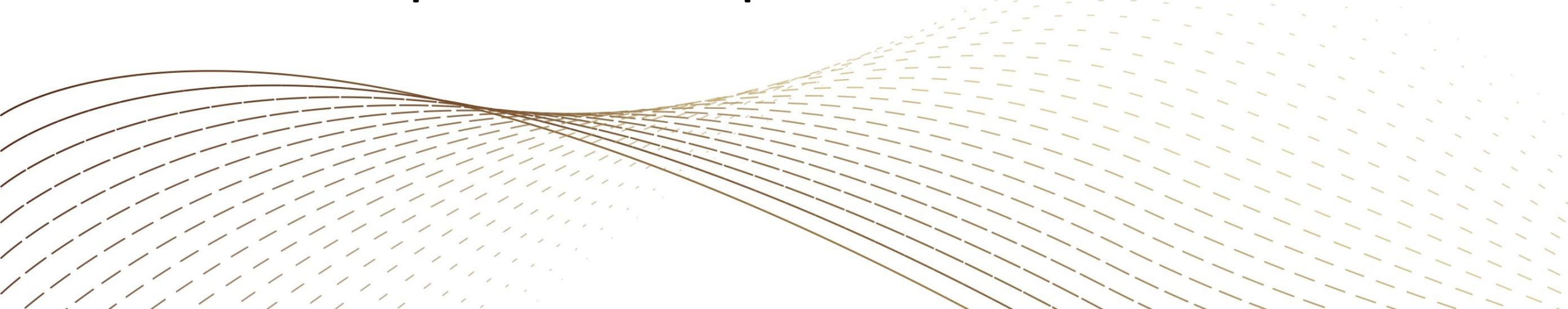
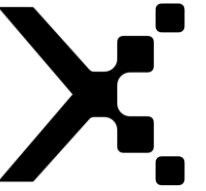


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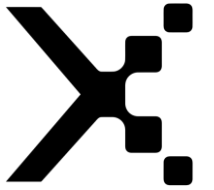
**Product Specification Comparison
European Ash VS European Oak VS Victorian Ash**





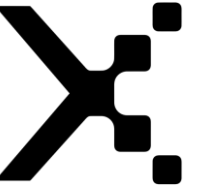
European Ash

European Ash



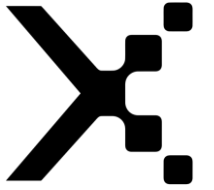
Scientific Name	Fraxinus excelsior
Distribution	Europe and southwestern Asia
Tree Size	65-115 ft (20-35 m) tall, 3-6 ft (1-2 m) trunk diameter
Colour	Light brown to beige
Grain Pattern	Prominent with a wavy or rippled pattern
Workability	Easy to work with hand and machine tools
Durability	Moderately durable
Product	Furniture, cabinets, flooring, doors, millwork

Average Dried Weight	710 kg/m ³
Specific Gravity (Basic, 12% MC)	0.49, 0.68
Janka Hardness	6,580 N
Modulus of Rupture	103.6 MPa
Elastic Modulus	12.31 GPa
Crushing Strength	51.0 MPa
Shrinkage (Radial)	5.7%
Shrinkage (Tangential)	9.6%
Shrinkage (Volumetric)	15.3%
T/R Ratio	1.7



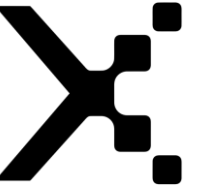
European Oak

European Oak



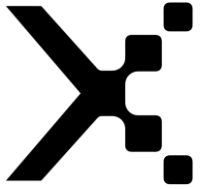
Scientific Name	Quercus robur
Distribution	Most of Europe, to Asia Minor, and North Africa
Tree Size	80-115 ft (24-35 m) tall, 3-5 ft (1-1.5 m) trunk diameter
Colour	Light to medium brown
Grain Pattern	Prominent with a straight pattern
Workability	Easy to work with hand and machine tools
Durability	Moderately durable
Product	Furniture, flooring, interior joinery

Average Dried Weight	720 kg/m ³
Specific Gravity (Basic, 12% MC)	0.53, 0.67
Janka Hardness	4,980 N
Modulus of Rupture	97.1 MPa
Elastic Modulus	10.60 Gpa
Crushing Strength	46.3 MPa
Shrinkage (Radial)	4.7%
Shrinkage (Tangential)	8.4%
Shrinkage (Volumetric)	13.0%
T/R Ratio	1.8



