



LOCKDOWN[®]

Security Ceiling

Installation Instructions

GORDON
ARCHITECTURAL+ENGINEERED SOLUTIONS



PART 1 - STORAGE AND HANDLING

1. After receiving materials, transfer material immediately to a safe, dry, climate-controlled place where it will not be damaged during storage.
 - a. Do not store Gordon, Inc. product or components outdoors.
 - b. Store Crates and / or Cartons flat in a dry location away from activity.
 - c. Do not store near corrosive material such as acids, salt, fertilizer, etc.
 - d. All materials should be protected during site storage to prevent damage to the finished work from other trades.
 - e. Store materials inside a well-insulated area, away from concrete and masonry and protected from the weather, moisture, soiling, abrasion, extreme temperatures and humidity.
 - f. Protect the strippable protective covering on metal panels from exposure to sunlight, heat, and high humidity.
 - g. Store product in Gordon's unopened packaging until installation of product.
 - h. Prevent contact with material that may cause discoloration, staining, or corrosion.
 - i. Store in flat, fully supported position.
 - j. Store to prevent twisting, bending, abrasion, scratching, and denting.
 - k. Do not drop or stand containers on edges or corners.
 - l. Gordon, Inc. components and systems are not packaged to receive the load of any other material stored or stacked upon it. Therefore, **DO NOT DOUBLE STACK OR STORE OTHER MATERIAL** on top of the packages or crates.
2. Inspect all material prior to installation. Do not install any substandard or unacceptable material. Gordon, Inc. will not be responsible for the cost of repair or removal, or costs resulting from removal of rejected material, or the installation of replacement material.
3. Material should be cleaned thoroughly prior to installation.

PART 2 - INSTALLATION

Lockdown® shall be installed in accordance with Codes and standards listed below.

2.01 - APPLICABLE CODES AND STANDARDS FOR INSTALLATION

1. Project specifications
2. Architect approved Shop Drawings
3. American Society for Testing and Materials (ASTM)
 - ASTM C-636: Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Ceilings
4. Ceilings and Interior Systems Construction Association (CISCA)
 - Ceiling Systems Handbook

2.02 - SPECIAL TOOLS REQUIRED

LOCKDOWN® Security Acoustical Ceiling can be cut with the use of the following tools:

- Industrial use circular saw with metal cutting wheel
- “Port-a-band” saw
- Plasma cutter
- 11-16 Gauge hand-held nibblers
- 11-16 Gauge hand-held shears

2.03 - INSTALLATION SEQUENCE

Step 1:

Install Perimeter Channel at the required elevation. Use fasteners specified in the project Shop Drawings. If a specification is not provided, use fasteners appropriate for the construction materials. Fastener spacing should be a maximum of 16” O.C. and miter or butt all perimeter sections at corners. Do not overlap.



Step 2:

Lay out the Suspension Grid as detailed on the Reflected Ceiling Plan. Where no Plan is provided, arrange the Grid so that the Perimeter Panels will be equal in width on opposite sides of the space, and greater than one half the Panel dimensions.

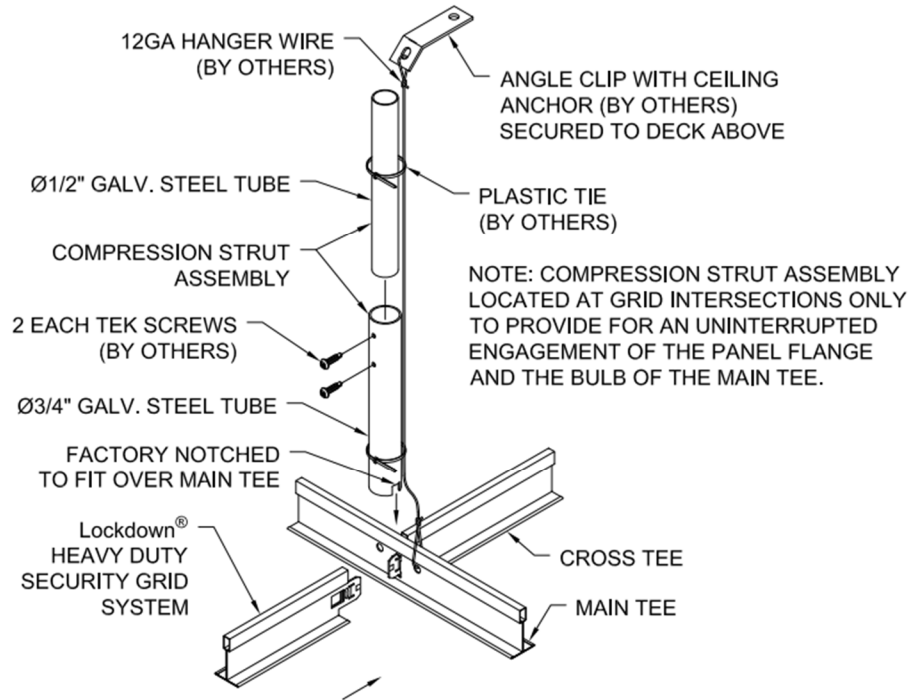
Step 3:

