

LINEA **GRILLE**

LINEA Grille is a highly customizable panelized linear wood slat system designed for interior and exterior wall and ceiling installations. LINEA Grille is composed of wood slats oriented 90° to the mounting surface. LINEA Grille is available in a wide variety of solid wood or real wood veneer options, comes in standard or custom sizes, in standard or custom spacing configurations and in standard, custom or simulated finishes. When combined with LINEA PET Backer or acoustical insulation, LINEA Grille can achieve exceptionally high acoustic performance.

SPECIFICATION—*example*

- Type:** LINEA Grille
- Wood Species:** See Chart
- Core:** Solid Wood or MDF
- Panel Size:** 12" W, 3' to 10' (less 1" for reveal)
- Blade Size:** See Chart
- Spacing:** See Chart
- Finishes:** Natural Clear, Custom Stained or Clear Finishes in *Matte, Satin or Semi Gloss Sheen*
- Assembly:** Wood Backer, Dowel, Wood Backer & Dowel, Flexible Backer or LINEA PET Backer
- Fire Rating:** Class A per ASTM E-84 (USA) and CAN/ULC S102 (Canada)
- Fabric Backer:** Optional—See Technical Data for info



LINEA GRILLE

FEATURES | BENEFITS

- Available in a wide variety of solid woods and wood veneers.
- Standard or custom configurations, slat sizes, spacing, colors and low voc finishes.
- Easily installed with Wood Backers, Dowel, Backer with Dowel and Flexible Backers for radius applications.
- LINEA PET Backer available in many colors. Some restrictions may apply.
- Ideal for Interior or covered Exterior applications.
- Class A Fire Rated per ASTM-84 and CAN/ULC S102 is standard.
- FSC Certified and other responsibly harvested wood options available.
- Designed for seismic and non-seismic areas.
- Can be customized to reduce field cutting.
- Can be manufactured for easy downward accessibility where required.

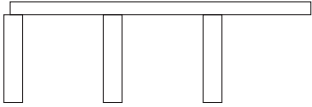
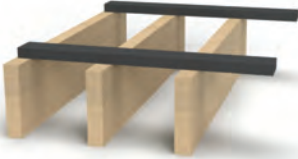

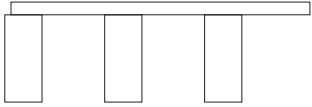


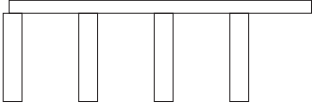




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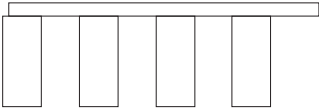


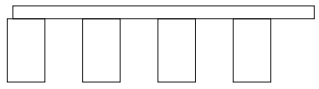


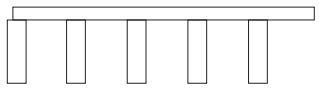


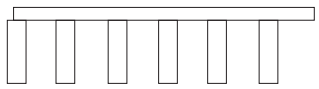


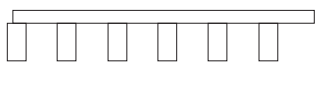


LINEA GRILLE

PRODUCT DATA SHEET

LINEA Grille		Common Blade Profiles—USA (in)				Common Blade Profiles—METRIC (mm)			
Spacing	Blade size	Solid Wood~		Veneer [^]		Solid Wood~		Veneer [^]	
Blades / LF	Nominal*	Thicknesses	Depth	Thicknesses	Depth	Thicknesses	Depth	Thicknesses	Depth
4, 5, 6, 7, 8, 9	1 x 2	11/16	1-1/2	3/4	1-1/2	17	38	19	38
2, 3, 4, 5, 6	1 x 3	11/16	2-1/2	3/4	2-1/2	17	63	19	63
2, 3, 4, 5, 6	1 x 4	11/16	3-1/2	3/4	3-1/2	17	89	19	89
2, 3, 4	2 x 2	1-3/8	1-1/2	1	1-1/2	35	38	25	38
2, 3, 4	2 x 3	1-3/8	2-1/2	1	2-1/2	35	63	25	63
2, 3, 4	2 x 4	1-3/8	3-1/2	1	3-1/2	35	89	25	89
<i>INTENTIONALLY LEFT BLANK—FILL IN SELECTION AS REQUIRED</i>									
* Nominal Sizes are not actual. Slat thicknesses and depths may vary between softwood, hardwood and veneer									
~ Commonly milled Softwood thicknesses include 5/8", 11/16", 3/4", 1", 1-1/4" or 1-1/2"									
~ Commonly milled Hardwood thicknesses include 11/16", 3/4", 1" or 1-1/4"									
[^] Common Wood Veneer on Composite Core thicknesses are 3/4", 1", or 1-7/16"									
Additional Thickness, Depth and Blades / LF options are available. Contact a LINEA representative for more details									

