

SPECIES CHARACTERISTICS

SPECIES: ASH, BIRCH, MAPLE, POPLAR									
Cut: Plain sliced (flat cut), quarter, rotary									
GRADE DESCRIPTION	AA			A			B		
COLOR AND MATCHING	SAP (WHITE)	HEART (BROWN)	NATURAL	SAP (WHITE)	HEART (BROWN)	NATURAL	SAP (WHITE)	HEART (BROWN)	NATURAL
Sapwood	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes
Heartwood	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Color Streaks or Spots	Slight			Slight	Yes		Yes		
Color Variation	Slight		Yes	Slight	Yes		Yes		
Sharp Color Contrasts at Joints	AWI: No		WDMA: Yes	AWI: No		WDMA: Yes	AWI: No		WDMA: Yes
TYPE OF MATCHING									
Book Matched	Yes			Yes			Specify		
Slip Matched	Specify			Specify			Specify		
Pleasant Matched	Not applicable			Not applicable			Yes		
Random Matched	Specify			Specify			Specify		
End Matched	Specify			Specify			Specify		
Nominal Minimum Width of Face Components*		AWI	WDMA		AWI	WDMA		AWI	WDMA
	Plain-Sliced	6" (152 mm)	5" (127 mm)	Plain-Sliced	5" (127 mm)	4" (102 mm)	Plain-Sliced	3" (76 mm)	3" (76 mm)
	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)
	Rotary	6" (152 mm)	5" (127 mm)	Rotary	5" (127 mm)	4" (102 mm)	Rotary	4" (102 mm)	4" (102 mm)
NATURAL CHARACTERISTICS									
Small Conspicuous Burls & Pin Knots - Combined Avg. Number	2 per 1 square meter (10 square feet)			4 per 1 square meter (10 square feet)			6 per 1 square meter (10 square feet)		
Conspicuous Burls - Max. Size	1/4" (6 mm)			3/8" (9 mm)			1/2" (13 mm)		
Conspicuous Pin Knots - Avg. Number	No			4 per 3 square meters (32 square feet)			3 per 1 square meter (10 square feet)		
Max. Pin Knot Size - Dark Part				1/8" (3 mm)			1/8" (3 mm)		
Max. Pin Knot Size - Total				1/4" (6 mm)			1/4" (6 mm)		
Scattered Sound and Repaired Knots - Combined Avg. Number	No			No			4 per 3 square meters (32 square feet)		
Maximum Size - Sound							3/8" (9 mm)		
Maximum Size - Repaired							1/8" (3 mm)		
Average Number - Repaired							4 per 3 square meters		
Mineral Streaks	No (Maple slight)			Slight			Slight		
Bark Pockets	No			No			Few to 1/8" x 1" (3 mm x 25 mm)		
Worm Tracks	Slight			Slight			Yes		
Vine Marks	Slight			Slight			Slight		
Cross Bars	Slight			Slight			Yes		
MANUFACTURING CHARACTERISTICS									
Rough Cut/Ruptured Grain	No			No			Slight		
Blended Repaired Tapering Hairline Splits	Two 1/32" x 3" (0.8 mm x 76 mm) on panel ends only			Two 1/16" x 6" (1.6 mm x 152 mm)			Four 1/8" x 8" (3 mm x 203 mm)		
Repairs	Very small blending			Small blending			Blending		
SPECIAL CHARACTERISTICS									
Under Color and Matching: Red available in Birch and some Maple only, Brown available in Ash Only.									
Unfilled worm holes, open splits, open joints, open bark pockets, or doze not permitted in above grades. *Outside components will be a different size to allow for edge trim loss and certain types of matching.									

