



## TECHNICAL DATA SHEET

# Outsulation® Plus MD System with Exterior Fire Blocking

An Exterior Insulation and Finish System that Incorporates Moisture Drainage, an Air/Water Resistive Barrier, and Non-Combustible Mineral Wool Exterior Fire Blocking. DS1069

### SYSTEM DESCRIPTION

The Outsulation® Plus MD System with Exterior Fire Blocking is an Exterior Insulation and Finish System (EIFS) that incorporates moisture drainage, an air/water-resistive barrier, foam plastic continuous insulation and non-combustible ROCKWOOL Frontrock® mineral wool insulation. Utilizing the concealed Dryvit Drainage Track (J-Track), all incidental moisture is diverted around window and door openings, ultimately exhausted at floor lines and at grade. This allows for additional flexibility in window design and the elimination of weep tubes at window sealant head joints, increasing detailing aesthetics and simplifying sealant application.

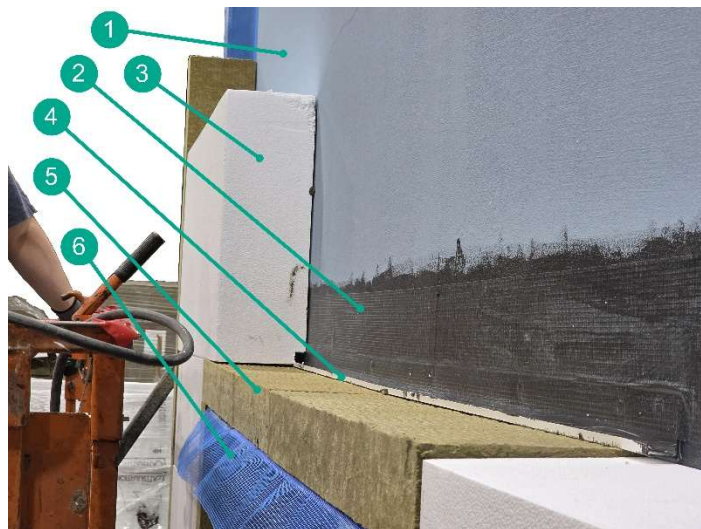
This system takes advantage of the non-combustible nature of mineral wool without compromising the ability to smooth and level the EPS insulation board to improve overall aesthetics when compared to EIFS that are entirely comprised of mineral wool insulation.

### FEATURES & BENEFITS

- Non-Combustible Mineral Wool Insulation Material in Exterior Fire Blocking applications
- High-Performance Exterior Continuous Insulation with no thermal bridges
- Compliant with New York City Building Code requirements for exterior fire blocking requirements at openings, floor lines, and occupancy separations
- Evaluated for complete fire performance in accordance with NFPA 285
- Evaluated for use over any fire-rated base wall assembly without adding to or detracting from the base wall's fire rating
- Single-source wall solution providing protection against the effects of uncontrolled air, water, and moisture vapor as well as providing improved thermal performance
- Engineered drainage diversion to all floor lines and to finished grade

### SYSTEM COMPONENTS

1. Dryvit/Tremco air/water-resistive barrier (Backstop NTX)
2. Dryvit/Tremco flashing system (AquaFlash)
3. Expanded Polystyrene Insulation Board (8" MAX) installed with Dryvit cementitious adhesive in vertical notched trowel configuration
4. Concealed Dryvit Drainage Track adhered to wall using dabs of TremPro™ Chem-X Pro®, extended min. 4" beyond fire blocking at jambs
5. ROCKWOOL Frontrock Mono Density mineral wool fire blocking, installed in lamella orientation around openings, at floor lines, and changes in occupancy with monolithic ribbon of Dryvit cementitious adhesive
6. Dryvit Detail Mesh
7. Dryvit Reinforced Base Coat with Standard Mesh (not shown)
8. Dryvit textured finishes (not shown)



### SYSTEM OVERVIEW

The Outsulation® Plus MD System with Exterior Fire Blocking expands upon the proven weatherability and insulating qualities of the other Dryvit Outsulation® Systems through the incorporation of non-combustible ROCKWOOL Frontrock mineral wool insulation as a fire blocking lamella and includes traditional procedures and components that provide additional defense against air intrusion, moisture intrusion, and weather protection. This is accomplished with a Dryvit/Tremco air/water-resistive barrier system and accessory flashing components. The use of Dryvit cementitious adhesive, applied in a vertical notched trowel configuration behind the

EPS in conjunction with the concealed Dryvit Drainage Track, provides drainage that will evacuate incidental moisture that may find its way behind the insulation board.

## PERFORMANCE CRITERIA

### AIR/WATER-RESISTIVE BARRIER MEMBRANE

| PROPERTY                                                                                                                                                                                                                                                                                                        | TEST METHOD                      | CRITERIA                                                                                                   | RESULTS                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Tensile Bond                                                                                                                                                                                                                                                                                                    | ASTM C297/E2134 <sup>a</sup>     | Minimum 15 psi (104 kPa)                                                                                   | Passed                                                                                  |
| Freeze-thaw                                                                                                                                                                                                                                                                                                     | ASTM E2485 Method B <sup>a</sup> | No deleterious effects after 10 cycles                                                                     | Passed                                                                                  |
| Water Resistance                                                                                                                                                                                                                                                                                                | ASTM D2247 <sup>a</sup>          | No deleterious effects after 14 days exposure <sup>b</sup>                                                 | Passed                                                                                  |
| Water Vapor Transmission                                                                                                                                                                                                                                                                                        | ASTM E96 (Water Method)          | Vapor Permeable                                                                                            | Backstop NTX: 17 Perms<br>ExoAir 230: 11.71 Perms                                       |
| Air Permeance                                                                                                                                                                                                                                                                                                   | ASTM E2178                       | Not greater than 0.004 cfm/ft <sup>2</sup> (0.02 L/s-m <sup>2</sup> )                                      | Backstop NTX : 0.0005 cfm/ft <sup>2</sup> @ 1.57 psf (0.002 L/s-m <sup>2</sup> @ 75 Pa) |
| Air Barrier Assembly                                                                                                                                                                                                                                                                                            | ASTM E283/E2357                  | Not greater than 0.04 cfm/ft <sup>2</sup> (0.2 L/s-m <sup>2</sup> )                                        | Backstop NTX: 0.0016 cfm/ft <sup>2</sup> @ 1.57 psf (0.0079 L/s-m <sup>2</sup> @ 75 Pa) |
| Nail Sealability                                                                                                                                                                                                                                                                                                | ASTM D1970                       | No ICC or ANSI/EIMA Criteria                                                                               | Passed ABAA Criteria                                                                    |
| Structural Performance                                                                                                                                                                                                                                                                                          | ASTM E1233 Proc. A <sup>a</sup>  | Minimum 10 positive cycles at 1/240 deflection; No cracking in field, at joints or interface with flashing | Passed                                                                                  |
| Racking                                                                                                                                                                                                                                                                                                         | ASTM E72 <sup>a</sup>            | No cracking in field, at joints or interface with flashing at net deflection of 1/8 in (3.2 mm)            | Passed                                                                                  |
| Restrained Environmental                                                                                                                                                                                                                                                                                        | ICC-ES Procedure <sup>a</sup>    | 5 cycles; No cracking in field, at joints or interface with flashing                                       | Passed                                                                                  |
| Water Penetration                                                                                                                                                                                                                                                                                               | ASTM E331 <sup>a</sup>           | No water penetration beyond the inner-most plane of the wall after 15 minutes at 2.86 psf (137 Pa)         | Passed                                                                                  |
| Weathering                                                                                                                                                                                                                                                                                                      |                                  |                                                                                                            |                                                                                         |
| UV Exposure                                                                                                                                                                                                                                                                                                     | ASTM D2898 Method B <sup>a</sup> | 210 hours of exposure                                                                                      | Passed                                                                                  |
| Accelerated Aging                                                                                                                                                                                                                                                                                               | ICC-ES Procedure <sup>a</sup>    | 25 cycles of wetting and drying                                                                            | Passed                                                                                  |
| Hydrostatic Pressure Test                                                                                                                                                                                                                                                                                       | AATCC 127 <sup>a</sup>           | ICC: 21.6 in (549 mm) water column for 5 hours                                                             | Passed                                                                                  |
| Surface Burning Characteristics                                                                                                                                                                                                                                                                                 | ASTM E84                         | Flame Spread < 25<br>Smoke Developed < 450                                                                 | Passed – Class A                                                                        |
| a. ASTM E2570 Standard Test Method for Evaluating Water-Resistive Barrier (WRB) Coatings Used Under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage, also referred to as AC212 – Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing. |                                  |                                                                                                            |                                                                                         |
| b. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.                                                                                                                                                                                   |                                  |                                                                                                            |                                                                                         |