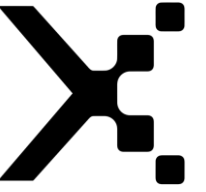
Victorian Ash

Victorian Ash



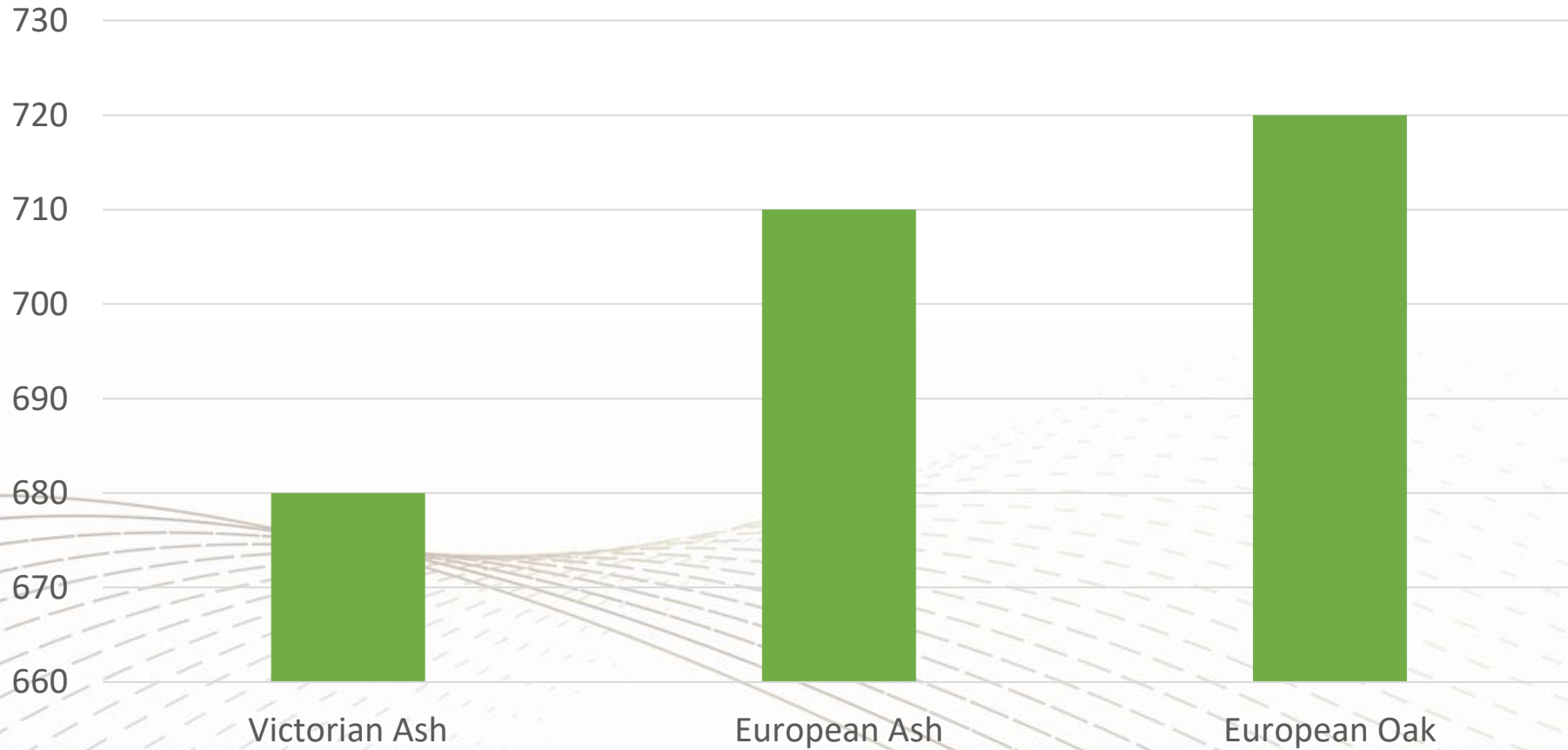
Scientific Name	Eucalyptus regnans, Eucalyptus delegatensis
Distribution	Southeastern Australia, also grown on plantations
Tree Size	230-330 ft (70-100 m) tall, 3-5 ft (1-1.5 m) trunk diameter
Colour	Pale pink to almost walnut color
Grain Pattern	Straight and uniform
Workability	Easy to work with hand and machine tools
Durability	Moderately durable
Product	Timber boards, flooring, furniture, joinery, veneer, plywood

