

# ARCHITECTURAL PANELS AND VENEER MATCHING

Eggers manufactures architectural panels with custom veneer matching  
for superior quality and aesthetic standards.



**Eggers Industries**



# ARCHITECTURAL PANELING AND VENEER MATCHING

Since 1884, Eggers Industries has been revealing the beauty and grandeur of wood. Our craftsmen who specialize in architectural plywood, along with our veneer matching capabilities, turn even the most common species of wood into extraordinary works of art.

Eggers manufactures panels to drawing specifications and details. We have the capability and capacity to produce architectural paneling with a wide range of requirements, including:

- Curved panels - 36" to 600" radius available
- Sizes up to 72" wide by 192" long
- Matching doors, conference tops and furniture components
- Veneer or lumber banding
- Machining
- Finishing
- Fire-rated construction available
- Ecoustics - Soundwood Acoustical Plywood
- Various core constructions

All Eggers panels, from wall to ceiling panels, meet the highest safety specifications, including UL Class I or II labels on pre-finished wood panels. Whether you're in a majestic boardroom or stepping into a grand lobby, our finely crafted and exquisitely matched panels lift moods and minds to higher levels.

## Architect/Engineer Specifications

Class A Underwriters Laboratory (UL) labeled panels may or may not be factory finished.

## Species

All species with a dry density of 48.0 pcf or less will be labeled as Class I. Density is measured at 12% moisture content.

## Sealing

Factory finished panels are sealed on the backs and edges.

## Flame Spread Test

Flame spread ratings are assigned by Underwriters Laboratories, Inc.® on the basis of ASTM E-84 tunnel tests. Flame spread is a distance and time relationship with the performance of cement asbestos being 0 and untreated Red Oak at 100. Plywood is rated in comparison to these two materials.

- Class Flame Spread  
I or A: 0-25  
II or B: 26-75

Underwriters Laboratories, Inc.® regularly inspects Eggers' manufacturing facilities and approves the application of label to assure proper fire retardant classification.



ENGINEERING SPECIFICATIONS			CORE
Characteristics	Veneer	Particleboard	MDF
Thickness in Inches	1/16" TO 1-1/4"	7/16", 3/4", 1-3/16"	1/4", 1/2", 3/4", 1-1/8" 1-1/4", 1-1/2"
Class I Fire Label on Panel	No	Yes	No
Urea-Formaldehyde Free	Yes	Yes	Yes
FSC® Certified Panel	No	Yes	Yes
Relative Flatness & Stability	Low	High	High
Screw Holding on Face	Best	Good	Better
Screw Holding on Edge	Good	Good	Better
Ease of Edge Machining	Good	Good	Best
Appearance of Edge	Good	Good	Better
Relative Weight	Light	Heavy	Heavy
Core Voids when Cut	Slight	No	No
Strength-to-Weight Ratio	High	Low	Low

### Edge Banding

- Banded with lumber or veneer in matching species to face, or any species of your choice.
- Lumber bands may be concealed or exposed.
- Veneer banding is applied after laminating and may be from the same flitch as the face for greater similarity of color and grain.

### Edge Machining

The edge of the panels can be grooved, splined, rabbeted, mitered or shaped to many profiles.

### Label Finishes

Eggers is authorized to finish products using an acrylated UV-cured urethane system.

### Fire-Rated Labels

- Finished UL labeled panels are constructed with fire-rated particleboard treated with compatible chemicals, modern synthetic heat-resistant adhesives and special finishing materials.
- Available with no added urea-formaldehyde.

### Adhesives

- Type I and Type II glues are standard.
- No added urea-formaldehyde available.

### Industry Standards

- AWS Quality Standards Edition 2, 2014
- Eggers is an AWI QCP Certified Manufacturer.
- ANSI/HPVA HP-1-2009.



## SUSTAINABILITY

Eggers Industries offers doors, veneered panels, conference tops and components that are certified by the Rainforest Alliance to the standards of the Forest Stewardship Council® (FSC®). FSC certified wood products contribute points toward the Leadership in Energy and Environmental Design (LEED®).

Eggers' wide range of finish options is anchored by a UV-cured finish, an environmentally friendly system that meets AWS standards for curable finishes. The UV-cured finishing system consists of water-based stains and 100 percent solid clear coats that are free of Volatile Organic Compounds (VOC).

EGGERS' PANELS	MR 4: Recycled Content**	MR 6: Rapidly Renewable Materials	MR 7: Certified Wood**	EQ 4.4: Composite Wood, Agrifiber and Adhesives Contain No Added Urea-Formaldehyde***	Total Point Contributions with Eggers' Panels
Particleboard*	2				2
No UF Particleboard*	2			1	3
FSC® Certified / No UF Particleboard	2		1	1	4
MDF	2				2
No UF MDF	2			1	3
FSC Certified / No UF MDF	2		1	1	4
Agrifiber	2	1		1	4
Veneer Core				1	1

\*Particleboard available as UL Class A Label.

\*\*Per USGBC guidelines, the value of any content that contributes to MR #4 cannot also be attributed to the MR #7.0 calculation.

\*\*\* The product construction is only urea-formaldehyde free if it is ordered as urea-formaldehyde free.

## EGGERS STOCK PANELS

Eggers' plywood division can meet your needs for quality stock panels in as fast as 5 working days. Order to ship.

