Building with conscience.

StoTherm®ci with Fireblocking

Compliance with 2022 NYC Building Code (NYC BC)

Design Guide and Detail Booklet

Series 52s.xx FB | July 2024

Facades

Exterior Wall Insulation and Finish Systems

The 2022 NYC Building Code (NYC BC) includes new fireblocking requirements applicable to exterior wall coverings, specifically those that contain combustible materials. This publication describes the use of fireblocking in StoTherm® ci wall assemblies for compliance with the NYC BC.

Design Guide

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Sto Corp.
3800 Camp Creek Pkwy. SW
Bldg. 1400 • Suite 120
Atlanta, GA 30331
Tel: (800) 221-2397
Fax: (404) 346-3119
http://www.stocorp.com
helpdesk.stocorp.com

Summary

Exterior Insulation and Finish Systems (EIFS) are addressed in Section 1408 of the New York City Building Code (NYC BC). In 2022, the New York City Department of Building (DOB) amended the NYC BC to include fireblocking requirements in EIFS by adding Section 1408.7. This section references newly added Section 718.2.6.1 for the requirements and locations of fireblocking. The fireblocking requirement applies to new and retrofit construction of exterior wall assemblies that contain combustible components, such as EIFS assemblies with foam plastic insulation (Figure 1.0) Also included in this code update are exterior wall assemblies with wall coverings or claddings composed of other combustible materials, such as Metal Composite Materials (MCM), High-Pressure Laminates (HPL), Fiber-reinforced Plastic (FRP), and plastics complying with Chapter 26.

New York City authorities enacted these local changes because of the high density of high-rise structures in the city, and their position that current NFPA 285 testing does not address all of the fire performance concerns where foam plastic and other combustible materials are used in exterior wall assemblies. The new requirements are comprehensive and stringent, and will require additional building envelope design considerations using fireblocking within concealed spaces of exterior wall coverings, and as barriers between floors and occupancy groups (both horizontally and vertically). Non-combustible fireblocking must be installed within exterior wall assemblies that contain combustible components, even when such wall assembly has previously passed NFPA 285 testing[1]. These requirements apply to buildings of all types, with some exceptions discussed herein.

Sto Lamella (Figure 1.1) is a compliant, non-combustible mineral wool fireblocking product furnished by Sto Corp. When incorporated in StoTherm®ci systems, it provides a 2022 NYC BC code compliant wall covering over gypsum sheathing on steel frame wall construction, based on testing in accordance with NFPA 285.

This booklet is an overview of important changes, including specific details that demonstrate the construction of a compliant fireblocking method that is applicable to StoTherm®ci assemblies (Figure 1.2) that contain foam plastic insulation. Complete discussion of all aspects of fireblocking and fire testing requirements in the NYC Building Code is outside the scope of this document. Please refer to the NYC Building Code for additional information.

The 2022 NYC Building Code is viewable online at **www.upcodes.com.** Also see NYC Buildings Bulletin Technical 2022-013, dated September 6, 2022, available at **www.nyc.gov/buildings.**

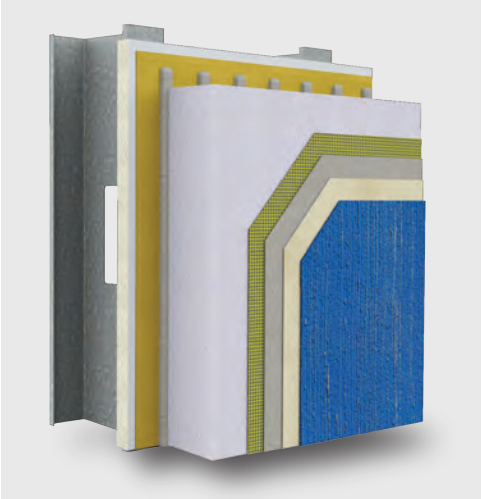


Figure 1.0
Typical StoTherm® ci system shown with Sto EPS Insulation Board.

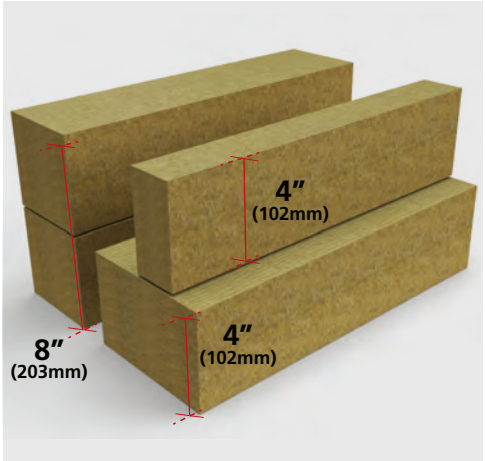


Figure 1.1
Typical Sto Lamella used for fireblocking. Sto Lamella comes in multiple thicknesses to satisfy ci R-value requirements.

NFPA 285, Construction Documents and Deviations

In addition to new fireblocking requirements, the updated NYC BC code now requires that the submitted construction applications include documentation of the NFPA 285 tested assembly from the manufacturer of the proposed exterior wall assembly[2]. "Any deviation which occurs during the course of installation will be evaluated and approved by the applicant of record or registered design professional. No deviation shall be approved that would result in an assembly that would otherwise fail to pass the acceptance criteria of NFPA 285 testing"[3]. To comply with the additional requirements set forth by the updated 2022 NYC BC, a special inspection process will verify compliance with reference to the approved construction documents during the construction process[4]. Refer to page 7 for a list of Sto NFPA 285 tested assembly components.

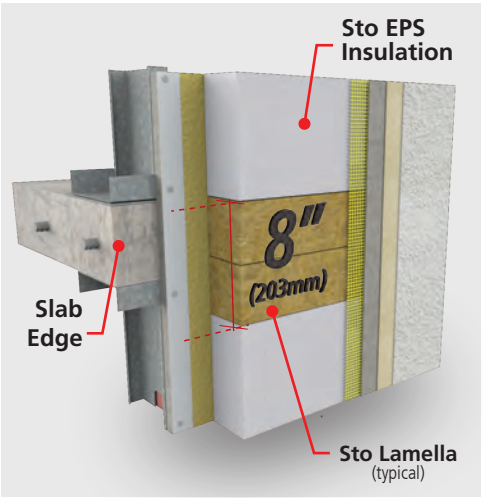


Figure 1.2
Typical fireblocking assembly, using Sto Lamellla, shown in StoTherm®ci with Sto EPS Insulation Board.