Connect all hanger wire with Compression Strut Assembly 4’ O.C. along the Main Tee at the intersection of the Cross Tee members. Hanger wire shall be 12 Gauge wire. This hanger location provides for an uninterrupted engagement of the tile flange and the bulb of the Main Tee. Complete the Suspension System work by installing 2’ Cross Tees to complete the 2’ X 2’ or 2’ X 4’ module. Cut the Grid at ends to fit under the Perimeter Channel.

Step 4:

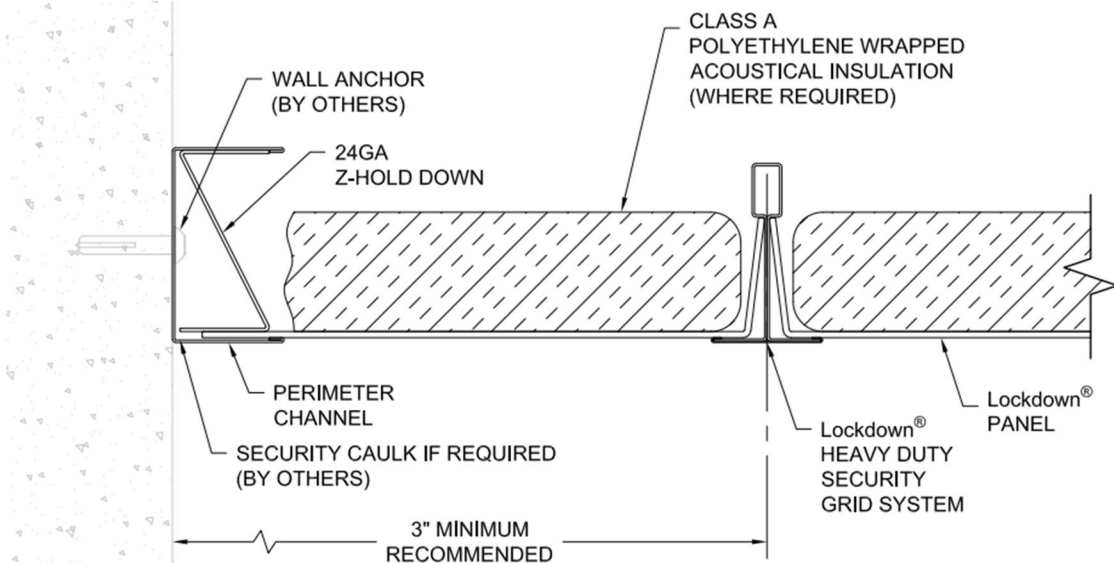
Compression Struts consist of two (2) telescoping sections of steel tubing. Measure the distance from the top of the Main Tee to the bottom of the structure directly above. Cut the smaller diameter tube to 1” to 6” smaller than that distance. Extend these tubes so that the top end of the smaller diameter tube is firmly contacting the overhead structure, and the notch on the larger diameter tube rests over the top bulb of the Main Tee. Insert two (2) self-drilling screws through the pilot holes provided in the larger tube and drill through the smaller diameter tube to lock the Struts in place. Secure the Struts to the

Suspension wire with plastic wire ties. Position the ties such that they lay within the twist of the Suspension wires so that the ties do not slide down the Strut. **Note:** The suggested spacing of the Hanger Wire and Compression Struts is 48" O.C. However, due to common ceiling obstructions, the Hangers/Struts may be moved within reason or trapezoided to accommodate equipment. If the Ceiling System cannot be pushed upward, the Struts are doing their job.



