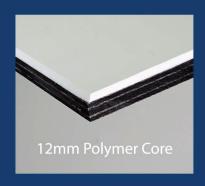
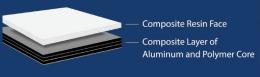


## Bio/CR-3

# Seamless Wall Panel System









#### Life Science Products

124 Speer Road, Chestertown, MD 21620 www.lspinc.com | 800-638-9874 | info@lspinc.com

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### **Proven Panel Solution**

for

Biomedical & Pharma *High Moisture & High Tempurature* 

**Environments** 



#### **Bio/CR-3 Features**

- Exceptional Impact Resistance and Impervious to Moisture
- Smooth High Gloss Face
- Highly Chemical Resistant
- Class "A" Fire-Rated
- Easy to Clean
- Installing Directly to Studs saves Time, Money and Eliminates Moisture Absorbing Gypsum
- The Bio/CR-3 "Wall System" provides a Sealed and Seamless Bio-Containment and Moisture Barrier
- LEED Information
  Over 50% Recycled Materials
- Made & Assembled in the U.S.A.

#### **Bio/CR-3 General Description**

The Bio/CR-3 Wall Panel System is part of the LSP Bio-Containment/Clean Room product line. The composite panels are 12mm thick and made of an aggregate of a glass reinforced, High Gloss, Thermoset Polyester Resin Face, over multiple layers of aluminum and plastic polymers to provide a rigid and structurally sound composite. Panels are available in 4'x 8', 4'x9', 4'x10' sizes. The panel surface is Class "A" (1) Fire Rated per the ASTM E-84 test. Edges are generally routed and sealed using 100% solids, LEED-compliant gloss finish urethane compound, resulting in a seamless installed wall system. The smooth white surface and the entire composite panel are impervious to water and staining. The panels are both highly chemical and impact resistant. The ability to mount the Bio/CR-3 directly to studs reduces construction time, eliminates the use of moisture-sensitive materials, and renders the need for coatings or paint a thing of the past. The Bio/CR-3 can also be used as a ceiling panel in a "hard lid" ceiling application.

#### **Bio/CR-3 Physical Properties**

Color: White Finish: Gloss

Panel Thickness: 12mm (approximately 1/2")

Edges: Routed for consistent joint width Fire Rating: Class "A" (1) per ASTM E-84

Weight: 3.7 pounds per square foot Hardness: ASTM D2583 - 86 Barcol

Flexural Strength: ASTM D790 - 8,300 PSI

Flexural Modulus of Elasticity: ASTM D790 - 807,000 PSI

Modulus of Elasticity: ASTM D695-284,200 PSI Compressive Strength: ASTM D695 - 5,916 PSI

**Coefficient of Linear Expansion:** ASTM D696 – 1.68(E-05) Tensile Modulus of Elasticity: ASTM D638 - 241,400 PSI

Tensile Strength: ASTM D638 - 5,070 PSI

Water Vapor Permeance: ASTM E96 - 0.023 perms

Water Vapor Transmission: ASTM E96 - 0.0080 g/(24hr\*M2)

**Air Permeance:** ASTM E2178 - 0.000002 L/(Pa\*m2\*s) STC Rating: ASTM E90-61 (as part of LSP STC Wall)

#### **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 inuse 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 VHP = Vaporized Hydrogen Peroxide - Excellent

The facts stated herein are based on our own research and the research of others and are believed to be accurate. No quaranty 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-3 "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.

Life Science Products have been in demand by these and other highly respected institutions:

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