



**RULON
INTERNATIONAL**

**Dura Grille
Suspended Ceiling
Installation Guide**

2000 Ring Way Rd, St. Augustine, FL 32092 | (904) 584-1400 | rulonco.com

Rulon Suspended Dura Grille Wood Ceiling Installation Guide

Receipt and Storage:

- a. All material shall be delivered to the project site in the original, labeled, unopened packages. Keep packages of components unopened until it is time to acclimate to the building conditions.
- b. Material shall be stored flat and level in a fully enclosed space. **DO NOT Store Rulon products in direct sunlight.** Seventy-two hours before beginning ceiling installation, wood strips must be moved into the room where the HVAC system is operating, and the packaging shall be opened. This is to allow the panels to adjust to the room environment. Wood panels are to be stored off the floor.
- c. Care in handling must be exercised to avoid damage.

Before You Begin Installation:

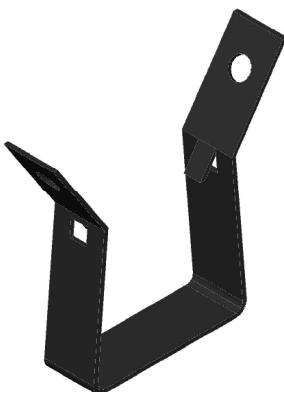
- a. Ensure that all necessary tools are available (see below)
- b. Check Wall components to ensure all items required are at hand (see Page 2)
- c. Review this guide in its entirety. If you have any questions, call Rulon Company before you start the installation
- d. Installation shall be done only when the temperature and humidity closely approximate the interior conditions that will exist when the building is occupied. The heating and cooling systems shall be operating before, during, and after installation, with the humidity of the interior spaces maintained between 25% and 55%, temperature between 60 to 90 degrees F.
- e. It is important that area have proper ventilation, especially in high moisture areas. There shall be no excessive buildup of heat in the space.
- f. Prior to the start of installation, all exterior windows and doors are to be in place, glazed, and weather-stripped. The roof is to be watertight, and all wet trades' work is to be completed, and thoroughly dry.
- g. Mechanical, electrical, and other utility service installations above the ceiling plane shall have been completed. No materials should rest or wrap around, the ceiling suspension components or connecting hangers.
- h. Consult local codes for governing suspension requirements.

If You Need Further Assistance:

- If you have any questions, or if you encounter a situation not covered by this installation guide, contact the Rulon Technical Department.
Phone: 1-800-22RULON (1-800-227-8566), 904-584-1400

Tools and Equipment:

- Standard leveling devices
- Jig saw
- Miter saw (see specifications at step 4)
- Screw gun



Woodbacker Clip

Ceiling Components:

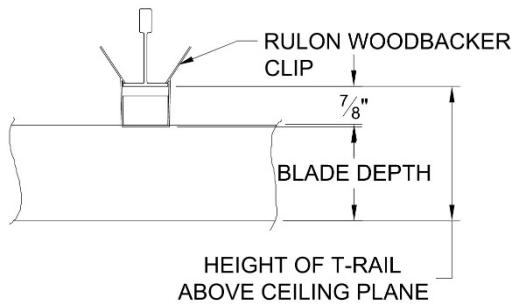
Supplied by Rulon:

- Dura Grilles
- Woodbacker Clips (when specified)
- Trim (when specified)
- Touch-up finish

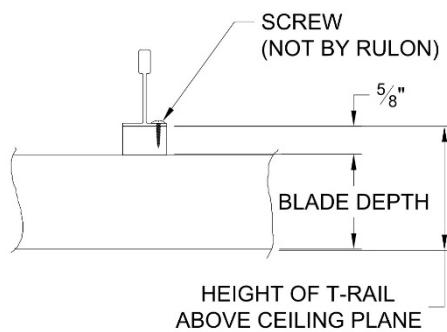
Supplied by Others:

- #12-Gauge wire
- 15/16" [24 mm] Heavy Duty Grid
- Hanger Inserts
- Acoustical Blanket (when specified)
- Seismic Compliance per local code