### SYSTEM STRUCTURAL PERFORMANCE

| PROPERTY             | TEST METHOD                  | CRITERIA                                                                     | RESULTS                                                                                    |
|----------------------|------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Tensile Bond         | ASTM C297/E2134 <sup>a</sup> | Minimum 15 psi (104 kPa) – substrate or insulation failure                   | Passed                                                                                     |
| Transverse Wind Load | ASTM E330 <sup>a</sup>       | Withstand positive and negative wind loads as specified by the building code | Refer to <a href="#">ESR-1543</a> for tabulated results for the Outsulation Plus MD System |

a. ASTM E2568 Standard Specification for PB Exterior Insulation and Finish Systems.

## SYSTEM DURABILITY

| PROPERTY                                          | TEST METHOD                                                                | CRITERIA                                                                                  | RESULTS                                                                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Water Resistance of Base Coat & Finish            | ASTM D2247 <sup>a</sup>                                                    | No deleterious effects after 14 days exposure                                             | No deleterious effects after 42 days exposure                                                                                                |
| Water Penetration of Base Coat                    | ASTM E331 <sup>a</sup>                                                     | No water penetration beyond the inner-most plane of the wall 2 hours at 6.24 psf (299 Pa) | Passed                                                                                                                                       |
| Water Vapor Transmission                          | ASTM E96 (Water Method)                                                    | Vapor permeable                                                                           | Base Coat <sup>b</sup> 40 Perms<br>Finish <sup>c</sup> 40 Perms                                                                              |
| Drainage Efficiency                               | ASTM E2273                                                                 | Minimum Drainage Efficiency of 90%                                                        | Passed                                                                                                                                       |
| Alkali Resistance of Reinforcing Mesh             | ASTM E2098 <sup>a</sup>                                                    | 120 pli (>21 dN/cm) retained tensile strength after exposure                              | Passed                                                                                                                                       |
| Insulation Board (Physical Properties)<br>Density | ASTM C303 / ASTM C578                                                      | 0.95-1.25 lb/ft <sup>3</sup> (15.2-20.0 kg/m <sup>3</sup> )                               | Frontrock Mono-density: 8.5 lb/ft <sup>3</sup> (136 kg/m <sup>3</sup> )<br><br>Type I EPS: 0.95 lb/ft <sup>3</sup> (15.2 kg/m <sup>3</sup> ) |
| Thermal Resistance (R-value)                      | ASTM C177, C518                                                            | Report value                                                                              | Frontrock Mono-density: 3.2 per inch @ 75 °F (4.4 °C) in lamella orientation<br><br>Type I EPS: 3.85 per inch @ 75 °F (4.4 °C)               |
| Moisture Sorption                                 | ASTM C1104                                                                 | No ICC or ANSI/EIMA Criteria                                                              | Frontrock Mono-density: 0.28% by weight, 0.04% by volume                                                                                     |
| Compressive Strength                              | ASTM C165 / ASTM C578                                                      | No ICC or ANSI/EIMA Criteria                                                              | Frontrock Mono Density: 940 psf (45 kPa) @ 10% compression<br><br>Type I EPS: 10 psi (69 kPa) min. @ 10% compression                         |
| Salt Spray Resistance                             | ASTM B117 <sup>a</sup>                                                     | No deleterious effects after 300 hours exposure                                           | No deleterious effects after 1000 hours exposure                                                                                             |
| Taber Abrasion                                    | ASTM D4060                                                                 | N/A                                                                                       | Passed 1000 cycles                                                                                                                           |
| Abrasion Resistance                               | ASTM D968                                                                  | No deleterious effects after 528 quarts (500 liters)                                      | No deleterious effects after 1056 quarts (1000 liters)                                                                                       |
| Accelerated Weathering                            | ASTM G155 Cycle 1 <sup>a</sup><br><br>ASTM G154 Cycle 1 <sup>a</sup> (QUV) | No deleterious effects after 2000 hours                                                   | No deleterious effects after 5000 hours                                                                                                      |
| Freeze-Thaw                                       | ASTM E2485 Method A <sup>a</sup><br><br>ASTM C67 (modified)                | No deleterious effects after 60 cycles                                                    | Passed                                                                                                                                       |
|                                                   | ASTM E2485 Method B <sup>a</sup>                                           | No deleterious effects after 60 cycles                                                    | Passed                                                                                                                                       |
| Mildew Resistance                                 | ASTM D3273                                                                 | No growth during 28-day exposure period                                                   | Passed                                                                                                                                       |

a. ASTM E2568 Standard Specification for PB Exterior Insulation and Finish Systems.

b. Base Coat perm value based on Dryvit Genesis®.

c. Finish perm value based on Dryvit Quarzputz®.