Fireblocking for EIFS with Foam Plastic Insulation in Multi-Story Noncombustible Construction

The locations for required fireblocking of wall coverings that contain foam plastics, in compliance with Chapter 26, are outlined in **NYC BC Section 718.2.6.1.1**

1

Fireblocking is required around wall openings[5], such as windows, doors, vents, pipes and other similar openings. Typical window opening with fireblocking shown in Figure 1.3

2

Fireblocking is required in alignment with all slab edges for a height of not less than 8 inches(203.2mm) and at maximum intervals of 20 feet (6.1m) vertically[5]. Typical slab edge with fireblocking shown in Figure 1.3

3

Fireblocking is required between different occupancy groups, horizontally or vertically, as applicable[5]. Typical group occupancy separation shown in Figure 1.3

Figure 1.3
Commercial Building, Type I or II Noncombustible Construction.

Fireblocking for EIFS with Foam Plastic Insulation in One & Two Family Dwellings

Detached Dwellings

For detached one and two-family dwellings, fireblocking of foam plastic insulation shall not be required at each floor level, of Type V construction, that does not exceed three stories, or 40 feet (12.2m) in height above grade plane[6] (Figure 1.4).

See **NYC Building Code, Section 718.2.6.1.2 (Exception 3)** for more information.

Figure 1.4
One-Family Detached Dwelling, Type V Construction.

Attached Dwellings

Fireblocking is required around wall openings and at floor lines. (Figure 1.5)

See **NYC Building Code, Section 718.2.6.1** for more information.

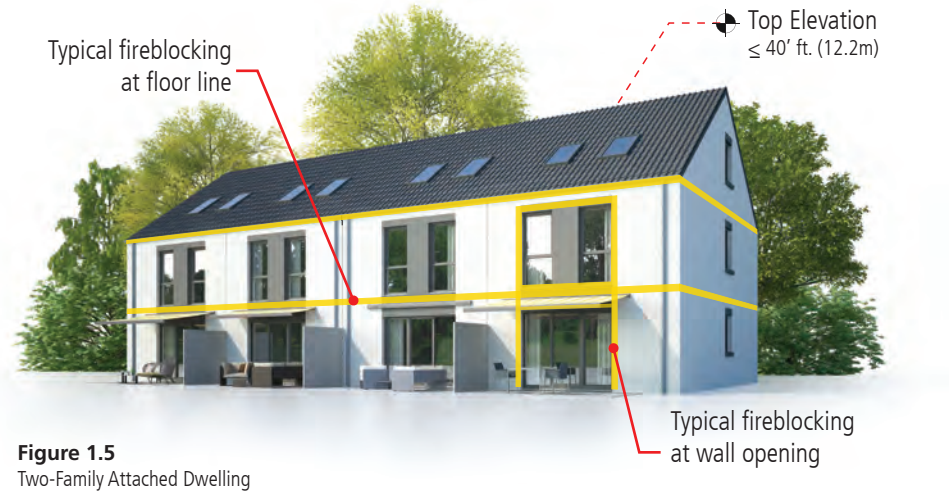


Figure 1.5
Two-Family Attached Dwelling

Buildings with Concrete or Masonry Backup Wall

Fireblocking material shall not be required at each floor level for Exterior Insulated Finish Systems (EIFS) containing foam plastic insulation installed at less than 75 feet (22.9 m) above grade plane of the building, and installed on masonry or concrete backup walls[6].

Fireblocking is required at all openings.

See **NYC Building Code, Section 718.2.6.1.2 (Exception 2.2.2)** for more information.

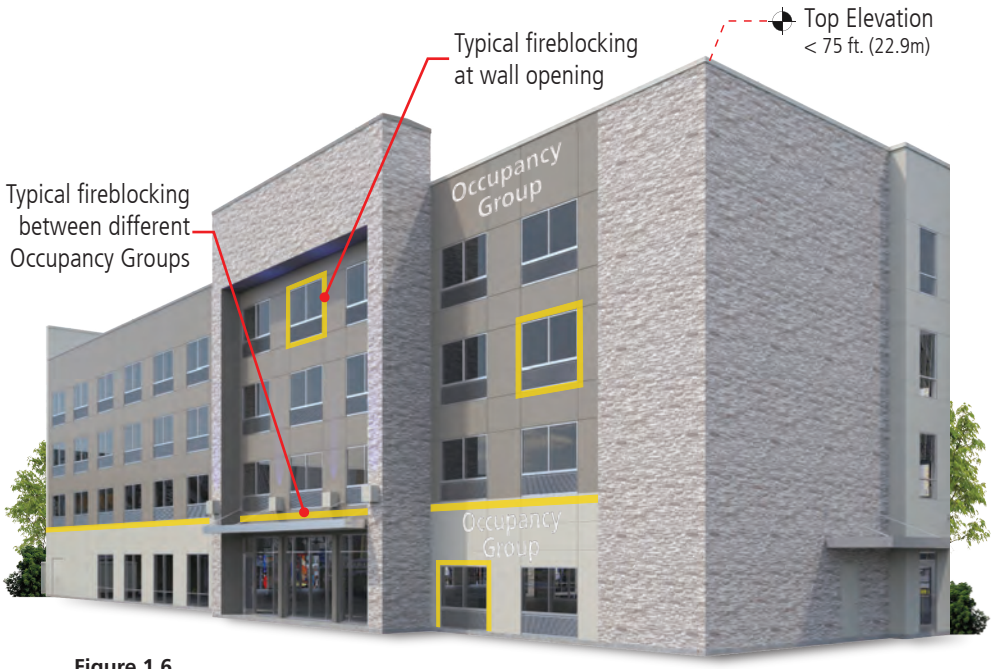


Figure 1.6
Building with Concrete/Masonry Backup Wall, under 75 feet (22.9m) above grade.

General Installation Instructions for Sto Lamellas Installed as Fireblocking in StoTherm ci - (Figure 1.7)

- Back-wrap, Pre-wrap, or Edge-wrap all terminations of Sto Lamella fireblocking with strips of Sto Mesh or Sto Detail Mesh.
- Stagger fireblocking board joints minimum 6 inches (152mm) from vertical sheathing joints and 1 inch (25mm) from horizontal sheathing joints.
- Fully bed fireblocking in the specified Sto adhesive.
- Install fireblocking in straight lines and abut boards tightly together. Fill any gaps with slivers of fireblocking and cut flush with the surface.
- Use a running bond pattern when installing fireblocking in two or more courses.
- Interlock board joints at inside and outside corners.
- Use L-Shaped Sto EPS Insulation Board around the fireblocking at the openings.
- Deviations in Plane: rasp fireblocking if it protrudes beyond the abutting foam insulation. If necessary, pre-fill or level any recess in fireblocking from the abutting foam insulation (up to 1/8 inch [3mm]) with the specified Sto base coat.
- Rasp the entire surface of the foam insulation boards and lightly rasp the lamella boards.
- Remove dust from the entire surface of the fireblocking and foam insulation boards.
- Reinforce corners of openings with minimum 9 inches (229mm) wide by 12 inches (305mm) long diagonal strips of Sto Mesh or Sto Detail Mesh.
- Install Sto Mesh embedded in Sto base coat horizontally or vertically across the floor line fireblocking with minimum 8 inch (203mm) extension beyond the fireblocking/foam insulation board seams (do not align mesh seams with fireblocking seams).

