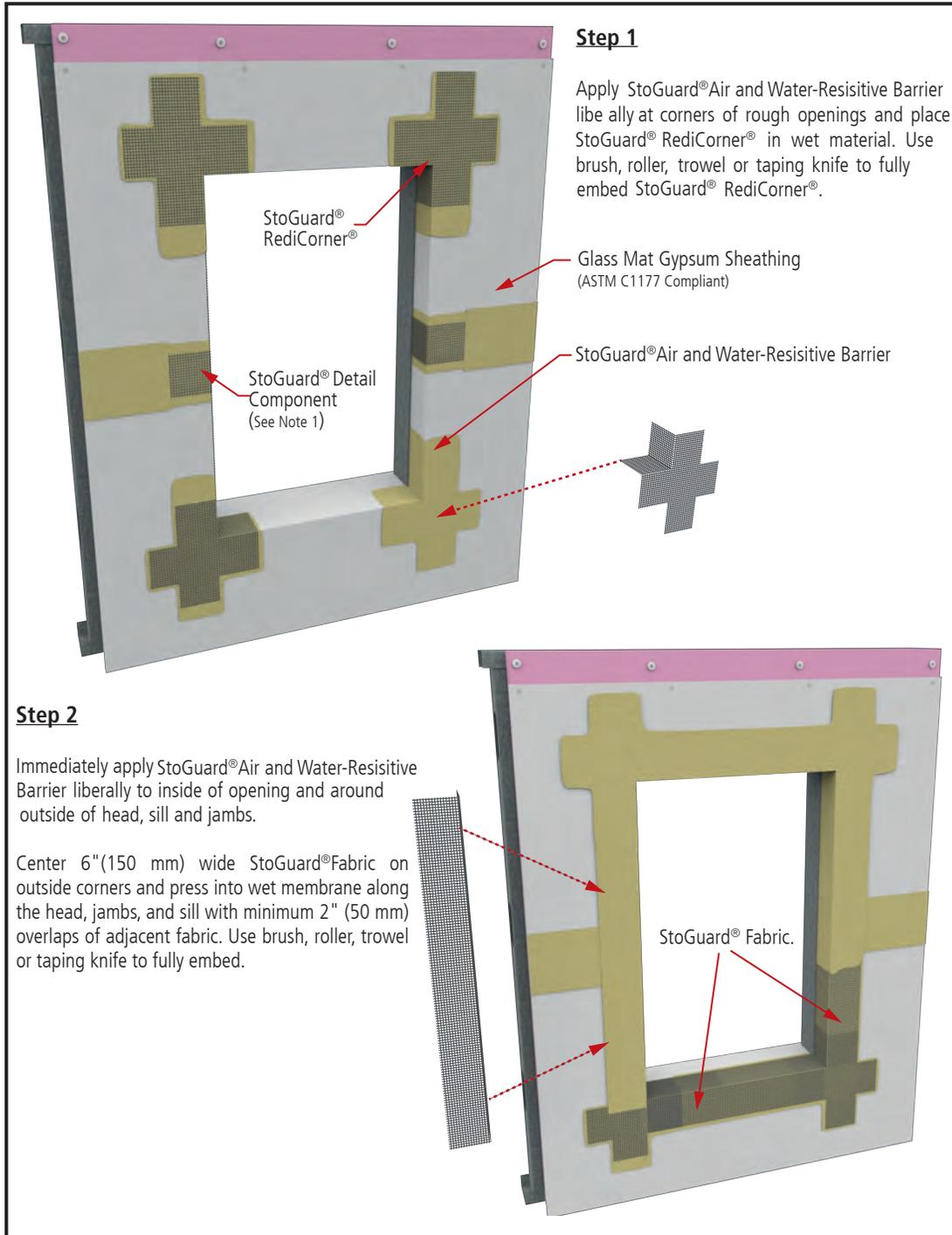
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StoPowerwall®ci

Rough Opening Protection with StoGuard®Fabric

Detail No.: 62s.04F
 Date: July 2022
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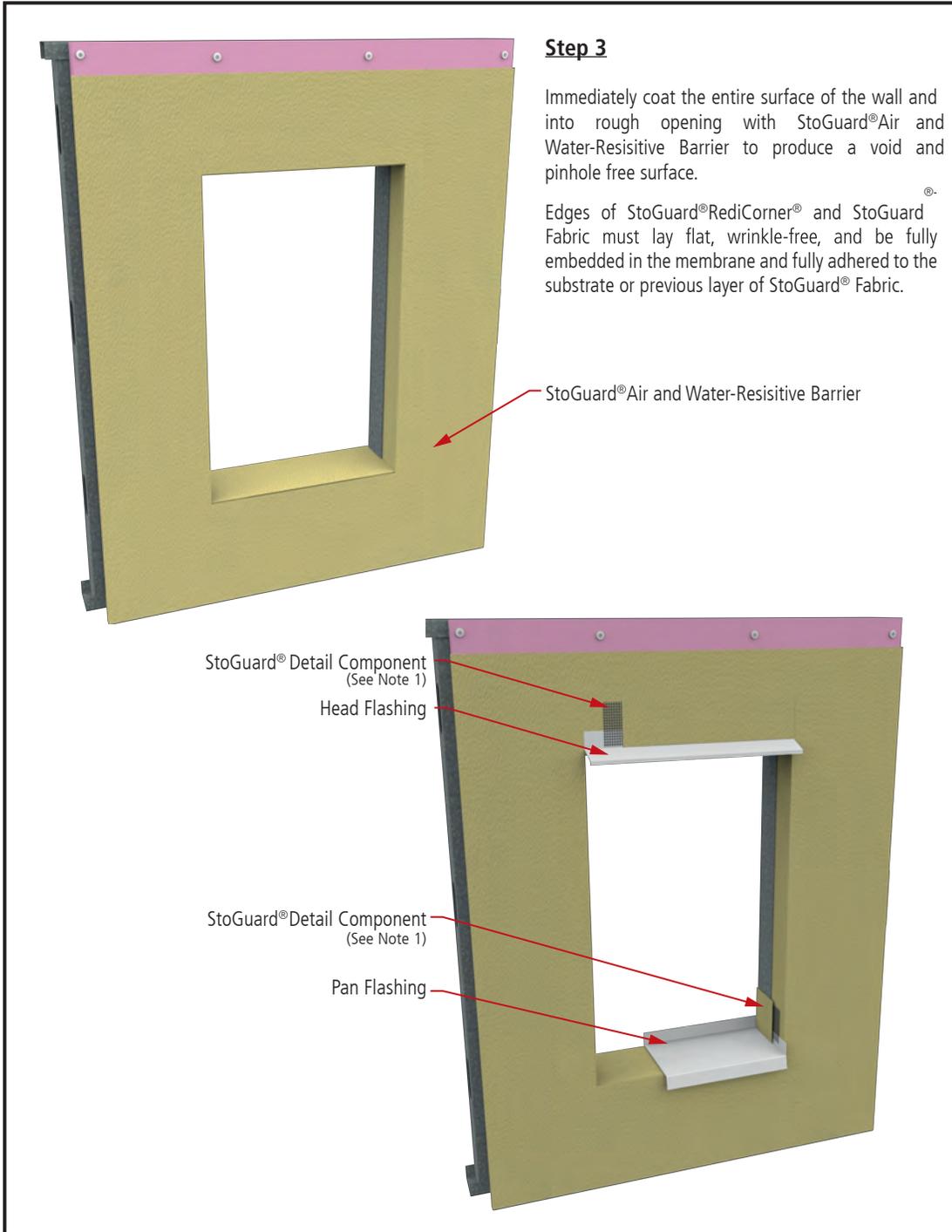
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StoPowerwall®ci

Rough Opening Protection with StoGuard®Fabric

Detail No.: 62s.04F
 Date: July 2022
 Page 2 of 2



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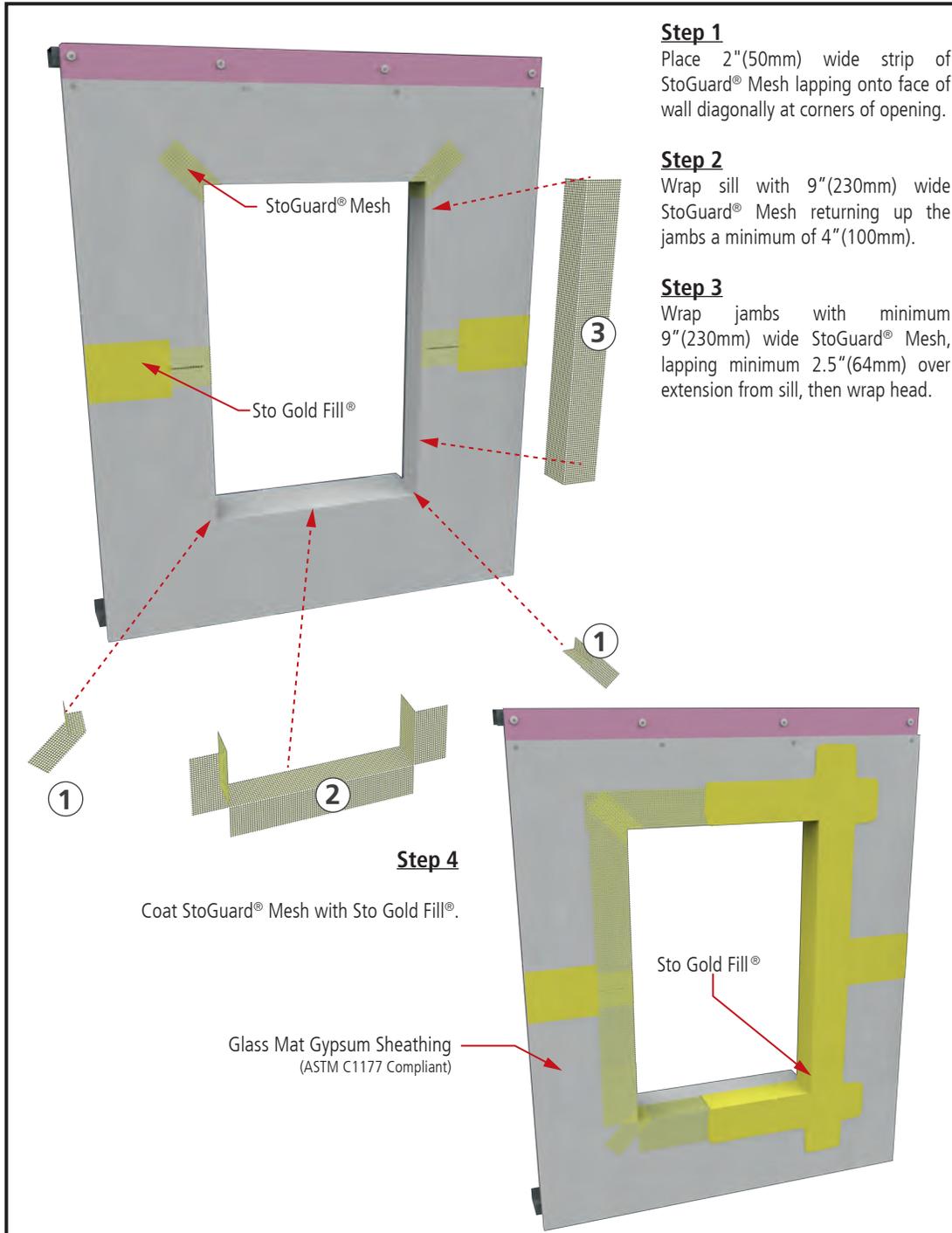
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StoPowerwall® ci