## IMPACT RESISTANCE (ASTM E2486)

| REINFORCING MESH <sup>a</sup><br>WEIGHT: OZ/YD <sup>2</sup> (G/M <sup>2</sup> ) | MINIMUM TENSILE<br>STRENGTH | IMPACT<br>CLASSIFICATION | EIMA IMPACT RANGE<br>IN-LBS | (JOULES) | TEST RESULTS<br>IN-LBS | (JOULES) |
|---------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------|----------|------------------------|----------|
| Standard – 4.3 (146)                                                            | 150 lbs/in (27 g/cm)        | Standard                 | 25-49                       | (3-6)    | 36                     | (4)      |
| Standard Plus - 6 (203)                                                         | 200 lbs/in (36 g/cm)        | Medium                   | 50-89                       | (6-10)   | 56                     | (6)      |
| Intermediate™ - 12 (407)                                                        | 300 lbs/in (54 g/cm)        | High                     | 90-150                      | (10-17)  | 108                    | (12)     |
| Panzer <sup>a</sup> 15 <sup>b</sup> - 15 (509)                                  | 400 lbs/in (71 g/cm)        | Ultra-High               | >150                        | (>17)    | 162                    | (18)     |
| Panzer 20 <sup>b</sup> - 20.5 (695)                                             | 550 lbs/in (98 g/cm)        | Ultra-High               | >150                        | (>17)    | 352                    | (40)     |
| Detail Mesh <sup>a</sup> Short Rolls - 4.3 (146)                                | 150 lbs/in (27 g/cm)        | n/a                      | n/a                         | n/a      | n/a                    | n/a      |
| Corner Mesh™ <sup>b</sup> - 9.0 (305)                                           | 274 lbs/in (49 g/cm)        | n/a                      | n/a                         | n/a      | n/a                    | n/a      |

a. It shall be colored blue and bear the Dryvit logo for product identification.

b. Panzer Mesh recommended to be used in conjunction with Standard Mesh for areas exposed to high traffic.

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## SYSTEM FIRE PERFORMANCE

| TEST                                                           | TEST METHOD           | CRITERIA                                                                                                                                                                                                                                                                                                                                                 | RESULTS                                                                                                                                                  |
|----------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Resistance                                                | ASTM E119             | No effect on the fire resistance of a rated wall assembly                                                                                                                                                                                                                                                                                                | Passes for any fire-rated base wall assembly                                                                                                             |
| Ignitability                                                   | NFPA 268 <sup>a</sup> | No ignition at 12.5 kw/m <sup>2</sup> at 20 minutes                                                                                                                                                                                                                                                                                                      | Passed                                                                                                                                                   |
| Intermediate Multi-Story Fire Test                             | NFPA 285              | 1. Resist flame propagation over the exterior surface<br>2. Resist vertical spread of flame within combustible core/component of panel from one story to the next<br>3. Resist vertical spread of flame over the interior surface from one story to the next<br>4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces | Passed over steel framing                                                                                                                                |
| Surface Burning Characteristics                                | ASTM E84 <sup>a</sup> | All components shall have a:<br>Flame Spread $\leq$ 25<br>Smoke Developed $\leq$ 450                                                                                                                                                                                                                                                                     | Dryvit components<br>Flame Spread $\leq$ 25<br>Smoke Developed $\leq$ 450<br><br>Frontrock mineral wool<br>Flame Spread = 0<br>Smoke Developed $\leq$ 15 |
| Combustibility (ROCKWOOL Frontrock Mineral Wool <sup>b</sup> ) | ASTM E136             | Various                                                                                                                                                                                                                                                                                                                                                  | Non-combustible as defined by code                                                                                                                       |

a. ASTM E2568 Standard Specification for PB Exterior Insulation and Finish Systems.

b. Refer to applicable ROCKWOOL Frontrock literature for additional information related to material performance.

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## APPROVED SUBSTRATES

1. Exterior grade gypsum sheathing meeting ASTM C1396 (formerly C79) requirements for water resistant core or Type X core at the time of application.
2. Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C1177.
3. Exterior fiber reinforced cement or calcium silicate boards.
4. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
5. APA Exterior or Exposure 1 Fire Retardant Treated (FRT) Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
6. APA Exposure 1 Rated Oriented Strand Board (OSB) nominal 1/2 in (12.7 mm), minimum. Note: Backstop NTX - Texture is not recommended for the field of wall application over OSB.
7. Unpainted, unsealed concrete and CMU.

Refer to [DS156](#) for additional information and recommendations related to substrate preparation.

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## WHY DRYVIT/TREMCO AIR and WATER-RESISTIVE BARRIERS?

Dryvit/Tremco air and water-resistive barriers prevent incidental moisture from coming into contact with the substrate. Developed specifically for this purpose, they are specially formulated, flexible, polymer-based, noncementitious coatings that provide a watertight membrane. Always used in conjunction with Dryvit/Tremco accessory components and flashing systems. Dryvit/Tremco air/water resistive barriers are an essential element of the Outsulation Mineral Wool System. Full reference details regarding the design of the system are available at <https://www.dryvit.com/>.

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## DRYVIT...PROVEN FOR OVER 50 YEARS

Dryvit, a brand of Tremco CPG Inc., is ISO 9001:2015 and ISO 14001:2015 certified. ISO standards have been established worldwide as a common denominator for product excellence. Dryvit/Tremco is the recognized leader in construction technology. With leadership comes an obligation and commitment to research and development. The Outsulation Mineral Wool System is an example of our determination to continuously evaluate market demands and develop new and exciting products.

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## WARRANTY

Dryvit /Tremco shall provide a written moisture drainage and limited materials warranty against defective material upon written request. Warranty term will range between 10 and 20 years depending on assembly configuration. Dryvit/Tremco shall make no other warranties, expressed or implied. Dryvit/ Tremco does not warrant workmanship. Full details are available from Dryvit/ Tremco.

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## FIRE BLOCKING LAMELLA APPLICATION INSTRUCTIONS

### LAMELLA DEFINED

The lamella consists of rigid mineral wool insulation board installed with the fibers oriented perpendicular to the substrate (sheathing, CMU, or other approved backing). Because the board is rotated 90 degrees from its typical orientation, the thickness of the insulation board becomes the exposed height of the fire-blocking on the wall. Therefore, the required cut width of the mineral wool shall match the overall EIFS insulation thickness. For example, where an 8 in. EIFS insulation thickness is specified, 8 in. wide strips shall be ripped from a 4 in. thick mineral wool insulation board when laid flat.

The fire-blocking lamella shall be field-fabricated from 2 ft x 4 ft ROCKWOOL Frontrock Mono-Density insulation boards. No other mineral wool materials shall be utilized. A minimum board thickness of 4 in. is recommended, as this allows a single layer of lamella to be installed around openings and a double layer to satisfy the 8 in. exterior fire-blocking requirement at floor lines, occupancy separations, and other locations where larger fire-blocking may be required or specified.