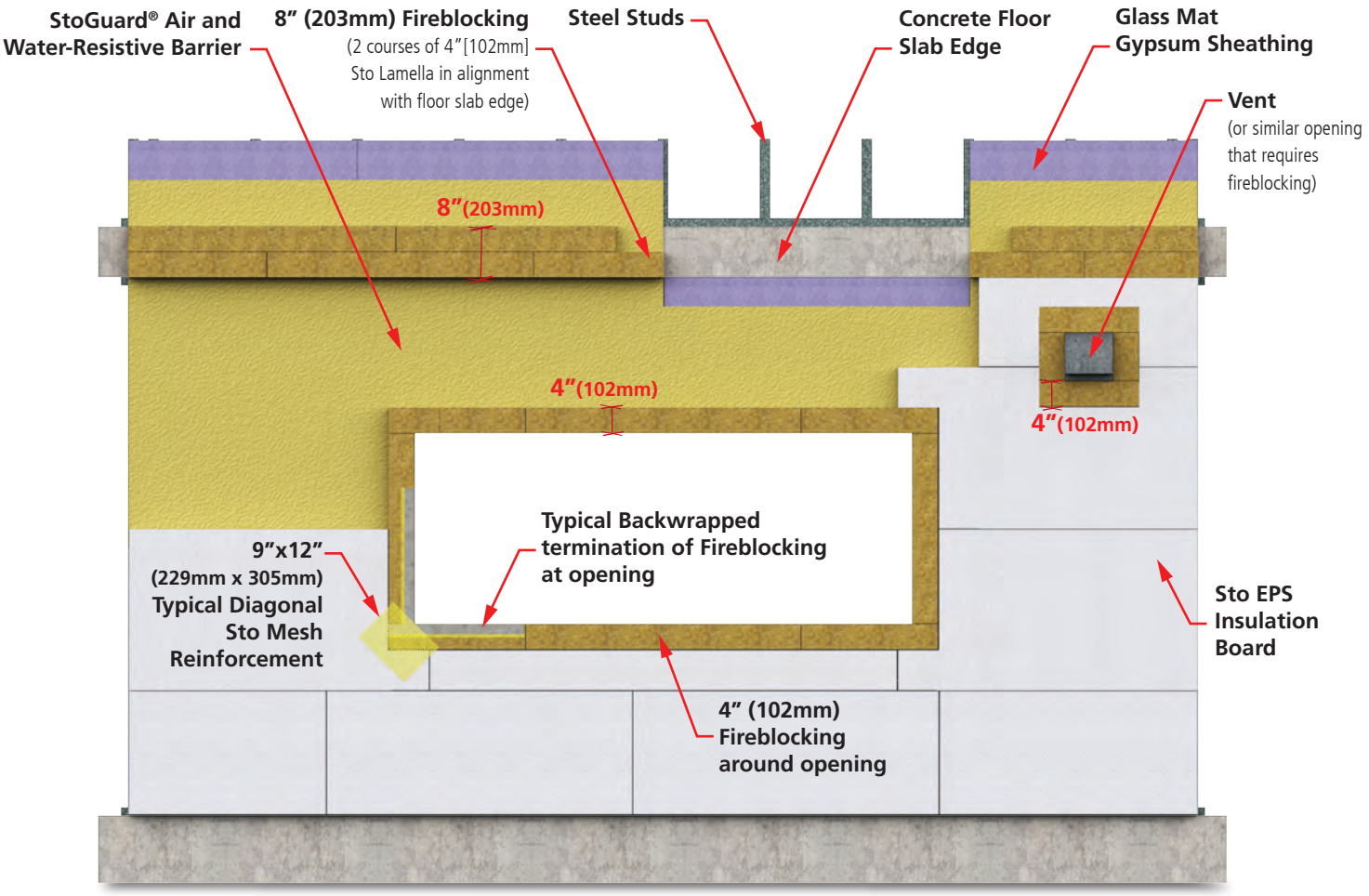


Figure 1.7
Installation of Fireblocking in StoTherm®ci with slab edge and wall openings.

(continued on next page)

General Installation Instructions for Sto Lamellas Installed as Fireblocking (cont'd)

Sto Lamella and Foam Insulation Board

A general note for consideration when planning the project; when installed as fireblocking, slight variations in thickness between Sto Lamella and abutting foam insulation board can occur, as the Sto Lamella and foam insulation boards are manufactured in different ways by different manufacturers with different equipment and board tolerances. In some cases, the installed Sto Lamella will be slightly recessed from the plane of the abutting foam insulation boards. If needed, account for the recessed differences by applying additional Sto cementitious base coat fill on the Sto Lamella Fireblocking to achieve a smooth, even plane free of surface and planar irregularities. Refer to Figure 1.8

Application of Sto Base Coat to adhere Sto Lamellas

Use a stainless steel trowel to work the base coat into contact with the entire back surface of the lamellas. After working the base coat into the lamella surface, apply additional base coat to a minimum thickness of 1/8 inch (3mm) with the trowel, and immediately place boards before the adhesive "skins." As an alternative, apply the base coat with a ¼ x ¼ x ¼ inch (6x6x6mm) square-notched trowel, then spread the base coat with the flat side of the trowel. Flatten the notched trowel application to achieve a minimum 1/8 inch (3mm) bed of adhesive and immediately place Sto Lamellas before the adhesive"skins."Apply firm uniform pressure by hand across the board surface to ensure no voids exist behind the fireblocking.

Application of Sto Base Coat with mesh reinforcement to Sto Lamellas

Apply the base coat in strips slightly wider than the width of the mesh to the lamella wall surface to a thickness of approximately 1/8-inch (3mm). Apply the base coat onto the surface of the lamellas and work the material back and forth with the trowel to achieve good contact with the uncoated surface. Immediately embed the mesh into the wet base coat and trowel over the mesh from the center to the edges to avoid wrinkles. Overlap mesh seams minimum 2-1/2 inches (64mm), embed the mesh overlap in base coat, and feather to prevent read-through (telegraphing) of the mesh overlap. Continue to trowel the base coat to achieve a smooth, even surface free of ridges, or excess build-up of base coat, and so no mesh color shows through.

