

DIVISION _____

Specification Section # _____

GRIDLOCK ULTRA CLEAN I CEILING SYSTEM

PART 1 GENERAL

Furnish and install the GridLock Ultra Clean I Ceiling 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 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 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.

Life Science Products, Inc. Technical Specification
Gridlock Ultra Clean I Ceiling Specification

PART 2 PRODUCTS

For the purposes of this specification, GridLock Ultra Clean I Ceiling System by Life Science Products, Inc. (800-638-9874) is used as the standard.

2.1 MATERIALS

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

2.1.2 Panels: The panels shall be a Composite Fiberglass panel with a high gloss finish free of surface imperfections and with no fiberglass print through. The face of the panel shall be Class 1 fire rated Halogenated Polyester resins mounted on a composite fiber backing. The final thickness of the panel shall be 9 mm. The system is designed to be mounted in gyp or other board substrates, do not attempt to mount directly to studs. At mounting, leave a gauged 1/8" space between the panels. Once the panel adhesive is cured, mask the edges and fill the joint with 100% solids urethane caulk and strike smooth. Remove masking before sealant sets up. This process may need to be repeated one more time to assure an smooth joint.

Inside corners shall be made of the urethane sealant with a 1/2" radius. Outside corner moldings shall be 16 gauge, 304 stainless steel corner guards with 1/8" radius and 3" wings. Stainless corner moldings shall be adhesive mounted.

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: **2.0 lbs. per square foot**

Finish: **Polyester gel coat : smooth with no through print**

Standard Sizes: **4' X 8' and 4' x 10' (Panels can be cut to custom sizing if required)**

Panel thickness: **9 mm**

Hardness: **46 Barcol**

Color: **White**

Finish: **Gloss**

PART 3 EXECUTION

3.0.1 Install metal studs at 16" centers in accordance with local applicable zoning and building codes.

3.0.2 Apply adhesive of type recommended by Manufacturer to ceiling surfaces prior to installation of the panel. Follow Manufacturers recommendations for application and "open times" of the adhesive. The ceiling surface shall be in paint ready condition. Apply adhesive to the surface and secure panels as described below.

3.0.3 Panels are to be mounted against the substrate and held in place until the adhesive cures.

3.0.4 Mask the edges of the panel with protective tape recommended by the manufacturer, strike the joint flush and remove the protective tape. Check the joint for a flush finish and if needed repeat this step again.

3.0.5 Apply the stainless steel corner guards to the outside corners, adhesive mount.