NFPA 285 Wall Assembly DuPont™ ArmorWall Plus Fire-Rated Structural Insulated Sheathing™

The following table is a summary of various ArmorWall assemblies that have been tested, engineered, and approved to the requirements of NFPA 285 and Chapters 14 and 26 of the International Building Code.

Base Wall System				
Use either 1, 2, 3, 4, 5, or 6.	. Concrete Base Wall.			
	2. CMU Base Wall.			
	3. One layer of 5/8" Type X gypsum wallboard installed on the interior side of minimum 3 5/8"			
	deep, minimum 20 GA. galvanized steel studs spaced a maximum of 24" O.C.			
	I. One layer of 1/2" MgO wallboard installed on the interior side of minimum 3 5/8" deep,			
	FRT wood study spaced maximum of 24" O.C. with 5/8" Type X gypsum wallboard installed			
	on the interior side.			
	5. FRT wood studs spaced maximum of 24" O.C. with 1/2" MgO wallboard installed on the			
	interior side.			
Floorline Fire-stopping to Back Edge of Insulation Layer				
Use either 1 or 2.	. 4" 4 pcf mineral wool (friction fit or installed with Z-Clips).			
Cavity Inculation	2. FRT lumber - 1 1/2" thick minimum.			
Use either 1 2 or 3	None			
	2. Full or partial fill mineral wool.			
	3. Full or partial fill fiberglass batts.			
Composite Exterior Sheathing				
Use either 1, 2, or 3.	. Maximum 3 3/4" thick ArmorWall Plus installed vertically or horizontally and attached direct			
	to Base Wall System with insulation facing inward. Installed with a minimum #14-13 DP1 screw			
	spaced 12" O.C. Vertically maximum at every stud. Maximum 4.1/4" thick ArmorWall Dlus SD Stuctural Insulated Sheathing™ installed vertically a			
	horizontally and attached directly to Base Wall System with insulation facing inward. Installed			
	with a minimum #14-13 DP1 screws spaced 12" O.C. vertically maximum at every stud.			
	3. Maximum 3 3/4" thick ArmorWall Plus HD Stuctural Insulated Sheathing™ installed vertically			
	horizontally and attached directty to Base Wall System with insulation facing inward. Installed			
	with a minimum #14-13 DP1 screws spaced 12" O.C. vertically maximum at every stud.			
WRB Over Composite Exterior Sheathing				
Use either I or I and 2	. It is assumed that the ArmorWall panel will be covered with the factory applied ArmorSeal Pl			
together.	Dorken Systems Inc : Delta Dry & Lathe (allowable only with Cladding #2 or #7)			
Sheathing Joints and Flashir	of Panel Seams			
Use either 1 or 2.	. MaxLife ArmorWall Plus Fire-Rated Structural Insulated Sheathing™ with fully embedded			
	MaxLife ArmorSeal Mesh Reinforcement in basecoat and topcoat of MaxLife ArmorSeal Plus			
	Coating.			
	2. MaxLife ArmorSeal Sealant covering all vertical and horizontal joints and fastener heads with			
Fortavian Classician	minimum of 1" embedment on either side of each joint.			
Extended Clauding				
8. 9. 10. 11. 12. 13. 14. 15. 16.	brick. Brick ties/anchors 2" O.C. maximum.			
17, 18, 19, 20, 21, 22, 23, 24,	2. Stucco - minimum $3/4''$ thick exterior cement plaster and lath. For systems that require a			
25, 26 or 27.	more durable WRB system, any building wrap or 15# felt that is not self-adhered asphalt or			
	butyl based can be used as a slip sheet between the WRB and the lath.			
	5. Limestone - minimum of 2" thick using any standard non-open joint installation technique suc			
	as shipiap. I - Natural Stone Veneer - minimum 2" thick using any standard non-onen joint installation			
	technique such as grouted/mortared stone			
	5. Cast Artificial Stone - minimum 11/2" thick complying with ICC-ES AC 51 using any standard			
	non-open joint installation technique such as shiplap.			
	5. Terra Cotta Cladding - minimum $11/4''$ thick (solid or equivalent by weight) using any standau			
	non-open joint installation technique such as shiplap.			
	Inin prick/cultured stone set in thin-set adhesive and metal lath that has been tested to ASTI [10 (brick expressed to furness) and remains in place for a minimum of 70 minutes on the			
	Either (Drick exposed to rurnace) and remains in place for a minimum of 30 minutes, or has passed an NEPA 285 test. Minimum $3/4''$. For systems that require a more durable M/DP			
	system any building wrap or 15# felt that is not self-adhered asphalt or butyl based can be			
	used as a slip sheet between the WRB and the lath.			
	8. TABS II Panel System with 1/2" thick bricks using TABS Wall Adhesive.			
). IQBrick™ thin brick panel system by MaxLife Industries.			
	Any MCM/ACM that has successfully passed NFPA 285.			
	list continues on next page			

