

# GRILLES INSTALL GUIDE

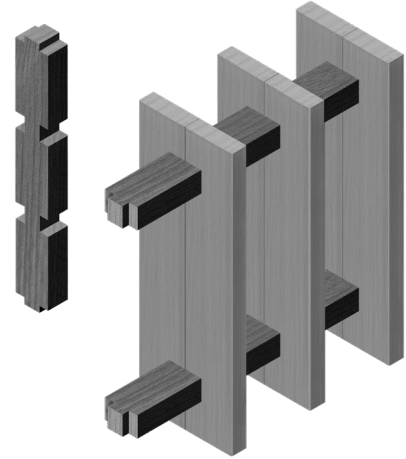
SYSTEM: GRILLES | STYLE: SCREENWALL GRILLE



## 1. GENERAL

### 1.1. RECEIPT AND STORAGE

- 1.1.1. 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.
- 1.1.2. 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 boards to adjust to the room environment. Wood panels are to be stored off the floor.
- 1.1.3. Care in handling must be exercised to avoid damage.



### 1.2. BEFORE YOU BEGIN INSTALLATION

- 1.2.1. Ensure that all necessary tools are available ([see § 2](#))
- 1.2.2. Check components to ensure all components required are at hand ([see § 3](#))
- 1.2.3. Review this guide in its entirety. If you have any questions, call Rulon International before you start the installation.
- 1.2.4. 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.
- 1.2.5. It is important that area have proper ventilation, especially in high moisture areas. There shall be no excessive buildup of heat in the space.
- 1.2.6. 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.
- 1.2.7. 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.

### 1.3. IF YOU NEED FURTHER ASSISTANCE

- 1.3.1. If you have any questions, or if you encounter a situation not covered by this installation guide, contact the Rulon Technical Department at 904-584-1400



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## 2. TOOLS AND EQUIPMENT

### 2.1. SUGGESTED TOOLS

- 2.1.1. Standard leveling devices
  - 2.1.2. Saber saw
  - 2.1.3. Miter saw
  - 2.1.4. Biscuit Jointer with #20 slot cutter
  - 2.1.5. Japanese pull saw or door jamb saw
  - 2.1.6. Nail gun
  - 2.1.7. Screw gun
  - 2.1.8. Masking/Painters Tape
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## 3. COMPONENTS

### 3.1. SUPPLIED BY RULON

- 3.1.1. Screenwall Grille Panels
- 3.1.2. Mechanical Biscuits ([Knapp K058](#))
- 3.1.3. Screenwall Backer
- 3.1.4. Trim (when specified)
- 3.1.5. Touch-up finish

### 3.2. SUPPLIED BY OTHERS

- 3.2.1. Furring Strips
  - 3.2.2. 1-1/2" x 1-1/2" x 1/8" Black Aluminum Angle ([example](#))
  - 3.2.3. Hardware
  - 3.2.4. Acoustical Blanket (when specified)
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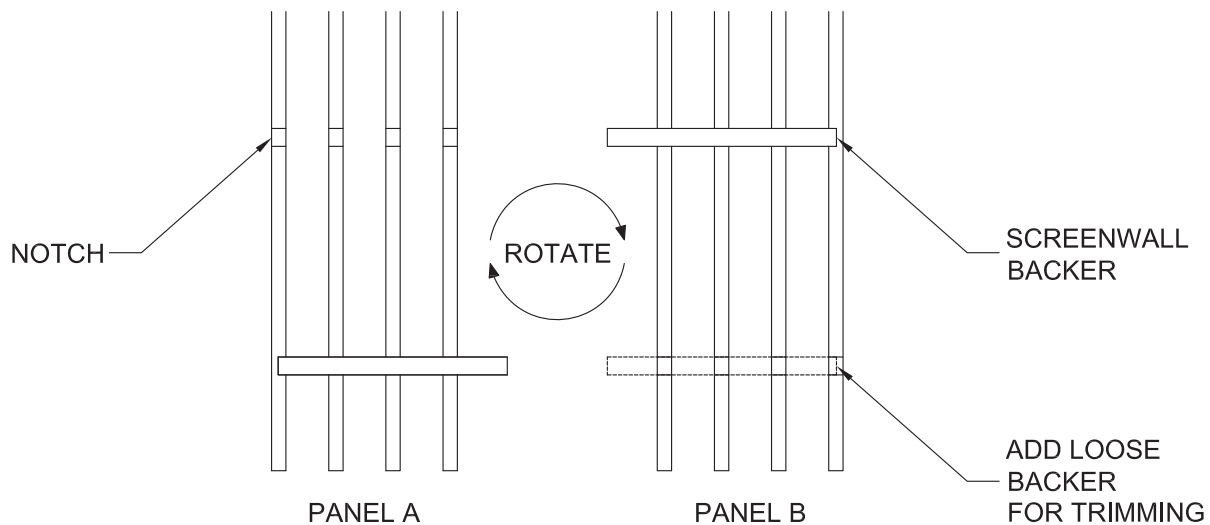
## 4. INSTALLATION

### 4.1. MOUNTING PREPARATION & ANGLE INSTALLATION

- 4.1.1. Determine the number of full 12" modules (Y) and the remainder (R) by dividing the wall width (X [mod](#) 12 = Y R, where Y is the number of 12" modules and R is the remainder). Round the remainder to the nearest blade increment—e.g., for a 4-blade module at 3" o.c., adjust to the nearest multiple of 3" (5" → 3", 7" → 6")—then calculate total width as (Y × 12") + adjusted R and set the aluminum angle length to this dimension.
- 4.1.2. Install 1.5" [38 mm] × 1.5" [38 mm] black aluminum angle (contractor-supplied) at the floor and ceiling. Align the inside edge of the vertical leg with the intended front plane of the Screenwall Grille. This establishes the primary mounting channel.
  - 4.1.2.1. If desired, aluminum angle can be cut with 45-degree angles at each end to allow for end trimming following Screenwall Grille installation.
- 4.1.3. Install a temporary plywood strip at the floor, matching the thickness of the aluminum angle, to support the rear of the Screenwall Grille during installation.

