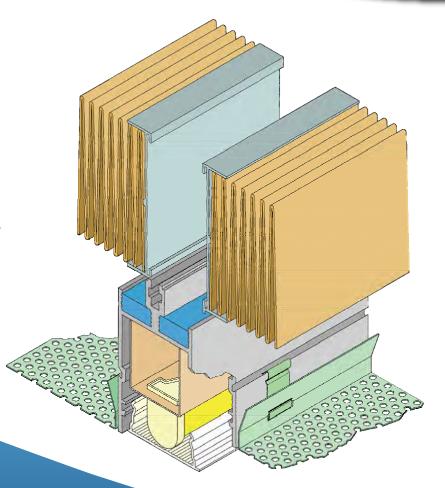




TOP LOAD POWDER COATED
EXTRUDED ALUMINUM
FLUSH CEILING GRID SYSTEM

#### **FEATURES:**

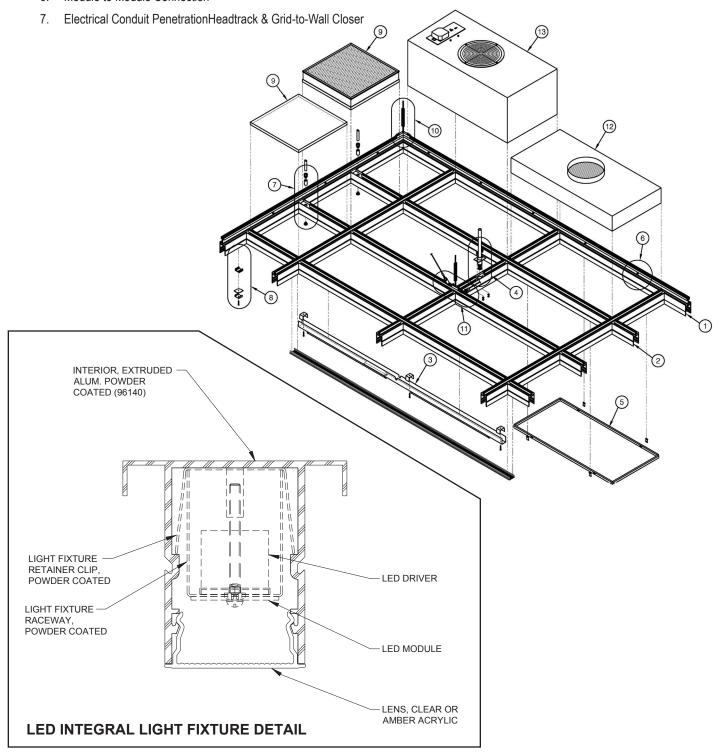
- Laminar flow air distribution technology
- MERV 14, HEPA and ULPA filter options
- 2.5" Flush Ceiling Grid System with integrated lighting (T5, T8, LED)
- Factory welded grid modules are manufactured in sizes up to 8ft x 24ft
- Grid-to-grid connections have pre-machined bolt holes for ease of installation
- Grid modules have integrated fire protection
- Top Load with GEL seal integrated into the grid frame
- Bottom 'Snap-In' Flush Face Screen that aerodynamically evens the airflow under the grid modules
- Grid is a proven product with over 1 Million square feet installed
- Installation takes a fraction of the time, manpower, and cost of conventional stick-built systems
- Fall protection hardware available
- Seismic bracing available
- Ducted Filters and Fan Filter Units available





- 1. Perimeter Grid 91249 Extruded Aluminum
- 2. Interior Grid 91229 Extruded Aluminum
- 3. Integral Light Fixture, Ballast, Wire Separator,
- 4. Fixture Clips Sprinkler Penetration
- 5. Face Screen and Clips
- 6. Module to Module Connection

- 8. HEPA/ULPA Filter and Blank Pan
- 9. Corner Suspension Hanger
- 10. Interior Intersection Hanger and Seismic
- 11. Bracing Ducted Filter Module
- 12. Fan Filter Unit (FFU)

