GORDON
CLEANROOM PRODUCTS DIVISION

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AN EMPLOYEE OWNED COMPANY

Model DS-20 2" Gasketed Grid Product Specification
Division 13 21 13

PART 1: GENERAL

1.1 RELATED DOCUMENTS

A. Drawings, General and Supplementary Conditions and Division 1 apply to Work specified in this section.

1.2 DESCRIPTION OF WORK

A. Furnish and install extruded aluminum suspended model DS Gasket-Seal cleanroom ceiling grid system as manufactured by Gordon Cleanroom Products and as indicated on drawings, including notes and details.

1.3 WORK INCLUDED

A. Work on this Section includes the installation of the cleanroom ceiling grid system including but not necessarily limited to the following:

1. Aluminum ceiling grid: As specified in this Section.
2. Blank ceiling panels: As specified in this Section
3. Gasket: As specified in this Section.
4. Threaded rod and turnbuckle: As specified in this Section.
5. Sealing of all penetrations including sprinklers, electrical conduit, etc.

1.4 RELATED WORK

A. Intermediate steel framing: As specified in Division 5.

B. Air Filter Systems and Equipment: As specified in Division 15.

C. Lay-in and/or surface mounted light fixtures: As specified in division 16

1.5 PERFORMANCE

A. Completed ceiling system shall be capable of providing Cleanroom Classification Rating as required and indicated for area installed.

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PART 2: PRODUCT

2.1 ACCEPTABLE MANUFACTURER

A. Gordon, Inc. “DS Gasket Seal Grid”

2.2 CEILING SUPPORT MATERIALS AND SYSTEMS

A. DS-20 2” GASKET-SEAL CEILING GRID AND SUSPENSION

1. DS- 20 Gasket Seal Grid – The grid system shall be manufactured of 2” extruded aluminum alloy 6063, temper T5 with a 204-R1 etched and clear anodized finish, as specified. Grid profile shall have a continuous integral screw boss within the web for attachment of intersection connectors at any point along the grid members, and to facilitate ease of field installation. Cross tees to have square cut ends to create a fully non-progressive installation.

2. Gasket – The gasket tape shall be ¼-inch thick x 5/8-inch wide black, low off-gassing closed cell PVC. The gaskets shall be factory-applied, with precision cut ends, extended on grid members to ensure an airtight seal at all intersections.

3. Suspension system

   a. Model G-20 grid connectors – Standard duty zinc plated, 14 gauge steel connectors shall be used at grid intersections and to suspend the grid system via ¼-20 threaded rods. ¼-20 phillips drive button head cap screws are used to fasten the connectors to the extruded aluminum grid members.

   b. ¼-20 Threaded Starter Rod and Turnbuckle– ASTM rated LH/RH, 9” long, zinc plated, ¼” – 20 threaded rod and 4” body zinc plated steel turnbuckle spaced at 48” centers or as required.

4. Ceiling system should be level overall within 0.10” and shall be level within 0.062” in 10’-0”.

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PART 3: INSTALLATION

3.1 DS GRID INSTALLATION

A. Wall Angle Installation

1. Position wall angle at proper ceiling height on center of wall using laser leveling tool and attach with fasteners appropriate for existing wall type. Continue installing toward the corners and then around the room until complete. Corner can be field cut with a power miter saw using a carbide tipped blade. All joints must fit tight with no gaps.

B. Grid Installation

1. Position main tees at 48” or 48 ½”, or as required, perpendicular to wall angle taking care to align notches on main tee with notches on wall angle. Attach threaded rod previously hung by others from steel structure to turnbuckle and rod attached to connectors on grid.

2. Level entire ceiling to within 0.10” overall and/or 0.06” in any 10’ length.

3. Brace grid for seismic conditions when required by local code. Install in accordance with UBC Standard No.47.18 and ICBO No 1461 for aluminum grid.

4. Peel backing off overhanging ends on gasket tapes and carefully affix to the grid member across the intersection seam and compressing into the gasket tape on the main runner. A tight fitting gasket intersection will assure the most airtight seal.

3.2 INSTALLATION GENERAL

A. Coordinate all work with other trades to be performed in or on ceiling system including light fixtures, HVAC equipment, sprinkler systems and wall partition systems.