Rulon Suspended Dura Grille Wood Ceiling Installation Guide



Woodbacker Clip Attachment



Direct Screw Attachment

Step 1: T-Rail Installation

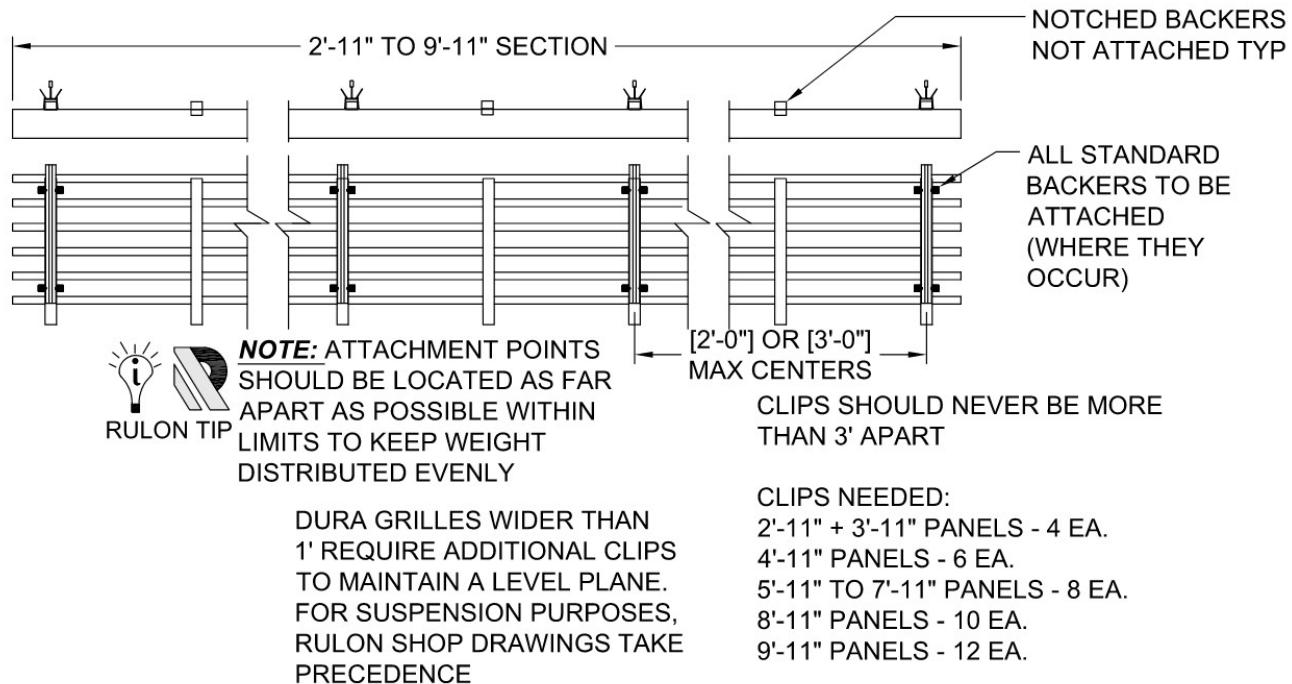
Establish the ceiling height with laser, water-level, or other appropriate method. Mark location. Install border material (if specified) at required height. Note clearances above.

Mark T-Rail locations. T-Rails are located to align with standard woodbackers, starting with the backer strip nearest to the end. T-Rail will run perpendicular to the direction of the wood strips.

Install hanger inserts (i.e. screw eyes, star anchors, or eye pins shot or hammered into structure or clips attached to beam flanges) at 4' [1219 mm] O.C. along T-Rails. Hang #12-ga. wire from the inserts. Wires need to be hung directly from building structure, unless otherwise covered in the Rulon shop drawings, or reviewed and approved by the Rulon Engineering Department.

