

Arcoplast Composite Fiberglass Liner Panel - GFRMC 9.5mm

Product

Arcoplast GFRMC 5mm is a non-woven composite core substrate reinforced with fiberglass/resin with a high gloss gel coat finish that provides a smooth, hard, and non-porous finish for easy cleanability and virtually maintenance free finish.

Applications

Wall and Ceiling Systems requiring an ultra-lightweight, dimensionally large sanitary composite liner panel for cladding existing decayed surfaces and well suited for lining new wall and ceiling systems requiring minimum exposed panel joints.

Composition

Reinforcement – Chopped fiberglass strand.

Substrate – Polystyrene high strength core matrix.

Resin – Fire Rated Polyester resin system.

Surface Finish

High gloss Fire Rated gel coat creating a smooth, impermeable surface profile with excellent chemical and corrosion resistance.

PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	
FLEXURAL STRENGTH	ASTM - D790-15	2012.2 (PSI)
FLESURAL MODULUS	ASTM – D790-15	192900.8 (PSI)
TENSILE STRENGTH	ASTM – 638-14	4130 (PSI)
TENSILE MODULUS	ASTM – 638-14	24263.5 (PSI)
COMPRESSIVE STRENGTH	ASTM-D695.15	1156.0 (PSI)
COMPRESSIVE MODULUS	ASTM-D695-15	0.268 (Msi)
BARCOL TEST INDENTATION HARDNESS	ASTM-D2583.7	48.6

SURFACE PROPERTIES		
PROPERTY	TEST METHOD	
SPECULAR GLOSS TEST	ASTM- D 523	98.3
WATER VAPOR TRANSMISSION	ASTM -E 96-05	
WATER ABOSORPTION	ASTM – D 570 (2HRS)	30.9
RESISTANCE TO MOLD ON SURFACE	ASTM – D 3273	Resistant to Fungi

DEGREE OF SURFACE DISFIGUREMENT BY FUNGAL GROWTH	ASTM –D 3274	No Fungal Growth
RESISTANCE TO BACTERIA	ISO 8464-B-C	No Fungal / Bacteria

FIRE AND SMOKE DEVELOPMENT	
ASTM E-84 SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS	CLASS A – 25 FS – SD-450

BARRIER PERFORMANCE	
AIR PRESSURE DECAY TEST SMALL CHAMBER	PASS
AIR PRESSURE DECAY TEST ON ACCESSORIES RELATING TO MEP	PASS
AIR PRESSURE DECAY TEST ON SCREW PENETRATIONS	PASS
AIR PRESSURE DECAY TEST ON ELECTRICAL AND MONITORING FACE PLATES	PASS
AIR PRESSURE DECAY TEST ARCOPLAST cGMP WINDOW HOUSINGS	PASS

COLORATION FASTNESS	
COLORATION TEST ON FORMALDEHYDE GAS DECONTAMINATION PROCEDURE	PASS
COLORATION TEST ON HYDROGEN PEROXIDE VAPOR DECONTAMINATION PROCEDURE	PASS
COLORATION TEST ON CHLORICE DIOXIDE DECONTAMINATION PROCEDURE	PASS
ARCOPLAST SURFACE AND SEALANT CHEMICAL COMPATIBILITY TESTS ISO 2812-4	PASS
ARCOPLAST SURFACE AND SEALANT CHEMICAL COMPATIBILITY TESTS ASTM D-1308-02	PASS
ARCOPLAST CLEANABILITY AND STAIN RESISTANCE ISFA 2-01	PASS

		DESIGN PROPERTIES				
PRODUCT	SUBSTRATE	NOMINAL THICKNESS	NOMINAL WEIGHT	FINISH	MAXIMUM LENGTH	WIDTH
GFRMC 9.5mm	MCFR/ 2.74mm 108 mil	0.375" 9.5mm	1.4 lb./ft ² 6.1 kg/m ²	Smooth	Available up to 40'-0" (12. 2m)	108" (2.74m)

Specification: Arcoplast GFRMC 5mm Class A liner panels are manufactured to required width and lengths.

Dimensions: Width - 4'-0", 5'-0", 6'-0", 7'-0", 8'-0" and 9'-0"

Length – 40'-0"

Dimensions Tolerances: Width +/- 1/8" (3.2mm), Length +/- 1/8" (3.2mm)

Handling / Storage: Handle panels with care and limit panel sagging to prevent warping and gel coat fissures. Keep contents dry. Store indoors in a well-ventilated area on flat wooden skids. Panel Protector - Remove protective film prior to edge detailing.

Caution: Do not stack nor store any goods on the GFRMC panels and prevent foot traffic on stored panels.

Crating / Transportation: Standard width panels of 4'-0", 5'-0" and up to 16'-0" in length are crated and shipped on wooden crates.

Dimensionally large panels from 6'-0" up to 9'-0" in width and lengths of up to 40'-0" are bundled and shipped on flatbed trailers.