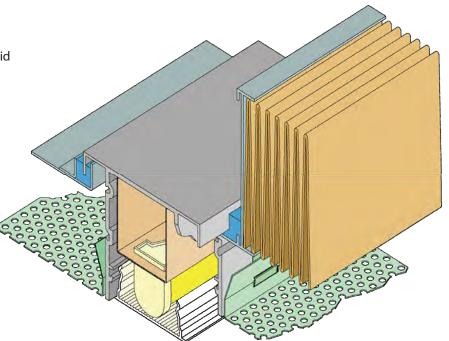




## BOTTOM LOAD POWDER COATED EXTRUDED ALUMINUM FLUSH CEILING GRID SYSTEM

### **FEATURES:**

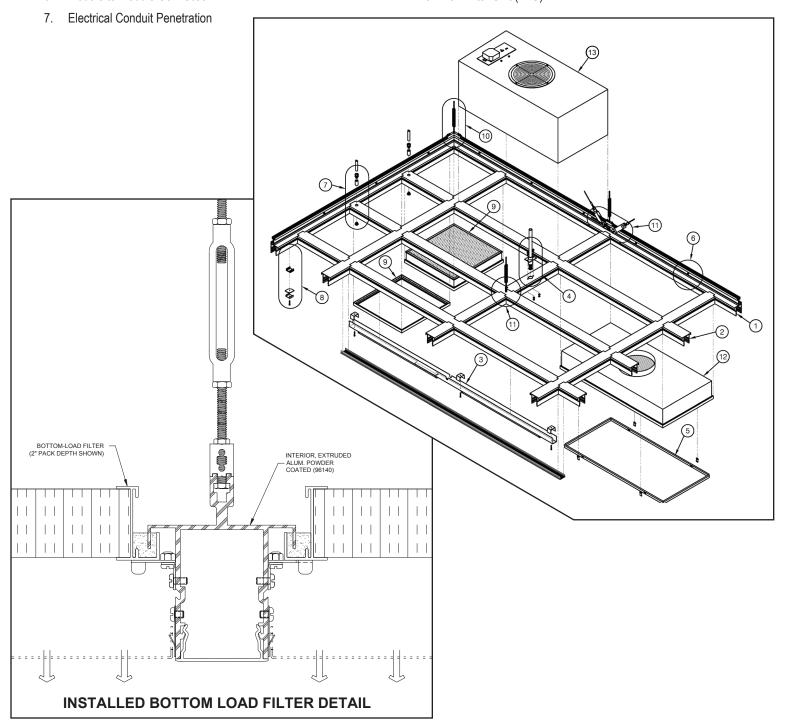
- Laminar flow air distribution technology
- MERV 14, HEPA and ULPA filter options
- 2.5" Flush Ceiling Grid System with integrated lighting (T5, T8, LED)
- Factory welded grid modules are manufactured in sizes up to 8ft x 24ft
- Grid-to-grid connections have pre-machined bolt holes for ease of installation
- Grid modules have integrated fire protection
- Bottom Load filters with integrated GEL seal
- Bottom 'Snap-In' Flush Face Screen that aerodynamically evens the airflow under the grid modules
- Grid is a proven product with over 1 Million square feet installed
- Installation takes a fraction of the time, manpower, and cost of conventional stick-built systems
- Fall protection hardware available
- Head Track connections available
- Seismic bracing available
- Ducted Filters and Fan Filter Units available





- 1. Perimeter Grid 96141 Extruded Aluminum
- 2. Interior Grid 96140 Extruded Aluminum
- 3. Integral Light Fixture, Ballast, Wire Separator, Fixture Clips
- 4. Sprinkler Penetration Detail
- 5. Face Screen and Clips
- 6. Module to Module Connection

- 8. Headtrack & Grid-to-Wall Closer
- 9. HEPA/ULPA Filter and Blank Pan
- 10. Corner Suspension Hanger
- 11. Interior Intersection Hanger and Seismic Bracing
- 12. Ducted Filter Module
- 13. Fan Filter Unit (FFU)

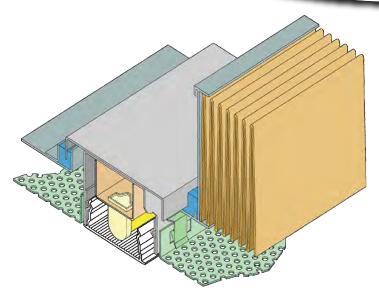




# BOTTOM LOAD STAINLESS STEEL FLUSH CEILING GRID SYSTEM

#### **FEATURES:**

- Laminar flow air distribution technology
- MERV 14, HEPA and ULPA filter options
- 2.5" Flush Ceiling Grid System with integrated lighting (T5, T8, LED)
- Factory welded grid modules are manufactured in sizes up to 8ft x 24ft
- Grid-to-grid connections have pre-machined bolt holes for ease of installation
- Stainless steel grid modules are constructed from 304 or 316 grade material
- Grid modules have integrated fire protection
- Bottom load filters with integrated GEL seal
- Bottom 'Snap-In' Flush Face Screen that aerodynamically evens the airflow under the grid modules
- Grid is a proven product with over 1 Million square feet installed
- Installation takes a fraction of the time, manpower, and cost of conventional stick-built systems
- Head Track connections available
- Seismic bracing available