Rough Opening Protection with StoGuard® Mesh

Detail No.: 62s.04M
 Date: July 2022
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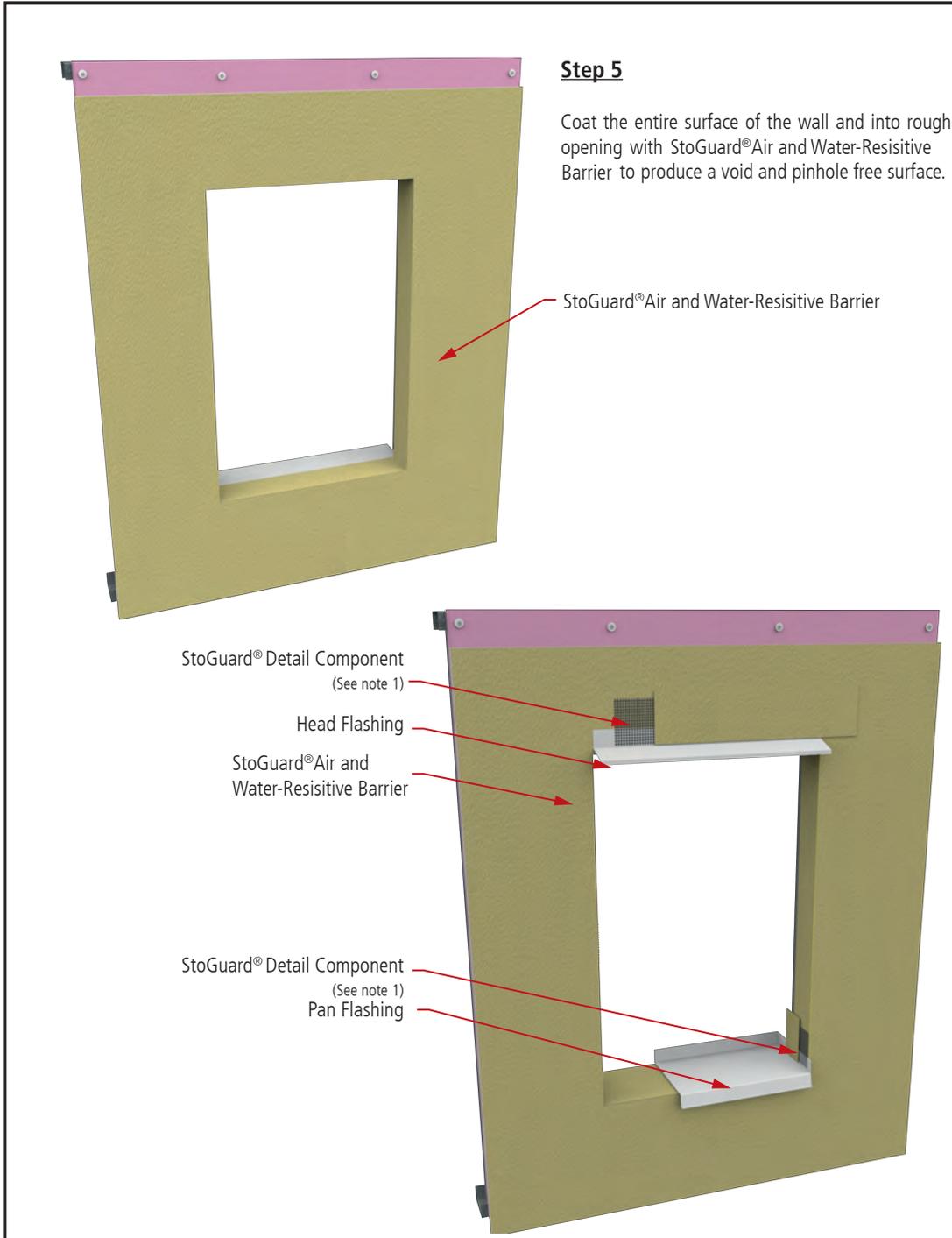
StoPowerwall®ci

Rough Opening Protection with StoGuard®Mesh

Detail No.: 62s.04M

Date: July 2022

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Step 5

Coat the entire surface of the wall and into rough opening with StoGuard®Air and Water-Resistive Barrier to produce a void and pinhole free surface.

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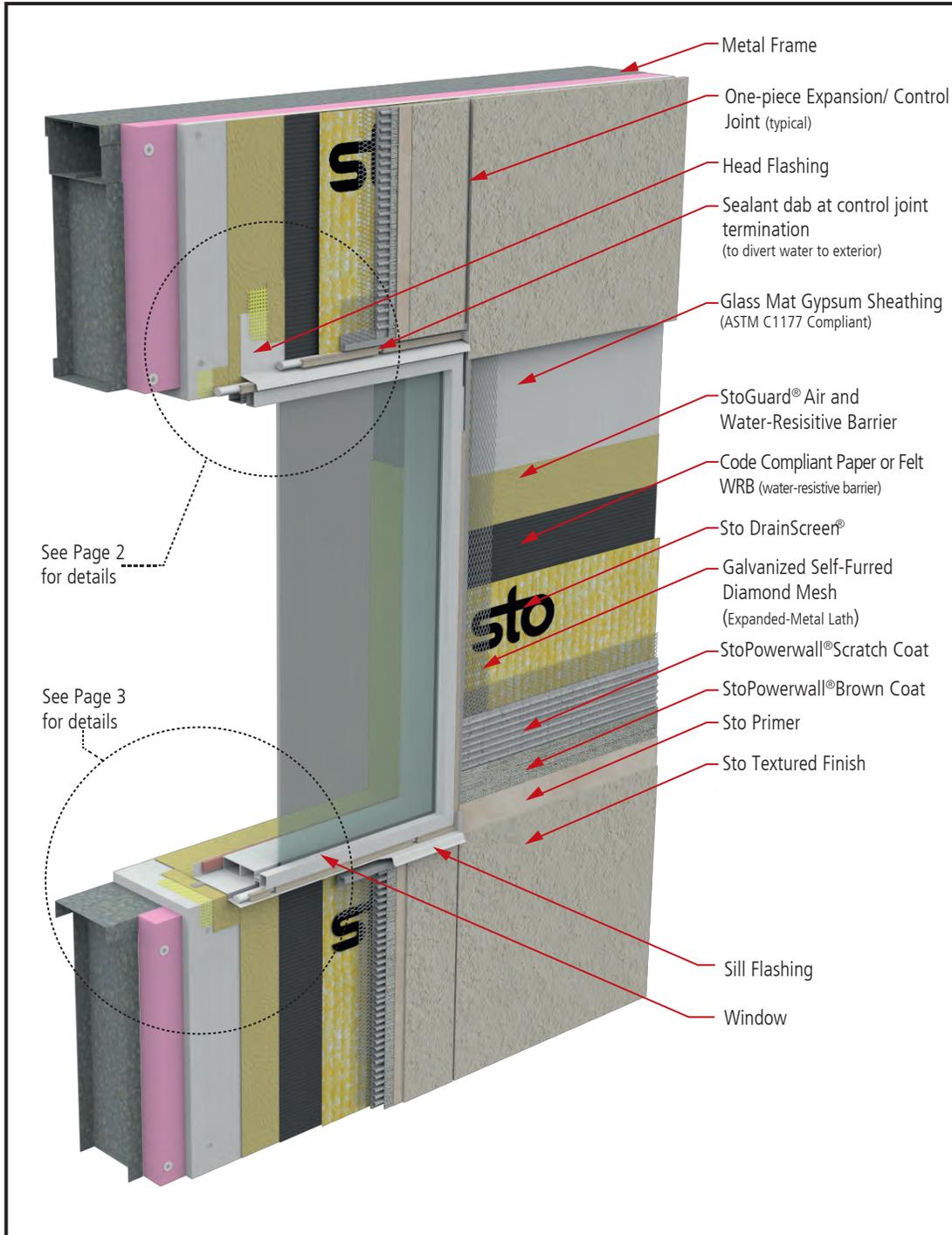


StoPowerwall®ci Box Window at Sill, Jamb, and Head

Detail No.: 62s.05

Date: July 2022

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Notes:

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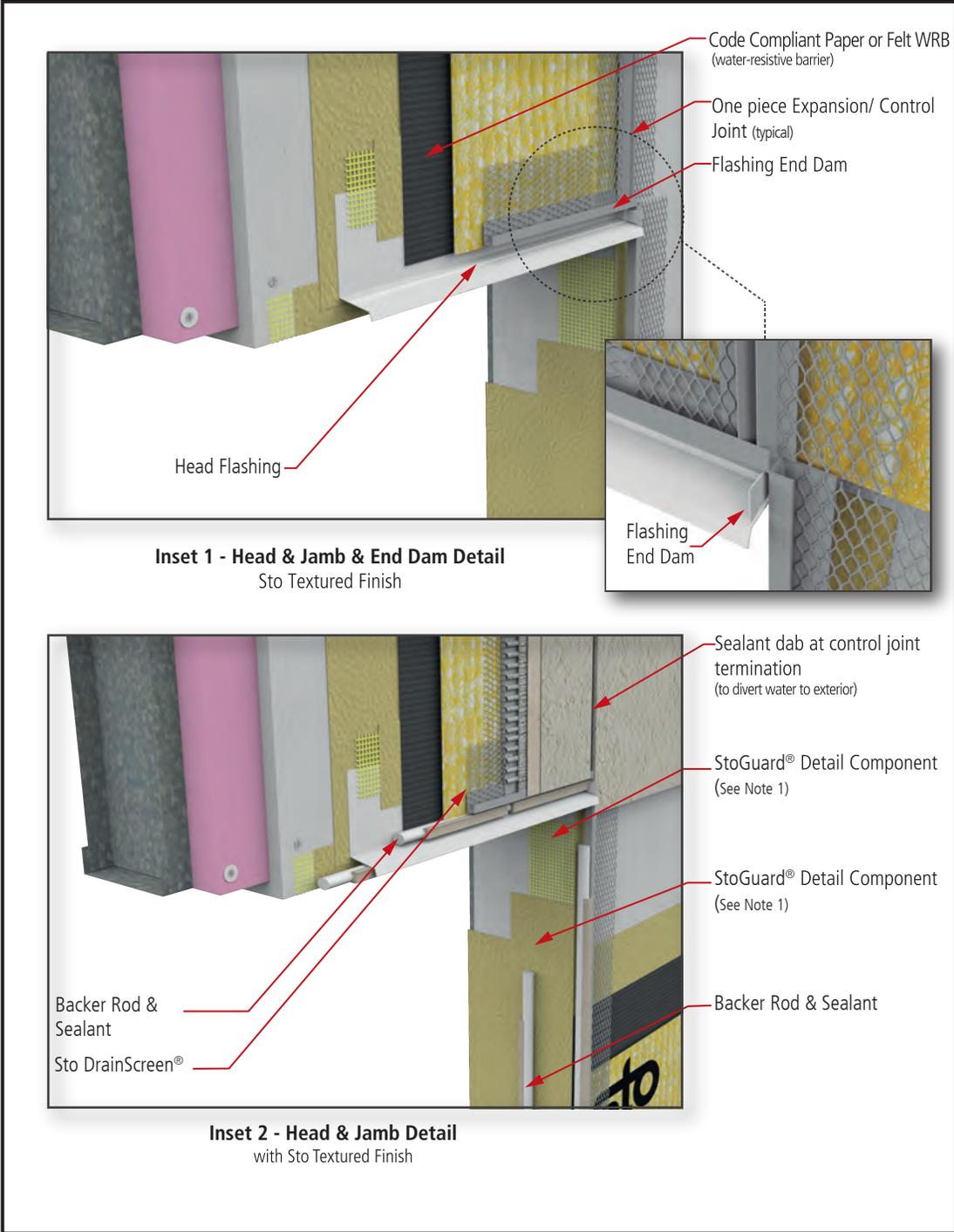
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StoPowerwall®ci
Box Window at Head/Jamb