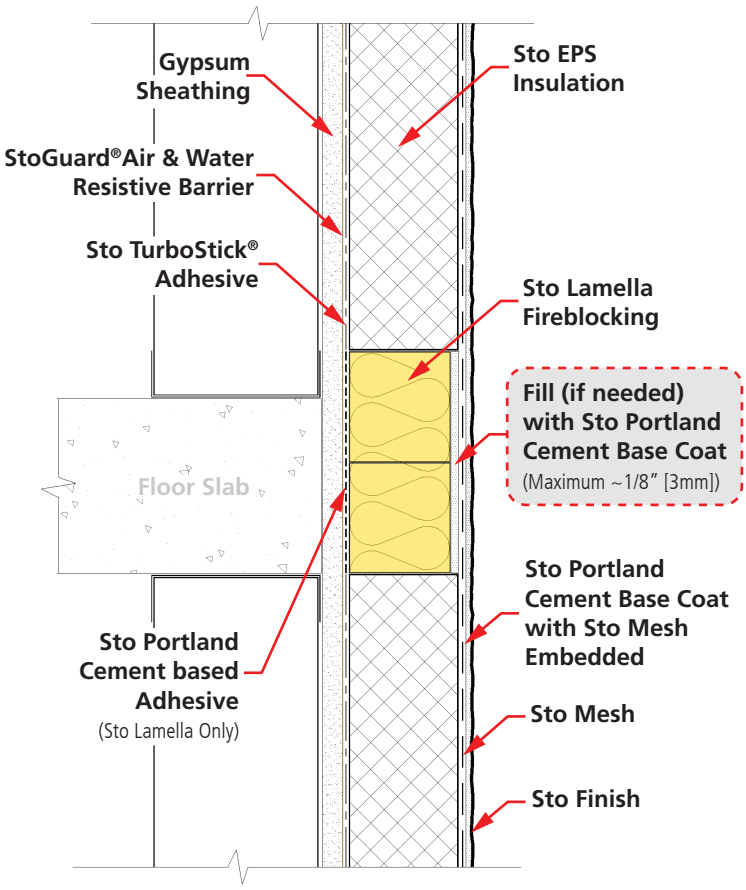


Figure 1.8
Cross-section of typical Sto Lamella installation at floorline showing a slight variation in thickness between Sto Lamella and abutting Sto EPS Insulation Board.

StoTherm ci Assembly Components Tested per NFPA 285:

- Air & Water-Resistive Barrier: **Sto Gold Coat®** with StoGuard Fabric at joints, seams, and rough opening protection
- Adhesive for Sto EPS Insulation Board: **Sto TurboStick®**
- Adhesive for Sto Lamella Fireblocking:**Sto BTS Plus**
- Insulation Board: **Sto EPS Insulation Board**
- Reinforcing Mesh: **Sto Mesh**
- Base Coat: **Sto BTS®Plus**
- Finish: **StoCast Brick**

Footnotes

Refer to Sto product bulletins, guide specifications and guide details, technical hotlines, ICC Evaluation Reports, and other sources of information available at www.stocorp.com for more details on specific Sto products, features, benefits, and limitations that apply to StoTherm ci wall systems and components.

1. NYC Buildings 2022-13 Bulletin Technical dated September 6, 2022, p. 1.
2. NYC Buildings 2022-13 Bulletin Technical dated September 6, 2022, p. 3.
3. NYC Buildings 2022-13 Bulletin Technical dated September 6, 2022, p. 3.
4. NYC BC 2022, Section 1705.16, p. 17-20 – 17-21.
5. NYC BC 2022, Section 718.2.6.1.1, p. 7-35.
6. NYC BC 2022, Section 718.2.6.1.2 p. 7-35.
7. NYC Buildings 2022-13 Bulletin Technical dated September 6, 2022, p. 3.

Table 1.0 - StoGuard® Air & Water-Resistive Barrier Product Applications

Sto Corp. offers multiple air and water-resistive barriers and detail components for use in its StoTherm ci System as noted in Table 1.0. Deviations may be evaluated and approved by the applicant or a registered design professional based on their own professional judgment or education, or the recommendations of a subject matter expert[7]. The NFPA 285 tested assembly components are: Air & Water-Resistive Barrier: Sto Gold Coat® with StoGuard Fabric at joints, seams, and rough opening protection.

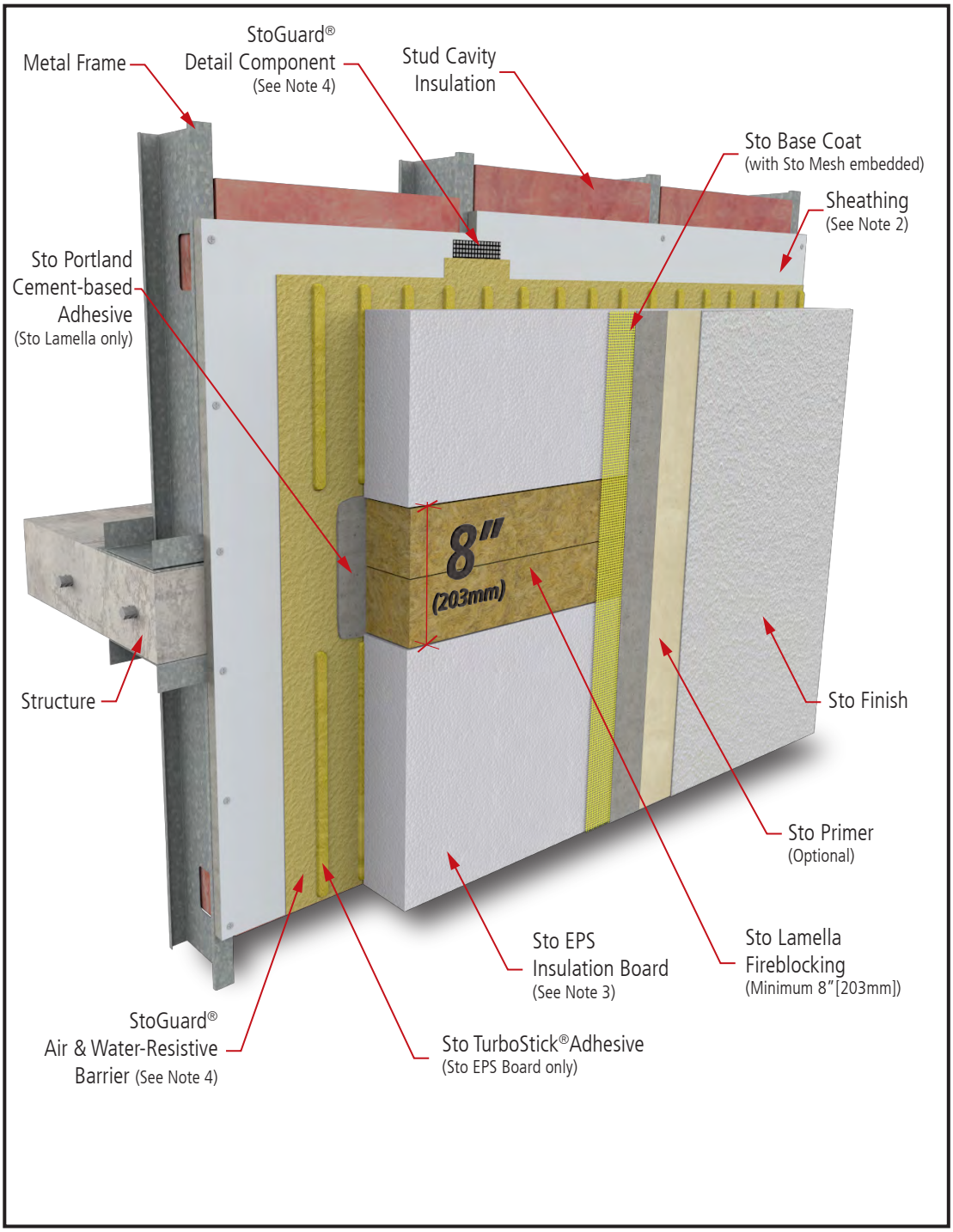
StoGuard® Detail Component	Sheathing Joints and Corners	Flashing and Rough Opening Protection	Penetrations	Static Joints and Seams	Dynamic Joints
Sto RapidGuard®	✓	✓	✓	✓	
StoGuard® Conformable Membrane	✓	✓	✓	✓	✓
StoGuard® Fluid Applied Air & Water-Resistive Barrier* with StoGuard® Fabric**	✓	✓	✓		
StoGuard® Transition Membrane embedded with any StoGuard® Fluid Applied Air & Water-Resistive Barrier				✓	✓
Sto Gold Fill with StoGuard® Mesh (or Sto Detail Mesh embedded)	✓	✓	✓		
Sto Gold Coat® TA with StoGuard® Mesh	✓	✓	✓		