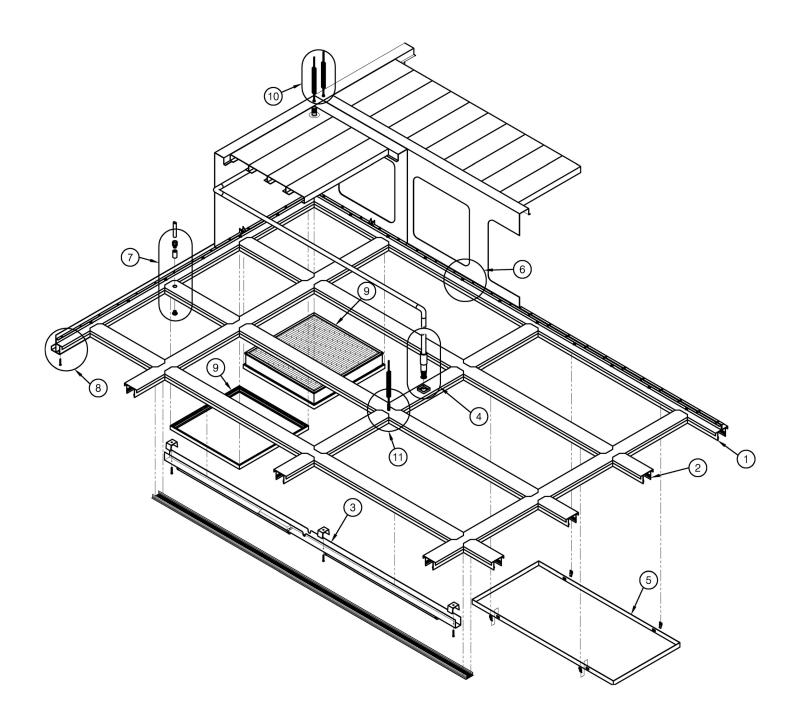






- 1. Perimeter Grid Stainless Steel
- 2. Interior Grid Stainless Steel
- 3. Integral Light Fixture, Ballast, Wire Separator, Fixture Clips
- 4. Sprinkler Penetration Detail
- 5. Face Screen and Clips
- 6. Module to Module Connection

- 7. Electrical Conduit Penetration
- 8. Grid-Wall Connection Detail
- 9. HEPA/ULPA Filter and Blank Pan
- 10. Corner Connection Hanger
- 11. Interior Intersection Hanger





### PLENUM MODULES FLUSH CEILING GRID SYSTEM

### **FEATURES:**

- Plenum modules provide direct support for recirculation air handlers
- Plenum modules eliminate the need for field built plenums
- Plenum modules reduce pressure drop within the cleanroom ceiling system
- Modules can be manufactured with shared air openings to balance air flow to adjacent plenums
- Plenum modules can be attached to either top load, bottom load, or stainless steel flush grid systems
- Plenum-to-plenum connections have pre-punched bolt holes for ease of installation
- Plenum modules are suspended from existing structure or a custom floor mounted structure can be provided
- Plenum modules have integrated fire protection
- · Plenum modules have integrated electrical wiring
- Modules are available in sizes up to 8ft x 24ft



TOP OF PLENUM MODULE SHOWN WITH DIFFUSION SCREEN AND STAINLESS GRID

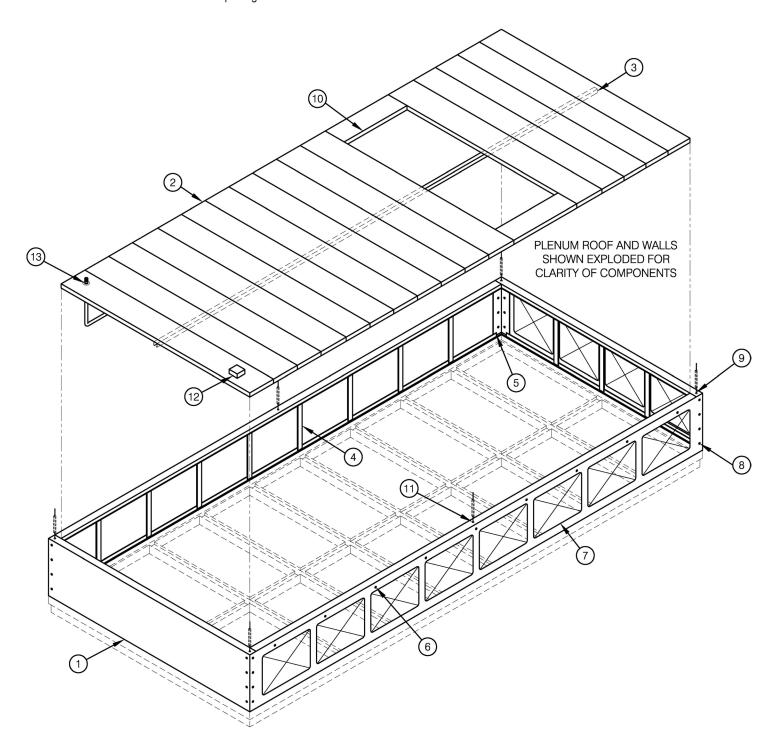


BOTTOM FACE OF PLENUM MODULE SHOWN WITH SPRINKLER AND LIGHTS



- 1. Plenum Side and End Wall
- 2. Plenum Roof Panels
- 3. Reinforcement for Roof Support and Leveling Grid Below
- 4. Verital Plenum Stiffeners
- 5. Corner Connection Angle
- 6. Module to Module Connection
- 7. Module to Module Shared Air Opening