Detail No.: 62s.05
Date: July 2022

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StoPowerwall®ci Box Window at Sill/Jamb

Detail No.: 62s.05

Date: July 2022

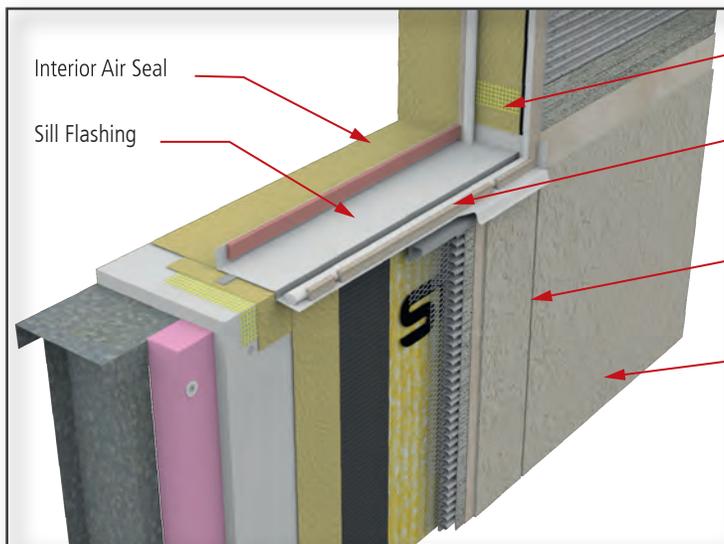
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Inset 3 - Sill & Jamb Detail
without Sto Textured Finish

Casing Bead
Flashing End Dam
Sill Flashing
Sto DrainScreen®
One piece Expansion/ Control Joint (typical)

StoGuard® Detail Component
(See Note 1)



Inset 4 - Sill & Jamb Detail
with Sto Textured Finish

StoGuard® Detail Component
(See Note 1)
Backer Rod & Sealant
One-piece Expansion-Control Joint (typical)
Sto Textured Finish

Interior Air Seal
Sill Flashing

Notes:

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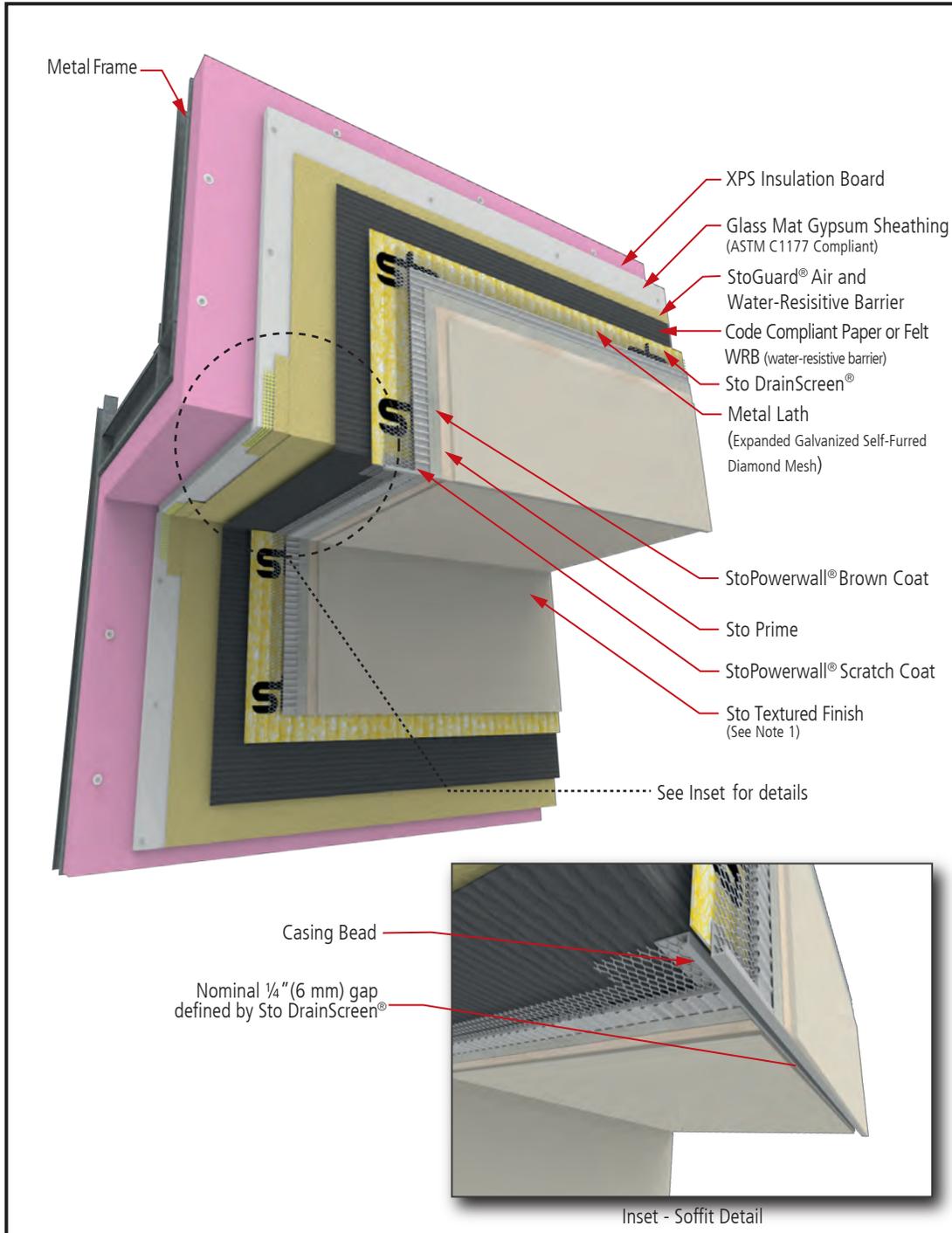
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StoPowerwall®ci Soffit Return

Detail No.: 62s.07

Date: July 2022



Notes:

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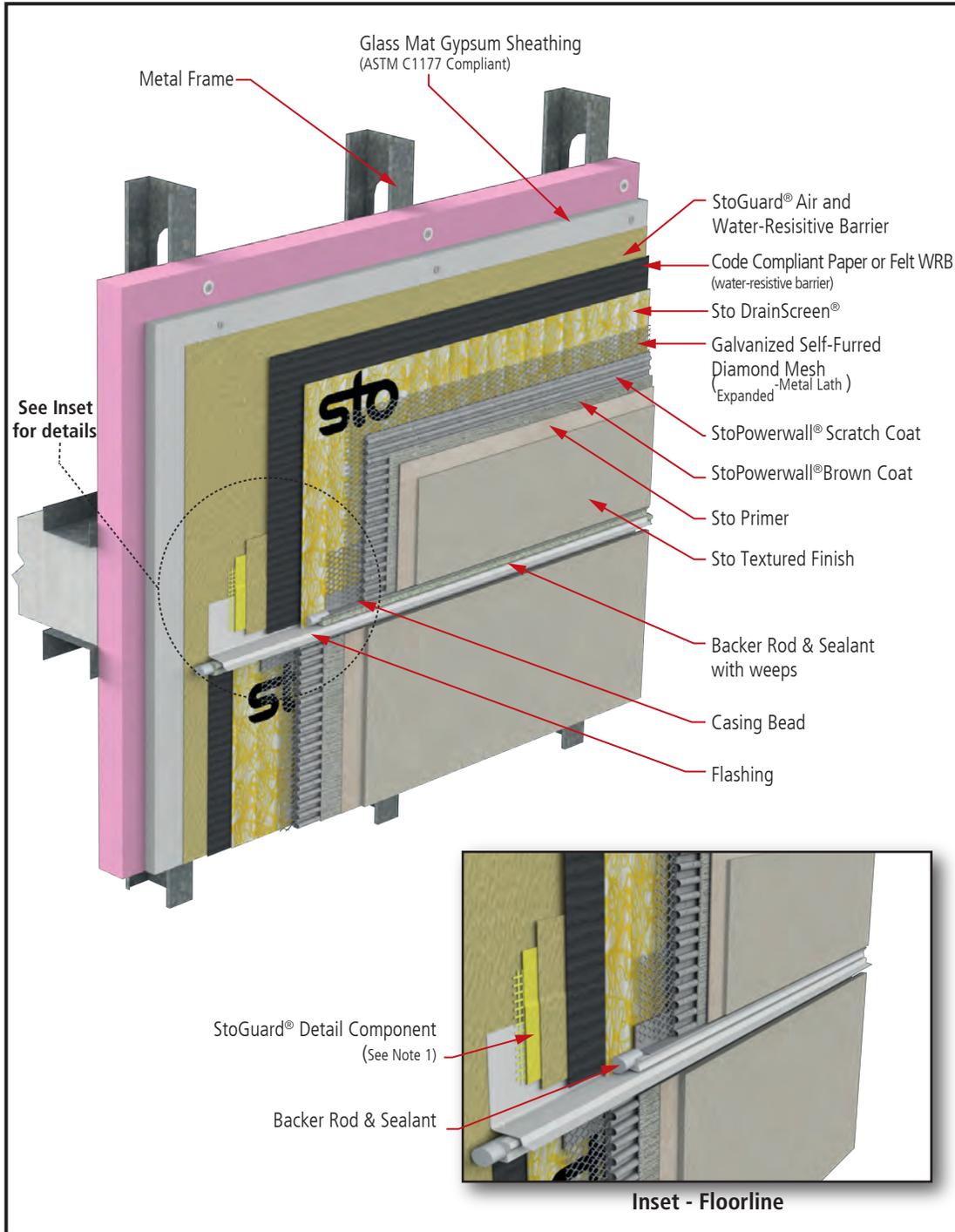
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StoPowerwall®ci