* StoGuard® Fluid Applied Air & Water-Resistive Barriers: Sto AirSeal®, Sto Gold Coat®, Sto Gold Coat®TA, StoGuard®VaporSeal®
** Tested in accordance with NFPA 285 as a component of StoTherm®ci with Fireblocking.

Guide Details

StoTherm®ci with Fireblocking
Floorline without Drainage

Detail No.: 52s.01 FB
Date: July 2024



Notes:

1. Refer to New York City Building Code (NYC BC), Section 718.2.6, for complete specific information and design guidance on fireblocking requirements.

2. Glass mat gypsum sheathing in compliance with ASTM C1177.

3. Sto EPS Insulation Board (or Sto GPS Board - see Sto Design Guide and Detail Booklet 58s.xx FB).

4. Refer to StoGuard® Detail Component Applications (Table 1.0) for joint treatment, rough opening protection, backing for masonry anchors, or joint transitions to dissimilar materials and dynamic joints and seams in construction.

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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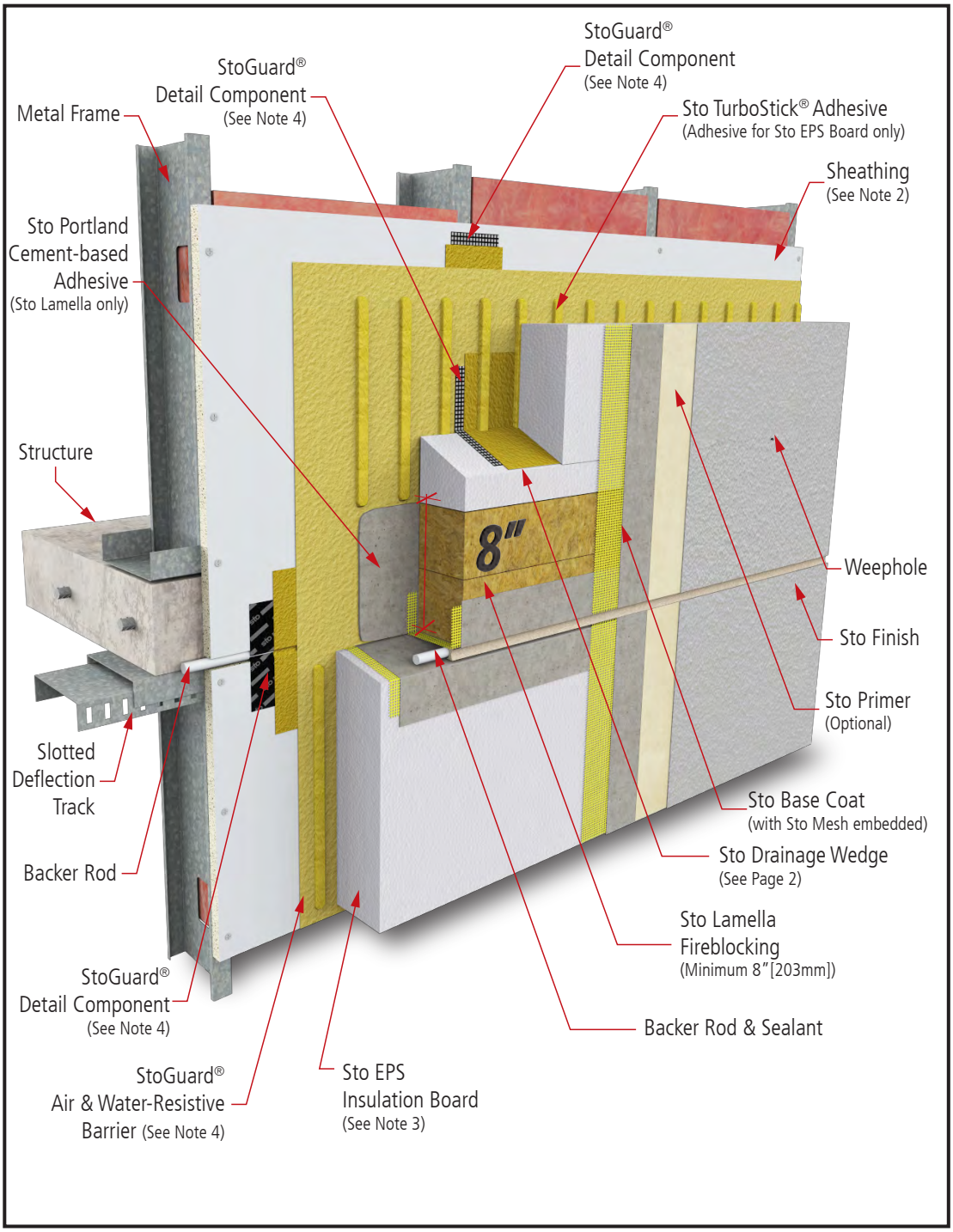
StoTherm®ci with Fireblocking
Floorline with Deflection and Drainage