Step 5:

24 Gauge Z Hold Down Clips will be installed into each Panel adjacent to the Perimeter Channel as work progresses. Push or tap the Z into the Perimeter Channel until the Z-Hold Down Clip is fully engaged in the Channel.



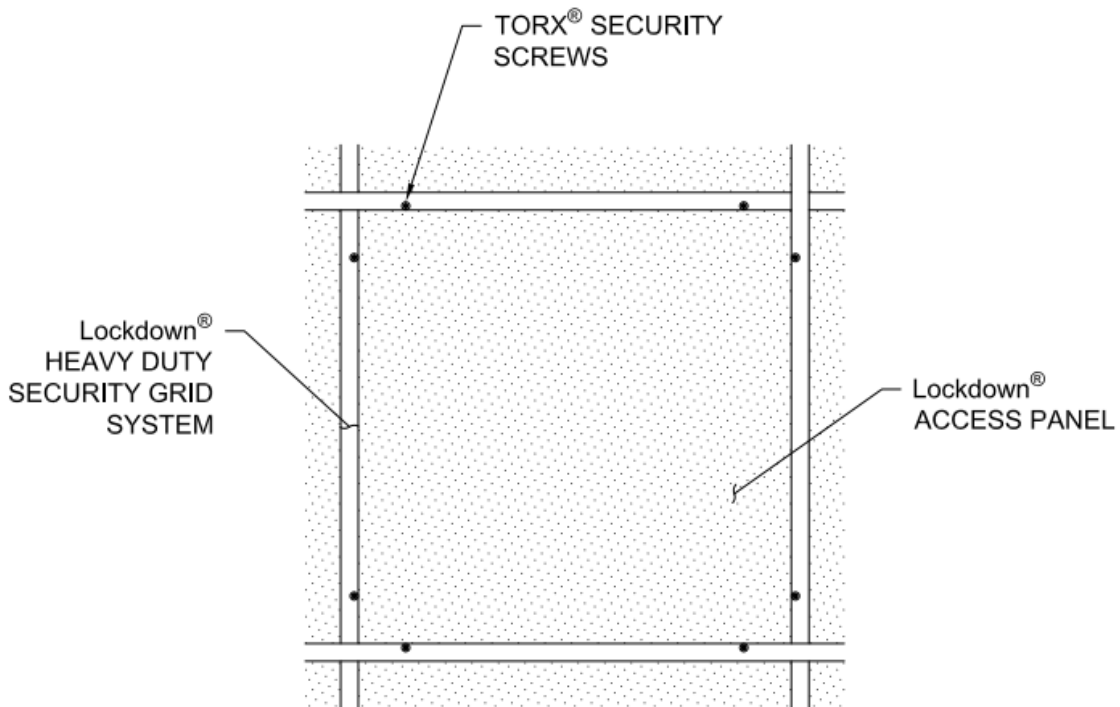
Step 6:

Begin the installation of Panels away from the exit door to the space. Rip the Perimeter Panels to width as required. Push the Panels into the Grid from above until they fit firmly under the bulb of the Grid. Secure the Perimeter Panels by inserting the Z Hold Down Clips as described in Step 5.

Continue installing the Panels progressively across the space. Where specified, install acoustic insulation on the backside of Panels as the work proceeds. Cut and install the last Panels before installing the Access Panel.

Step 7:

Install the Access Panel last. This Panel is usually positioned one Panel away from the doorway for security monitoring. Lay the Panels, with acoustical insulation inside if specified, into the Grid opening and secure it by inserting #12 TORX Security Screws through the face of the Grid and into the Panel. Use eight (8) screws for each 2' X 2' Access Panel and ten (10) screws for each 2' X 4' Access Panel.