### IMPORTANT!

The basis of design of the Fire-Blocked EIFS is the Outsulation Plus MD System. Details are provided at the end of this document specifically for the areas to be fire-blocked within the EIFS. The details within this document supersede those in the standard detail set for the Outsulation Plus MD System for those specific locations illustrated.

Refer to the following documents for specifications, application instructions, and installation details not specifically covered within this document.

- Backstop NTX Specifications, DS180
- Backstop NTX Application Instructions, DS181
- Backstop NTX Installation Details, DS840
- Outsulation Plus MD System (Exterior Fire-Blocked) Specifications, DS1070
- Outsulation Plus MD Application Instructions, DS218
- Outsulation Plus MD Installation Details, DS110

### LAMELLA APPLICATION PROCEDURE

1. Pre-cut lengths of 4 in. wide mineral wool blocking, or widths required by the project details, shall be fabricated to match the thickness of the EPS insulation used in the field of the wall. Cutting equipment shall produce clean, precise, square cuts. A band saw equipped with a standard serrated wood-cutting blade is the preferred method. A table saw with a standard carbide-tipped blade may also be used. The use of guides is recommended to ensure consistent dimensions, minimize slivering and rasping, and improve the final appearance of the installed system. Hand-cutting is discouraged but, when necessary, may be performed using a serrated blade. After cutting, remove any dust, loose fibers, or contaminants from surfaces intended to receive adhesive.

**NOTE:** Other types of cutting equipment may be suitable. Consult EIFS equipment suppliers for possible alternatives for cutting mineral wool insulation board.

2. Lay out the location of all mineral wool fire-blocking and EPS insulation using level and plumb chalk lines. Establish locations for floor-line blocking, occupancy separations, wall perimeters, openings, penetrations, expansion joints, and other system terminations before beginning installation.
3. Prior to the installation of the mineral wool blocking, prepare back-wrapping at all system terminations. Cut Detail Mesh to sufficient widths to provide a minimum 2-1/2 in. return behind the mineral wool blocking (back-wrapping), extend through the full system thickness (up to 8 in.), and provide at least 7-1/2 in. of mesh onto the face of the wall (11-1/2" at floor lines). This configuration ensures a minimum 2-1/2 in. overlap from the face of the mineral wool onto the adjacent EPS insulation. This will also provide additional mesh reinforcement at the mineral wool-to-EPS transition.

4. Attach Detail Mesh around the perimeter of all openings, penetrations, expansion joints, and other EIFS terminations either by stapling or by embedding the mesh into a ribbon of adhesive applied to the substrate. Keep any exposed, unembedded mesh clean and free of contaminants.
5. Coordinate and plan to provide adequate support for the mineral wool prior to application of any adhesive. Temporary blocking, mechanical fasteners, shoring, or other suitable means must may be used to prevent movement while the adhesive cures.
6. Prepare the selected Dryvit cementitious adhesive/base coat material (Primus®, Primus DM®, Genesis®, or Genesis DM®) in accordance with the applicable product mixing instructions.
7. Apply a tight coat of adhesive to the entire back surface of the mineral wool blocking, using firm pressure to work the adhesive into the fibrous surface and achieve complete contact.
8. Following the tight coat application, install a continuous ribbon of adhesive approximately 2 in. (51 mm) wide by 3/8 in. (9.5 mm) thick along the perimeter edges of the blocking.



9. Ensure the applied adhesive will provide positive and continuous contact with the approved air/water-resistive barrier (AWRB) and substrate surface.
10. Adhere the mineral wool lamella around the perimeter of rough openings, floor lines, occupancy separations, and other specified fire-blocking locations. Where fire-blocking requirements call for 8 in. thickness, install a double layer of 4 in. mineral wool lamella.
11. Because mineral wool lamella is significantly heavier than Type I EPS insulation, support shall be maintained until the adhesive has adequately cured, typically for no less than 24 hours. In many conditions, such as floor lines, windowsills, and jambs, previously installed EPS insulation may provide bearing support. At window heads and similar overhead conditions, supplemental temporary support shall be provided to prevent shifting, sliding, sagging, or separation during adhesive cure.

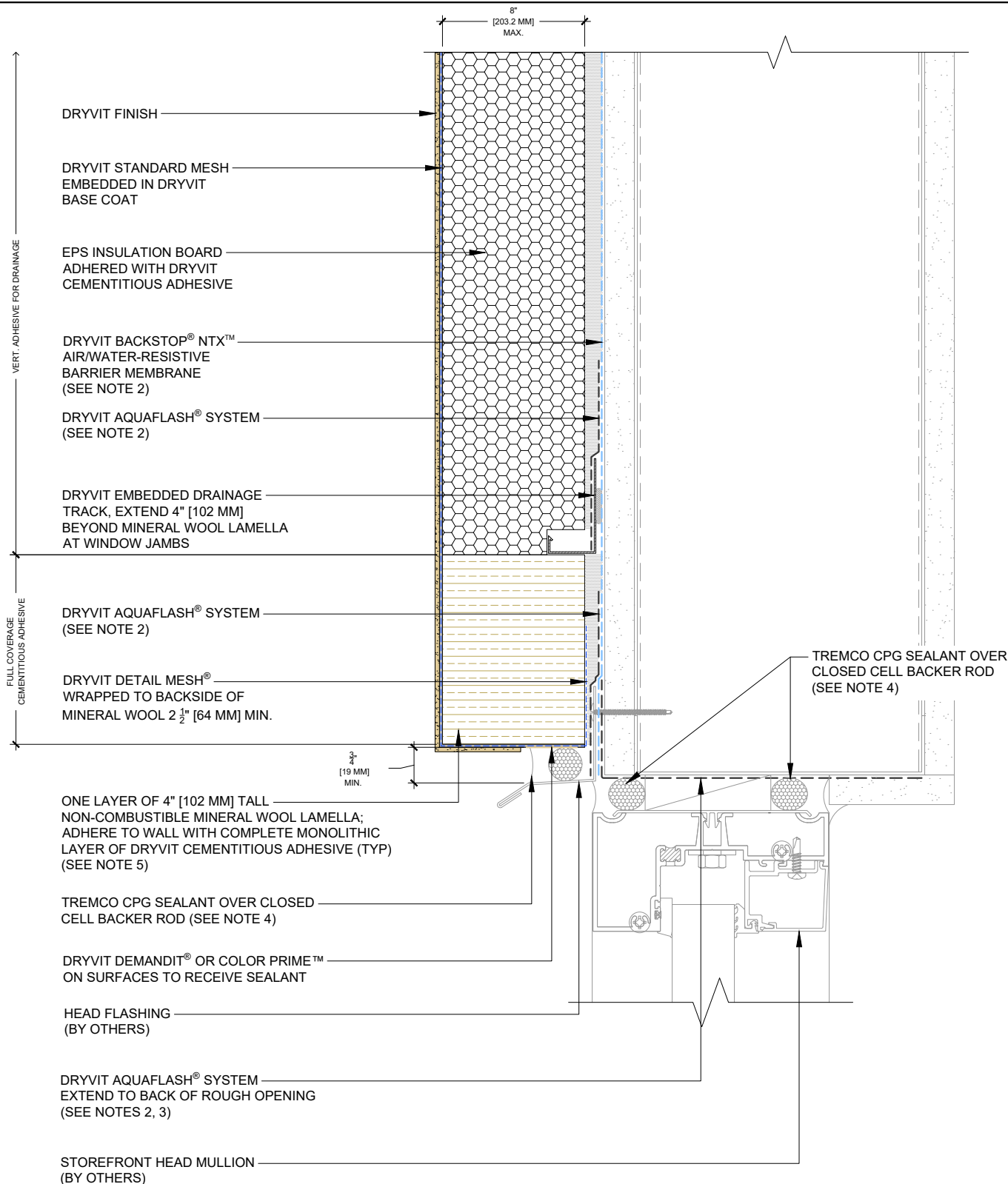
**NOTE:** It is normally required to “picture frame” rough openings with L-shaped pieces of insulation board at inside corners. This may not be feasible with mineral wool lamella due to thickness limitations. **Although cracking may or may not occur, designers and specifiers must be advised that there is an increased risk of cracking at these locations.**