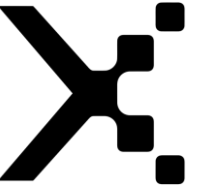
Average Dried Weight	680 kg/m ³
Specific Gravity (Basic, 12% MC)	0.49, 0.68
Janka Hardness	5,400 N
Modulus of Rupture	96.7 MPa
Elastic Modulus	14.02 GPa
Crushing Strength	58.8 MPa
Shrinkage (Radial)	6.5%
Shrinkage (Tangential)	13.0%
Shrinkage (Volumetric)	19.6%
T/R Ratio	2.0



	Victorian Ash	European Ash	European Oak
Average Dried Weight (kg/m ³)	680	710	720

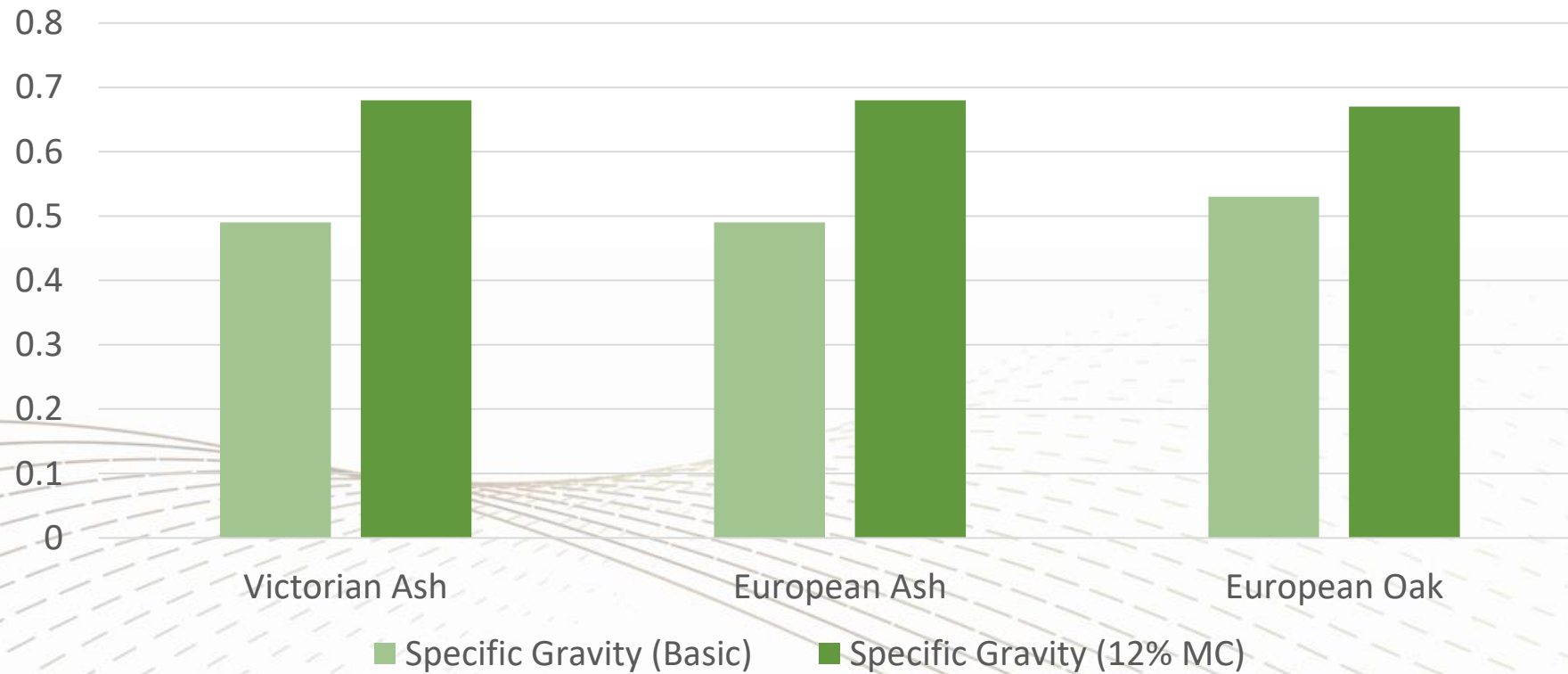
Average Dried Weight (kg/m³)