Floorline without Deflection Track

Detail No.: 62s.08
Date: July 2022



Notes:

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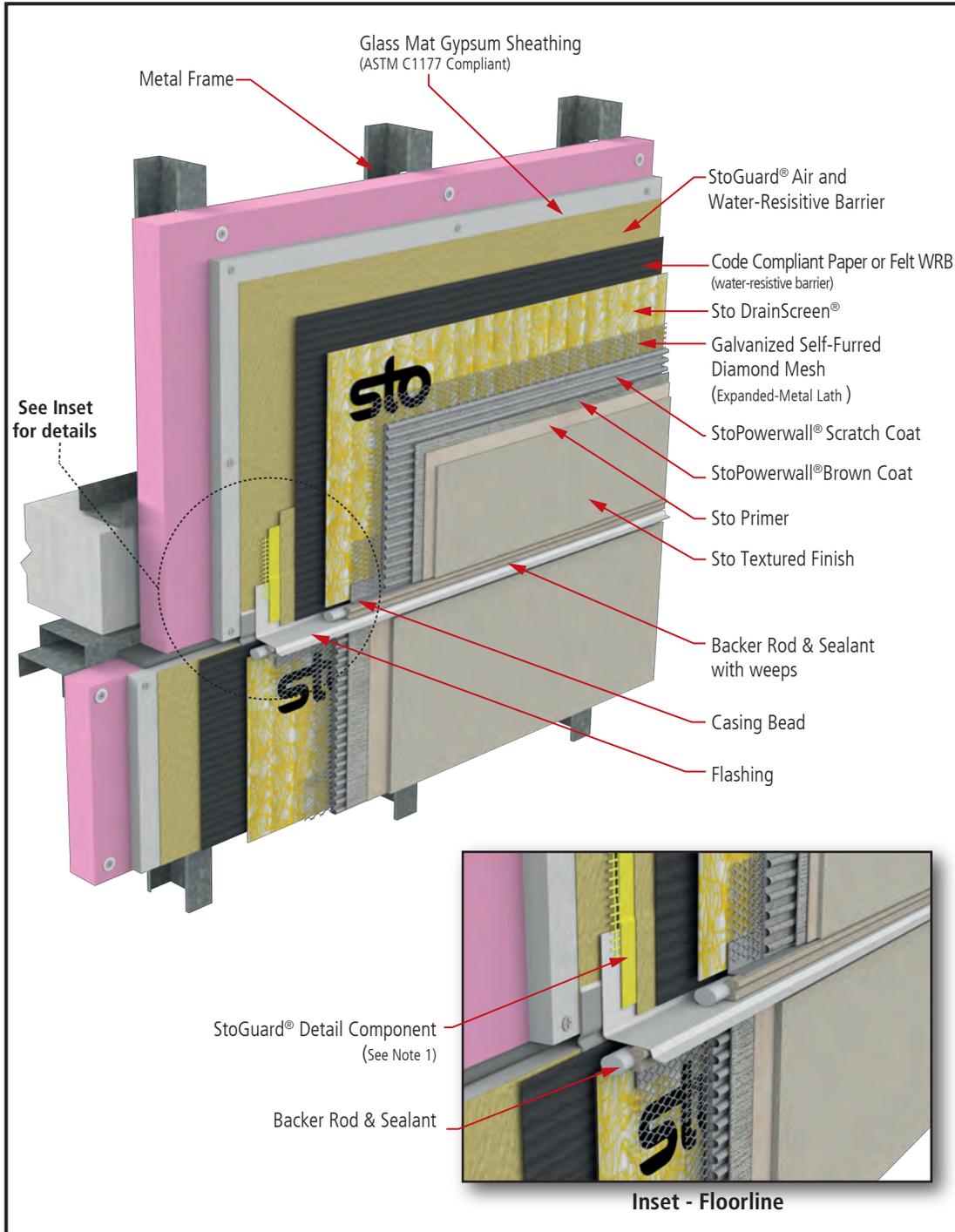
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StoPowerwall®ci

Floorline with Deflection Track

Detail No.: 62s.09
Date: July 2022



Notes:

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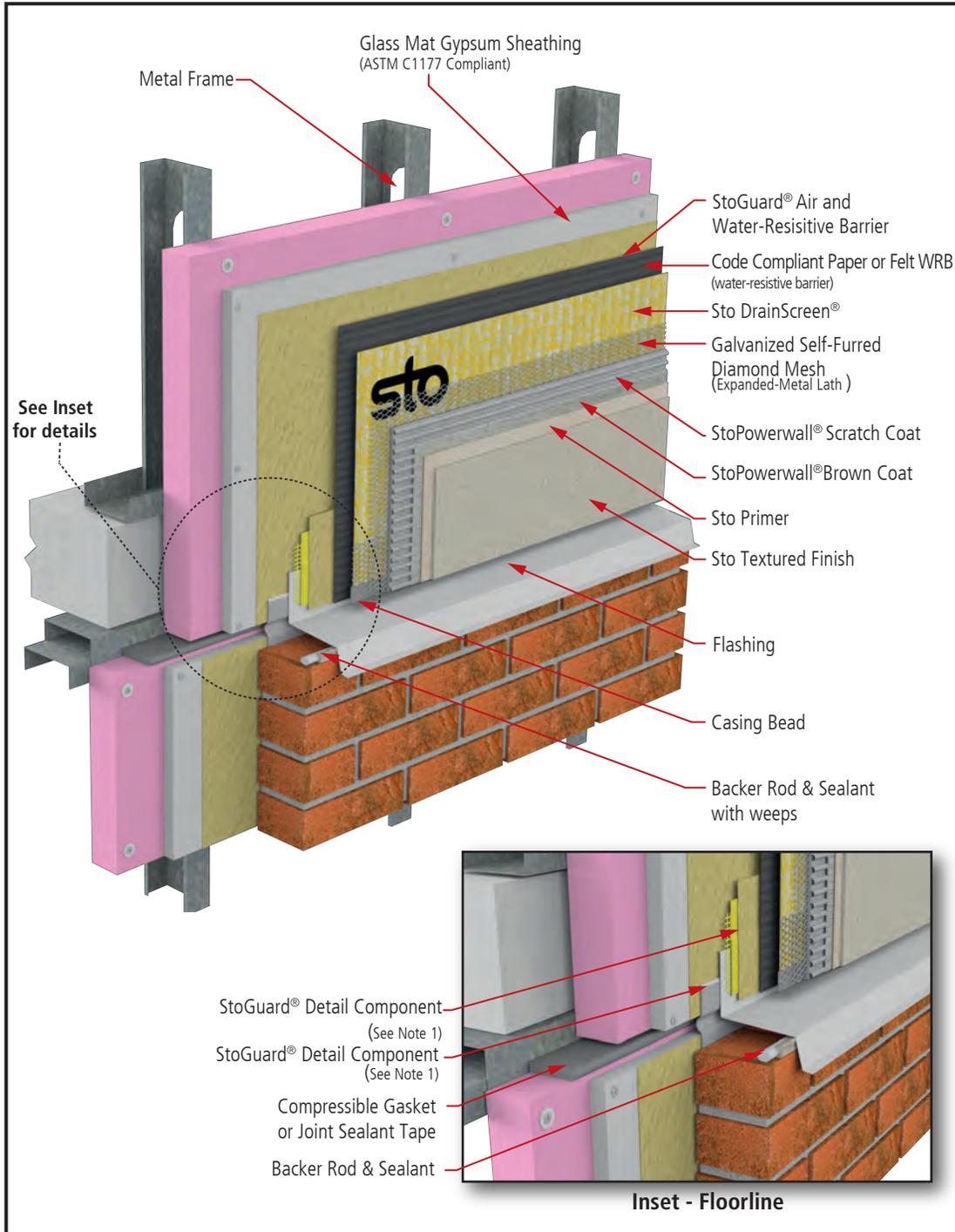
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StoPowerwall®ci

Horizontal Joint at Dissimilar Material

Detail No.: 62s.10
Date: July 2022



Notes:

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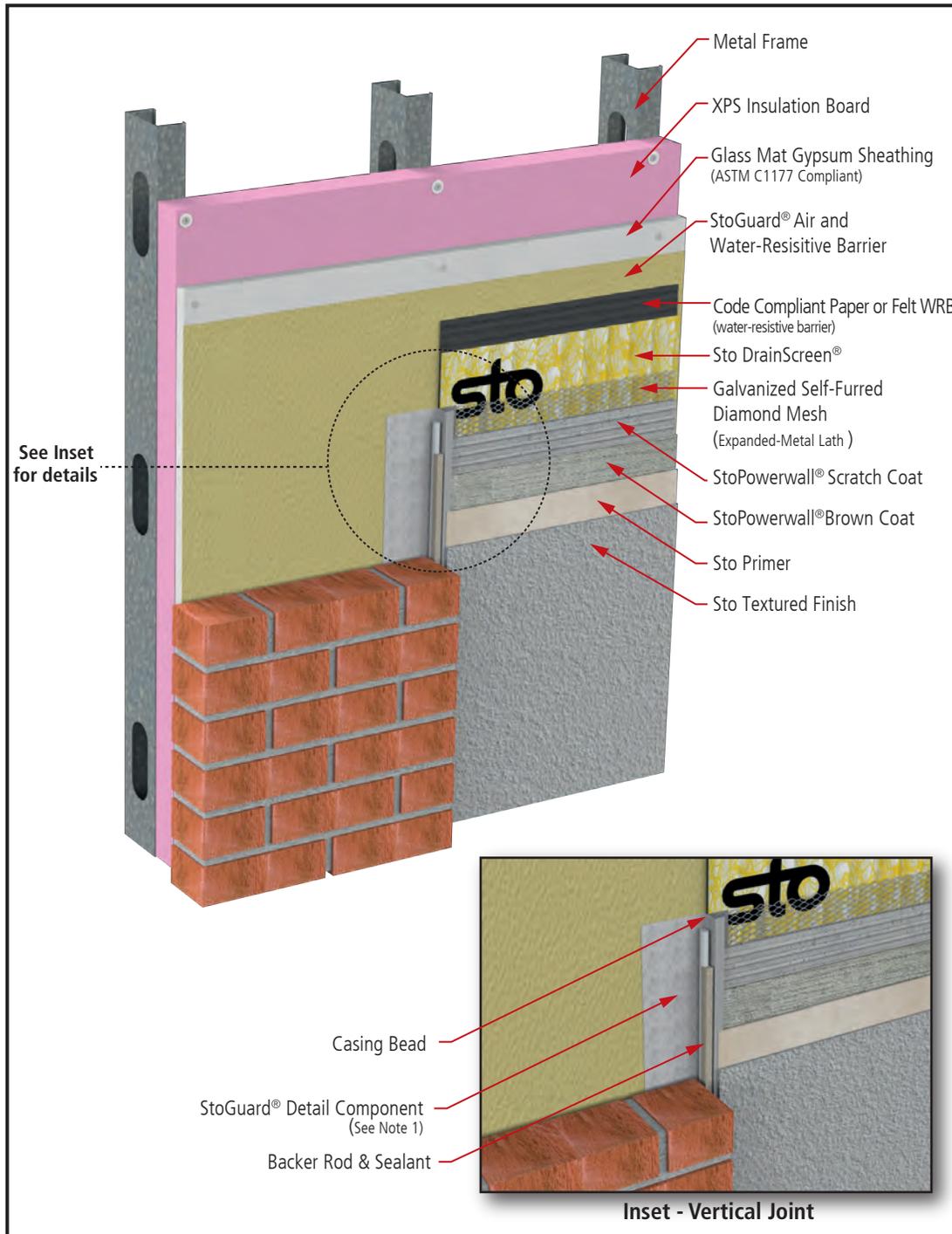
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StoPowerwall® ci