Detail No.: 52s.02 FB
Date: July 2024



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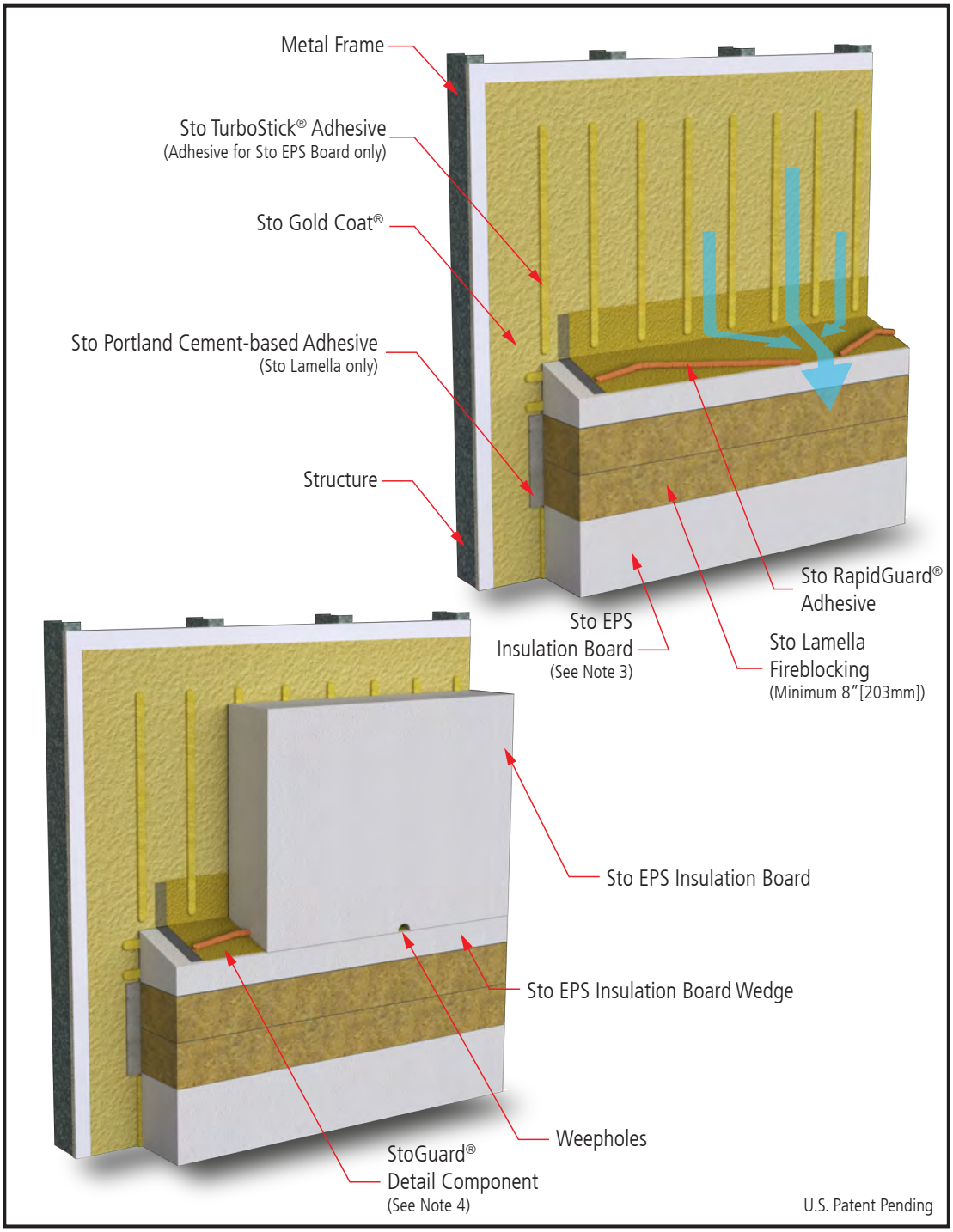
StoTherm®ci with Fireblocking
Floorline with Drainage

Detail No.: 52s.02 FB
Date: July 2024



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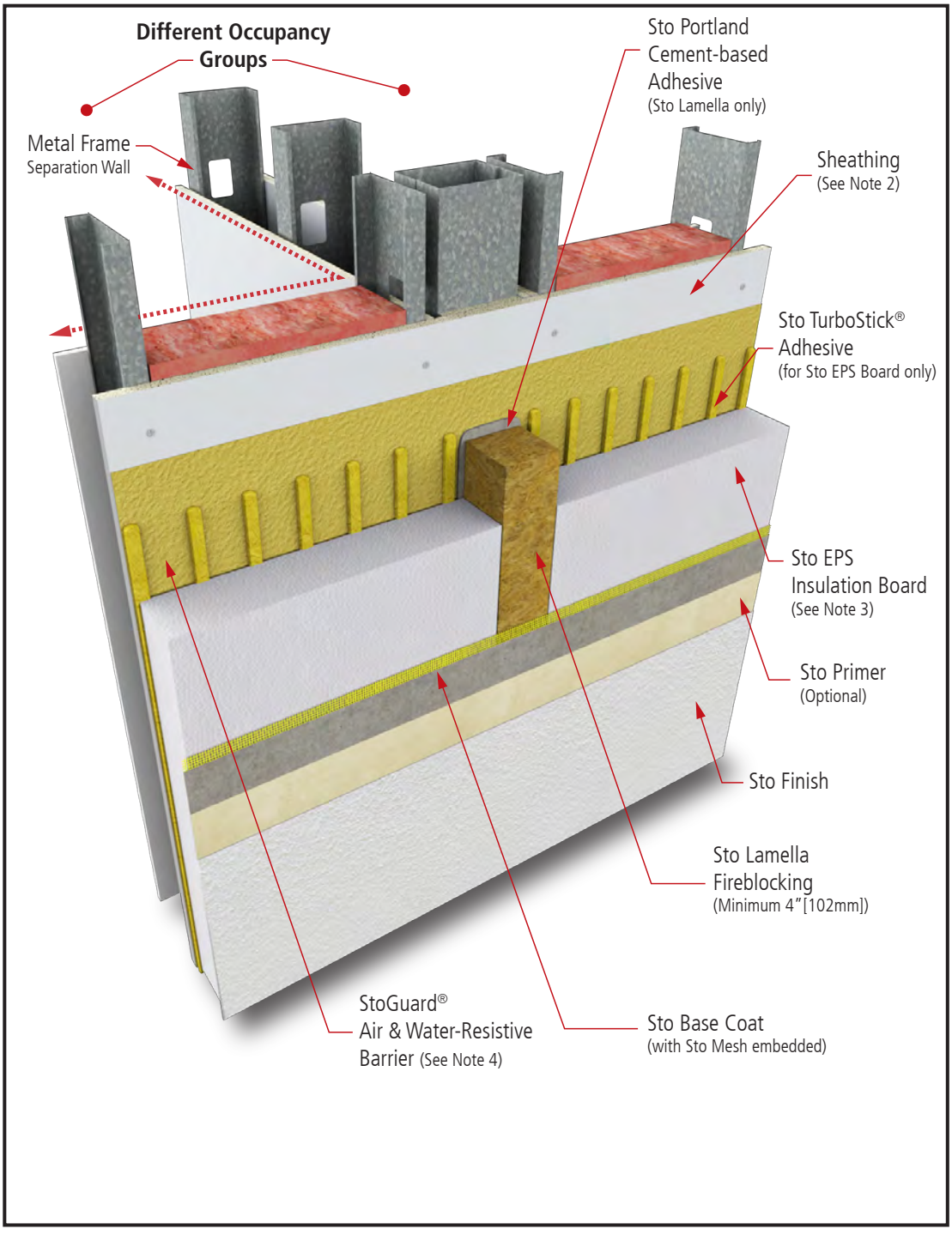
StoTherm®ci with Fireblocking
Separation of Different Occupancy Groups