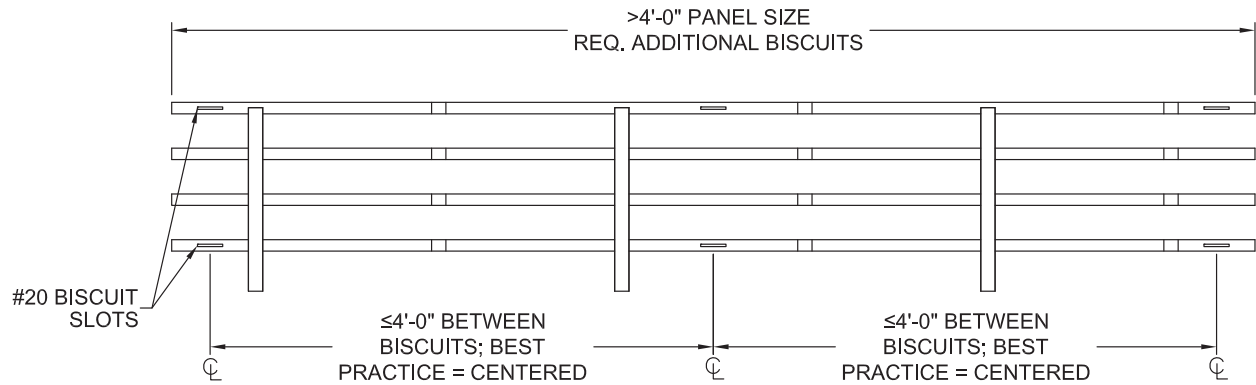
## 4.2. MEASURING & PANEL PREPARATION

- 4.2.1. Measure the clear height between aluminum angles and subtract 1/4" [6 mm] to allow for expansion and contraction.
- 4.2.2. Place two Screenwall Grille panels face down on a protected surface with backers oriented in opposite directions (A/B configuration), ensuring notches align with backers and vice-versa.
- 4.2.3. Mark the cut length on both panels using masking tape and a pencil. Prior to cutting, fasten a temporary wood strip or section of main tee to the back of the panel to maintain blade alignment.
  - 4.2.3.1. When trimming panels with notches only where the first Screenwall Backer should be, temporarily secure the supplied loose backer into the notched blade to preserve spacing.
  - 4.2.3.2. If trimming removes a factory-installed backer, secure a loose backer with screws before cutting to preserve spacing.
- 4.2.4. Cut panels to length using an appropriate saw. Touch up all exposed ends with supplied finish.



## 4.3. SCREEWALL SEGMENT ASSEMBLY

- 4.3.1. Mark biscuit locations on outer blades approximately 2-3/4" [70 mm] from panel ends or midway between the end and first backer. For segments longer than 4' [1219 mm], add marks at 4' [1219 mm] on center.
- 4.3.2. Cut slots using a biscuit jointer with a #20 cutter.
- 4.3.3. Install Mechanical Biscuits by inserting connector halves into opposing slots. Seat connectors using a hammer, ensuring they are flush and fully engaged.
- 4.3.4. Align paired panels and press together to engage Mechanical Biscuits. Use a rubber mallet as needed to fully seat the connection and form a continuous screenwall segment.



#### 4.4. INSTALLATION OF WALL SEGMENTS

- 4.4.1. Set assembled segments into the aluminum angle channel with extended backers oriented toward the next segment.
- 4.4.2. Secure segments with pin nails at the floor and ceiling, avoiding the aluminum angle and temporary plywood support. For additional rigidity, L-brackets or pocket screws may be used.
- 4.4.3. Repeat the process for subsequent segments, interlocking backers by sliding the male profile of the installed segment into the female slot of the incoming segment.

#### 4.5. FINAL WALL SEGMENT INSTALLATION

- 4.5.1. Measure the remaining opening and trim the final segment to fit by cutting the Screenwall Backers flush with the blades. Tape near cut locations to prevent tear-out.
- 4.5.2. Trim backers flush with blade faces using a fine-cut saw. Touch up all exposed surfaces
- 4.5.3. If required, insert trimmed backer pieces into the exposed cavities of the first panel using adhesive for a finished appearance.

#### 4.6. FINAL ANGLE INSTALLATION

- 4.6.1. Install the second row of aluminum angle at the floor and ceiling, pressing tightly against the installed Screenwall Grille to create a secure, enclosed channel.
- 4.6.2. If angle ends are mitered, install filler pieces using construction adhesive to complete the perimeter.

#### 4.7. STEP 11: CLEANUP

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