LINEA GRILLE <i>example</i>	WOOD BACKERS PAINTED BLACK	PET BACKER
LG3M 1X4 T 3/4" (19mm) x H 3-1/2" (89mm) 4" (102mm) O/C Spacing 		
LG3M 2X4 T 1-1/2" (38mm) x H 3-1/2" (89mm) 4" (102mm) O/C Spacing 		
LG4M 1X4 T 3/4" (19mm) x T 3-1/2" (89mm) 3" (76mm) O/C Spacing 		

LINEA GRILLE
PRODUCT DATA SHEET

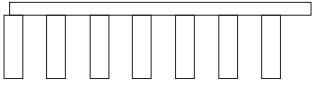


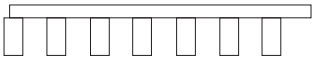


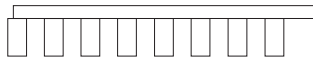


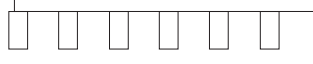
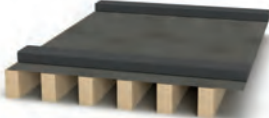


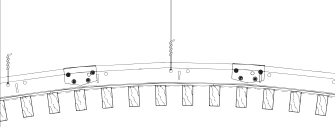
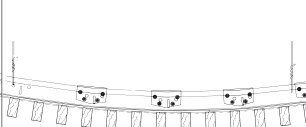
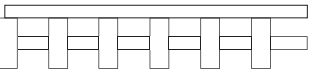

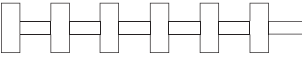

<p>LINEA GRILLE <i>example</i></p>	<p>WOOD BACKERS PAINTED BLACK</p>	<p>PET BACKER</p>
<p>LG4M 2X4 T 1-1/2" (38mm) x T 3-1/2" (89mm) 3" (76mm) O/C Spacing</p> 		
<p>LG4M 2X3 T 1-1/2" (64mm) x H 2-1/2" (64mm) 3" (76mm) O/C Spacing</p> 		
<p>LG5M 1X3 T 3/4" (19mm) x H 2-1/2" (64mm) 2-3/8" (61mm) O/C Spacing</p> 		
<p>LG6M 1X3 T 3/4" (19mm) x H 2-1/2" (64mm) 2" (51mm) O/C Spacing</p> 		
<p>LG6M 1X2 T 3/4" (19mm) x H 1-1/2" (38mm) 2" (51mm) O/C Spacing</p> 		

*Product information is subject to change without notice.

Revision Date: November 2023

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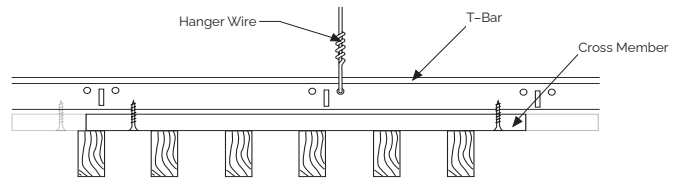
LINEA GRILLE <i>example</i>	WOOD BACKERS PAINTED BLACK	PET BACKER	
<p>LG7M 1X3 T 3/4" (19mm) x H 2-1/2" (64mm) 1-11/16" (44mm) O/C Spacing</p> 			
<p>LG7M 1X2 T 3/4" (19mm) x H 1-1/2" (38mm) 1-11/16" (44mm) O/C Spacing</p> 			
<p>LG8M 1X2 T 3/4" (19mm) x H 1-1/2" (38mm) 1-1/2" (38mm) O/C Spacing</p> 			
FABRIC BACKER			
<p>LG6M 1X2 2" (51mm) O/C Spacing</p> 		<p>Optional factory-attached Fabric Backer is available for LINEA Grille products upon request. LINEA does not recommend Fabric Backer for panels with slat spacing greater than 3" on center.</p>	
FLEXIBLE BACKER			
<p>LG6M 1X2 2" (51mm) O/C Spacing</p> 			
WOOD BACKERS AND DOWEL		DOWEL	
			