Detail No.: 52s.03 FB
Date: July 2024



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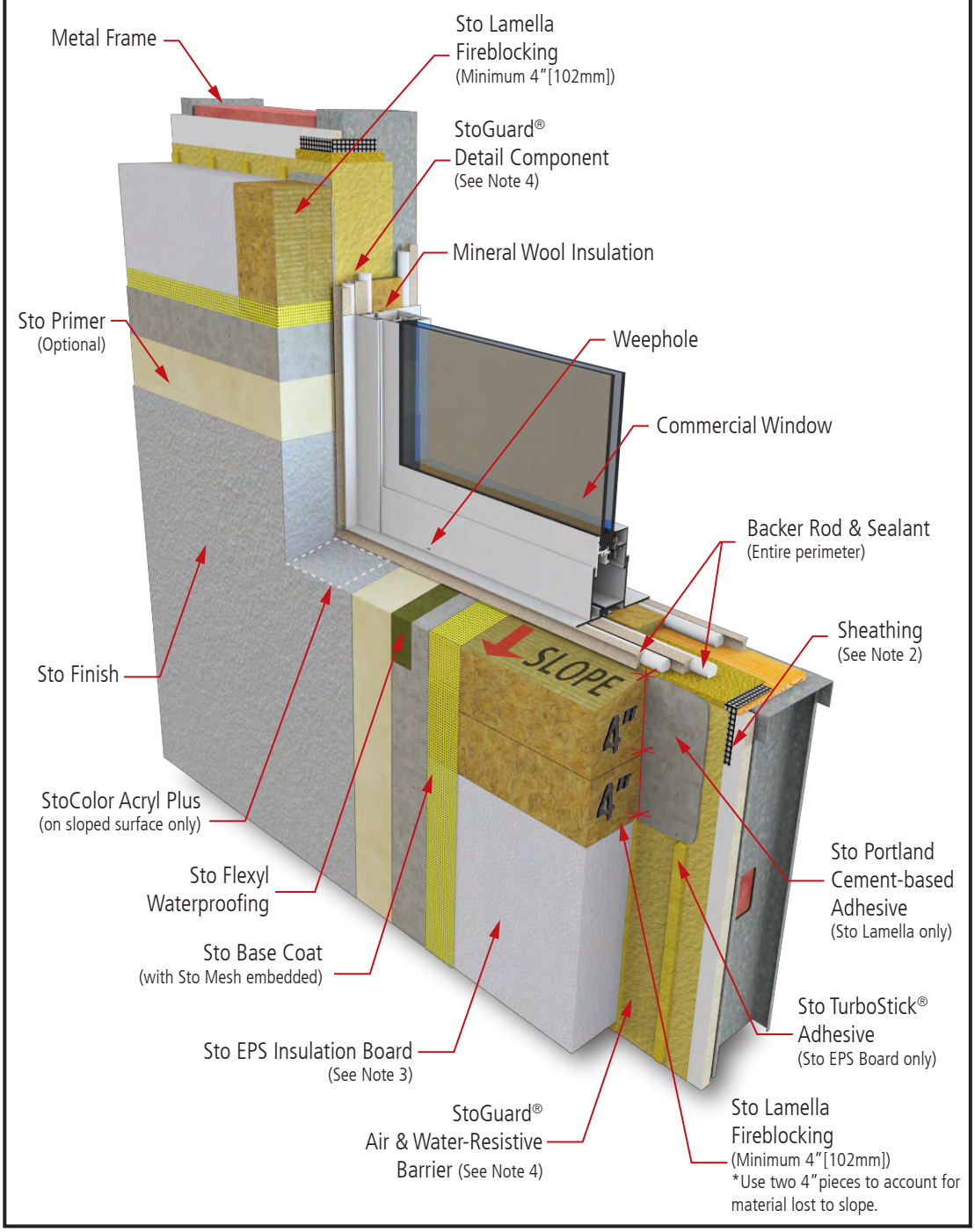
StoTherm®ci with Fireblocking
Commercial Window - Sill and Jamb