Reference: 2005 AWI/AWMAC - 8th Edition Quality Standards and WDMA 1.S.1A-04



SPECIES CHARACTERISTICS

SPECIES: RED AND WHITE OAK									
Cut: Plain sliced (flat cut), quarter, rift and comb grain, rotary									
GRADE DESCRIPTION	AA			A			B		
COLOR AND MATCHING	RED	<OAK>	WHITE	RED	<OAK>	WHITE	RED	<OAK>	WHITE
Sapwood	No		No	5%*		Yes*	10-20%**		Yes
Heartwood	Yes		Yes	Yes		Yes	Yes		Yes
Color Streaks or Spots	Yes			Yes			Yes		
Color Variation	Slight			Slight			Yes		
Sharp Color Contrasts at Joints	AWI: No		WDMA: Yes	AWI: No		WDMA: Yes	AWI: No		WDMA: Yes
TYPE OF MATCHING									
Book Matched	Yes			Yes			Specify		
Slip Matched	Specify			Specify			Specify		
Pleasant Matched	Not applicable			Not applicable			Yes		
Random Matched	Specify			Specify			Specify		
End Matched	Specify			Specify			Specify		
Nominal Minimum Width of Face Components***		AWI	WDMA		AWI	WDMA		AWI	WDMA
	Plain-Sliced	6" (152 mm)	5" (127 mm)	Plain-Sliced	5" (127 mm)	4" (102 mm)	Plain-Sliced	3" (76 mm)	3" (76 mm)
	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)
	Rotary	6" (152 mm)	5" (127 mm)	Rotary	5" (127 mm)	4" (102 mm)	Rotary	4" (102 mm)	4" (102 mm)
NATURAL CHARACTERISTICS									
Small Conspicuous Burls & Pin Knots - Combined Avg. Number	3 per 1 square meter (10 square feet)			4 per 1 square meter (10 square feet)			8 per 1 square meter (10 square feet)		
Conspicuous Burls - Max. Size	1/4" (6 mm)			3/8" (9 mm)			1/2" (13 mm)		
Conspicuous Pin Knots** - Avg. Number				4 per 1 square meter (10 square feet)			6 per 1 square meter (10 square feet)		
Max. Pin Knot Size - Dark Part	No			1/8" (3 mm)			1/8" (3 mm)		
Max. Pin Knot Size - Total				1/4" (6 mm)			1/4" (6 mm)		
Scattered Sound and Repaired Knots - Combined Avg. Number							4 per 3 square meters (32 square feet)		
Maximum Size - Sound	No			No			3/8" (9 mm)		
Maximum Size - Repaired							1/8" (3 mm)		
Average Number - Repaired							4 per 3 square meters		
Mineral Streaks	No			Slight, Blending			Few to 12" (305 mm)		
Bark Pockets	No			No			Few to 1/8" x 1" (3 mm x 25 mm)		
Worm Tracks	No			No			Slight		
Vine Marks	No			Slight			Yes		
Cross Bars	Slight			Slight			Yes		
MANUFACTURING CHARACTERISTICS									
Rough Cut/Ruptured Grain	No			No			Slight		
Blended Repaired Tapering Hairline Splits	Two 1/32" x 3" (0.8 mm x 76 mm) on panel ends only			Two 1/16" x 6" (1.6 mm x 152 mm)			Four 1/8" x 8" (3 mm x 203 mm)		
Repairs	Very small blending			Small blending			Blending		
SPECIAL CHARACTERISTICS									
Ray Fleck****	Slight, Blending			Slight, Blending			Slight, Blending		
Rift and Comb Grain	Rift permits 1" (1 mm) in 12" (12 mm) max. grain slope; 2.5" (2.5 mm) in 12" (12 mm) max. grain sweep; occasional flake not to exceed 3/8" (9 mm) in width. Comb grain permits 0.5" (0.5 mm) in 12" (12 mm) max. grain slope; 0.5" (0.5 mm) in 12" (12 mm) max. grain sweep; occasional flake not to exceed 3/32" (2.45 mm) in width.								
Unfilled worm holes, open splits, open joints, open bark pockets, or doze not permitted in above grades. *Sap allowed in Rotary only unless otherwise specified. **10% Sap allowed in Rift, Comb and Plain-Sliced; 20% sap allowed in Rotary. ***Outside components will be a different size to allow for edge trim loss and certain types of matching. ****In the absence of specific flitch selection by owner representative, the natural distribution of ray fleck in quarter cut Red and White Oak is unlimited.									