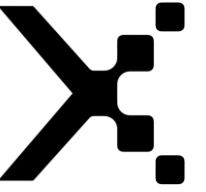




	Victorian Ash	European Ash	European Oak
Specific Gravity (Basic)	0.49	0.49	0.53
Specific Gravity (12% MC)	0.68	0.68	0.67

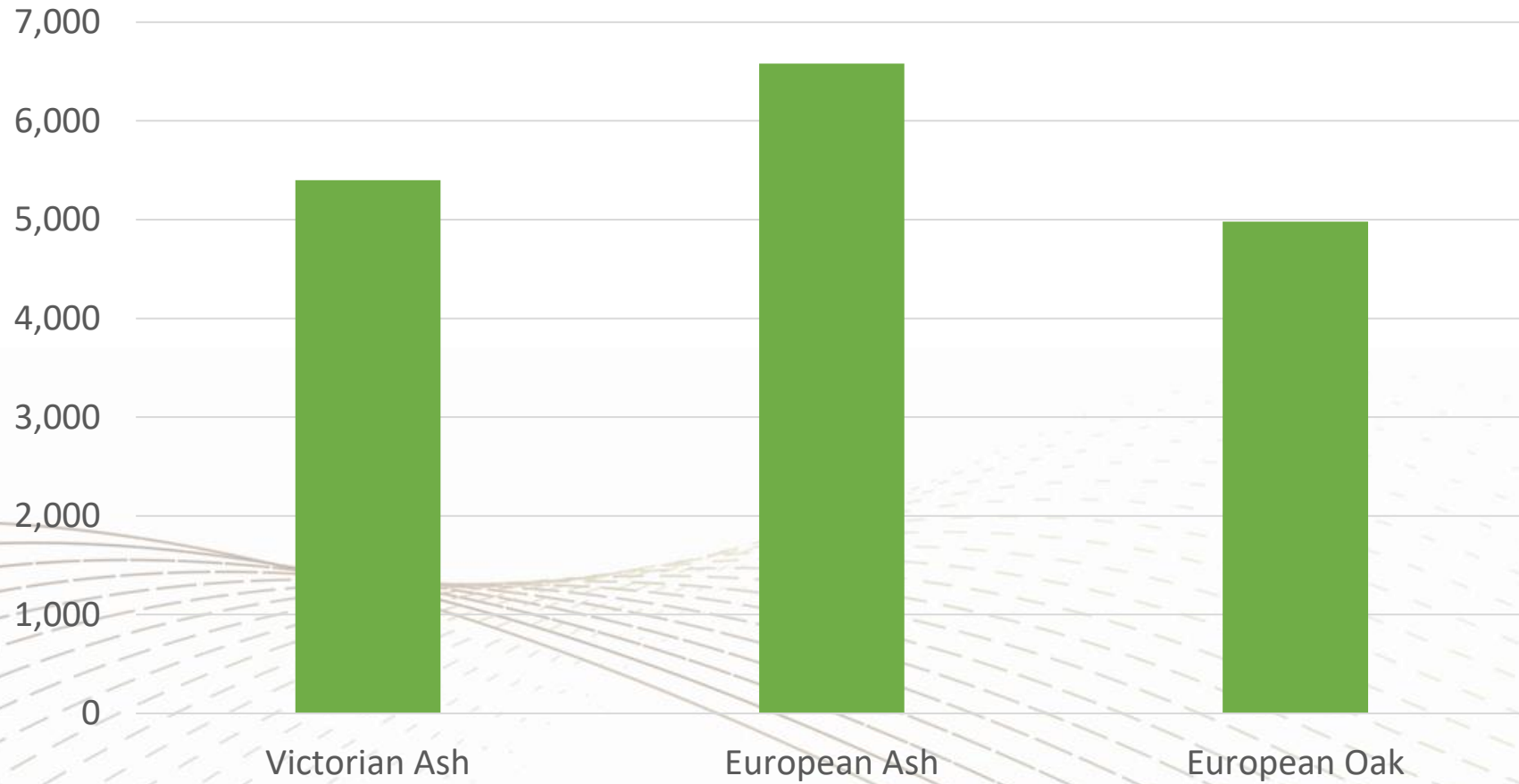
Specific Gravity (Basic, 12% MC)