- Module to Module Connection or Structural Column Support Point
- 9. Plenum Supply Air Opening
- 10. Mid-Span Suspension Point
- 11. Electrical Junction Box
- 12. Sprinkler Drop Penetration





### FAN POWERED PLENUM MODULES FLUSH CEILING GRID SYSTEM

### **FEATURES:**

- Fan powered plenums are ideal for retrofits with no space available for recirculation air handlers
- Provides great redundancy in the system
- Available with complete control system, controlled by a PC with interface to building management systems
- Wall Mount Fan Controller can control up to 200 fan and motor assemblies
- Available with handheld controller to individually set and control each fan/motor assembly
- Plenum modules eliminate the need for field built plenums
- Modules can be manufactured with shared air openings to balance air flow to adjacent plenums
- Plenum modules are suspended from existing structure or a custom floor mounted structure can be provided
- Plenum modules have integrated fire protection
- Plenum modules have integrated electrical wiring
- Modules are available in sizes up to 8ft x 24ft



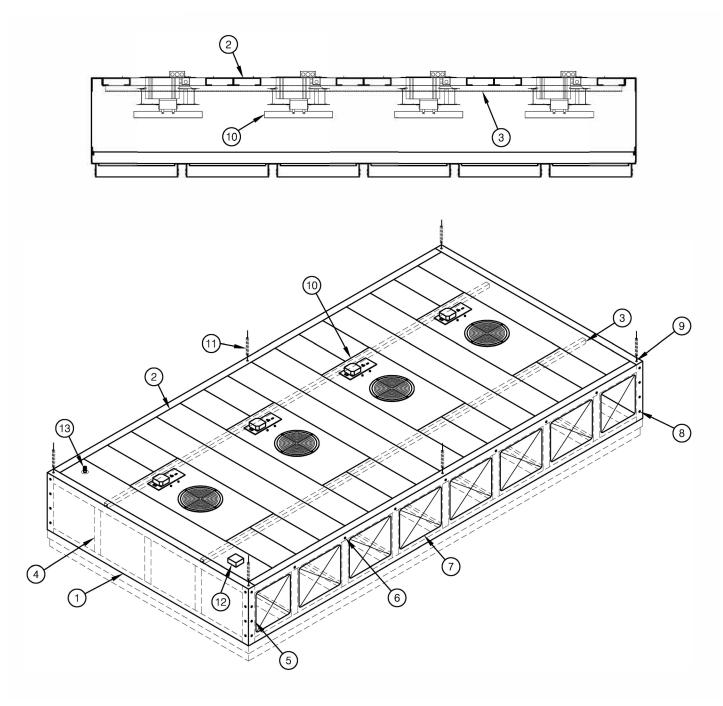


INSIDE FAN POWERED PLENUM MODULE



- 1. Plenum Side and End Wall
- 2. Plenum Roof Panels
- 3. Reinforcement for Roof Support and Leveling Grid Below
- 4. Verital Plenum Stiffeners
- 5. Corner Connection Angle
- 6. Module to Module Connection
- 7. Module to Module Shared Air Opening

- Module to Module Connection or Structural Column Support Point
- 9. Corner Suspension Point
- 10. TPA Fan Powered Plenum
- 11. Mid-Span Suspension Point
- 12. Electrical Junction Box
- 13. Sprinkler Drop Penetration







### **FLUSH CEILING GRID SYSTEMS**

Top Load extruded aluminum ceiling grid system Bottom Load extruded aluminum ceiling grid system Bottom Load stainless steel ceiling grid system

### **PLENUM MODULES**

Plenum Modules with integrated lighting, fire protection and filtration systems Fan Powered Plenum Modules with integrated custom control systems

### AIR HANDLERS BY THERMAL CORPORATION

Recirculation Air Handlers with Direct Drive fans Custom Make-up Air Handlers.

### LAMINAR FLOW AND RADIAL PATTERN HOSPITAL/CLEANROOM DIFFUSERS

Aluminum and Stainless Steel Models Steri-System OR Air Curtain Systems



