

GRILLES DATA SHEET

SYSTEM: GRILLES | STYLE: SCREENWALL GRILLES



An engineered wood screen wall system composed of precisely aligned and consistently spaced wood members, designed for visual continuity and adaptable to a wide range of custom configurations.



The Screenwall Grille system is a double-sided assembly engineered for continuous partition applications. The system utilizes notched wood blades paired with an interlocking framework of notched backers, allowing opposing blade sets to align back-to-back and form a unified, symmetrical screen. Blades run vertically from floor to ceiling, and panels are 12" wide and 4'-10' long (nominal, 2' increments).

Screenwall Grilles are available in solid wood or veneer and are specified as **SG C-T-H X**.



DESIGN

Screenwall Grilles are manufactured in St. Augustine, FL. For installation, extruded aluminum angle is anchored at the floor and ceiling to establish the panel track. Paired screenwall panels are set in place, secured together, and fastened to the structure using pin nails. A secondary L-angle is installed at the back of the assembly to form a continuous channel that captures and stabilizes the blades.



ACOUSTICS

Screenwall Grilles designed with spaces between each board to allow sound to pass to the other side. Screenwall Grilles are considered **acoustically transparent**.



FIRE PERFORMANCE

Screenwall Grilles can meet **Class A** fire performance requirements. Solid wood is treated to ASTM E84, while veneers on fire-rated cores are tested to ASTM E2768.



SUSTAINABILITY

Screenwall Grilles contribute to sustainability initiatives like **WELL** and **LEED** through FSC compliance, NAF cores, HPDs, EPDs, and Indoor Advantage Gold certification.



SEISMIC

Screenwall Grilles meet code compliance via **direct screw attachment** to structure above/below. Local code should be consulted to determine additional seismic requirements.



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SPECIFICATION

COMPONENTS

MOUNTING CHANNELS

1.5" [38 mm] × 1.5" [38 mm] black aluminum angle (contractor-supplied) is anchored at the floor and ceiling, aligned with the front and back planes of the Screenwall Grille to form a continuous channel for the wall segments.

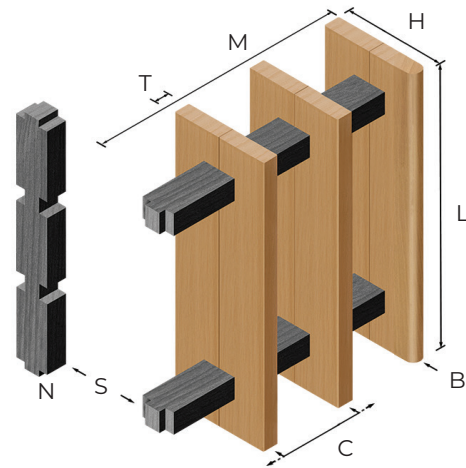
SYSTEM PROFILES & DIMENSIONS

Screenwall Grille profiles are defined as **SG C-T-H X** and are determined by three variables and letter designation(s): Number of blades per foot (C), blade thickness (T), and depth of the blades (H) (measured in 16ths of an inch) followed by letter designation(s) (X) that determine assembly.

PANEL [SG C-T-H X]		TYPES [SG C-T-H X]	
M (MODULE WIDTH)	12"	BULLNOSED	B
C (BLADE COUNT/FT) ²	3 - 6		
L (LENGTH) ¹	4' - 10'		
BLADES (16ths) [SG C-T-H X]		BACKER TYPE	
T (THICKNESS) ²	3/4", 1-1/4"	SCREENWALL BACKER	S
H (HEIGHT) ²	4" - 7-1/2"		

¹Length - 1"/0.5" shy of even foot for solid/veneer panels

²Count/Thickness/Height - Consult standard size table



The [standard profiles table](#) should be consulted for specific size and spacing standards.

MODULES & SYSTEM CONSTRUCTION

Screenwall Grilles are assembled in 1' [305 mm] widths and in lengths of 4' [1219 mm] to 10' [3048 mm] (nominal, available in 2' [610 mm] increments). Nominal panel lengths are 1" shorter than each even foot for solid wood and 1/2" shorter for veneers to account for expansion/contraction. Wood strips are manufactured without finger joints and are fastened together with screenwall backers, positioned 24" [610 mm] on center, starting 5-1/2" [140 mm] from the end of the Screenwall Grille. Screenwall backers are flat black (additional colors available).

