



## Norway Pine (Pinus Resinosa)

<b>Botanical Name:</b>	Pinus resinosa
<b>Other Common Names:</b>	Red pine, Pine, Norway pine
<b>Common Uses:</b>	Blinds, Boxes and crates, Building construction, Exterior uses, Interior trim, Pallets, Poles, Posts, Pulpwood, Railroad ties, Beams, Building materials, Cabin construction, Casks, Concrete formwork, Construction, Crossties, Exterior trim & siding, Factory construction, Form work, Foundation posts, Framing, Heavy construction, Interior construction, Joists, Light construction, Millwork, Moldings, Packing cases, Porch columns, Pulp/Paper products, Rough construction, Shakes, Sheathing, Shingles, Shutters, Siding, Stakes, Structural work, Studs, Trimming, Utility poles, Wainscoting, Warehouse construction, Windows
<b>Region:</b>	North America
<b>Country:</b>	Canada, United States

## Numerical Values for: *Pinus resinosa*

<u>Category</u>	<u>Green</u>	<u>Dry</u>	<u>Unit</u>
Bending Strength	5800	11000	psi
Crushing Strength (Perp.)	260	600	psi
Max. Crushing Strength	2730	6070	psi
Impact Strength	26	26	inches
Stiffness	1280	1630	1000 psi
Work to Maximum Load	6	10	in-lbs/in <sup>3</sup>
Hardness		560	lbs
Shearing Strength		1210	psi
Specific Gravity	0.41	0.46	
Weight	49	30	lbs/cu.ft.
Radial Shrinkage (G->OD)		4	%
Tangential Shrink. (G->OD)		7	%
Volumetric Shrink. (G->OD)		11	%

## Tree & Wood Descriptions for: *Pinus resinosa*

Product Sources	It is currently unknown whether some material from this species is available from sustainably managed, salvaged, recycled, or other environmentally responsible sources.
Tree Data	The ornamental and shady tree is reported to be often large, attaining a height of about 70 to 80 feet (21 to 24 m), with a trunk diameter of about 12 to 36 inches (30 to 90 cm).
Sapwood Color	The wide sapwood is nearly white to yellowish in color.
Heartwood Color	The heartwood is light red to orange-brown or reddish brown in color.
Grain	Grain is reported to be often straight and even. Growth rings are reported to be fairly distinct.
Texture	The wood is medium-textured.
Odor	There is usually a fairly strong, resinous odor. It has no distinctive taste.
Movement in Service	Properly seasoned wood is reported to have moderate dimensional stability.
Natural Durability	Red pine is reported to have very little resistance to decay, but it absorbs and retains chemical preservatives readily, which allows it to be used for applications such as poles, piling, and railroad ties.  Resistance to Impregnation The timber is reported to be very easy to penetrate with preservatives.
Strength Properties	Bending and compression strength and resistance to shock are reported to be moderate. The wood is soft, and surfaces may dent easily. Weight is moderate.

## Working Properties for: *Pinus resinosa*

Machining Properties	Red pine is reported to respond readily to ordinary tools in planing and other machining operations to yield clean surfaces.
Gluing	The timber is reported to bond well with a variety of adhesives.
Nailing	Nail-holding qualities are reported to be good.
Screwing	Red pine is reported to hold screws firmly.
Painting	Response to painting is reported to be satisfactory, but material containing excessive amounts of resin may pose problems.

## Drying for: *Pinus resinosa*

Ease of Drying	The timber is reported to season rapidly, with little degrade.
Drying Defects	The wood is prone to warp during drying.
Kiln Schedules	T12 - B4 (4/4); T11 - B3 (8/4) US Schedule L (4/4) United Kingdom
T/R Ratio	1.75  This indicator is more meaningful if it is used together with other drying information and actual shrinkage data in the tangential and radial directions. (Refer to the Numerical Values window).

*Credits for information:*  
*Woodworkersource.com*