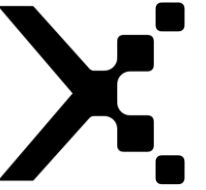




	Victorian Ash	European Ash	European Oak
Janka Hardness (N)	5,400	6,580	4,980

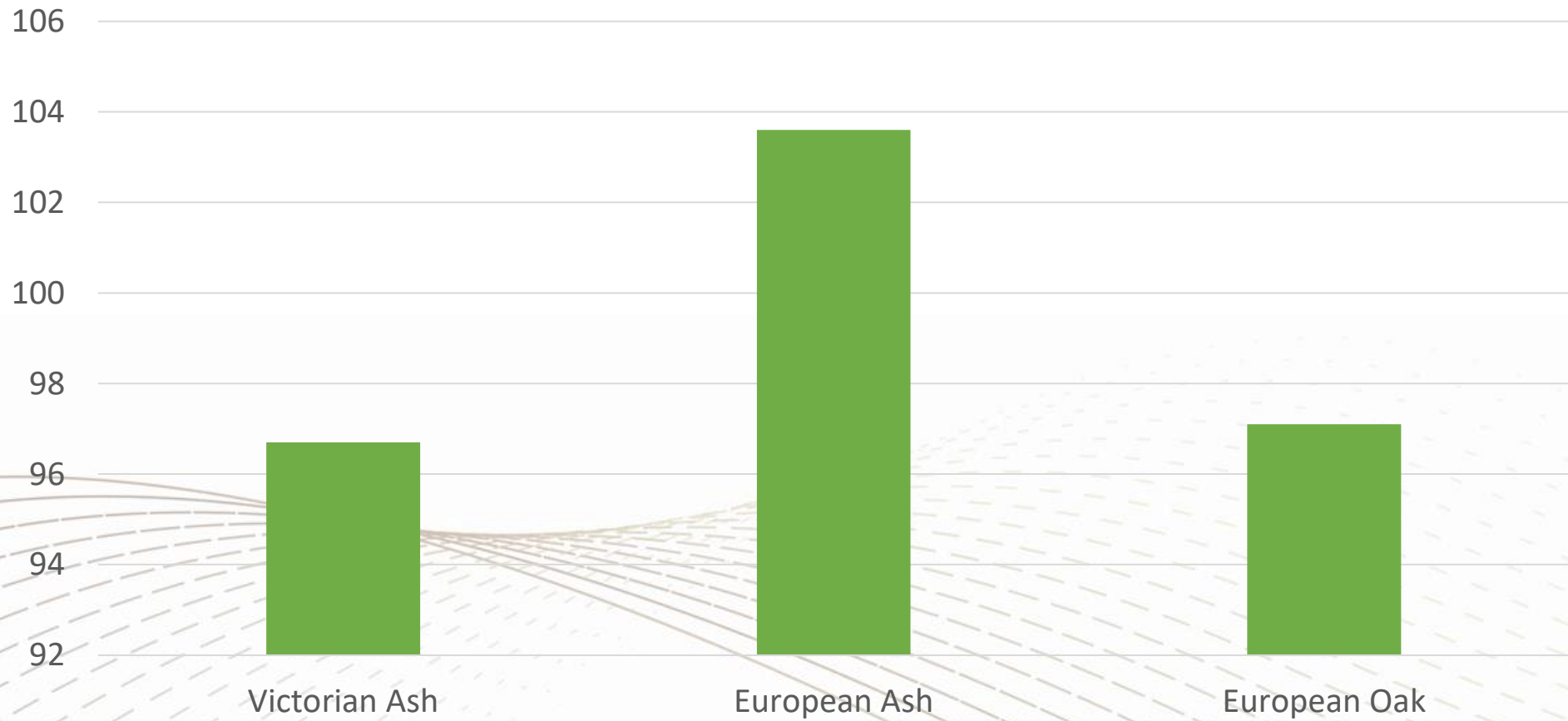
Janka Hardness (N)