12. Once the perimeter mineral wool blocking is securely in place and adequately supported, install (or continue to install) the EPS insulation boards in accordance with the Outsulation Plus MD Application Instructions, DS218. Begin installation from established level and plumb reference lines and fit the EPS tightly against the mineral wool blocking. All EPS and mineral wool interfaces shall be clean, square-cut, and tightly fitted to eliminate gaps and ensure continuity of the insulation layer.
13. Fill any excessive gaps or voids in all insulation board joints as required to create a monolithic and continuous surface. All gaps greater than 1/16 in. must be filled with appropriate material. Gaps in EPS may be slivered with additional EPS materials or filled with low-expanding polyurethane foam, such as Tremco ExoAir LEF. Gaps between mineral wool blocking must be slivered with additional mineral wool material.
14. Rasp the insulation board, including the lamella as needed, to bring the surface to within planar tolerances and receive the base coat and reinforcing mesh. Control debris as necessary to meet jobsite requirements.



15. Refer to the following documents for continuing system installation beyond adhering of the insulation board:
  - a. Outsulation Plus MD System (Exterior Fire-Blocked) Specifications, DS1070
  - b. Outsulation Plus MD Application Instructions, DS218



#### NOTES:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. REFER TO BACKSTOP® NTX™ APPLICATION INSTRUCTIONS (DS196) FOR COMPREHENSIVE INSTALLATION OF AIR BARRIER AND LIQUID FLASHING MATERIALS.
3. DRYVIT BACKSTOP® NTX™ TEXTURE OVER GRID TAPE™ IS AN ALTERNATIVE OPTION AT HEAD AND JAMB CONDITION.
4. REFER TO DRYVIT DS153 FOR ADDITIONAL INFORMATION REGARDING SEALANTS FOR USE WITH EIFS.
5. MINERAL WOOL LAMELLA SHALL BE ROCKWOOL FRONTROCK™ MONO-DENSITY INSULATION BOARD INSTALLED WITH FIBERS PERPENDICULAR TO THE WALL IN LAMELLA ORIENTATION AND SHALL BE SOURCED FROM A DRYVIT-APPROVED SUPPLIER. LAMELLA SHALL BE 4" [102 MM] WIDE/TALL AROUND OPENINGS AND SPECIFIED PENETRATIONS AND 8" [203 MM] WIDE/TALL AT FLOOR LINES AND OCCUPANCY SEPARATIONS

This detail is for general informational purposes, only. The project design professional determines, in its sole discretion, whether this detail or a functionally equivalent detail is best suited for the project with respect to any architecture, engineering, and design requirements, including any local building code requirements. If this document is not reviewed and the product is not approved for use by a licensed design professional, the customer agrees that the detail may contain substantive flaws requiring correction, and hereby releases Tremco CPG Inc. from any and all liability related to the design and installation of the product. This detail is subject to change without notice. Contact Tremco to ensure you have the most recent version.

### Outsulation® Plus MD Fire-Block System

Detail: Window Head

File Name:

Drawn by: HDE

Checked by: CW

Scale: 4" = 1'-0"

