DuPont™ ArmorWall™ Systems Benefits

Key Benefits of DuPont™ ArmorWall™ Plus Fire-Rated (FR) Structural Insulated Sheathing (SIS)

1. Continuous Insulation

DuPont™ ArmorWall™ Plus FR SIS has a high-performance, poured polyurethane insulation layer fused to the sheathing layer using patented Fusion Technology, which provides an easy way to comply with continuous insulation (ci) requirements in building codes. The thermal layer is offered in three standard thicknesses and R-Values for both ArmorWall™ Plus FR SIS and ArmorWall™ SP Plus FR SIS. Fusing the insulation to the sheathing provides superior performance and a simple solution to comply with continuous insulation requirements in building codes.

2. Fire-Resistance

ArmorWall™ Plus FR SIS passes NFPA 285 testing without the additive protection of an exterior cladding on the front for the full duration of the test. This allows for engineering judgements to be made for most NFPA 285 tested and approved exterior finishes when used with DuPont™ ArmorWall™ Systems as part of a complete wall assembly. In addition, ArmorWall™ Plus FR SIS has been rigorously tested at approved third party fire labs around the country to demonstrate ASTM E119 fire-rated assembly compliance.

3. Water-Resistive Barrier

ArmorWall™ Plus FR SIS passes ASTM E331 as a water-resistive barrier for pressure totaling two hours and complies fully with Chapter 14 of the International Building Code (IBC) for water-resistive barriers. Once the sheathing fasteners and seams have been properly sealed, the structure is considered weathered and dried-in and interior construction may commence.

4. Air-Resistive Barrier

Once the sheathing fasteners and seams have been properly sealed, ArmorWall™ Plus FR SIS meets the IBC and ASTM E283 requirements for an air barrier assembly without the need for additional materials.

5. Structural Sheathing and Cladding Attachment Support

Magnesium Oxide (MgO) sheathing is fused onto the exterior face of ArmorWall™ Plus FR SIS panels to gain high strength and durability not commonly found today in traditional building enclosure products. With its ability to move the stud face to the exterior face of the sheathing, ArmorWall™ Plus FR SIS has been tested to support loads equivalent to most building cladding finishes, with minimal creep while under load.

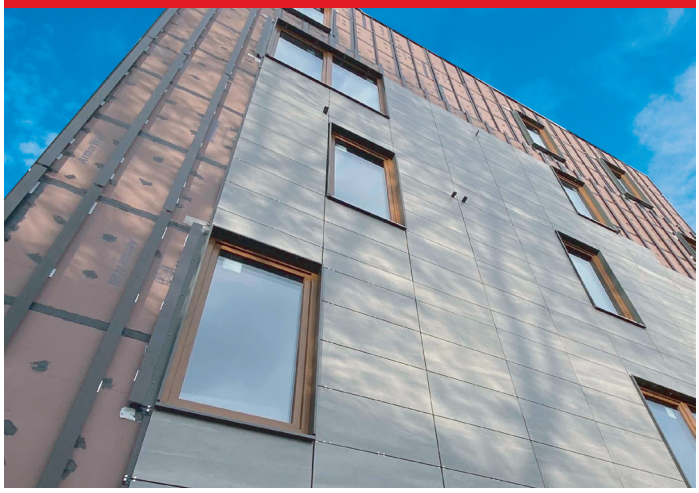
1. Continuous Insulation

2. Fire-Resistance

3. Water-Resistive Barrier

4. Air-Resistive Barrier

5. Cladding Attachment Support



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43-D101204-enUS-0224 CDP