



Western Red Cedar

(Thuja Plicata Donn ex D.Don)

Western Red Cedar is a common tree in Pacific Northwest coastal and interior regions of British Columbia, Canada. It is a large tree and when mature, up to 60 metres tall and 2.5 metres in diameter. It is rarely found in pure stands and is often mixed with Douglas-Fir, Sitka Spruce, Black Cottonwood and Red Alder. Western Red Cedar is renowned for its naturally occurring resistance to moisture, decay and insect damage.

Physical Properties

Density	Green Dry	528-544 370-385
Specific Gravity	Standard	0.33
Hardness	Side End	1470 3000
MOE (Mpa)	Green Air Dry	7240 8270
MOR (Mpa)	Green Air Dry	36.5 53.8
Compression Parallel (Mpa)	Air Dry	33.9
Compression Perpendicular (Mpa)	Air Dry	3.43
Shear (Mpa)	Air Dry	5.58
Shrinkage OD = Oven Dry Air = Air Dry 12%	Radial (OD) Tangential (OD) Volumetric (OD) Volumetric (AD) Tang/Rad ratio	2.1% 4.5% 7.9% 4.9% 2.1
Durability	Heartwood	Durable to NZBC/B2 Class 2 for above ground use.
Recommended Fasteners		Corrosion Resistant to NZBC/B2

Auckland
102 Main Road
Kumeu
Ph: 09 412 7722
Fax: 09 412 7723

Christchurch
72 Hammersmith Drive
Sockburn
Ph: 03 348 9726
Fax: 03 341 0257