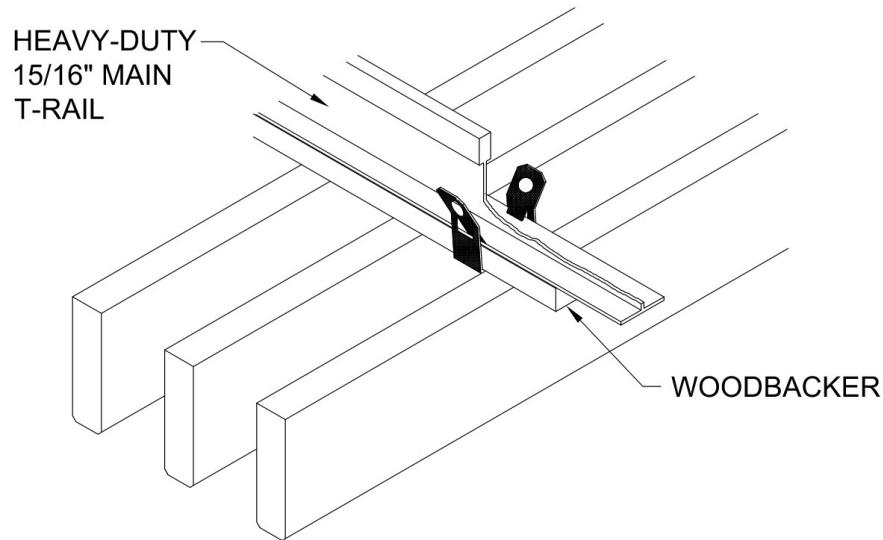
Hang T-Rails from ceiling hangers. Level. Attach T-Rail to wall by pop-riveting into wall angle (see page 7).

Rulon Suspended Dura Grille Wood Ceiling Installation Guide



Step 1A: T-Rail Location

T-Rails shall be located at 2' [610 mm] or 3' [914 mm] On Center for most Dura Grille applications. There are exceptions such as panels wider than 1' [305 mm], and some select profiles. Please refer to Rulon shop drawings for such cases. It is very important that the grid be stabilized to prevent movement.



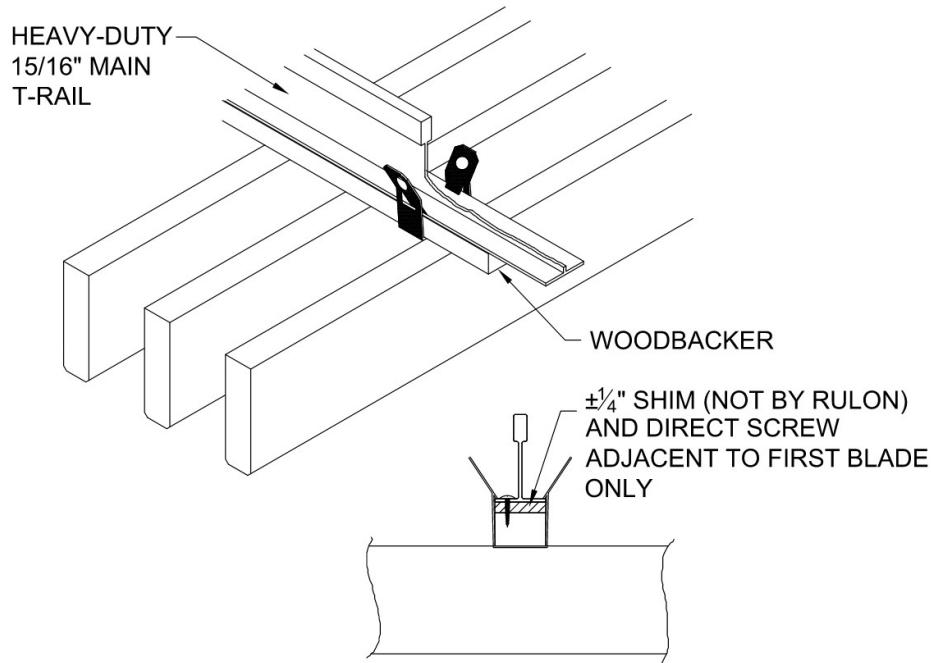
Step 2: Dura Grille Attachment

Beginning at one wall, connect the first Dura Grille to the T-Rails. Woodbacker clips or direct screw attachment shall be used to attach the Dura Grilles to the T-Rail. A clip shall be placed around the appropriate woodbacker and pushed upward to engage the clip tabs onto the T-Rail flanges.