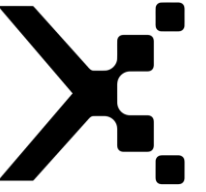




	Victorian Ash	European Ash	European Oak
Modulus of Rupture (Mpa)	96.7	103.6	97.1

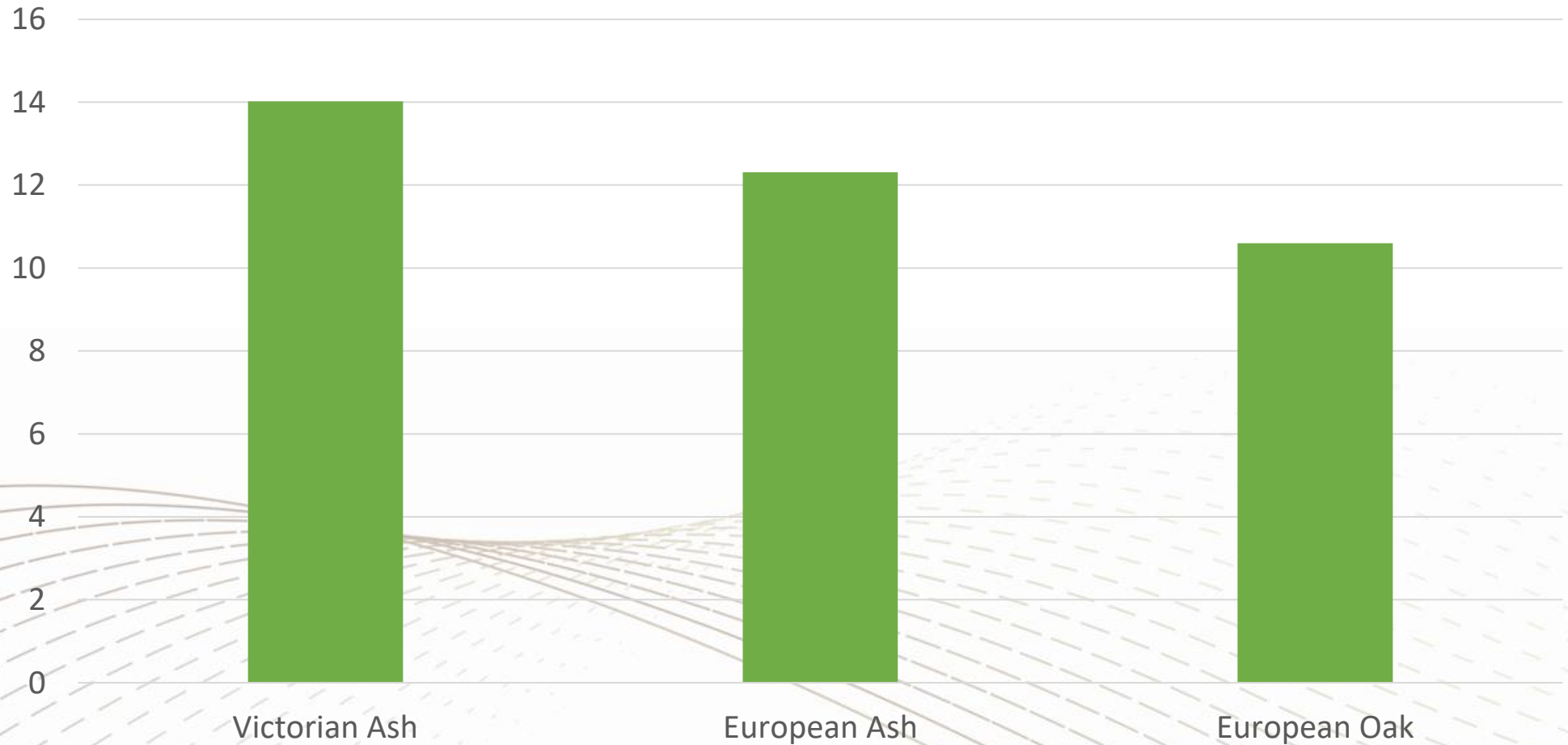
Modulus of Rupture (Mpa)