Detail No.: 52s.04 FB
Date: July 2024



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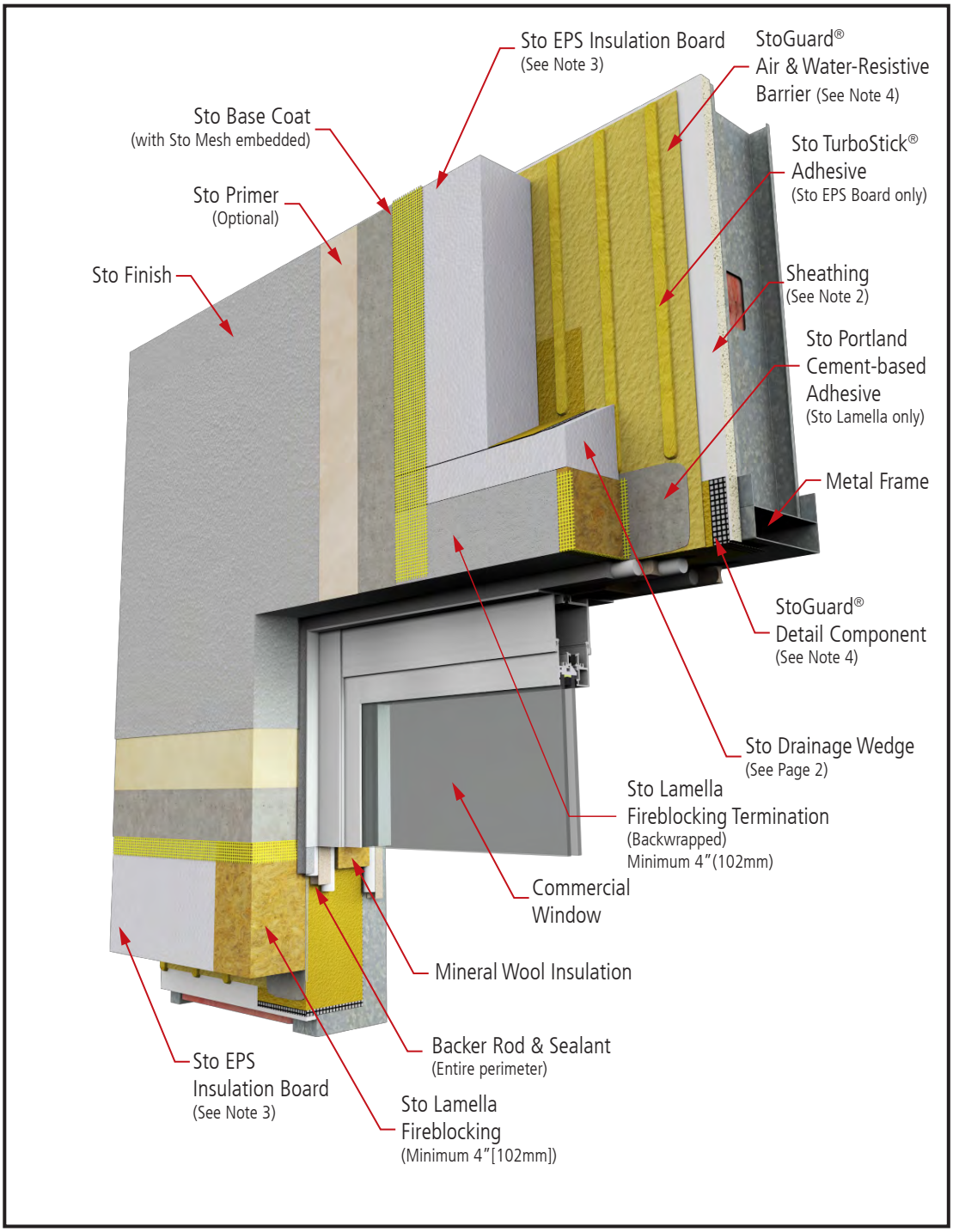
StoTherm®ci with Fireblocking
Commercial Window - Head

Detail No.: 52s.05 FB
Date: July 2024



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StoTherm®ci with Fireblocking
Commercial Window - Head Drainge Wedge

Detail No.: 52s.05 FB
Date: July 2024

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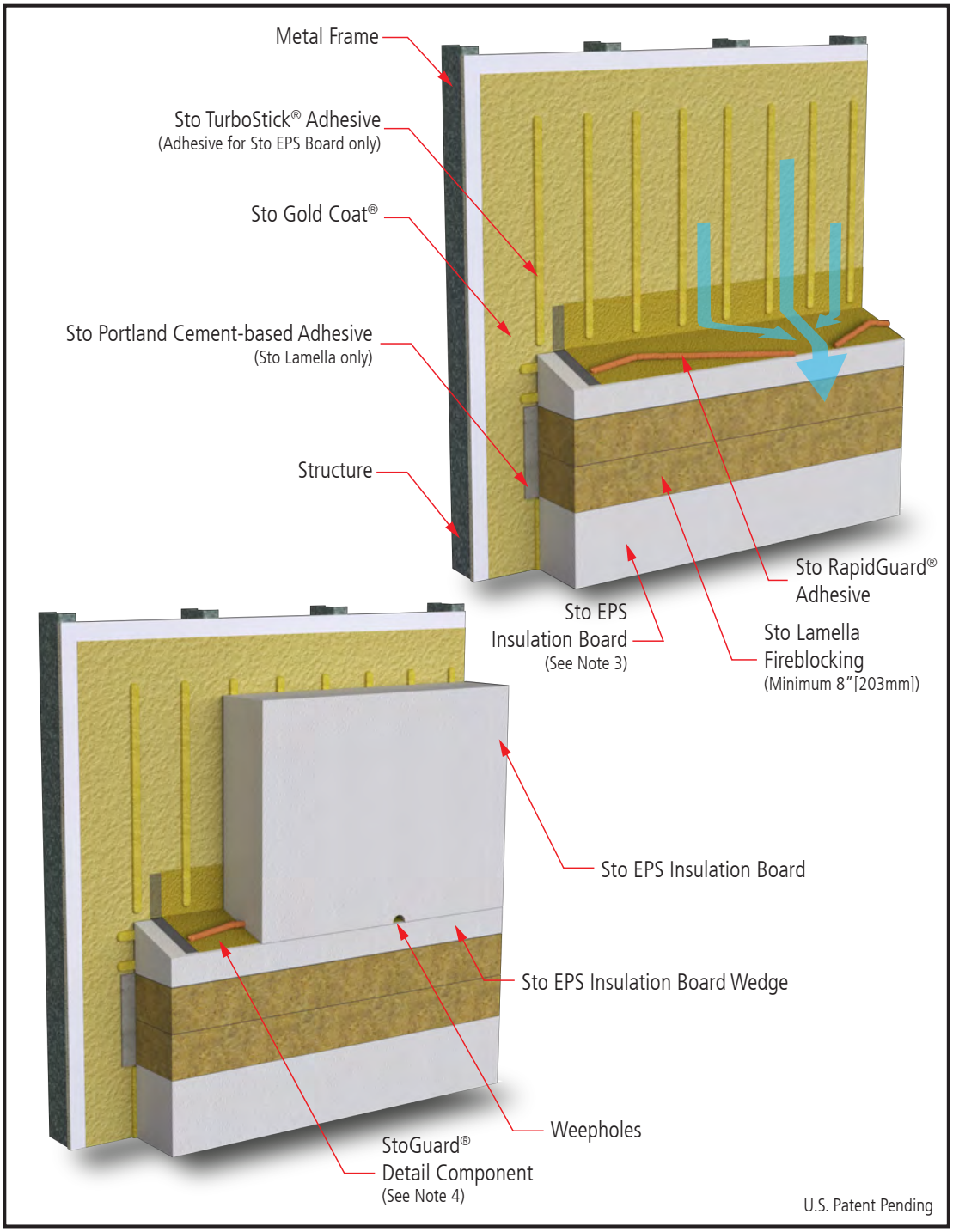

Notes:

1. Refer to New York City Building Code (NYC BC), Section 718.2.6, for complete specific information and design guidance on fireblocking requirements.

2. Glass mat gypsum sheathing in compliance with ASTM C1177.

3. Sto EPS Insulation Board (or Sto GPS Board - see Sto Design Guide and Detail Booklet 58s.xx FB).

4. Refer to StoGuard® Detail Component Applications (Table 1.0) for joint treatment, rough opening protection, backing for masonry anchors, or joint transitions to dissimilar materials and dynamic joints and seams in construction.

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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