Rulon Suspended Dura Grille Wood Ceiling Installation Guide

Step 3: Dura Grille Alignment

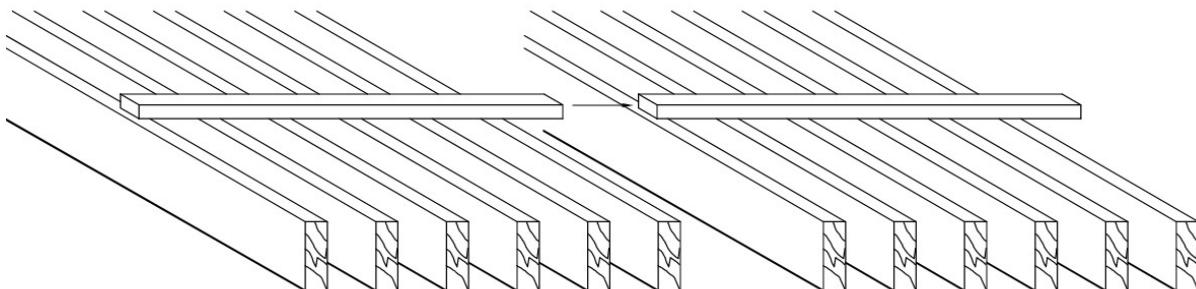
Install the first Dura Grille straight using a string line or line laser device. The panel is to be secured to T grid from above with a wood screw and spacer (see detail below). Repeat this step every 6th row or as needed to maintain alignment.



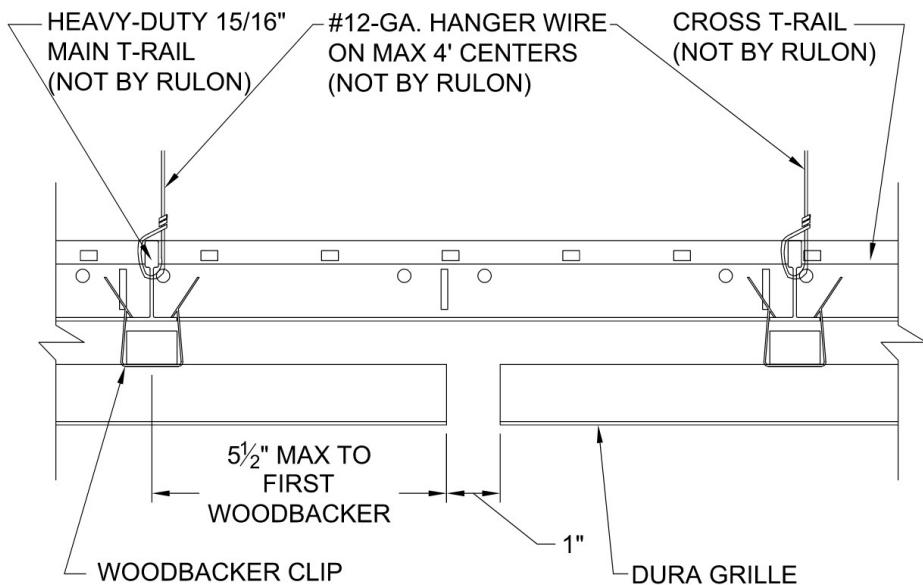
Step 4: Dura Grille Installation Sequence

Dura Grilles shall be installed in sequence, from one side of the room to the other. The first panel grill will be positioned with the female side toward the wall. Align first blade of run to string line or laser line, and secure blade to grid with wood screw and spacer. The Dura Grilles shall be initially suspended with a clip at each of the four corners. Intermediate clips can then be more readily added. Dura Grilles should be added – female to male across the room, and should be pushed firmly against first panel, and each successive panel. Panel to panel module spacing is to be maintained at the face, to create equal reveal spacing (typical).