OPMD FB 1

Revision #: 0

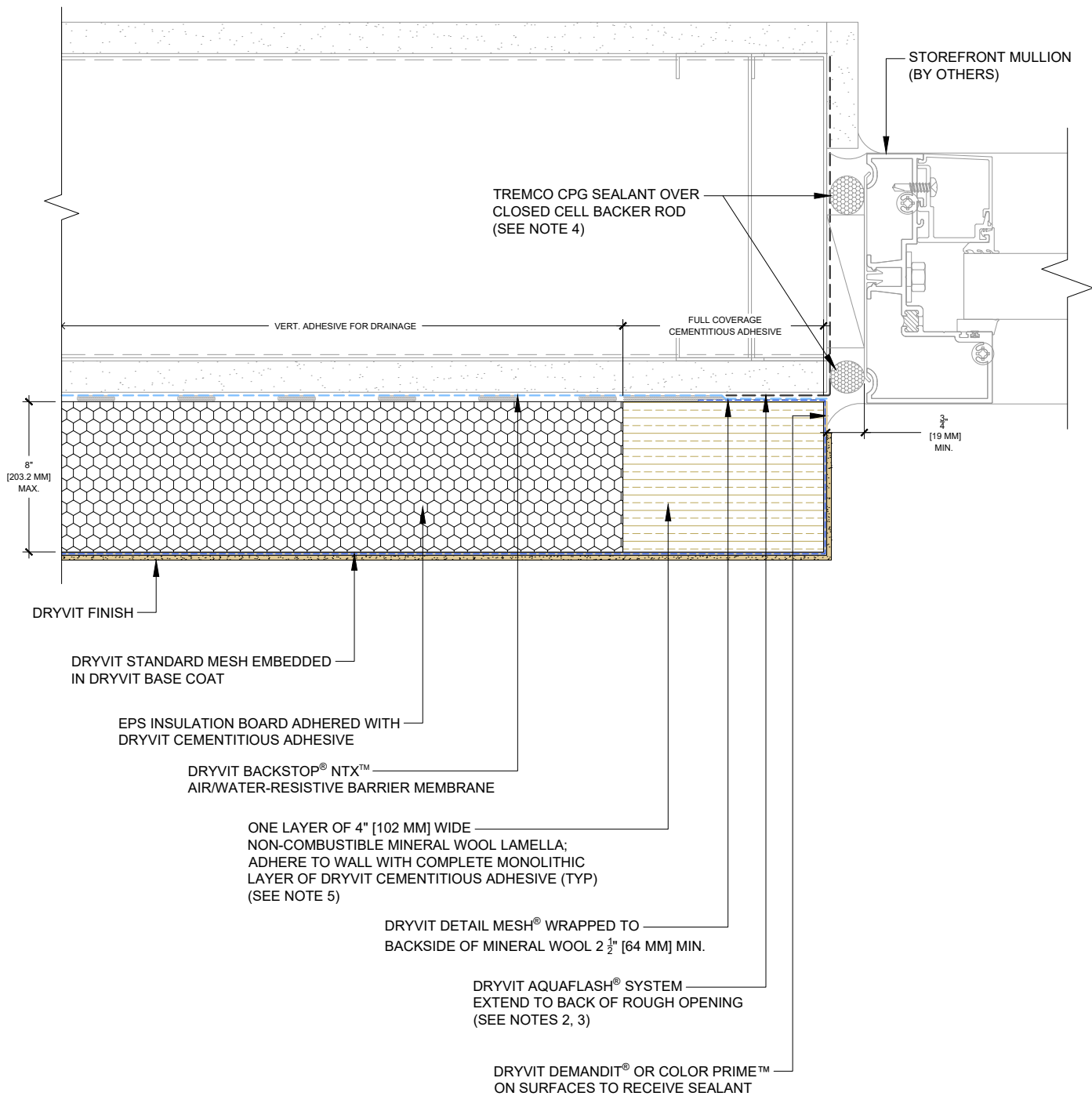
Revised by: NA

Date: 6/25/2026



Dryvit Technical Support: 800-556-7752





#### NOTES:

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### Outsulation® Plus MD Fire-Block System

Detail: Window Jamb

File Name:

Drawn by: HDE

Checked by: CW

Scale: 4" = 1'-0"

OPMD FB 2

Revision #: 0

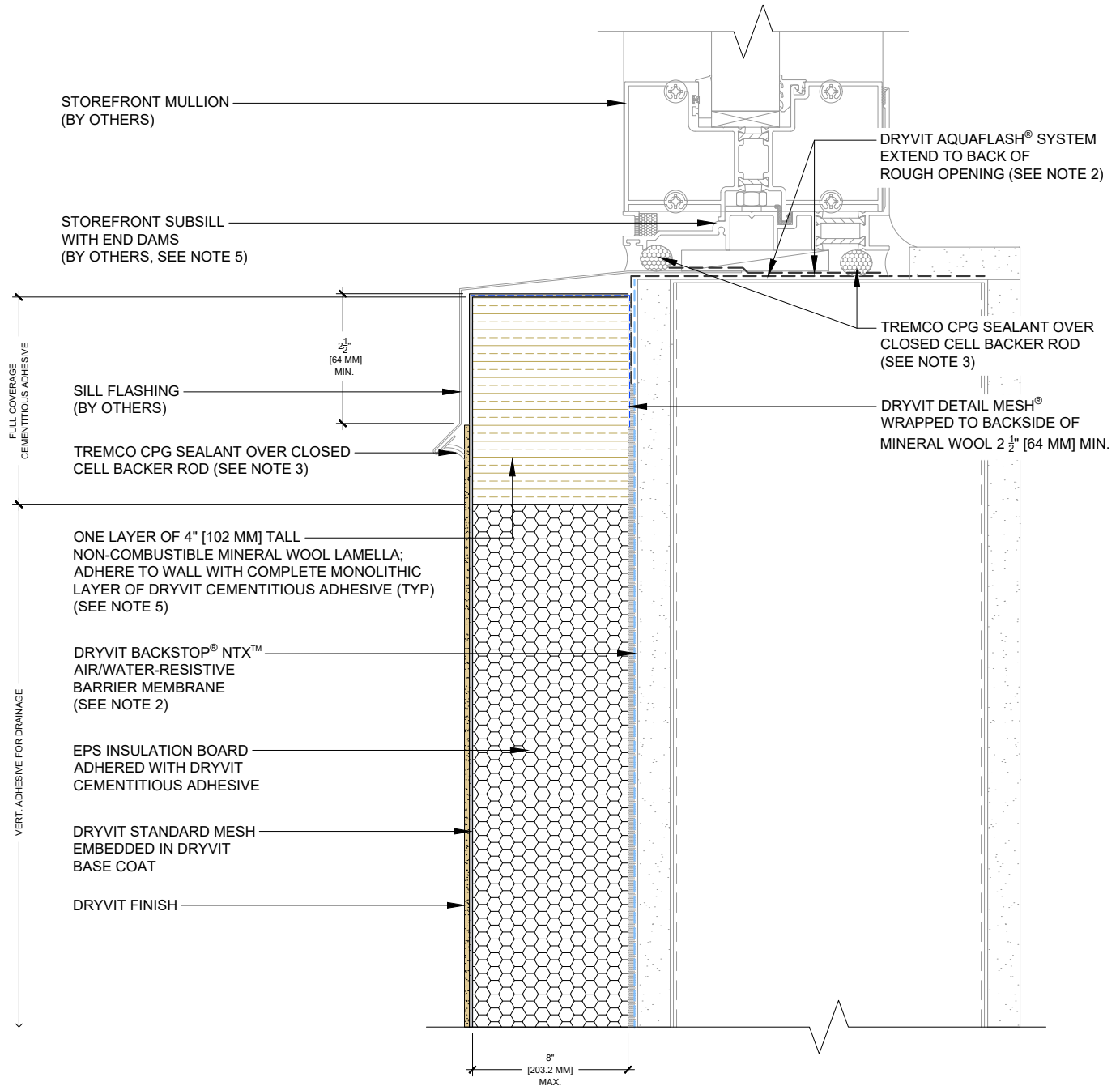
Revised by: NA

Date: 6/25/2026



Dryvit Technical Support: 800-556-7752





**NOTES:**

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. REFER TO BACKSTOP® NTX™ APPLICATION INSTRUCTIONS (DS196) FOR COMPREHENSIVE INSTALLATION OF AIR BARRIER AND LIQUID FLASHING MATERIALS.
3. REFER TO DRYVIT DS153 FOR ADDITIONAL INFORMATION REGARDING SEALANTS FOR USE WITH EIFS.
4. MINERAL WOOL LAMELELLA SHALL BE ROCKWOOL FRONTROCK™ MONO-DENSITY INSULATION BOARD INSTALLED WITH FIBERS PERPENDICULAR TO THE WALL IN LAMELLA ORIENTATION AND SHALL BE SOURCED FROM A DRYVIT-APPROVED SUPPLIER. LAMELLA SHALL BE 4" [102 MM] WIDE/TALL AROUND OPENINGS AND SPECIFIED PENETRATIONS AND 8" [203.2 MM] WIDE/TALL AT FLOOR LINES AND OCCUPANCY SEPARATIONS.
5. VERIFY THAT STOREFRONT SYSTEM HAS BEEN SPECIFIED WITH AN EXTRUDED ALUMINUM SUBSILL FLASHING PAN. IF NO PAN IS SPECIFIED AND PROVIDED BY THE STOREFRONT MANUFACTURER, A BRAKE METAL SILL PAN WITH END DAMS AND A BACK DAM MUST BE PROVIDED AT THE SILL OF THE OPENING. ALL VOIDS AND JOINTS IN THE PAN MUST BE SEALED FOR WATER-TIGHTNESS.

