

We start with beautiful, renewable North American hardwoods. From the felling of the log, through sawing, planing, grading, and packaging, our wood flooring is created entirely here in the U.S. Whether we're making rustic or higher grade floors, we follow the same strict standards with milling, grading, and moisture control. Count on Muscanell for wood flooring made in the proud tradition of craftsmen.

**American Cherry** is a fine-grained wood with reddish-brown heartwood, interspersed with cream-colored sapwood. It is about 25% softer than Red Oak, but also about 30% more stable.

**Mesa Cherry** results in a floor with a rustic look including lots of contrasting color and character. Contains: color variation; knots up to 2" in diameter; holes up to 3/4" in diameter; cracks that don't compromise the integrity of the flooring; other character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'.

**Hacienda Cherry**, our highest grade, creates a floor with a refined look and more consistent color. Contains: less extreme variations in color than Casa grade; occasional small pin knots (up to 3/16" in diameter); small amounts of gum; sap not to exceed 10% of the surface area of the floor; occasional small pin knots (up to 3/16" in diameter). Lengths of planks vary from 1' to 10', with an average of about 3.5'.

# Cherry

MESA GRADE





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**Hickory** is an extremely hard flooring material, although less moisture stable than the oaks.

**Mesa Hickory** results in a floor with lots of rustic character and color contrast, and long length. Contains: color variation; knots up to 2" in diameter; holes up to 3/4" in diameter; cracks which don't compromise the integrity of the flooring; infrequent small traces of grey sap stain; other character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'.

**Madera Hickory** results in a floor with an overall rustic appearance, lots of color contrast, but with some clear boards and very nice length. Contains: color variation; knots up to 2" in diameter; holes up to 1/2" in diameter; some cracks; infrequent traces of grey sap stain; other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'+.

**Casa Hickory** results in a floor with beautiful contrasting tones, and character marks requiring very little fill. Contains: color variation; knots up to 1-1/2" in diameter; other occasional character marks; occasional small open holes (up to 1/4" in diameter); no grey sap stain. Character marks are not allowed on edges or ends of planks. Lengths of planks vary from 1' to 10', with an average of 5'.

**Hacienda Hickory**, our highest grade, creates a floor with some contrast, but less extreme color variations, and long length. Contains: less extreme variations in color than Casa grade; occasional small pin knots (up to 3/16" in diameter); no grey sap stain. Lengths of planks vary from 1' to 10', with an average of 5'.

# Hickory

CASA GRADE





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# Hickory

MESA GRADE



MUSCATELL MILLWORKS, INC.  
*Count on Quality*

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**Madrone** is a fine-grained wood prized by furniture builders. It is little known outside its native region (Oregon and California). It is a very durable wood, comparable in density to White Oak. Its coloration ranges from cream to salmon to dark reddish-brown.

All the Madrone lumber we run comes from mills that are part of the "Healthy Forests, Healthy Communities Partnership," an organization of wood manufacturers, rural leaders, and community groups dedicated to forest restoration and community vitality.

**Madera Madrone** results in a floor with a rustic, "old world" feel, rich in variations of grain and color. Contains: color variation; knots up to 2" in diameter; holes up to ½" in diameter; some cracks; other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'.

# Madrone

MADERA GRADE



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**Red Oak** remains the most popular wood for flooring. It is a hard wood, and relatively moisture stable.

**Casa Red Oak** results in a floor with beautiful contrasting tones, and sound defect requiring very little fill. Contains: color variation; infrequent knots up to 1-1/2" in diameter; occasional small open holes (up to 1/4" in diameter); small bug holes; other occasional character marks; no grey sap stain. Character marks are not allowed on edges or ends of planks. Lengths of planks vary from 1' to 10', with an average of 5'.

**Mesa Red Oak** results in a floor with lots of rustic character, contrast, and long length. Contains: color variation; knots up to 2" in diameter; holes up to 3/4" in diameter; cracks that don't compromise the integrity of the flooring; grub holes of any size; infrequent small traces of grey stain; other character marks. The grub holes can be fairly long, deep grooves, typically 3/8" to 1/2" wide, and average about 3" long. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'+.

