DIVISION _____

Specification Section # _____

GRIDLOCK BIOCR-3B FPM BATTEN WALL SYSTEM

PART 1 GENERAL

Furnish and install the GridLock BioCR-3B Wall System as described in this Section. Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specifications apply to work in this section.

1.1 RELATED WORK: (NOTE TO SPECIFIER: Include appropriate detail drawings and information pertinent to the specific project.)

1.2 SUBMITTALS

1.2.1 Submit #_____ samples of the materials to be used to show corner and joining details as well as final panel finish.

1.2.2 All parties wishing to have materials considered as equals for this project must submit such materials for evaluation to the design professional at least 10 (ten) days prior to bid date. Bidders not complying with this requirement will be considered non-responsive.

1.3 QUALITY ASSURANCE

1.3.1 Provide Single Source responsibility for the supply of all wall finish materials used in the installation.

1.3.2 A Contractor approved by Manufacturer must perform installation.

1.4 DELIVERY, HANDLING AND STORAGE

1.4.1 Deliver materials packaged so that materials are clearly marked and identifiable showing the following:

A) Product Name
B) Manufacturer's Name
C) Component Designation

1.4.2 Handle Materials by methods to prevent damage

1.4.3 Inspect direct job-site deliveries to assure that quantities are correct and that materials comply with specifications and are not damaged.

1.4.4 Replace, at no cost to owners, materials that are found defective either in manufacture, handling or storage.

1.4.5 Store materials on site at the final installation temperature for at least 24 hours prior to, during, and after installation.

1.5 WARRANTY

1.5.1 Provide a 2-year warranty for materials and installation against any defects in manufacturing and workmanship.

1.6 JOB CONDITIONS

1.6.1 A Representative of the Manufacturer shall visit the job-site with the Contractor prior to installation to insure that field conditions are acceptable for installation.

1.6.2 For 24 hours before, during the installation, and for 72 hours after the installation, maintain temperature and relative humidity at in-service conditions.

PART 2 PRODUCTS

For the purposes of this specification, GridLock BioCR-3B Wall System by Life Science Products, Inc. (800-638-9874) is used as the standard.

2.1 MATERIALS

2.1.1 System Overview: The wall system as specified shall consist of wall panels and components manufactured from materials having physical properties as specified in Section 2.1.3 below. Panels shall have a gloss finish.

2.1.2 Panels: The panels used in this system shall be GridLock FPM Composite wall panels. The panels will be an aggregate of components made of polymer, metal and fiberglass composite that form a durable composite wall panel. The panel is composed of a central core of polyethylene sandwiched between two layers of poly/metal isolation sheeting. The exposed face is composed of an 090 FRP with a smooth face (no fiberglass print through). The FRP surface finish is glossy and ASTM E 84 Fire Rated. The panel will be supplied in standard 47" x 8' or 47" x 10 'sizes.

2.1.3 The panels shall have the following properties:

Fire Rating: **Class 1 ASTM E 84 for flame spread of 25 or less**
Light Reflectance @ 85: **94.3**
Minimum Weight: **3.0 lbs. per square foot**
Finish: **Polyester gel coat smooth**
Standard Sizes: **4' X 8' and 4' x 10'**

Panel thickness: **7/16"**
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/m^2): **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**: 9493 psi**
Modulus: ASTM D695**: 49,873 psi**

PART 3 EXECUTION

3.0.1 Check with the panel manufacturer before installing the metal studs to redetermine the stud spacing within the wall. Install metal wall studs in accordance with local applicable zoning and building codes.

3.0.2 Apply adhesive of type recommended by Manufacturer to stud surfaces prior to installation of the panel. Follow Manufacturers recommendations for application and “open times” of the adhesive. If panels are to be installed over Gyp products, the gyp surface shall be in paint ready condition. Apply adhesive to the gyp surface and secure panels as described below.

3.0.3 Panels are to be mounted against the studs and held in place until perimeter of the panel can be mechanically fastened. Use mechanical means to secure the top, bottom and side edges of the panels to the structural members.

3.0.4 If necessary, apply pressure to the center of the panel using a weighted lever until adhesive cures.

3.0.5 Apply a flat fiberglass batten to the vertical seams between panels with a silicone adhesive as recommended by manufacturer to a plane that will fill the joint flush with the adjacent panel surface and spread to serve as an adhesive for the batten. Once secured use the same adhesive caulk to seal the batten edges.

3.0.6 Inside corner moldings shall be a 3 inch radius plastic molding and outside corners moldings shall be 16 gauge, 304 stainless steel corner guards with 1/8” radius and 3“ wings. Corner moldings shall be adhesive mounted.

3.0.7 The ceiling wall angle and flooring cove base will cover top and bottom screw lines respectively.