LINEA GRILLE

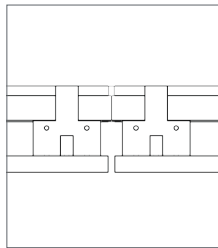
PRODUCT DATA SHEET

Installation Section Detail

showing direct screw attachment

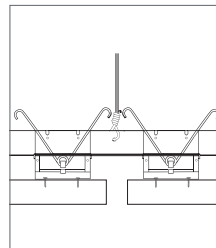


Alternate options to consider for installation.



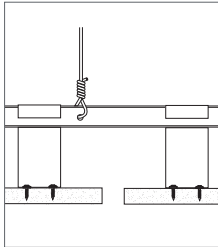
T-HOOK

Designed to simply lift, drop and lock in place using T-Bar suspension and clips. Panels greater than 2' x 2' may require additional stabilizing support fixed to the back (by others).



TORSION SPRING

Panel is designed for downward accessibility by way of torsion spring clips fixed to 15/16" [24mm] HeavyDuty grid Panels greater than 2' x 2' may require additional stabilizing support fixed to the back (by others).



CHANNEL HANGER

Designed to simply lift, drop and lock in place using C-Channel suspension and clips. Panels greater than 2' x 2' may require additional stabilizing support fixed to the back (by others).



PHYSICAL DATA

WOOD SELECTIONS	
Wood Species <i>Interior</i>	LINEA Grilles may be specified in a wide variety of solid woods as well as natural or engineered wood veneers pressed on MDF core with matching edge banding.
Wood Species <i>Exterior</i>	LINEA Grilles made from Western Hemlock, Douglas Fir, Western Red Cedar or Alaskan Yellow Cedar are suitable for exterior applications. Avoid installation locations in contact with rain, snow, standing water or prolonged direct sunlight. Covered soffits are OK. Veneer/composite materials are not suitable for exterior environments.
FINISHES	
Finishes <i>Interior</i>	LINEA Grilles for interior applications are factory finished smooth in a low VOC coating. Clear finishes, custom stains and painted finishes are also available. Sheen options include matte, satin, or semi-gloss.
Finishes <i>Exterior</i>	LINEA Grilles (solid wood only) for exterior applications are factory finished smooth in a low VOC coating. Clear or custom stains are also available. Sheen options include matte, satin, or semi-gloss. <i>Contact LINEA for more information.</i>
Surface Texture	Surface appearance as smooth or LINEA Textured Face.
Fabric Backer	Optional factory-attached Fabric Backer is available for LINEA Grille products upon request. LINEA does not recommend Fabric Backer for panels with slat spacing greater than 3" on center as the Fabric Backer may sag or become untucked from the adjacent panel due to lack of support. Unevenness in the Fabric Backer is NOT considered a manufacturing defect and may be further magnified by lighting conditions on site. Lighting conditions are the responsibility of the Design Consultant and should be considered when specifying the optional Fabric Backer.
Antibacterial	LINEA offers an Antibacterial Coating for interior wood product installations where cleanliness and hygiene are of the utmost importance. The coating has been specially formulated to provide excellent object/surface protection levels and deliver extraordinarily high physical/chemical resistance. Furthermore, the presence of active metals boosts durability and protects the coating film from bacterial attack and the effects will last over time.
PANEL SIZES	
Panel Sizes	LINEA Grille panels are typically manufactured and sold as 12" wide and in full, even foot increments from 3'-10' long (less 1" reveal).
Tolerances	LINEA panels are built in accordance with CISCA dimensional tolerances.
TECHNICAL DATA	
Fire Rating <i>Solid Wood</i>	Fire retardants are factory applied to all LINEA Grille wood slats prior to further finishing to achieve a Class A Fire Rating when tested to ASTM E-84 (USA) and CAN/ULC S102 (Canada). When site cutting is required, fire retardants can be re-applied to the cut locations and re-sealed to bring the panel back into compliance. Other topically applied chemical fire retardants or intumescent finishes may be used to achieve Class A Fire Rating. In some cases, the specifying consultant may need to file an Alternate Solution with local authorities for approval. LINEA suggests consulting with local building code consultants during the specifying stage to avoid any potential issues related to Fire Rating.
Fire Rating <i>Veneer/ Composite</i>	LINEA Grille panels with real wood or engineered wood veneers are laminated to Class A Fire Rated MDF cores. The combination of Wood Veneer and Finish is less than 1mm thick (0.5mm in most cases) and therefore should not be considered significant to the overall rating.
Acoustics	LINEA Grille panels without additional acoustic insulation will act as a sound diffusor and should be considered acoustically transparent. When paired with acoustical insulation, duct liner, or LINEA PET Backer, the panels can achieve high sound absorption.
Seismic	LINEA Grille panels are engineered for applications in all seismic areas when installed <i>per LINEA installation instructions</i> .
Installation	LINEA Grille panels are commonly suspended from, but not limited to, 15/16" Heavy Duty T-Grid, Steel Studs, Uni-Strut, Wood Furring/Strapping, etc. by way of mechanical screw fastening or LINEA clip hardware. Local building codes should be consulted to determine additional seismic requirements.
Warranty	1 Year Warranty on all LINEA panel products. <i>Contact LINEA for details.</i>
SHIPPING AND SITE CONDITIONS	
Shipping	LINEA products are carefully packaged and shipped in palletized wooden crates.
Site Conditions	Wood products are hygroscopic in nature and must be stored, installed & maintained in a controlled building environment. Temperature range should be maintained between 60° - 90° F (15° - 32° C). Relative Humidity range should be kept within a minimum 25% - max. 55% (not to exceed 20% RH from peaks to valleys). <i>Failure to maintain site conditions will void the LINEA warranty</i>