# Red Oak

MESA GRADE



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Buckboard flooring features a special surface texture that preserves some of the random circle-saw and band-saw marks that were made when the log was first cut into boards. These sawmarks are subdued with our process of wirebrushing and polishing. A bevel on the sides also softens the edges of the planks. A staining process that accentuates the saw marks can be done during installation.

We can produce Buckboard flooring in White Oak, Hickory, Walnut, and sometimes other species

**Buckboard** flooring results in a rustic, antique look, featuring some original saw marks, but still designed for everyday living. Contains: circle-saw and/or band-saw marks; some small areas of overwood and underwood where deeper saw marks occur; color variation; knots up to 2" in diameter; open holes up to 3/4" diameter; cracks which don't compromise the integrity of the flooring; other character marks. Any defect found in rough lumber such as crayon marks and water marks can occur near sawmarks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'.

*TOP: White Oak Buckboard, shown with a dark stain to accentuate saw marks.  
BOTTOM: Hickory Buckboard, shown with a dark stain to accentuate saw marks.*

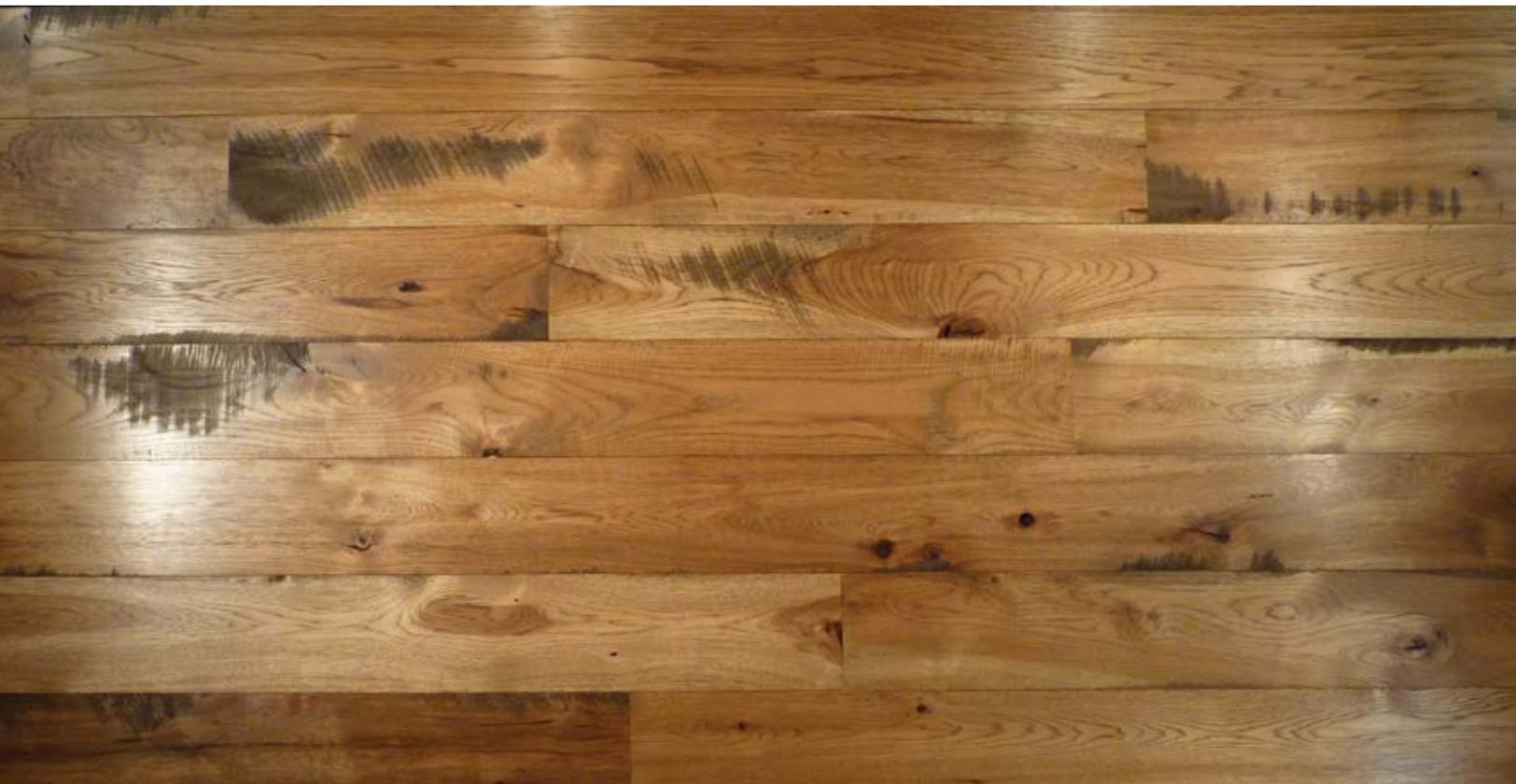
# Buckboard



WHITE OAK



HICKORY



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**American Black Walnut** is a moderately dense and very stable wood. Compared to Red Oak, it is about 25% more moisture stable and about 20% softer. Our Walnut lumber is steamed, mellowing the usually white sap wood to a cream color.

**Madera Walnut** results in a floor with overall dark color, interesting grain, and numerous knots. Contains: a range of color; unlimited sap wood (normally a small amount); numerous knots up to 2" in diameter; holes up to 1/2" in diameter; some cracks and pith; other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'.

**Hacienda Walnut** results in a floor with a more consistent grain pattern, and very few knots. Contains: occasional 1/2" sound knots; up to 30% sap (steamed) over the total surface area of the floor. Lengths will vary from 1' to 10' with an approx. 3.5' average length.

*SHOWN: Hacienda grade, but customized to a longer average length. Widths 4", 8", 10".*

# Walnut

CUSTOM HACIENDA GRADE



MUSCANELL MILLWORKS INC.  
*Count on Quality*

# Cathedral Cut

WHITE OAK



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**Cathedral Cut White Oak** flooring starts with logs that are selected for grade and size from a particular region of the USA. The logs are sawn so that the boards exhibit quartersawn or riftsawn on the outer edges, and plainsawn toward the center of the board. This style of cutting, also sometimes referred to as French Cut or European Cut, dates back more than a century.