This detail is for general informational purposes, only. The project design professional determines, in its sole discretion, whether this detail or a functionally equivalent detail is best suited for the project with respect to any architecture, engineering, and design requirements, including any local building code requirements. If this document is not reviewed and the product is not approved for use by a licensed design professional, the customer agrees that the detail may contain substantive flaws requiring correction, and hereby releases Tremco CPG Inc. from any and all liability related to the design and installation of the product. This detail is subject to change without notice. Contact Tremco to ensure you have the most recent version.

**Outsulation® Plus MD Fire-Block System**

Detail: Window Sill

File Name:

Drawn by: HDE

Checked by: CW

Scale: 4" = 1'-0"

OPMD FB 3

Revision #: 0

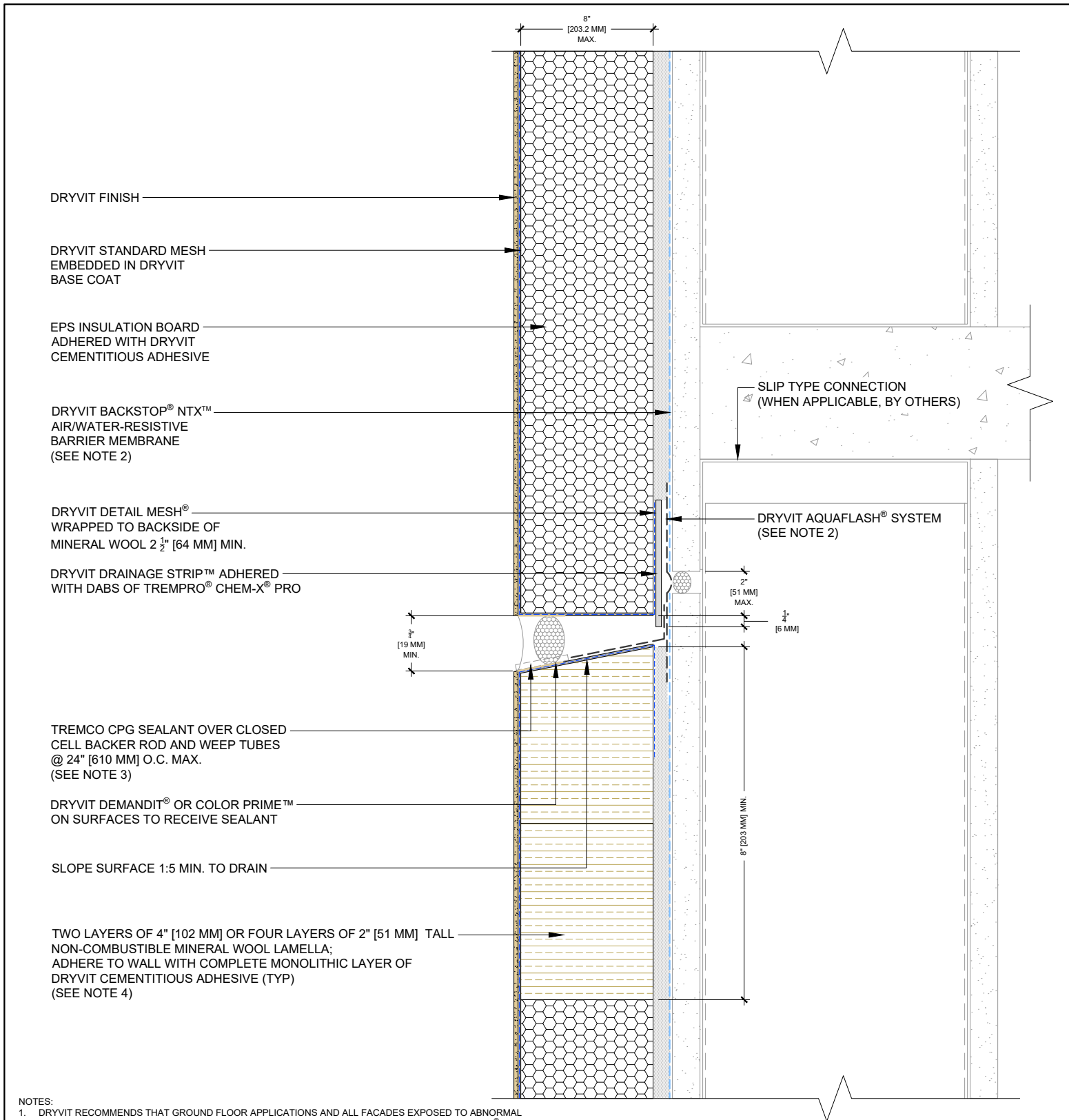
Revised by: NA

Date: 6/25/2026



Dryvit Technical Support: 800-556-7752





NOTES:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. REFER TO BACKSTOP® NTX™ APPLICATION INSTRUCTIONS (DS196) FOR COMPREHENSIVE INSTALLATION OF AIR BARRIER AND LIQUID FLASHING MATERIALS.
3. REFER TO DRYVIT DS153 FOR ADDITIONAL INFORMATION REGARDING SEALANTS FOR USE WITH EIFS.
4. MINERAL WOOL LAMELLA SHALL BE ROCKWOOL FRONTROCK™ MONO-DENSITY INSULATION BOARD INSTALLED WITH FIBERS PERPENDICULAR TO THE WALL IN LAMELLA ORIENTATION AND SHALL BE SOURCED FROM A DRYVIT-APPROVED SUPPLIER. LAMELLA SHALL BE 4" [102 MM] WIDE/TALL AROUND OPENINGS AND SPECIFIED PENETRATIONS AND 8" [203 MM] WIDE/TALL AT FLOOR LINES AND OCCUPANCY SEPARATIONS
5. LOCATE EXTERNAL SEALANT JOINT WITHIN 2" [51 MM] OF BREAK IN SHEATHING.
6. DRAINABLE EXPANSION JOINTS ARE REQUIRED AT ALL FLOOR LINES TO ALLOW FULL FIRE BREAK AT FLOOR LINES. SEALANT JOINT IN EIFS AT THIS LOCATION MUST BE 3/4" AT MIN. AND LARGER IF NEEDED, BASED ON EXPECTED MOVEMENT ANTICIPATED IN UNDERLYING STRUCTURAL FRAMING.
7. STOP DRYVIT/TREMCO FLASHING SYSTEM SHORT OF SEALANT BOND LINE.