LINEA GRILLE

PRODUCT DATA SHEET



ACOUSTICS

LINEA GRILLE panels can achieve medium to high NRC and SAA Ratings up to 0.90

LINEA GRILLE	E-400 – NRC/SAA	TYPE A – NRC/SAA
4 Slats / Linear Foot	0.90 / 0.90	0.80 / 0.79
6 Slats / Linear Foot	0.90 / 0.89	0.75 / 0.80
8 Slats / Linear Foot	0.85 / 0.87	0.75 / 0.81

Test Results Disclaimer: Test results achieved by 3rd party, NVLAP accredited laboratory testing and in accordance with ASTM C423; Mounting per ASTM E795: Type E-400 and Type A; and achieved with 1-1/2" thick, 2 lb/ft³ acoustical infill. Results in field may differ from test lab results due to the varying and unique environmental characteristics of each space and location.



Pattern Considerations



Reveals (1") can be **Symmetrical** giving a linear appearance or **Staggered** to minimize joint layout



DISCLAIMERS

Appearance

Variation among wood panel appearance may occur due to the natural characteristics of real wood and wood grain. Variation may be reduced, but not eliminated by using custom stains, tinted clear finishes or engineered wood veneers.

Fire Performance

Individual product components (wood, fabric, metal, finish) comply with Class A fire retardant testing. ASTM E-84 and CAN/ULC S-102 submittal data is based on supplier tests. Product assembly testing has not been completed due to assemblies varying on a project-by-project basis. To exceed today's changing codes and environmental requirements, Linea recommends installing sprinklers in addition to WW using chemical fire retardants. Linea recommends the specifier consult a fire protection engineer, NFPA 13, and local codes for assistance where fire suppression and automatic fire detection systems are present.

Acoustics

A selection of standard LINEA Grille panels have been lab tested per ASTM C423 for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method. This test method covers the measurement of sound absorption in a reverberation room by measuring decay rate. Due to assemblies varying on a project-by-project basis, not all configurations have been tested.



LEED®

Linea products can contribute towards LEED certification

- MR-2.1 | 2.2 Construction Waste Management
- MR-3.1 | 3.2 Materials Reuse
- MR-4.1 | 4.2 Recycled Content
- MR-5.1 | 5.2 Regional Materials (location dependent)
- MR-7.0 Wood available as FSC Certified, upon request
- EQ-3.1 | 3.2 Construction IAQ Management Plan
- EQ-4.1 | 4.2 | 4.4 Low emitting materials

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