Vertical Joint at Dissimilar Material

Detail No.: 63s.11
Date: July 2022



Notes:

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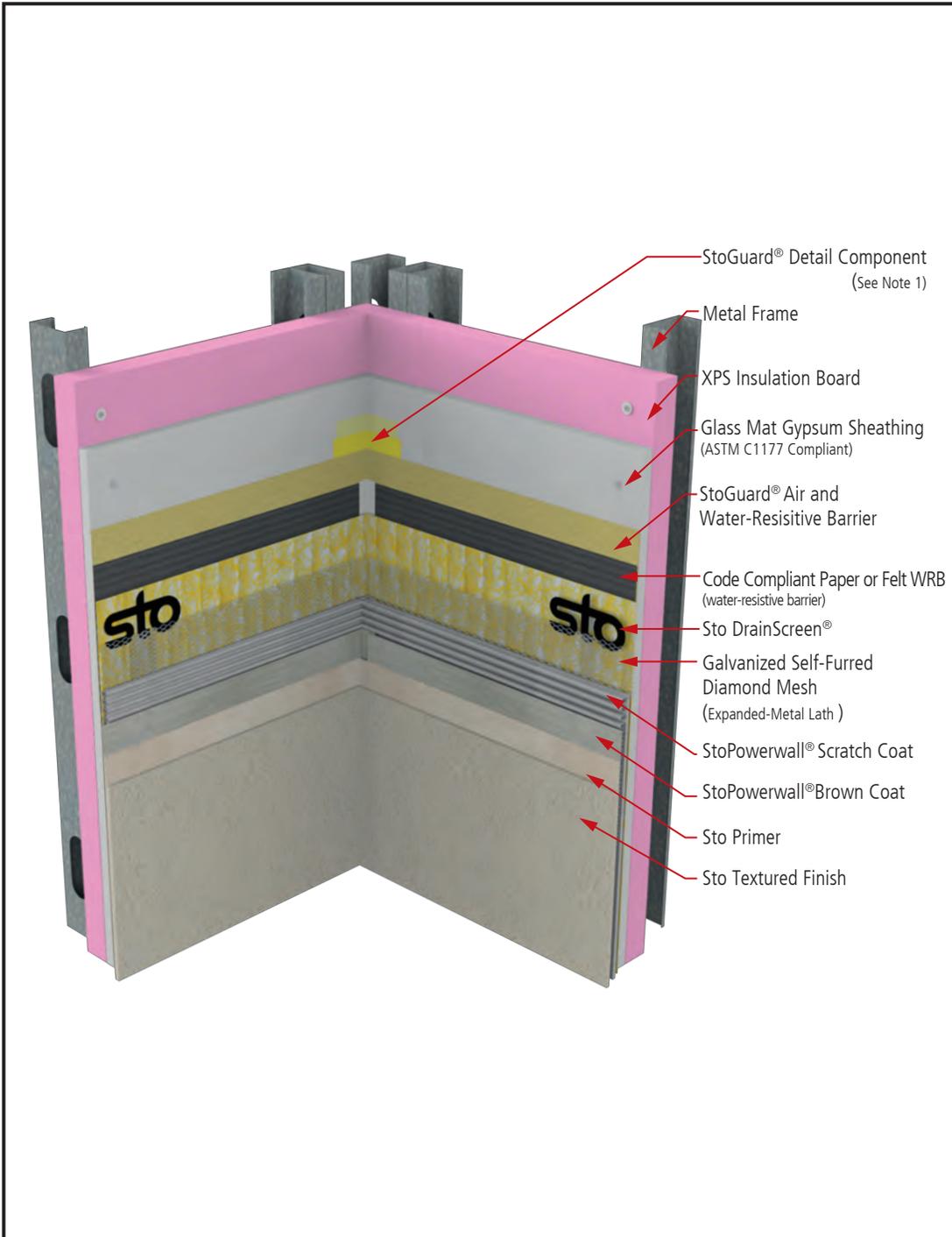
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StoPowerwall® ci

Inside Corner: Common Substrate

Detail No.: 62s.12
Date: July 2022



Notes:

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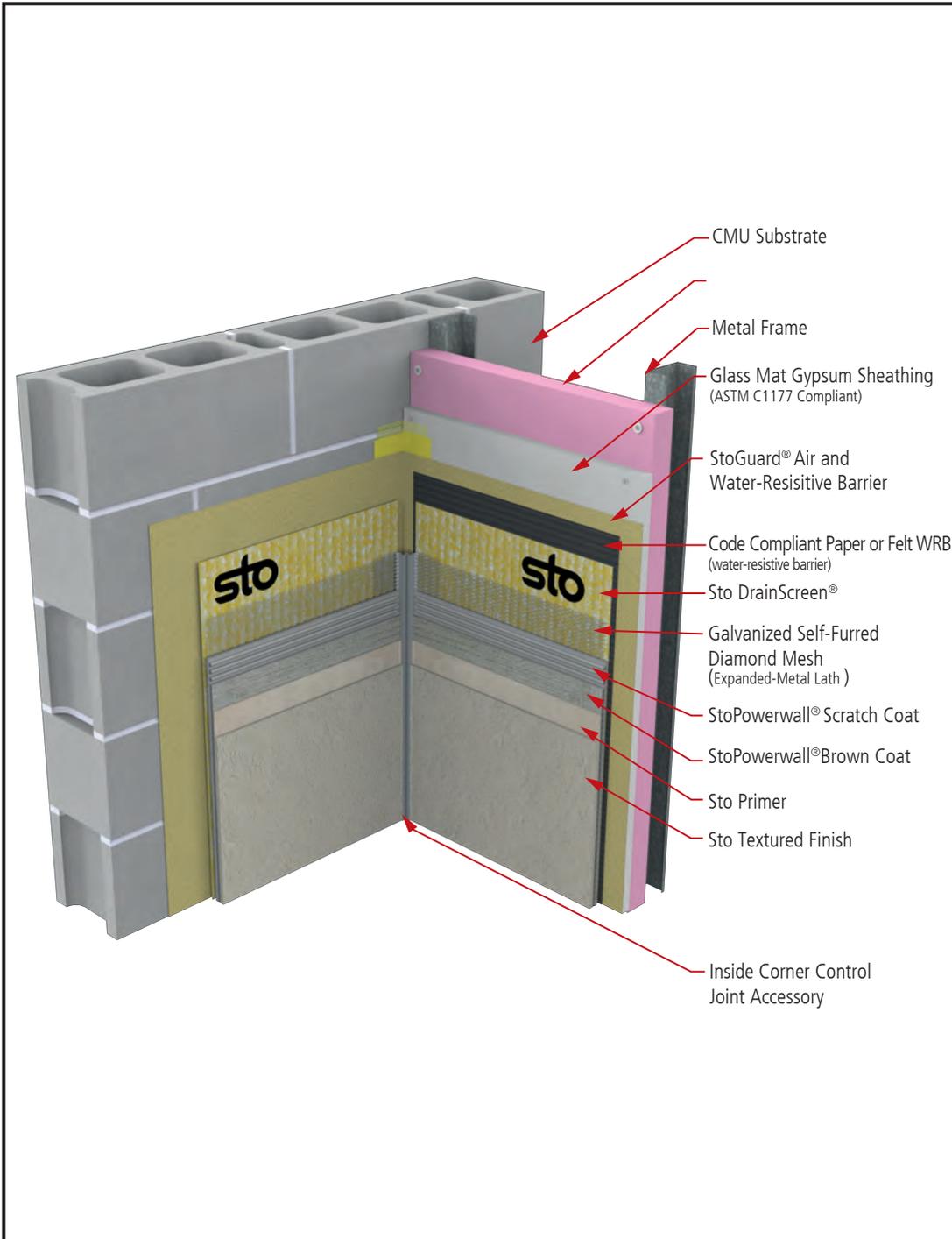
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StoPowerwall®ci

Vertical Joint at Inside Corner: Different Substrate

Detail No.: 62s.13
Date: July 2022



Notes:

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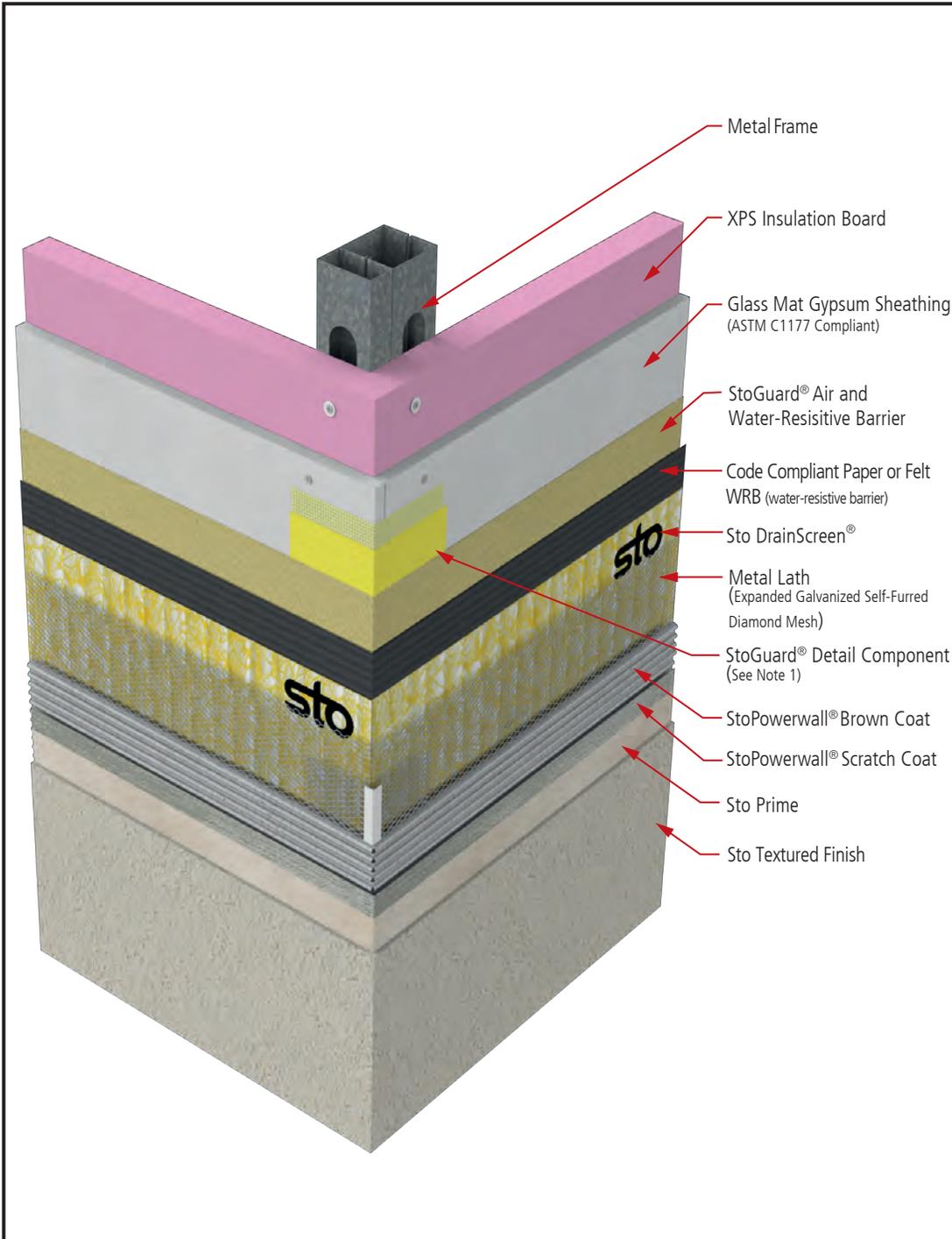
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StoPowerwall®ci