Note: When an acoustical blanket is to be installed, it should be placed behind the ceiling as the installation progresses.



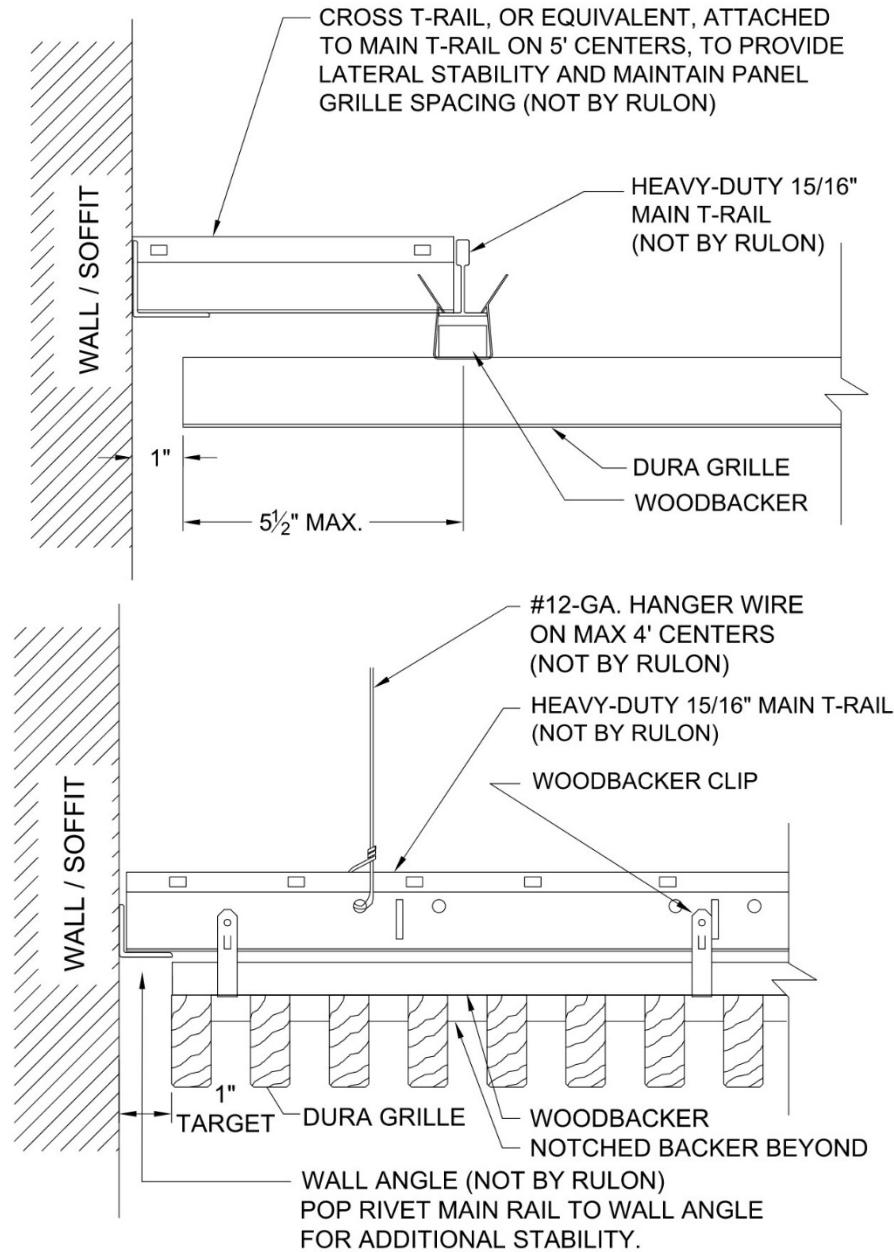
Rulon Suspended Dura Grille Wood Ceiling Installation Guide



Step 5: Layout of Reveals

Unless otherwise specified and/or detailed in the shop drawings, as each succeeding row of Dura Grilles is added, a 1" [25 mm] reveal shall be maintained allowing the use of standard 1' [305 mm] cross tees between main T-Rails. For veneer panel grilles refer to Rulon shops drawings for reveal.