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**Outsulation® Plus MD Fire-Block System**

Detail: Typical Floor Line with Drainage

File Name:

Drawn by: HDE

Checked by: CW

Scale: 4" = 1'-0"

OPMD FB 4

Revision #: 0

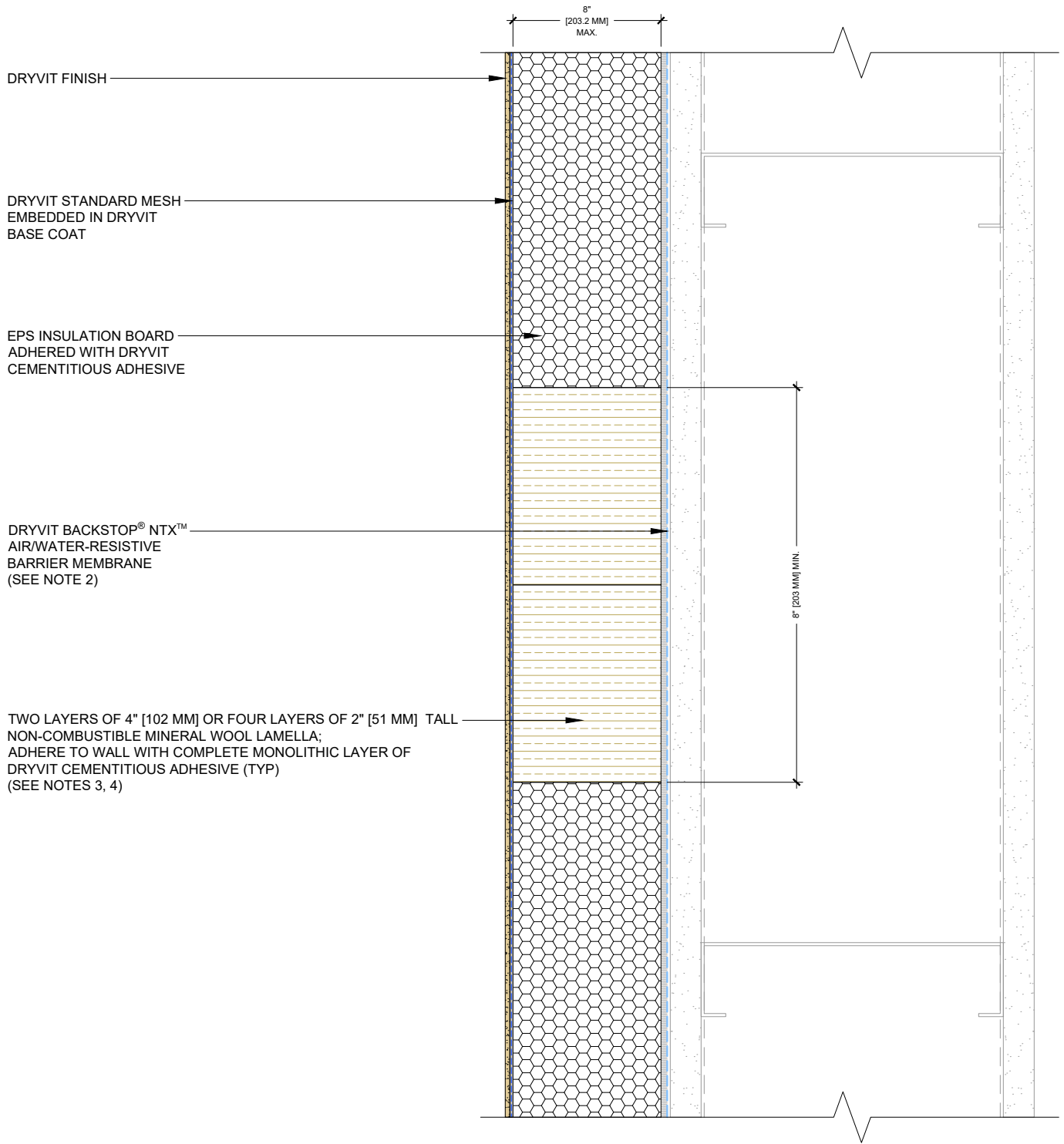
Revised by: NA

Date: 6/25/2026



Dryvit Technical Support: 800-556-7752





#### NOTES:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. REFER TO BACKSTOP® NTX™ APPLICATION INSTRUCTIONS (DS196) FOR COMPREHENSIVE INSTALLATION OF AIR BARRIER AND LIQUID FLASHING MATERIALS.
3. MINERAL WOOL LAMELLA SHALL BE ROCKWOOL FRONTROCK™ MONO-DENSITY INSULATION BOARD INSTALLED WITH FIBERS PERPENDICULAR TO THE WALL IN LAMELLA ORIENTATION AND SHALL BE SOURCED FROM A DRYVIT-APPROVED SUPPLIER. LAMELLA SHALL BE 4" [102 MM] WIDE/TALL AROUND OPENINGS AND SPECIFIED PENETRATIONS AND 8" [203 MM] WIDE/TALL AT FLOOR LINES AND OCCUPANCY SEPARATIONS.
4. REFER TO OPMD FB 4 WHEN OCCUPANCY CHANGE IS HORIZONTAL. PROVISIONS FOR DRAINAGE ABOVE THE LAMELLA ARE REQUIRED IN HORIZONTAL FIRE BLOCKING APPLICATIONS.

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### Outsulation® Plus MD Fire-Block System

Detail: Typical Fire-Blocking at Occupancy Change

File Name:

Drawn by: HDE

Checked by: CW

Scale: 4" = 1'-0"

OPMD FB 5

Revision #: 0

Revised by: NA

Date: 6/25/2026



Dryvit Technical Support: 800-556-7752



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## CAUTIONS AND LIMITATIONS

- Avoid applying wet goods in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material, such as tarps or nursery shade cloth.
- Use in above grade applications only.
- Mineral wool lamella must be temporary supported for at least 24 hours during initial curing of cementitious adhesive.
- Mineral wool lamella may cause hairline cracking at inside corners at rough openings.
- Cladding surface may exhibit shadowing or ghosting of mechanical fasteners due to varying exterior surface temperatures during periods of extreme and rapid temperature change.
- Critical light may exaggerate construction irregularities with the use of Mineral Wool insulation boards.

Please refer to our website at [www.dryvit.com](http://www.dryvit.com) for the most up-to-date Product Data Sheets.

**NOTE:** All Dryvit Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements and are available on the Dryvit website at [www.dryvit.com](http://www.dryvit.com).

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DS1069

Issued: 07/29/2026

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