

Species Fact Sheet



# American Hard Maple – Acer saccharum/nigrum

Other Names: Rock Maple, Sugar Maple, Black Maple Region of Origin: United States, Canada

#### SPECIES OVERVIEW:

American Hard Maple colouring is cream-white with a pinkish tinge. Usually straight grain but sometimes curly or wavy and the texture is fine and even. Fine brown lines give an attractive growth ring figure. Large trees may have dark brown heart. The timber has high resistance to abrasion and wear and finishes very well.

#### MAIN USES:

Furniture, cabinet making, interior joinery, boatbuilding, flooring and musical instruments.

#### WORKING PROPERTIES:

A moderately difficult wood to work with a slight blunting effect. Takes glue, stain and polish very well.

#### MECHANICAL PROPERTIES:

High in all strength properties except stiffness which is medium. It has a very good steam bending classification.

#### AVAILABILITY:

Specifications stocked at Rosenfeld Kidson are: Sawn 25mm, 40mm, 50mm and 75mm thicknesses in varying mixed widths.

#### GRADING:

Prime (FAS).

DENSITY (kg/m3)*:	720		
DURABILITY:	Non-durable		
STRENGTH GROUP:	SD4		
MOR (MPa):	117		
MOE(GPa):	12.6		
JANKA(kN):	6.0		
SHRINKAGE GREEN TO 12% M.C.	Tangential	Radial	
	9.0	3.0	

\*Air Dry Density (kg/m3) is average indication only and actual value may vary. Refer to timber properties tables over page for strength, shrinkage and durability classifications.

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#### STRENGTH GROUPINGS:

Minimum values for strength groups ( <u>unseasoned</u> timber) (units are Mpg = 145 lb/sg.inch)			Minimum values for strength groups ( <u>seasoned</u> timber) (units are Mpa = 145 lb/sg.inch)				
Strength group	Modulus of rupture	Modulus of elasticity	Maximum crushing strength	Strength group	Modulus of rupture	Modulus of elasticity	Maximum crushing strength
S1	103	16300	52	SD1	150	21500	80
S2	76	14200	43	SD2	130	18500	70
S3	73	12400	36	SD3	110	16000	61
S4	62	10700	31	SD4	94	14000	54
S5	52	9100	26	SD5	78	12500	47
S6	43	7900	22	SD6	65	10500	41
S7	36	6900	18	SD7	55	9100	36
				SD8	45	7900	30

### SHRINKAGE CLASSIFICATIONS:

Description of shrinkage	Shrinkage from Green to Oven-dry (12% MC)				
Sminkage	(%) before reconditioning				
	Tangential	Radial			
Very low	0 - 3.5	0 - 2			
Low	3.5 - 5.0	2 - 3			
Medium	5.0 - 6.5	3 - 4			
High	6.5 - 8.0	4 - 5			
Very high	> 8.0	> 5			

## DURABILITY CLASSIFICATIONS:

Grade of durability	Approximate service life (years)					
	Fully protected	Above ground, exposed	In-ground, exposed			
Very durable	>50	>40	>25			
Durable	>50	15-40	15-25			
Moderately durable	>50	7-15	5-15			
Non-durable	>50	0-7	0-5			

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