INSTALLATION

ASSEMBLY & ATTACHMENT

Panels are assembled in pairs by cutting #20 biscuit slots at the four corners of each panel and at 4' [1219 mm] on center along the blades, then installing Mechanical Biscuits[®]. The panels are joined with all screenwall backers oriented in the same direction and seated using a rubber mallet to form continuous screenwall segments. Assembled segments are set into the aluminum angle and secured with pin nails.

SPECIFICATION

WOOD SELECTIONS

WOOD SPECIES

Screenwall Grilles may be specified in a variety of wood species. Current standard wood species are: Ash, Maple, Red Oak, White Oak, Beech, Poplar, and Cherry. [Thermally Modified²](#) wood species are also available.

TEXTURES

Standard surface texture is smooth-sawn. Faces are sanded.

FINISHES

WOOD FINISHES

Standard finishes include 20-sheen clear (satin) and 5-sheen clear (matte). A full range of standard colors can be found at rulonco.com/colorselections. Custom stains, opaque or semi-transparent colors are also available. All finishes are water based, low VOC-emitting, and do not contain solvents.

SHIPPING & STORAGE

SHIPPING

Screenwall Grilles are shipped wrapped in shrink wrap packaging, with no more than two (2) Screenwall Grilles per bundle. Screenwall Grille backs are placed together to prevent marring of faces.

STORAGE

Screenwall Grilles shall be stored flat and level, in a fully enclosed space away from sunlight or moisture. For a minimum of seventy-two (72) hours immediately prior to ceiling installation, the packaging shall be opened and the panels shall be stored in the room in which they will be installed. The temperature and humidity of the room shall closely approximate those conditions that will exist when the building is occupied. Panels must be stored off the floor.

COORDINATION

TEMPERATURE & HUMIDITY

Screenwall Grilles shall be installed only when the temperature and humidity closely approximate the interior conditions that will exist when the building is occupied. Heating and cooling systems shall be operating before, during, and after installation, with the humidity of the interior spaces maintained between 25 and 55 percent, and a temperature between 60 to 90 degrees F.