Reference: 2005 AWI/AWMAC - 8th Edition Quality Standards and WDMA 1.5.1A-04



SPECIES CHARACTERISTICS

SPECIES: WALNUT AND CHERRY									
Cut: Plain sliced (flat cut), quarter, rotary									
GRADE DESCRIPTION	AA			A			B		
COLOR AND MATCHING									
Sapwood	No			No*			No*		
Heartwood	Yes			Yes			Yes		
Color Streaks or Spots	Slight			Slight			Yes		
Color Variation	Slight			Slight			Yes		
Sharp Color Contrasts at Joints	AWI: No	WDMA: Yes		AWI: No	WDMA: Yes		AWI: No	WDMA: Yes	
TYPE OF MATCHING									
Book Matched	Yes			Yes			Specify		
Slip Matched	Specify			Specify			Specify		
Pleasant Matched	Not applicable			Not applicable			Yes		
Random Matched	Specify			Specify			Specify		
End Matched	Specify			Specify			Specify		
Nominal Minimum Width of Face Components**		AWI	WDMA		AWI	WDMA		AWI	WDMA
	Plain-Sliced	6" (152 mm)	5" (127 mm)	Plain-Sliced	5" (127 mm)	4" (102 mm)	Plain-Sliced	3" (76 mm)	3" (76 mm)
	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)
	Rotary	6" (152 mm)	5" (127 mm)	Rotary	5" (127 mm)	4" (102 mm)	Rotary	4" (102 mm)	4" (102 mm)
NATURAL CHARACTERISTICS									
Small Conspicuous Burls & Pin Knots - Combined Avg. Number	3 per 1 square meter (10 square feet)			8 per 1 square meter (10 square feet)			22 per 1 square meter (10 square feet)		
Conspicuous Burls - Max. Size	1/4" (6 mm)			3/8" (9 mm)			1/2" (13 mm)		
Conspicuous Pin Knots - Avg. Number	3 per 1 square meter (10 square feet)			6 per 1 square meter (10 square feet)			11 per 1 square meter (10 square feet)		
Max. Pin Knot Size - Dark Part	1/8" (3 mm)			1/8" (3 mm)			1/8" (3 mm)		
Max. Pin Knot Size - Total	1/4" (6 mm)			1/4" (6 mm)			1/4" (6 mm)		
Scattered Sound and Repaired Knots - Combined Avg. Number							4 per 3 square meters (32 square feet)		
Maximum Size - Sound	No			No			3/8" (9 mm)		
Maximum Size - Repaired							1/8" (3 mm)		
Average Number - Repaired							4 per 3 square meters		
Mineral Streaks	Slight			Slight			Yes		
Bark Pockets	No			No			Few to 1/8" x 1" (3 mm x 25 mm)		
Worm Tracks	No			No			Slight		
Vine Marks	Slight			Occasional			Yes		
Cross Bars	Slight			Occasional			Yes		
MANUFACTURING CHARACTERISTICS									
Rough Cut/Ruptured Grain	No			No			Slight		
Blended Repaired Tapering Hairline Splits	Two 1/32" x 3" (0.8 mm x 76 mm) on panel ends only			Two 1/16" x 6" (1.6 mm x 152 mm)			Two 1/8" x 8" (3 mm x 203 mm)		
Repairs	Very small, blending			Small, blending			Blending		
SPECIAL CHARACTERISTICS									
Gum spots	Occasional (Permitted in Cherry)			Occasional (Permitted in Cherry)			Gum spots and gum streaks (Permitted in Cherry)		
Unfilled worm holes, open splits, open joints, open bark pockets, or doze not permitted in above grades. *Sap is allowed in A and B grades; however the percentage to be agreed to by buyer and seller. **Outside components will be a different size to allow for edge trim loss and certain types of matching. For Walnut and Cherry, conspicuous pin knots means sound knots 1/4" (6.4 mm) or less in diameter with dark centers larger than 1/16" (1.6 mm). Blending pin knots are sound knots 1/4" (6.4 mm) or less in diameter with dark centers of 1/16" (1.6 mm) or less and are allowed in all grades of Walnut and Cherry.									

