



Bio/CR-11

Seamless Wall Panel System



Life Science Products

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Bio/CR-11 Designed for Demanding Environments

- ✓ High Moisture
- ✓ High Temperatures
- ✓ High Traffic
- ✓ Thermal Shock



Bio/CR-11 Features

- Smooth High Gloss Face
- Highly Chemical Resistant
- Easy to Clean
- Exceptional Impact Resistance
- Impervious to Moisture
- Class "A" Fire-Rated
- Installs over Gypsum or Directly to Studs in Wet Environments
- The Bio/CR-11 "Wall System" provides a Sealed and Seamless Barrier Membrane for your Containment and Clean Room Requirements.
- LEED Information – Over 50% Recycled Materials
- Made and Assembled in USA

Bio/CR-11 General Description

The Bio/CR-11, Wall Panel System, is part of the LSP Bio-Containment/Clean Room product line. The composite panels are 9mm thick. The smooth, white face is a Glass Reinforced Thermoset Polyester Resin. The gloss white face is backed by multiple layers of aluminum and plastic polymers, to provide a robust, balanced, and rigid composite panel system. The Bio/CR-11 is available in 4'x 8', 4'x 9', and 4'x 10' sizes. The panel surface is Class "A" Fire Rated per the ASTM E-84 test. Edges are generally routed and sealed using a 100% solids, LEED compliant, gloss finish urethane compound, resulting in a seamless installed system. The smooth white surface is impervious to moisture and highly resistant to stains, chemicals, and impact. It can withstand high-pressure washing, chemical disinfection, and fumigation. The ability to mount the Bio/CR-11 directly to studs reduces construction time and eliminates the use of moisture sensitive materials. It renders coatings and paintings a thing of the past. The Bio/CR-11 can also be used as a ceiling panel in a "hard lid" ceiling application.

Bio/CR-11 Physical Properties

Color: White **Finish:** Gloss

Panel Thickness: 9mm (approximately 3/8")

Fire Rating: Class "A" (1), per ASTM E-84

Weight: 2.7 pounds per square foot

Hardness: ASTM D2583 – 85 Barcol

Compressive Strength: ASTM D695 – 4,790 PSI

Modulus of Elasticity: ASTM D695- 248,200 PSI

Flexural Strength: ASTM D790 – 8.240 PSI

Flexural Modulus: ASTM D790 – 877,800 PSI

Coefficient of Linear Expansion: ASTM D696 – 1.63 (E-05)

Tensile Modulus of Elasticity: ASTM D638 – 283,000 PSI

Tensile Strength: ASTM D638 – 5,398 PSI

Water Vapor Transmission: ASTM E96 - 0.0005 g/(h*m2)

Water Vapor Permeance: ASTM E96 - 0.049 perms

Air Permeance: ASTM E2178 - 0.000000 L/(Pa*m2*s)

Surface Chemical Resistance

Acetic Acid - Excellent
Acetone - Good
Benzene - Good
Citric Acid (10%) - Excellent
Chlorine/Water - Excellent
Hydrofluoric Acid (10%) - Good
Hydrogen Peroxide (28%) - Excellent
Mineral Spirits - Excellent
Nitric Acid (40%) - Excellent
Potassium Chloride - Excellent
Propyl Alcohol - Excellent
Sodium Chloride (10%) - Excellent
Sodium Hydroxide (10%) - Excellent
Sodium Hypochlorite (5%) - Excellent
Vaporous Hydrogen Peroxide (VHP) - Excellent
Standard Soap Solution - Excellent
Sulfuric Acid (30%) - Good
Urea - Good

Excellent = No Surface Effect. No Yellowing

Good = Slight Change to Surface Opacity. No Yellowing

Correlation of test results with actual performance is dependent upon the similarity between testing and in use conditions. LSP recommends you test our surface in your specific conditions before use of any chemical cleaning agent. Always follow manufacturer instructions for use procedures and removal of chemical agents.



The following test results were self-performed by LSP on common commercial chemicals used in the Bio-Medical research industry.

Beta-Dyne - Good
Denatured Alcohol - Excellent
Hydroxy Acetic Acid - Excellent
Phosphoric Acid - Good
Potassium Hydroxide - Excellent
Sodium Hypochlorite Alkaline - Excellent

The facts stated herein are based on our own research and the research of others and are believed to be accurate. No guaranty of their accuracy is made, however, and unless otherwise expressly provided in written contract, the products discussed are sold without conditions or warranties, express or implied. Clients should perform their own tests to determine the suitability of our products for their particular purposes. Nothing contained herein shall be construed to be a recommendation for use.



Limited 10 Year Warranty

The Bio/CR-11 "Wall System" has a limited 10 year warranty if installed by Certified LSP Installers or LSP Certified Training is provided to non-certified installers. Otherwise panels are warrantied for 2 years against manufacturing defects.

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