Rulon Suspended Dura Grille Wood Ceiling Installation Guide



Step 6: Perimeters

Unless otherwise specified and/or detailed on the shop drawings, perimeter panels typically maintain a target 1" [25 mm] reveal at the perimeter. If cutting is required, it is recommended to scribe and cut with a sliding miter saw with a fine-tooth carbide finish blade. It is important that the blade is new. **Use provided touch-up finish to seal the cut ends of all panels. For Exterior Applications, cut ends must be touched up thoroughly with Spar Urethane finish to prevent moisture infiltration.** For the field-cut panels, Rulon will supply an adequate amount of touch up that should be field applied with a foam brush.

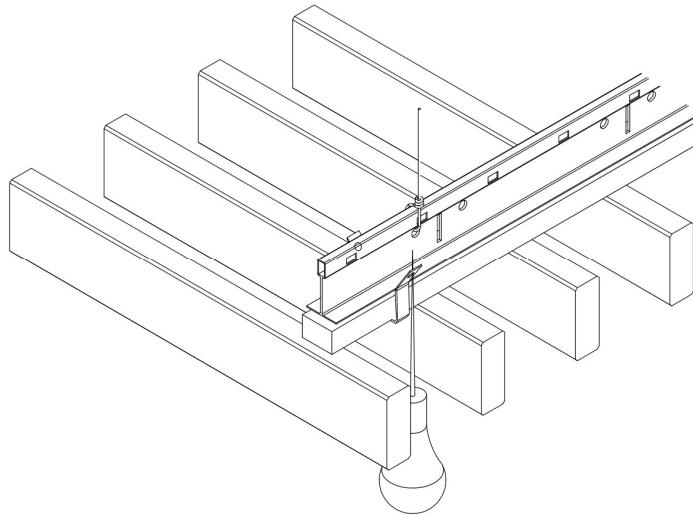
Step 7: Cleanup

- a. Make final adjustments to level or contours.
- b. Clean all wood blades and borders free of dirt, dust, grease, oils, and fingerprints. Refer to the Rulon Care and Maintenance document for further instructions.
- c. Remove and replace all work that cannot be successfully cleaned or repaired.

Rulon Suspended Dura Grille Wood Ceiling Installation Guide

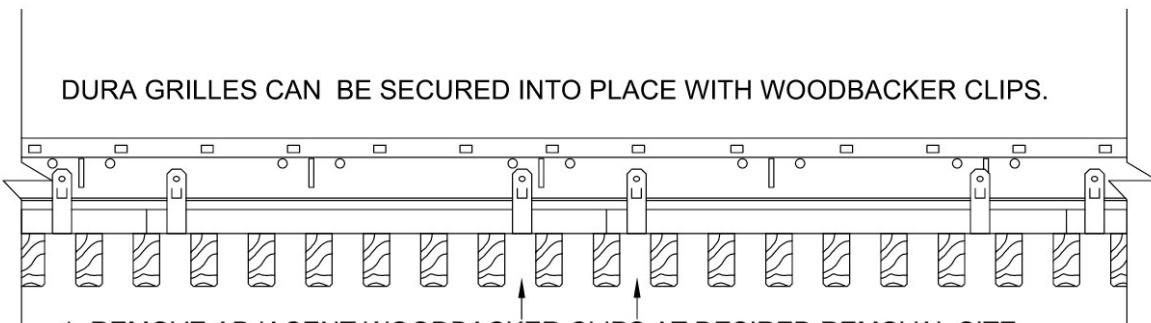
Removal

- 1) Place upward pressure on Panel
- 2) Engage awl or small Phillips screwdriver into hole on clip to disengage.



Use an awl or small Phillips screwdriver to insert tip into the hole in the woodbacker clip. Lift panel slightly to disengage and torque the leg of clip to facilitate removal.

Rulon Suspended Dura Grille Wood Ceiling Installation Guide



1. REMOVE ADJACENT WOODBACKER CLIPS AT DESIRED REMOVAL SITE.