PART 3 – ILLUSTRATIONS

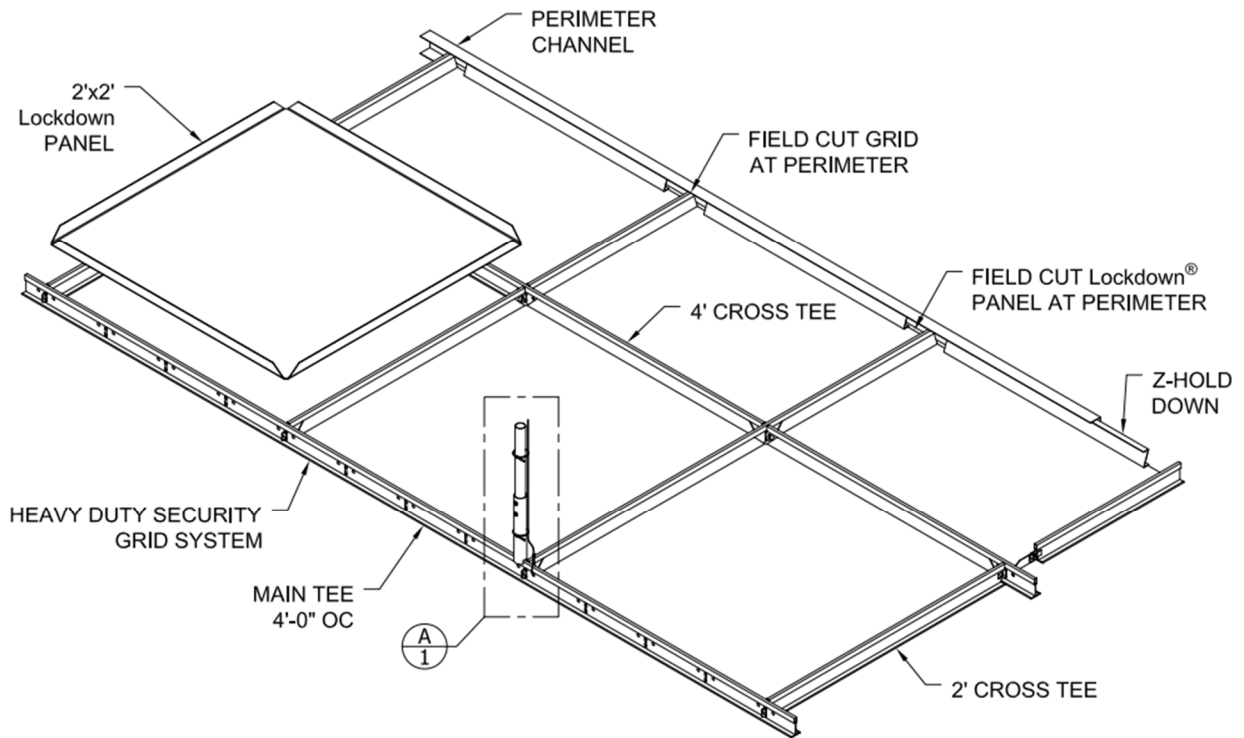


Figure A: Typical Assembly

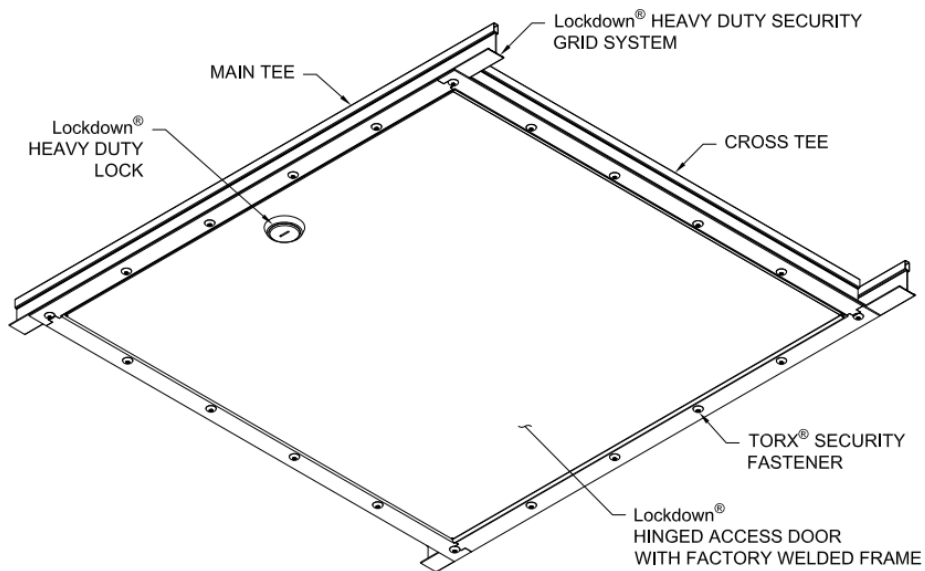


Figure B: Optional Access Door



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