### Stock Veneers<sup>1</sup>

PS White Maple	PS Red Oak
QD White Maple	QD Red Oak
PS Walnut	Rift Red Oak
QD Walnut	PS White Oak
PS Cherry	QD White Oak
QD Cherry	Rift White Oak

### Construction

Eggers standard 3-ply construction.  
Particleboard, Fire Retardant Particleboard, No Added Urea-Formaldehyde Particleboard, FSC® certified Particleboard, MDF, Veneer Core and FSC certified MDF.

### Panel Thickness

1/2", 3/4" - Call for availability of additional thicknesses.

### Quantity

No minimum - quantities greater than 100 may increase lead times.

### Dimensions<sup>2</sup>

4x8, 5x8, 4x10, 5x10

### Questions

Confirm purchase order with your Account Manager. Submitting purchase orders without complete product details may extend the ship date.

### Revision to Order

Revisions to orders may result in extending the acknowledged ship date.

### Price

Please contact your Eggers representative for pricing.

### Constructions

LEED® contributing constructions available.

<sup>1</sup>Other species available with increased lead time. <sup>2</sup>All panels are oversized; cut-to-size are available upon request. Please note - standard sanding is 120/150/180 grit.



## MATCHING VENEER LEAVES WITHIN A PANEL



### Balance Match

- Each panel face is assembled from veneer leaves of uniform width before edge trimming.
- Panels may contain an even or odd number of leaves and distribution may change from panel to panel within a sequence set.



### Center Match

- Each panel face is assembled of an even number of veneer leaves of uniform width before edge trimming.
- There is a veneer joint in the center of the panel producing horizontal symmetry.



### Running Match

- Each panel face is assembled from as many veneer leaves as necessary.
- Results in a non-symmetrical appearance with some veneer leaves of unequal width.
- Often the most economical method at the expense of aesthetics.



### Book Match

- Veneer joints match, creating a symmetrical pattern. Yields maximum continuity of grain.
- Prominent characteristics will ascend or descend across the match.
- Because tight side and loose side face alternate in adjacent leaves, they reflect light and accept stains differently. This may yield a noticeable color variation, termed "Barber Pole." Barber Pole is not considered a defect.
- The effect may be minimized through the use of proper finishing techniques.



### Slip Match

- Adjoining leaves are slipped out in sequence with all same-face sides exposed.
- The joint may not be noticeable if grain is straight.
- Figure repeats, but grain does not match at joints.
- Produces a uniform color because all faces have a similar light reflection.
- A leaning effect may occur if the specie used does not demonstrate a straight grain.



### Diamond Match



### Box Match

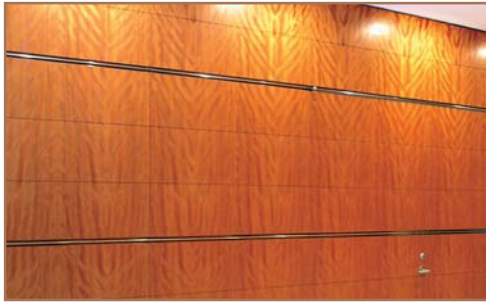


### Sunburst



### Reverse Diamond Match

## MATCHING FACES BETWEEN PANELS



### Blueprint Match

- Architectural grade veneers are matched for continuity of grain and color for various size panels, doors and transoms.



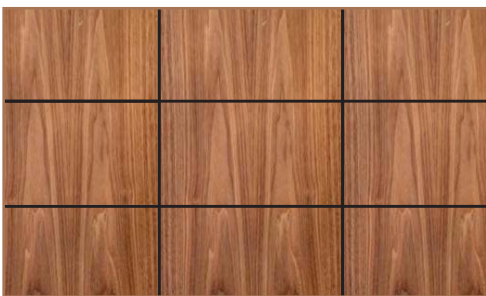
### Sequence Match

- All panels are uniform length.
- Architectural grade veneers are matched for color and all panels of the same size will have continuity of grain.
- Other size panels must be cut during installation which may interrupt grain continuity.



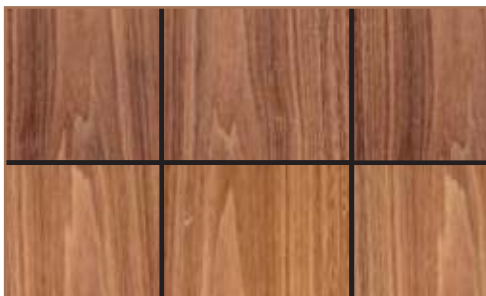
### End Match

- Veneer is book matched end-to-end as well as side-to-side.
- Wood grain is continuous in length, as well as width.
- Appropriate when panel height exceeds the veneer length.



### Continuous End Match

- Multiple panels end matched for length using a single length of veneer.
- Made as a single panel for length and then cut apart.



### Stack Match

- The panels are sequenced left to right, starting with the bottom row.
- Leaf width is maintained vertically between rows.



**Eggers Industries**  
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Veneered Components, Plywood**

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Fax: 920.793.2958

**Flush Doors**

**Neenah Division**  
164 North Lake Street  
Neenah, WI 54956  
Phone: 920.722.6444  
Fax: 920.722.0357

**Architectural Veneer Faces,  
Custom Wood Products, Plywood**

**Kentucky Division**  
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Smithfield, KY 40068  
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Eggers releases regular product updates. Please visit [www.eggersondustries.com](http://www.eggersondustries.com) for the most current and accurate technical information. Specification details published online supersede those in print.

The FSC certification ensures responsible use of forest products. 301-02-15  
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The mark of  
responsible forestry