Outside Corner: Common Substrate

Detail No.: 62s.14
Date: July 2022



Notes:

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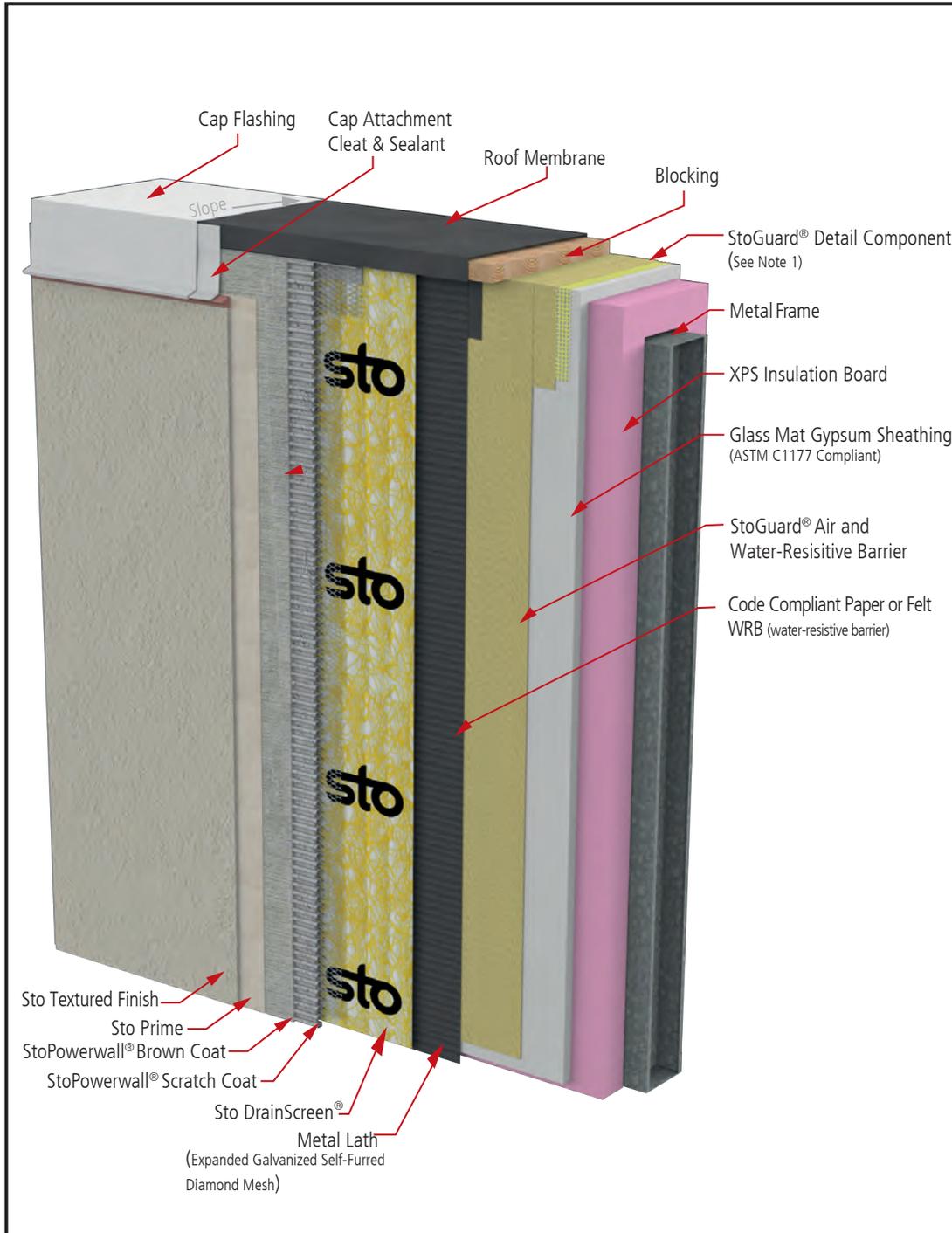
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StoPowerwall®ci Termination at Parapet

Detail No.: 62s.15
Date: July 2022



Notes:

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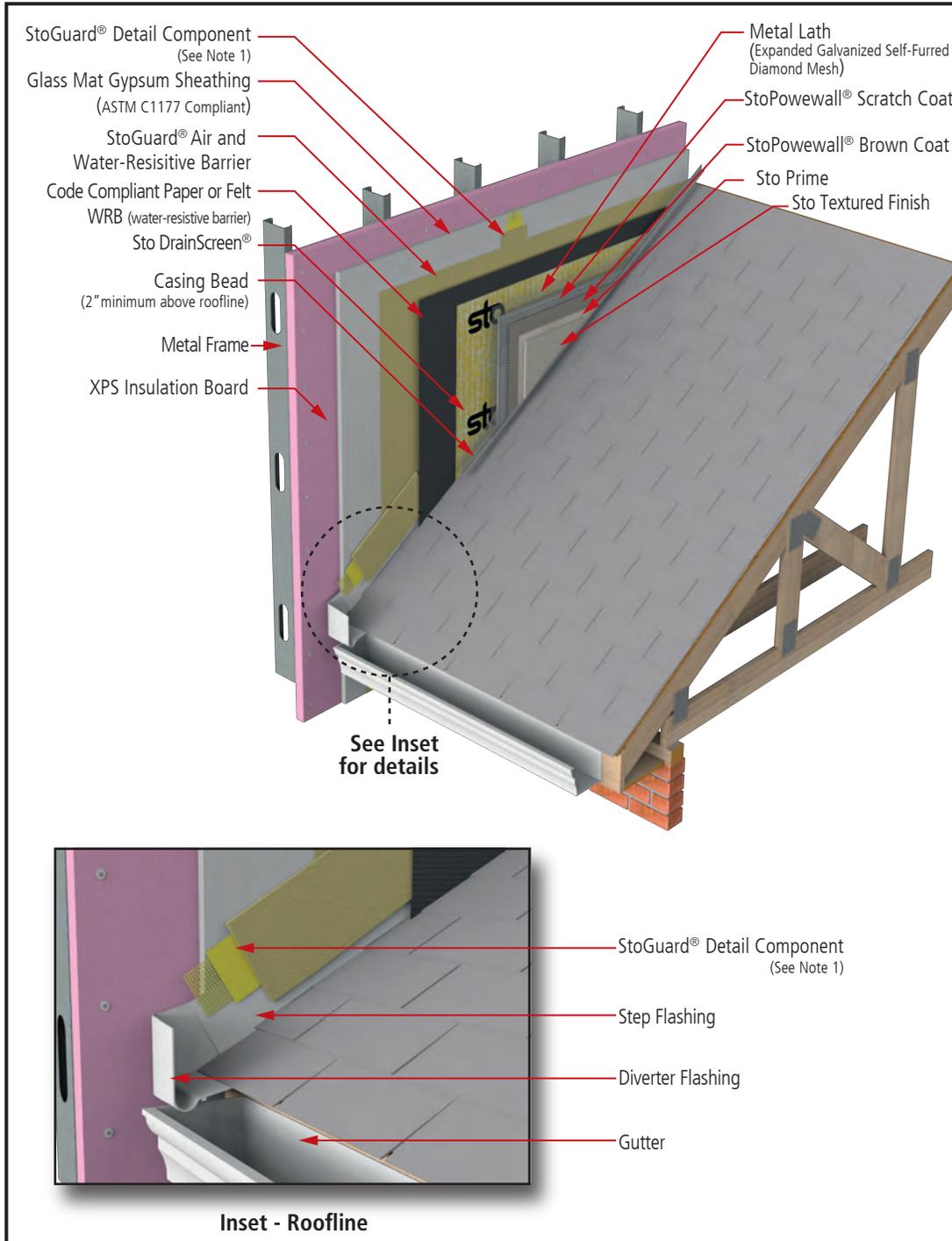
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StoPowerwall®ci Roof / Wall Abutment

