

DuPont™ ArmorWall™ Systems Benefits

Value Engineering

Project teams performing value engineering activities on their multifamily and commercial projects have a lot to gain from keeping DuPont™ ArmorWall™ Plus Fire-Rated (FR) Structural Insulated Sheathing (SIS) on the project or adding ArmorWall™ Plus FR SIS to the project. As the industry's premium structural insulated sheathing panel, the 5-in-1 benefits of ArmorWall™ Plus FR SIS help enable teams to reduce labor time, labor costs, and provide simplicity. These and other benefits can save projects time and money while improving – not reducing – the building enclosure's performance attributes.

ArmorWall™ Plus FR SIS and Value Engineering

- Panels include an industry-leading integrated air and water-resistive coating, reducing the time and cost for a standalone WRB product, labor crew, and installation revolution.
- Due to the structural strength of the panel's sheathing, it allows direct attachment of cladding to the sheathing and no longer requires attachment back to the stud frame assembly or substrate*.
- Panels have been tested to support loads equivalent to most building cladding finishes, without the need for costly and heavy girts, sub-girts, rails, and clips, saving time and money with transitions, corners, and more.
- Low lead times on a product that replaces up to five others can enable exterior work to begin sooner, saving projects weeks of schedule time, not just days.
- Ideal for retrofit applications as the high-density insulation provides R-6.5 per inch, preventing the need for increasing the thickness of the exterior wall.
- Costs that project teams may incur through updated drawings or permitting fees can be offset by moving up the occupancy date – with as little as one installation revolution of the 5-in-1 system, buildings are weathered-in faster, enabling interior work and move-ins to begin sooner.
- Other structural insulated systems that may be lower in price cannot meet the performance benefits of ArmorWall™ Plus FR SIS, often requiring several additional inches and product layers – adding cost and weight - to match our thermal and fire performance.
- Readily compatible with many types of interior cavity insulation to yield additional R-value when needed by Passive House and other standards with high thermal requirements.

*Claddings that exceed 15 lbs/sqft are to be revised by DuPont Technical Services.

Reliable Engineering

Maintaining or increasing your project's value isn't limited to lowering material costs and reducing labor. A great deal of value can be monetized in a project involving easier design, less labor coordination, and less material needs that mitigate supply chain disruptions. ArmorWall™ Plus FR SIS provides project teams and building owners with a reliable premium product through diligent engineering and testing practices.

- DuPont™ ArmorWall™ Plus and SP Plus Fire-Rated (FR) Structural Insulated Sheathing (SIS) panels are 1 to 2-hour fire-rated according to ASTM E119 standards and pass NFPA 285 fire testing without protective cladding, providing industry-leading fire protection and life safety that owners and occupants value.
- ArmorWall™ Plus FR SIS can yield additional financial savings through lowered insurance rates credited to advanced fire-resistance, reduced maintenance, and improved durability.
- Installed by one labor crew in as little as one installation revolution using traditional tools and methods, there is less risk for installation errors that would contribute to water leakage and failures common in other systems while following ArmorWall™ Plus FR SIS installation guidelines.
- Unlike other structural insulated sheathing products, ArmorWall™ Plus FR SIS can be installed in all weather conditions* and is highly resistant to damages from installation missteps due to packaging and durability benefits.
- Our high-performance polyurethane continuous exterior insulation contributes to lower energy demand of the building and tenant units, mitigating the impact of rising energy prices and making it easier for projects to meet electrification, carbon emission, and clean energy goals.
- Enables simple visual inspection and provides strong confidence in continuous exterior insulation and whole building air tightness that verifiers and code officials require.
- Installers are available nationwide to join a project on short notice; hands-on training is provided by DuPont building enclosure specialists to support new installers.

Education is Provided

DuPont offers superior building enclosure design, engineering, and technical support services to ensure your project receives the most benefits at the lowest costs. Our team of experts is available to assist your team in analyzing product compatibility, cladding attachment load requirements, hygrothermal analysis, and much more. Contact your area Sales Representative for product samples and mock-up materials to see for yourself how ArmorWall™ Plus FR SIS can be the most valuable part of your value engineering efforts.

*Ensure the panel is sealed with an approved product, such as ArmorSeal Sealant, within 6 days of installation.



City of Mason Municipal Aquatic Center in Mason, OH

Photo courtesy of Conger Construction Group

"By performing a thorough cost-benefit analysis that compared the slightly higher upfront costs of the ArmorWall product to the lower overall project costs that result from the labor and time savings, we were able to show that switching to ArmorWall™ was less expensive overall."

- Chris Sample, Champlin Architecture

"With a 30-35% labor shortage occurring during construction, eliminating trips around the building to perform the installation absolutely saved us time and trouble. We picked up several days as a result of the faster and easier install, even with less labor on the job. And my crew liked the ArmorWall™ product because they could install it with regular tools, it was easy."

- Terry Diltz, Valley Interior Systems



Medical Office Building in Boiling Springs, SC

"Time is always the most important factor when trying to open new buildings. ArmorWall™ reduced the time it took to complete the exterior walls by half compared to our last project."

- Project Coordinator

"Time and money are my biggest factors. We were surprised and happy to return our equipment two months early. That saved us a lot of money."

- Josh Vassey, Spectrum Interiors

"On 15,000 square feet of walls, we saved six weeks and two inspections for this job!"

- Damon Ivey, Spectrum Interiors



North Carolina School of Science and Math in Morganton, NC

"The project was 100% weathered in faster. We were five to six weeks behind on the construction schedule due to delays with steel. ArmorWall™ got us back on track. We were framed and sheathed in six weeks, saving us three to four weeks on the project schedule."
- Nathan Collins, Precision Walls, Inc.

Additional Benefits:

- R-10, R-15, and R-21 available
- 1-hour fire-rated assemblies standard, 2-hour assemblies available
- Installs in as little as one revolution with one labor crew
- Smooth structural substrate for cladding attachment
- Integrated high-quality air and water-resistive barrier



Customer Service

Phone: 1-833-338-7668

Email: ArmorWall.CustomerService@DuPont.com

www.ArmorWall.DuPont.com

DuPont de Nemours, Inc.
Wilmington, DE 19898

NOTICE: No freedom from any patent owned by DuPont or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries or regions. DuPont assumes no obligation or liability for the information in this document. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY DUPONT. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. The buyer assumes all risks as to the use of the material. Failure to strictly adhere to any recommended procedures shall release DuPont Specialty Products USA, LLC or its affiliates, of all liability with respect to the materials or the use thereof. The information herein is not intended for use by non-professional designers, applicators or other persons who do not purchase or utilize this product in the normal course of their business.

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted. © 2022 DuPont. All rights reserved.

43-D101210-enUS-0922