Reference: 2005 AWI/AWMAC - 8th Edition Quality Standards and WDMA 1.S.1A-04



SPECIES CHARACTERISTICS

SPECIES: AFRICAN AND HONDURAS MAHOGANY

Cut: Plain sliced (flat cut), quarter, rotary

GRADE DESCRIPTION	AA			A			B		
COLOR AND MATCHING									
Sapwood	No			No			No		
Heartwood	Yes			Yes			Yes		
Color Streaks or Spots	Slight			Slight			Occasional		
Color Variation	Slight			Slight			Moderate		
Sharp Color Contrasts at Joints	AWI: No		WDMA: Yes	AWI: No		WDMA: Yes	AWI: No		WDMA: Yes
TYPE OF MATCHING									
Book Matched	Yes			Yes			Specify		
Slip Matched	Specify			Specify			Specify		
Pleasant Matched	Not applicable			Not applicable			Yes		
Random Matched	Specify			Specify			Specify		
End Matched	Specify			Specify			Specify		
Nominal Minimum Width of Face Components*		AWI	WDMA		AWI	WDMA		AWI	WDMA
	Plain-Sliced	6" (152 mm)	5" (127 mm)	Plain-Sliced	5" (127 mm)	4" (102 mm)	Plain-Sliced	3" (76 mm)	3" (76 mm)
	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)	Quarter/Rift	3" (76 mm)	3" (76 mm)
	Rotary	6" (152 mm)	5" (127 mm)	Rotary	5" (127 mm)	4" (102 mm)	Rotary	4" (102 mm)	4" (102 mm)
NATURAL CHARACTERISTICS									
Small Conspicuous Burls & Pin Knots - Combined Avg. Number	2 per 1 square meter (10 square feet)			4 per 1 square meter (10 square feet)			6 per 1 square meter (10 square feet)		
Conspicuous Burls - Max. Size	1/4" (6 mm)			3/8" (9 mm)			1/2" (13 mm)		
Conspicuous Pin Knots - Avg. Number				4 per 3 square meters (32 square feet)			3 per 1 square meter (10 square feet)		
Max. Pin Knot Size - Dark Part	No			1/8" (3 mm)			1/8" (3 mm)		
Max. Pin Knot Size - Total				1/4" (6 mm)			1/4" (6 mm)		
Scattered Sound and Repaired Knots - Combined Avg. Number							4 per 3 square meters (32 square feet)		
Maximum Size - Sound	No			No			3/8" (9 mm)		
Maximum Size - Repaired							1/8" (3 mm)		
Average Number - Repaired							4 per 3 square meters		
Mineral Streaks	No			Slight			Occasional		
Bark Pockets	No			No			Few to 1/8" x 1" (3 mm x 25 mm)		
Worm Tracks	No			No			Slight		
Vine Marks	Slight			Slight			Yes		
Cross Bars	Occasional			Occasional			Yes		
MANUFACTURING CHARACTERISTICS									
Rough Cut/Ruptured Grain	No			No			Slight		
Blended Repaired Tapering Hairline Splits	Two 1/32" x 3" (0.8 mm x 76 mm) on panel ends only			Two 1/16" x 6" (1.6 mm x 152 mm)			Two 1/8" x 8" (3 mm x 203 mm)		
Repairs	Very small blending			Small blending			Blending		
SPECIAL CHARACTERISTICS									
*Grade AA will permit occasional slight worm tracks, and Grade A will permit occasional worm tracks.									
Unfilled worm holes, open splits, open joints, open bark pockets, or doze not permitted in above grades.									
*Outside components will be a different size to allow for edge trim loss and certain types of matching.									

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