Muscanell's **Cathedral Cut White Oak** results in a grand rustic, long-length floor that shows off all the grain patterns of White Oak. It is a rustic product, but the grading does not fall neatly within the description of our other custom grades (Mesa, Madera etc). We maximize length of the planks in our Cathedral Cut by including larger knots, holes, and other character marks. Contains: grain variation including plainsawn, quartersawn, and riftsawn (often all within one plank); unlimited knot size (knots are included as long as they are fillable); color variation; some sapwood; small areas of scant (unplaned wood). Lengths are 2' to 10'.

# Cathedral Cut

WHITE OAK





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A time-tested favorite, **White Oak** is a very durable flooring material.

**Mesa White Oak** results in a floor with a rustic look including lots of contrasting color and character. Contains: color variation; knots up to 2" in diameter (including open knots); holes up to 3/4" in diameter; cracks that don't compromise the integrity of the flooring; other character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'.

**Madera White Oak** creates a floor with an overall rustic appearance, but with some clear boards and very nice length. Contains: a range of color; knots up to 2" in diameter; holes up to 1/2" in diameter; some cracks and pith; unlimited sapwood (normally a small amount); other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'+.

**Casa White Oak** results in a floor with beautiful contrasting tones, and character requiring very little fill. Contains: color variation; knots up to 1-1/2" in diameter; other occasional character marks; small open holes, up to 1/4" in diameter. Character marks are not allowed on edges or ends of planks. Lengths of planks vary from 1' to 10', with an average of 5'.

**Hacienda White Oak**, our highest grade, creates a floor with a refined look, more consistent color, and long length. Contains: less extreme variations in color than Casa grade; occasional small pin knots (up to 3/16" in diameter); small mineral streaks. Lengths of planks vary from 1' to 10', with an average of 5'.

TOP: Madera grade  
BOTTOM: Hacienda grade

# White Oak

MADERA & HACIENDA GRADES

MADERA GRADE



HACIENDA GRADE

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# Walnut

MADERA GRADE



MUSCATELL MILLWORKS, INC.  
*Count on Quality*

# White Oak

QUARTERSAWN / RIFTSAWN



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A traditional favorite, **Quartersawn/Riftsawn White Oak** is a very durable flooring material. It is derived from lumber which is cut with the grain oriented at a 30° to 90° angle to the face of the plank. Not only does the quartersawing process produce an attractive appearance in the wood, but also results in improved durability, surface smoothness, and stability (it is about 50% more stable than plain-sawn White Oak). Many planks contain interesting medullary rays or "fleck."

