

Bio/CR-1B

GridLock® Panel (walls and ceilings)

General Description:

Bio/CR-1B panel system is part of the GridLock Biocontainment /Clean Room product line. The panels used in this system are 12 mm thick (.477") and are made of polymer, metal and fiberglass composite that form a durable composite panel. The exposed face is composed of a 090 FRP with a consistent smooth face (no fiberglass print through). The FRP surface finish is glossy and ASTM E 84 Class A for smoke and flame spread.

The panel will be supplied in standard 47" x 10' sizes. The vertical edge is square and is designed for direct fastening to the wall studs. The joint that results from butting the two square edges is filled with sealant and covered with a flat batten having the same surface characteristics as the panel face. The final surface is dense, stain resistant, chemical resistant and impervious to water. It is nongenerating for particulate matter and as such is ideal for animal holding, research laboratories and technical/pharmaceutical production spaces.

The Bio/CR-1B system is designed specifically as a biocontainment and clean room application that is applicable to several industries for both walls and ceilings. Further the ability to mount these panels directly on studs reduces construction time and eliminates painting or repainting. The panel system is applicable to ceilings as well mounting to either metal studs or hat channel.

Cleaning: GridLock Panels can withstand daily surface washing, wet wiping, dusting and vacuuming. They can withstand routine high-pressure washing and chemical disinfection and fumigation. The resinous finish will not support the growth of bacteria or mold. Ask your LSP Representative for more detailed maintenance instructions.

The panels have the following properties:

Recycle Content: Minimum 50%

Fire Rating: Class 1 ASTM E 84 for flame

spread of 25 or less

Light Reflectance @ 85: 94.3

Minimum Weight: 3.1 lbs. per square foot

Finish: Polyester gel coat smooth

Standard Sizes: 47" x 10' Panel thickness: 12 mm

Color: White Finish: Gloss

Hardness: ASTM D-785 46 Barcol

Flexural Mod ASTM D-790-07: 657,693 Flexural Strength-ASTM D 790-07: 6751

psi

Water Vapor Transmission ASTM E-96:

< 0.0001 perms

Air Permeance ASTM E-2178 (L/s/m²):

0.00001 @ 300 pa

STC Rating ASTM E-90: 32

Tensile Strength: ASTM D-638: 3672 psi

Tensile Mod ASTM D-638: 581,000

Coefficient of Linear Thermal Expansion CLTE (mm mm C) ASTM D-696: 4.30 E -

05

Compressive Strength ASTM D- 695:

5364 psi

Modulus: ASTM D695: 49,873

psi

Chemical Resistance 20% Acetic Acid Occasional Spill

50% Citric Acid Good

20% Nitric AcidOccasional Spill30% Hydrochloric AcidOccasional Spill10% Hydrofluoric AcidOccasional Spill

Hydrogen Peroxide Good 40% Potassium Good Hydroxide Good 40% Sodium Hydroxide Good 50% Sulfuric Acid Good

Urea

The joint adhesive/sealant has the following properties:

Hardness Shore D ASTM D-1706 70 - 80

Tensile Strength ASTM D-638 3,000 psi min. Flexural Strength ASTM D-790 4,000 psi min.

Thermal Shock Mil F-52505 No cracking or loss of

adhesion

Abrasion Resistance ASTM D-4060 .035 gm loss

(Taber Abrader, CS-17 Wheels, 1000 gm. load,

1000 cycles)

Ultimate Elongation ASTM D-638 20% min.

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