

**SUBSTRATE MATERIALS**

We offer wood ceiling and wall products made from three different substrates: MDF, Particle Board, and Solid Wood. The availability of each product and differences between substrates are outlined below.








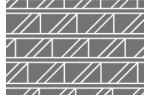

All of our substrates have their unique advantages and drawbacks. Our team will work with you to determine what materials will best suit your project.

MDF (Medium Density Fiberboard) is the most versatile of our substrates. MDF cores contain up to 99% recycled material, making it an ideal option for the environmentally conscious customer. The veneers that are applied over the MDF cores use a small fraction of the lumber used by solid wood, making them an eco-friendly choice as well. With eight standard veneer species, hundreds of others available, and custom staining options, the possibilities are endless. Exotic species and unique grain patterns are much more easily attainable using veneers over solid wood. MDF is usually more cost effective than solid wood. Due to the stability of MDF, custom shapes and large profiles are more easily achieved. MDF cores can also be Class A fire-rated per ASTM E84 standards.

Particle Board can provide many of the same characteristics as MDF, but with a lighter weight and lower cost. The same veneer options are available on Particle Board cores, as well as the recycled content and fire-rating. Particle Board does not possess the same strength and stability as MDF, so some shapes and profiles may not be possible.

Solid Wood can provide a more natural aesthetic than veneers. More variance in grain patterns and colors will be present in Solid Wood. Like veneers, there are hundreds of species available, and custom staining options for endless possibilities. Some Solid Wood species can provide a more rustic appearance with options such as rough-sawn textures, or natural knots and burls. Large profiles are often not possible in Solid Wood, and lengths over 96" may have straightness issues. Solid Wood can be treated with an ESTM E84 Class A fire-rated coating.

Some substrates may not be available for certain products as shown in this chart due to size, profile, and mounting style.

	mdf	particle board	solid wood
 panel	✓	✓	
 grille	✓	✓	✓
 linear	✓	✓	✓
 beam	✓		✓
 acoustiline	✓	✓	
 access	✓	✓	
 canopy	✓		
 louver	✓	✓	✓
 radial	✓	✓	

## VISUAL PRODUCT COMPARISON

The images and information below outline the differences between Real Wood Veneer and Solid Wood materials used in manufacturing our wood ceilings and walls.

### REAL WOOD VENEER

- 3/4" standard profile width. Any height available. Large scale profiles are possible.
- 96" standard module length. Shorter lengths are available. Longer lengths may be available in some cases, at increased cost.
- Custom staining available.
- Zero-VOC 20% gloss clear topcoat gives high clarity, smooth finish.
- ASTM E84 Class A fire rating is standard.
- Eight standard veneer species, with hundreds available. Significant cost savings over solid wood, especially with exotic species.
- Achieve exotic grain patterns and a variety of shapes not possible with solid wood.
- Veneers are eco-friendly, using a fraction of the lumber used by solid wood. Core substrates contain up to 99% recycled material.
- Certified wood available.

veneer species examples - hundreds more available



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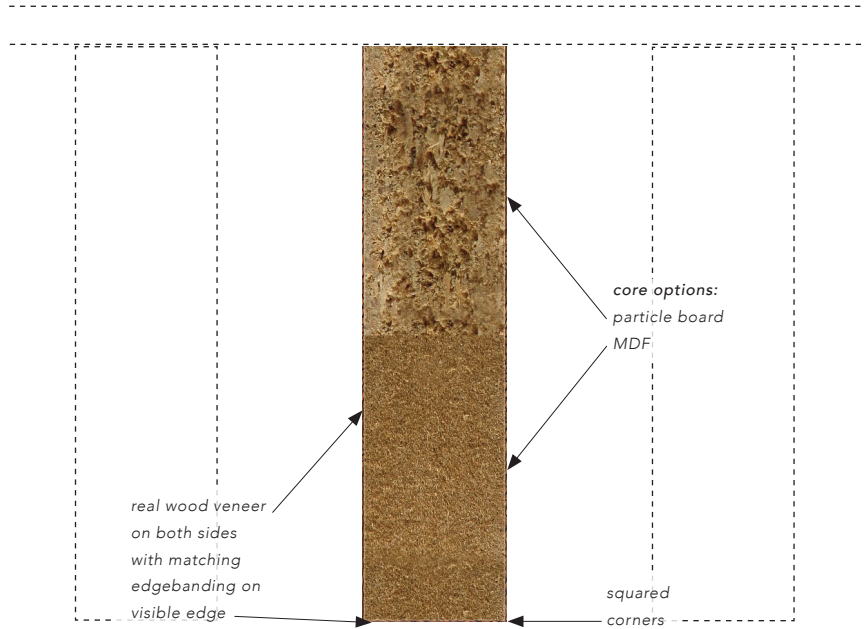
natural bamboo



quartered cherry



walnut



### SOLID WOOD

- 5/8" standard profile width. 1 3/8" and 2 1/4" are standard heights, with many other options available. Large scale profiles are not possible in some cases.
- Module lengths vary and are available in custom sizes. Lengths over 96" are available, but may have straightness issues.
- More natural character and variation than veneers.
- Custom staining available.
- Zero-VOC 20% gloss clear topcoat gives high clarity, smooth finish.
- ASTM E84 Class A fire rating is standard.
- Hundreds of wood species available.
- Solid wood lumber is 100% recyclable.
- Certified wood available.

solid wood species examples - hundreds more available



ash



mixed grain douglas fir



red oak



western red cedar