SPECIFICATION

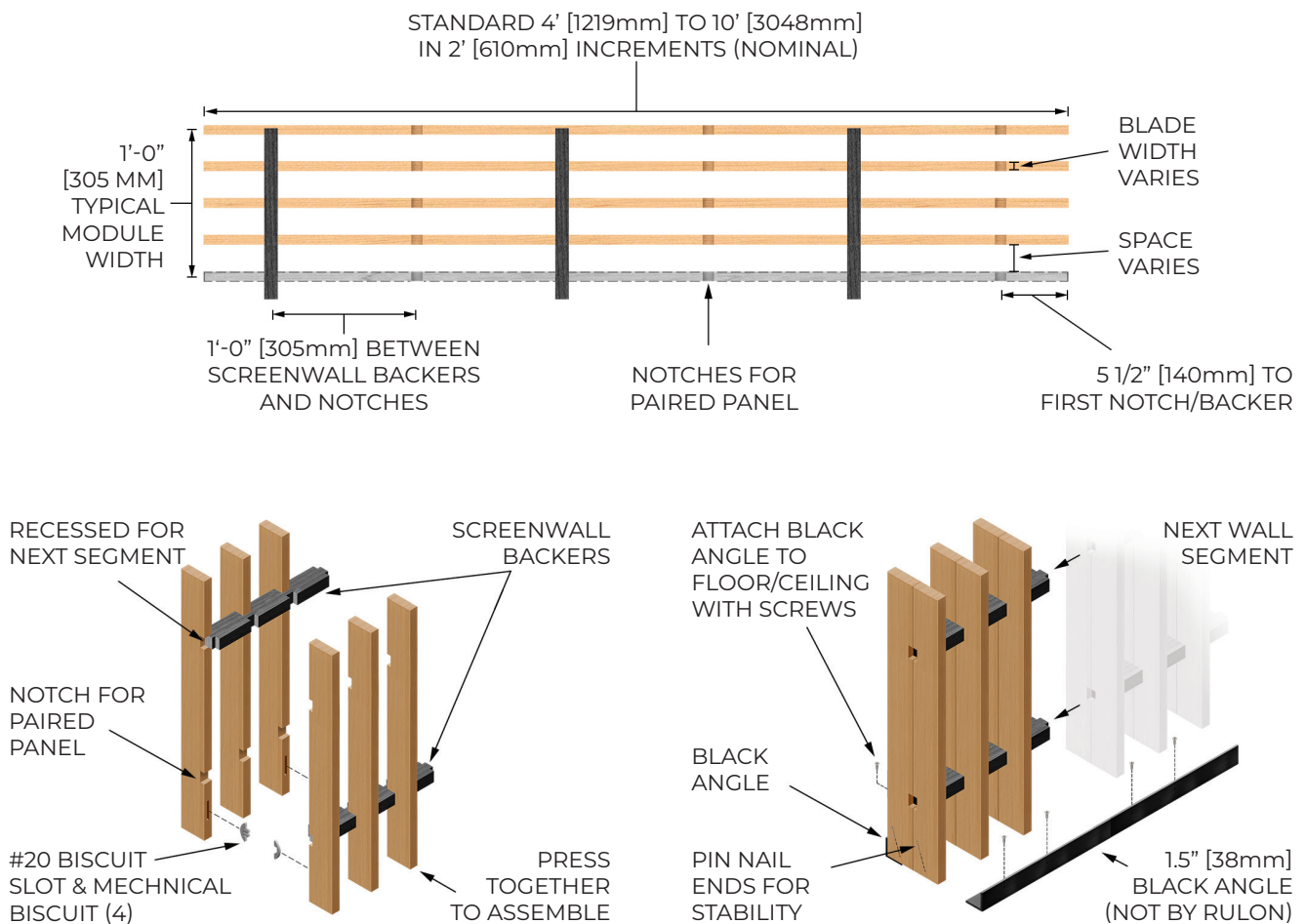
NOTES

SPECIAL NOTES

³ Thermally modified wood has been altered by a controlled process called pyrolysis which induces chemical changes to the cellular structure of the cell wall components of the wood material through heat to increase durability, shrink/swell factor, and biological resistance.

ᵀ Mechanical Biscuits are #20 self-tightening connectors used for quick, concealed panel joinery. Installed with a hammer, they lock components in place without the need for clamps, screws, or glue, providing fast assembly and clean alignment.

TYPICAL DETAILS



STANDARD PROFILES TABLE

SIZING				PROFILES			
Blade Thickness		Blade Depth		Number of Blades (per foot)			
				3	4	5	6
12	3/4"	64	4"	SG 3-12-64 SW B	SG 4-12-64 SW B	SG 5-12-64 SW B	SG 6-12-64 SW B
12	3/4"	74	4 5/8"	SG 3-12-74 SW B	SG 4-12-74 SW B	SG 5-12-74 SW B	SG 6-12-74 SW B
12	3/4"	96	6"	SG 3-12-96 SW B	SG 4-12-96 SW B	SG 5-12-96 SW B	SG 6-12-96 SW B
12	3/4"	120	7.5"	SG 3-12-120 SW B	SG 4-12-120 SW B	SG 5-12-120 SW B	SG 6-12-120 SW B
20	1 1/4"	64	4"	SG 3-20-64 SW B	SG 4-20-64 SW B		
20	1 1/4"	74	4 5/8"	SG 3-20-74 SW B	SG 4-20-74 SW B		
20	1 1/4"	96	6"	SG 3-20-96 SW B	SG 4-20-96 SW B		
20	1 1/4"	120	7.5"	SG 3-20-120 SW B	SG 4-20-120 SW B		

Important information in regards to profile/module sizing:

- Screenwall Grilles are also available in custom profile and module sizes. Please contact your local sales rep for more information.
- Screenwall Grilles are primarily available in solid wood, however veneer Screenwall Grilles can be used when project specifics warrant.