**Madera Quartersawn/Riftsawn White Oak** results in a floor with the classic quartersawn look with occasional rustic defects and nice long length. Contains: color variation; knots up to 2" in diameter; holes up to 1/2" in diameter; some cracks and pith; a small amount of sap wood; other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10' with an average of 5'.

**Hacienda Quartersawn/Riftsawn White Oak**, our highest grade, creates a floor with a refined look and more consistent color. Contains: less extreme variations in color than Casa grade; occasional small pin knots (up to 3/16" in diameter); small mineral streaks. Lengths of planks vary from 1' to 10', with an average of 3.5'.

# White Oak

QUARTERSAWN / RIFTSAWN MADERA



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**Madera White Oak** creates a floor with an overall rustic appearance, but with some clear boards and very nice length. Contains: a range of color; knots up to 2" in diameter; holes up to 1/2" in diameter; some cracks and pith; unlimited sapwood (normally a small amount); other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of 5'+.

**Casa White Oak** results in a floor with beautiful contrasting tones, and character requiring very little fill. Contains: color variation; knots up to 1-1/2" in diameter; other occasional character marks; small open holes, up to 1/4" in diameter. Character marks are not allowed on edges or ends of planks. Lengths of planks vary from 1' to 10', with an average of 5'.

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# White Oak

CASA GRADE



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# White Oak

MESA GRADE



MUSCATELLI MILLWORKS, Inc.  
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# White Oak

QUARTERSAWN / RIFTSAWN



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**Madera Quartersawn/Riftsawn White Oak** results in a floor with the classic quartersawn look with occasional rustic defects and nice long length. Contains: color variation; knots up to 2" in diameter; holes up to 1/2" in diameter; some cracks and pith; a small amount of sap wood; other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10' with an average of 5'.

**Hacienda Quartersawn/Riftsawn White Oak**, our highest grade, creates a floor with a refined look and more consistent color. Contains: less extreme variations in color than Casa grade; occasional small pin knots (up to 3/16" in diameter); small mineral streaks. Lengths of planks vary from 1' to 10', with an average of 3.5'.

# White Oak

QUARTERSAWN / RIFTSAWN  
HACIENDA GRADE



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Despite its name, **Tanoak** is actually more closely related to Beech, but has characteristics similar to the oaks. This is a very hard wood (rated harder than White Oak). It has mostly uniform grain, with no distinct difference between heartwood and sapwood. Many pieces contain ray fleck.

All the Tanoak flooring we run comes from mills that are part of the "Healthy Forests, Healthy Communities Partnership," an organization of wood manufacturers, rural leaders, and community groups dedicated to forest restoration and community vitality.

**Madera Tanoak** results in a floor with an overall rustic appearance, mostly uniform color and some interesting ray fleck. Contains: some color variation including occasional grey sap stain; knots (both sound and open) up to 2" in diameter; holes up to ½" in diameter; some cracks and pith; other occasional character marks. The rustic character is allowed anywhere on the face of the planks. Lengths of planks vary from 1' to 10', with an average of about 5'.

# Tanoak

MADERA GRADE



MUSCATELLI MILLWORKS, Inc.  
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# Grade Guide

SHOWN: HICKORY



MUSCANELL MILLWORKS<sup>INC.</sup>  
*Count on Quality*



## **MESA**

Our most rustic grade. Long average length.



## **MADERA**

Comparable to a blend of #1 Common and #2 Common, but longer average length.



## **CASA**

Comparable to #1 Common, but longer average length.



## **HACIENDA**

Comparable to Select & Better, but longer average length.

Since we are producing plank flooring, mainly in rustic grades, our goal is to include desirable defects that show off the wood's variety of natural character. We have created custom grades to achieve this. Below is a guide that will help you compare our flooring to traditional grades.

*(Please note: We make every effort to represent the range of variation within each grade in our photos and samples, but wood is a natural product and photos and samples will not always show every possible variation.)*

*For more information, please visit us at [www.Muscanell.com](http://www.Muscanell.com)*