Detail No.: 62s.16
Date: July 2022



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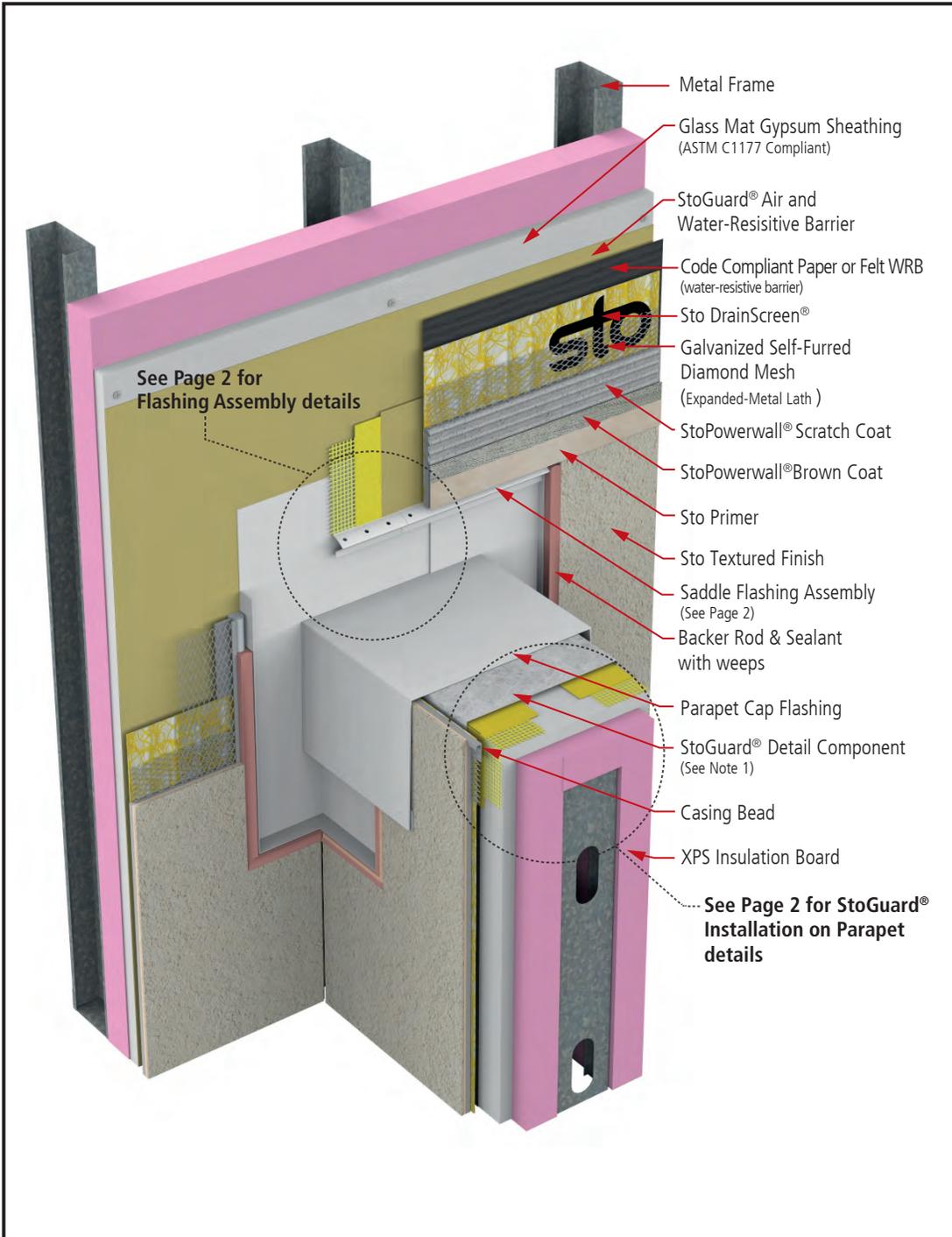
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StoPowerwall®ci Saddle Flashing

Detail No.: 62s.17
Date: July 2022
Page 1 of 2



Notes:

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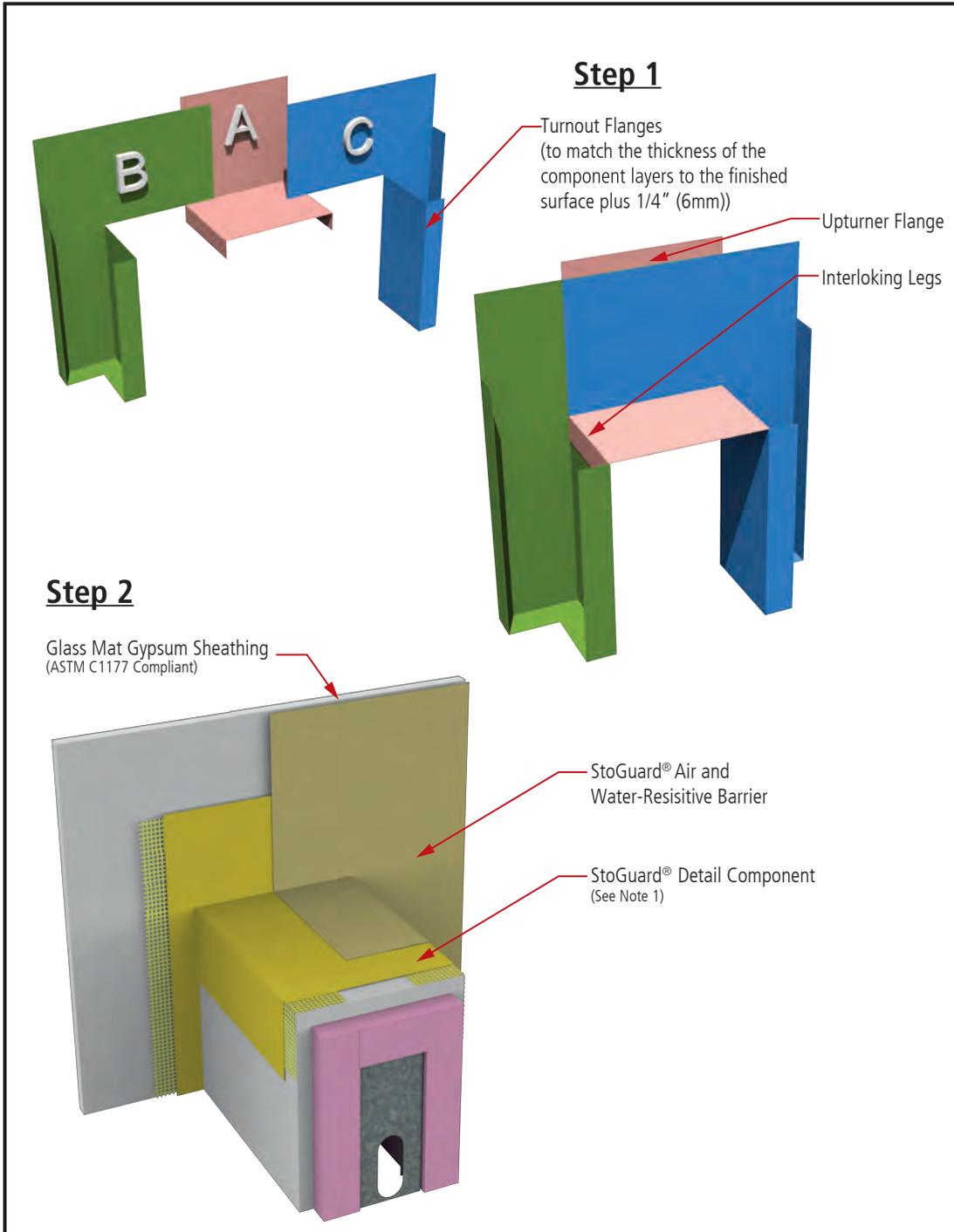
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StoPowerwall®ci Saddle Flashing

Detail No.: 62s.17
Date: July 2022
Page 2 of 2



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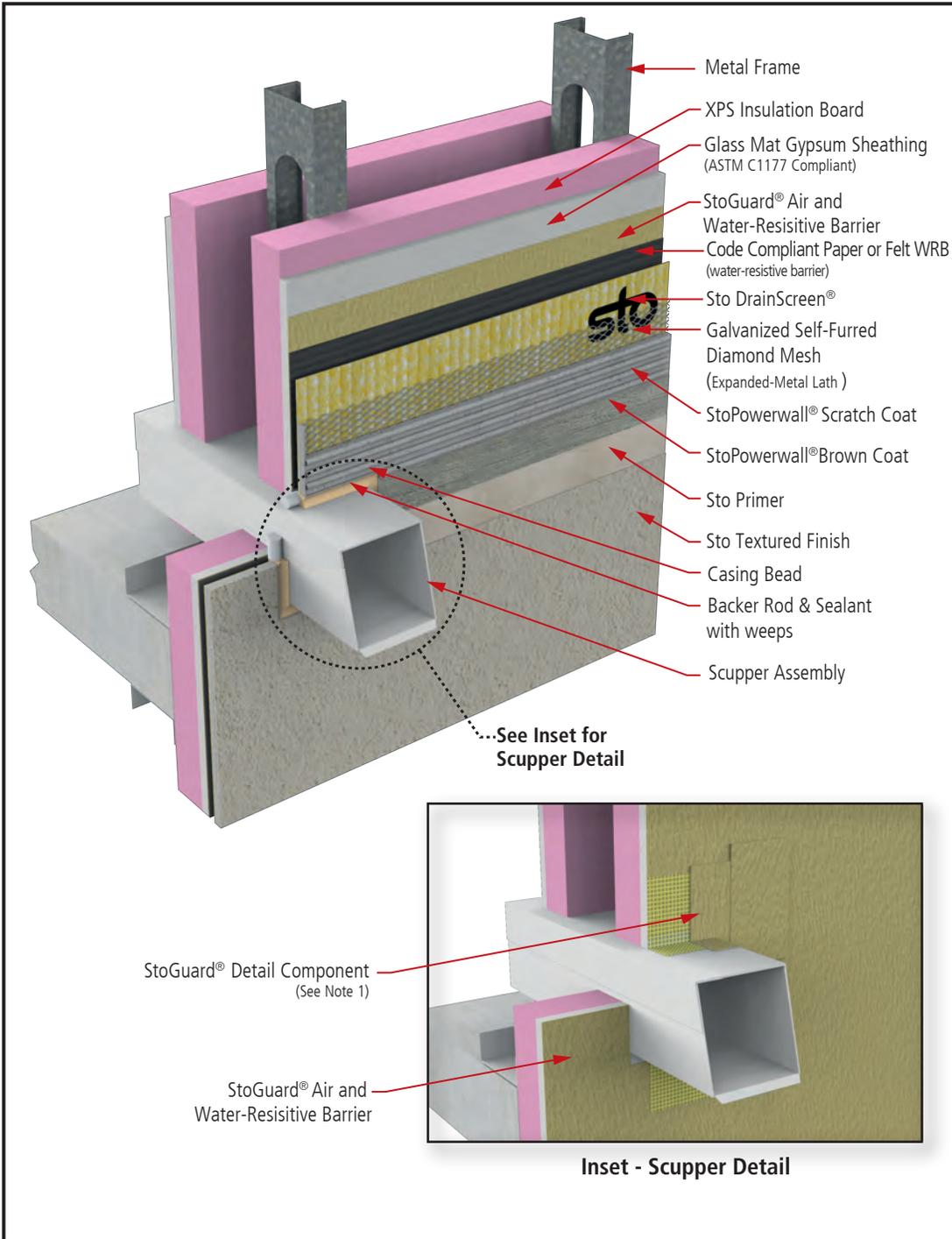
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Sto Powerwall®ci Scupper Penetration Through Wall