NFPA 285 Wall Assembly DuPont™ ArmorWall Plus Fire-Rated Structural Insulated Sheathing™

Exterior Cladding	
Use either 1 , 2, 3, 4, 5, 6, 7,	list continued from previous page.
8, 9, 10, 11, 12, 13, 14, 15, 16,	11. Uninsulated sheet metal building panels including steel, copper, aluminum.
17, 18, 19, 20, 21, 22, 23, 24,	12. Uninsulated fiber-cement siding.
25, 26, or 27.	13. Stone/Aluminum honeycomb composite building panels that have successfully passed NFPA
	285 criteria.
	14. Autoclaved-aerated concrete (AAC) panels that have successfully passed NFPA 285 criteria.
	15. Terra Cotta Cladding - any rain-screen terra cotta (min. 1/2" thick) with ventilated shiplap.
	16. StonePeak Ceramics Granitech Ventilated Façade System with Exposed Fastening as
	described in Report K1291.01-121-24.
	17. 10 mm Stonewood (also called ICC-ES Stonewood) for exposed and concealed fastener
	systems. Limitations to a maximum 1" air gap and must use cladding fire stopping per
	manufacturer's tested details.
	18. 8 mm or 10 mm Max Exterior F Quality FunderMax Panels exposed fastener systems with a
	maximum 1" air gap. Contact FunderMax and MaxLife technical services prior to further design
	installation limitations.
	19. 10 mm Max Exterior F Quality FunderMax Panels concealed fastener systems with a maximum
	11/2" air gap. Contact FunderMax and MaxLife technical services prior to further design
	installation limitations.
	20. Modulo Max Exterior Modulo ME05 Panels by FunderMax Panels. Contact FunderMax and
	MaxLife technical services prior to further design installation limitations.
	21. StonePeak Ceramics Granitech Ventilated Façade System with Exposed Fastening as
	described in Report K1291.01-141-24.
	22. Parklex Façade F8 mm Exposed Fastener.
	23. Previously passed NFPA 285 EIFS system with channel adhesion or mechanical attachment to
	ArmorWall VP system.
	24. Steni 6 mm Stone Composite Panel.
	25. 5/16" Omnis Petrarch [Face Fastened (Exposed Fastener)].
	26. 10 mm Omnis Petrarch (Concealed Fastened) with two TenMat VFB firebreaks (Tmeter and 3
	meters above window) with 5/8" gypsum board flashing around the window (except sill).
Window Porimotor	Z7. IMOLA Techica-IT S Paneis.
Use either 1 2 3 4 or 5	1 Minimum 1/2" thick composite exterior sheathing MgO attached with 11/4" long Type S
03e entrier 1, 2, 3, 4, 01 3.	stainless steel screws, spaced max 2" from corners and max 12" OC to window studs to line
	window opening, covering full depth of exterior wall
	2 Minimum $1/2''$ thick composite exterior sheathing MgO attached with two ribbons of
	polyether adhesive running continous across entire span of window opening to line window
	opening covering depth of composite exterior insulated sheathing only leaving to find window
	exposed.
	3. When using steel stud walls, base wall window perimeter may be 20 GA C channel to line
	window perimeter of opening, covering depth of composite exterior insulated sheathing
	leaving no foam exposed.
	4. When using FRT stud walls, base wall window perimeter may be FRT to line window perimeter
	of opening, covering depth of composite exterior insulated sheathing leaving no foam
	exposed.
	5. When using concrete or CMU walls, steel or FRT framing may be added to wall window
	perimeter to line window perimeter of opening, covering depth of composite exterior
	insulated sheathing leaving no foam exposed.
Pre-panelized Construction	Panel Seaming
Use either 1 or 2.	1. Seams connecting two large prefabricated panels shall sandwich 2" depth of 4 pcf mineral
	wool. Then cover joint with maximum 6" wide seam tape.
	2. Seams connecting two large prefabricated panels shall install two continuous sealants
	consisting of noncombustible backer rod (such as 3M PM4) and sealed with Class A Silicone
	Building Sealant per ASTM E84.

For specific inquiries regarding any ArmorWall Brand products please contact Customer Service.

Company Address	1335 Litton Drive, Salisbury, North Carolina 28147
Website Address	www.armorwall.dupont.com
Toll Free Number	1-844-629-4968
Customer Service Email	ArmorWall.CustomerService@DuPont.com