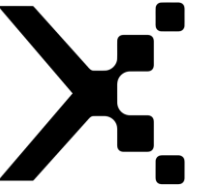




	Victorian Ash	European Ash	European Oak
Elastic Modulus (GPa)	14.02	12.31	10.6

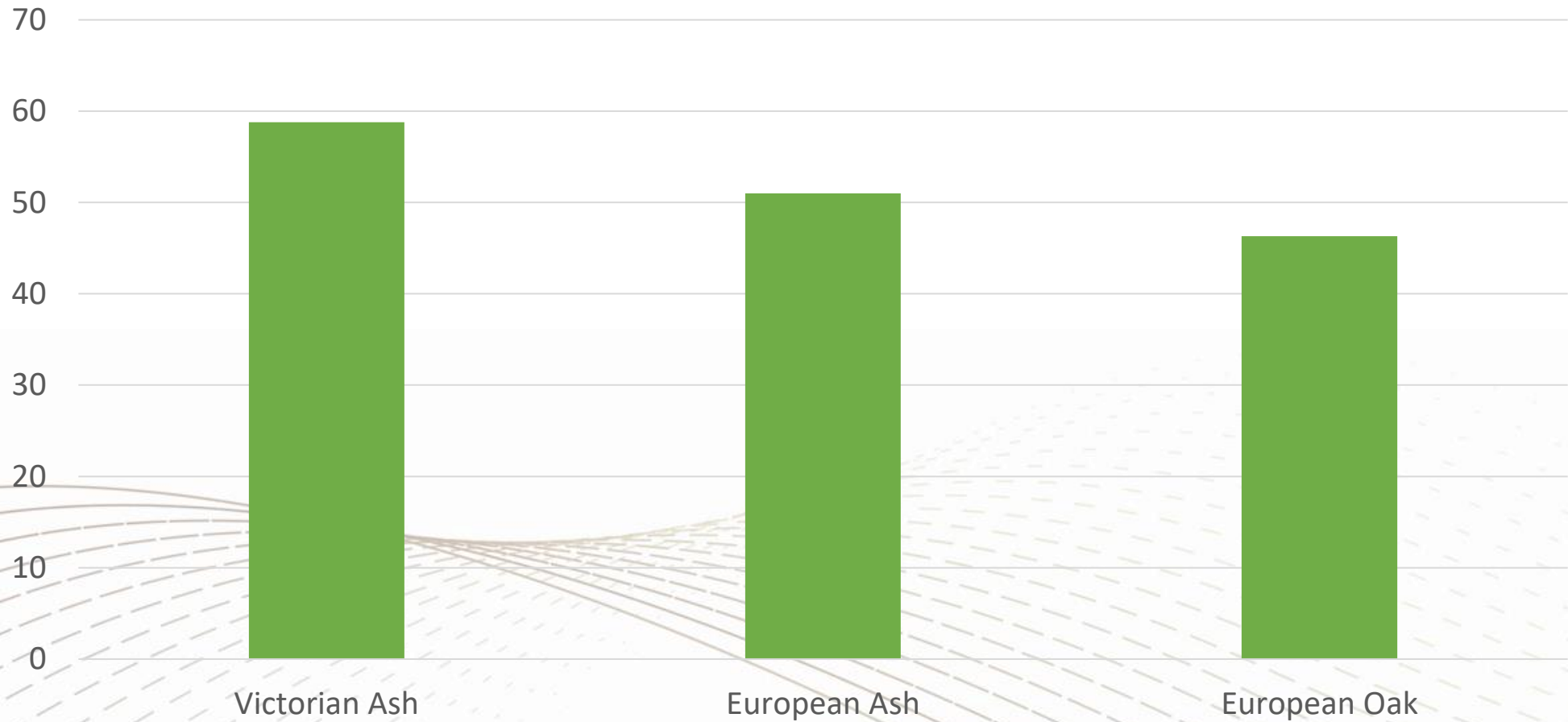
Elastic Modulus (GPa)

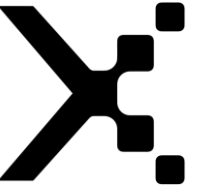




	Victorian Ash	European Ash	European Oak
Crushing Strength (Mpa)	58.8	51	46.3

Crushing Strength (Mpa)





	Victorian Ash	European Ash	European Oak
Shrinkage (Radial)	6.50%	5.70%	4.70%
Shrinkage (Tangential)	13.00%	9.60%	8.40%
Shrinkage (Volumetric)	19.60%	15.30%	13.00%
T/R Ratio	2	1.7	1.8

Shrinkage (Radial, Tangential, Volumetric)