Detail No.: 62s.18
Date: July 2022



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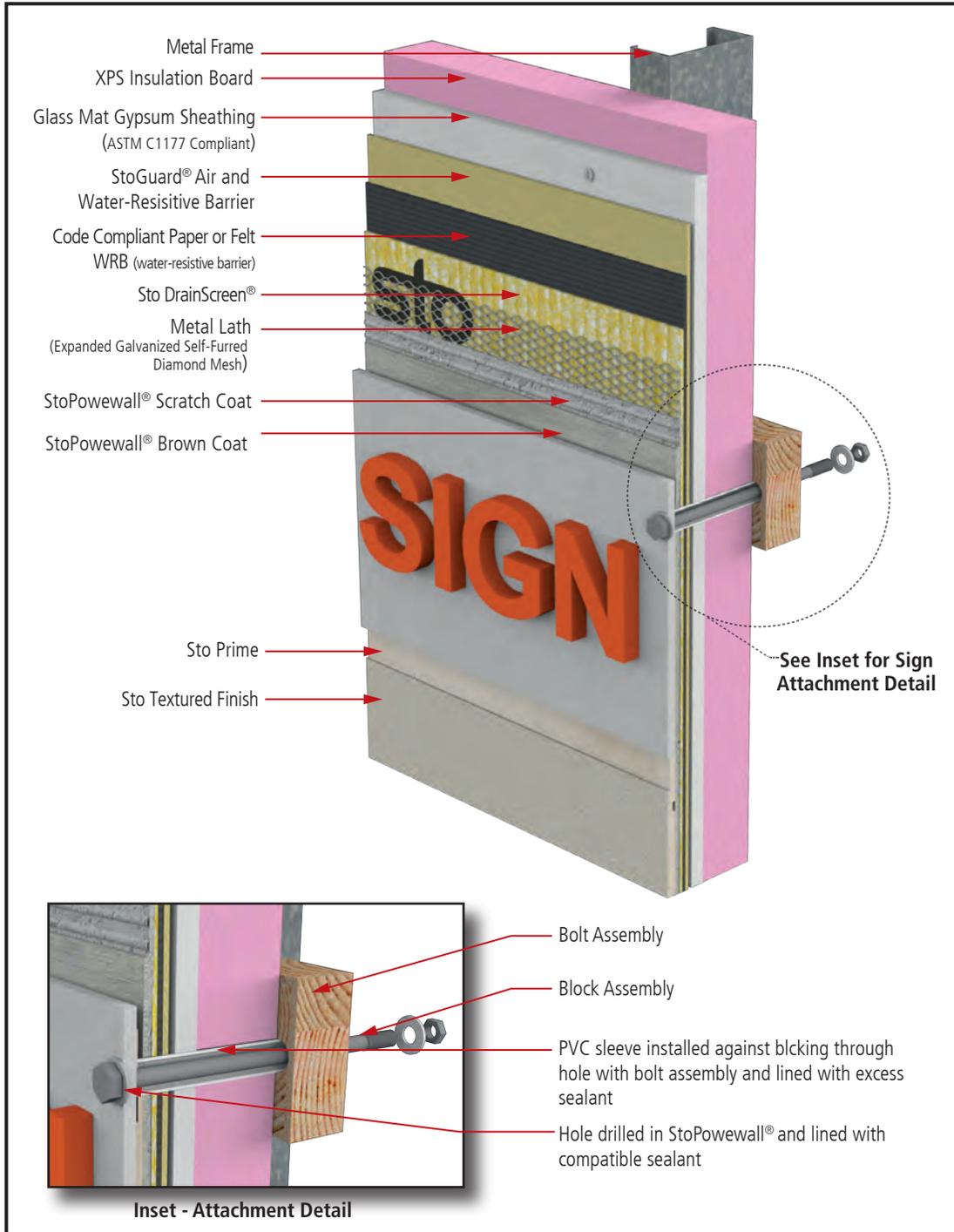
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Sto Powerwall® ci Sign Attachment

Detail No.: 62s.19
Date: July 2022



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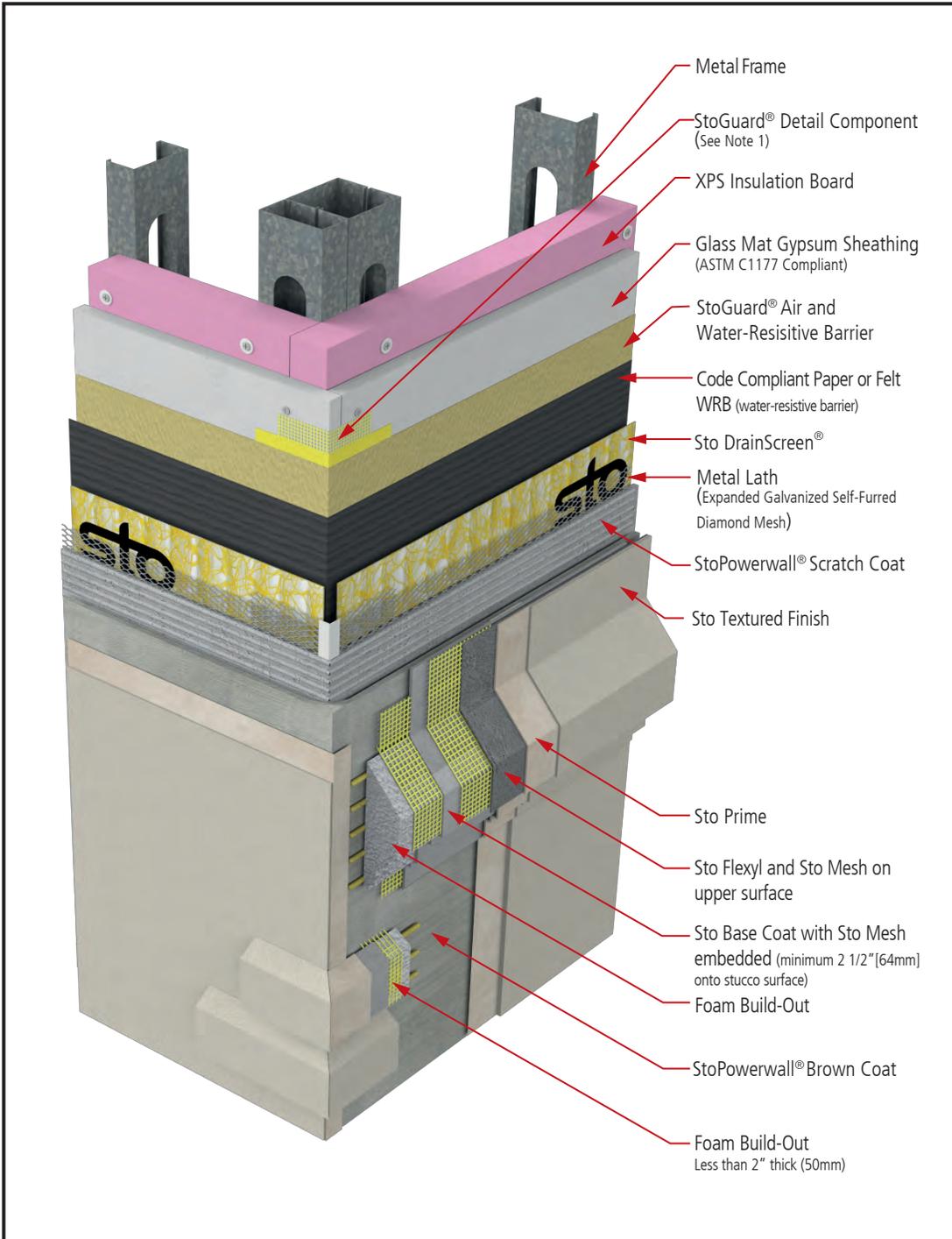
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Sto Powerwall®ci Foam Buildouts

Detail No.: 62s.20
Date: July 2022



- 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. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.
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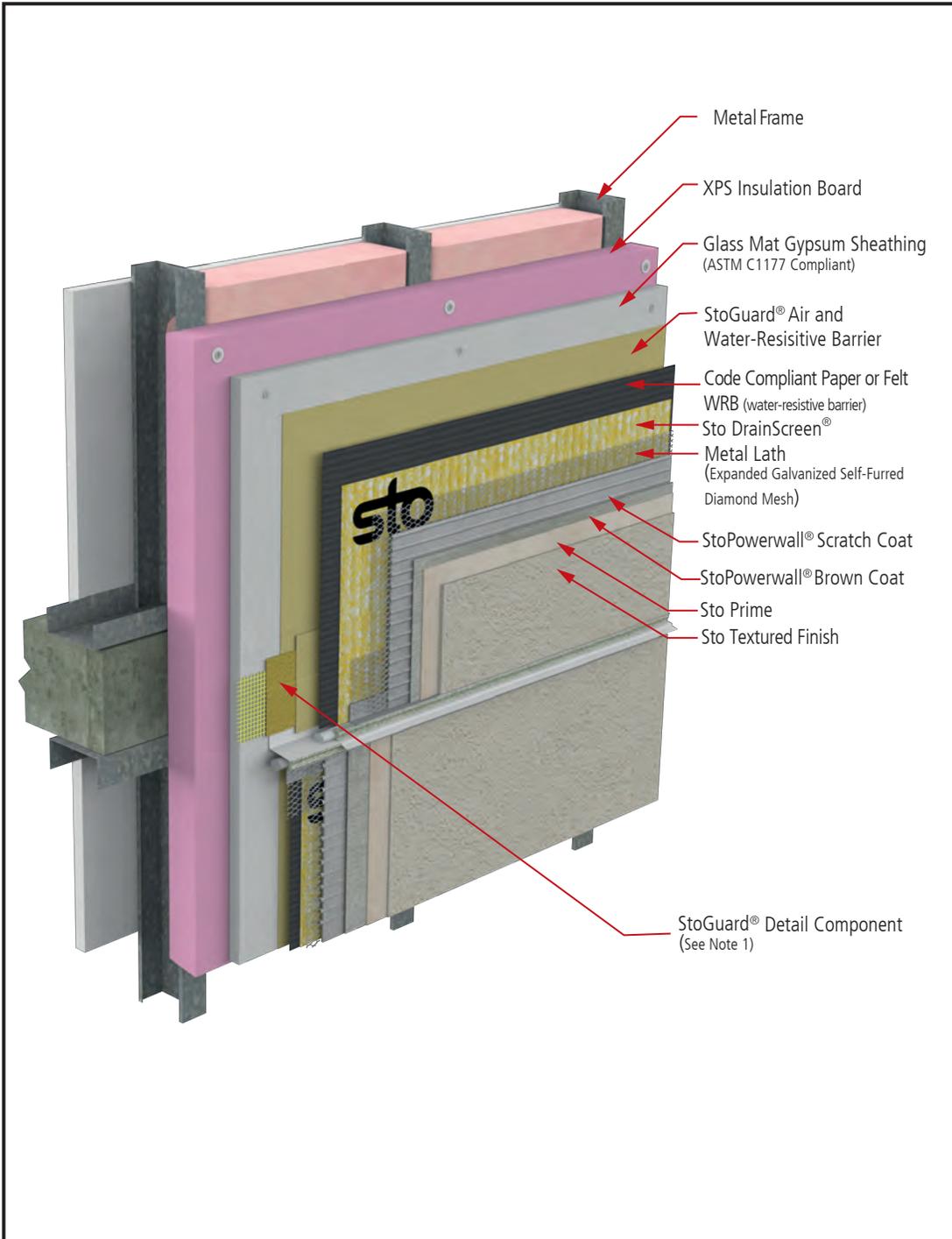
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Sto Powerwall® ci

Fire Protection - Noncombustible Type Construction (NFPA 285) and 1 Hour Non-Load Bearing Fire-Resistive Rated Wall Assembly (ASTM E 119)

Detail No.: 62s.FP
Date: July 2022



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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