

# TIMBER SPECIES INFORMATION SHEET

## SPRUCE *Picea abies*, syn. *P. excelsa*. Commonly known as Norway Spruce



### DESCRIPTION

Norway Spruce is a common softwood found in Europe and North America and is often referred to as deal or white wood. It is valued for its flexibility, durability, lightness, extended length, and straightness.

### VISUAL FEATURES

The sapwood of this species is generally white to pale yellow, contrasting with the brown to reddish-brown hues of the heartwood. Prominently marked growth rings are defined by the denser summer wood. Spruce possesses a relatively fine texture, and its grain is typically straight.

### COMMON APPLICATIONS

- Framing and roofing
- Joinery
- Furniture
- Flooring
- General carpentry

### TECHNICAL INFORMATION

Spruce is easy to work, except for the small tight knots that quickly dull tool edges. It glues satisfactorily using standard bonding procedures. This timber can give poor results when being stained, due to its closed-pore structure. A sanding sealer, gel stain or toner is recommended when colouring Norway spruce timber.

Density kg/m <sup>3</sup> dry	470	Durability above ground	0-7 years	Gluing	Satisfactory
Specific Gravity	12%	Susceptible to Lyctid Borer	Not susceptible	Machining	Satisfactory
Hardness (Janka) kN	2.14	Termite Resistant	Not resistant	Finish	Satisfactory
Modulus of Rupture MPa dry	66	Spread of Flame	9	Stability	Satisfactory
Modulus of Elasticity GPa dry	8.2	Smoke Development Index	4	Growing Region	Europe
Radial Shrinkage %	1.9%	BAL Rating	Not Tested	Certification	FSC mix
Tangential Shrinkage %	5%	Resistance to Split (Nailing)	Satisfactory		
Durability in-ground	0-5 years	Resistance to Split (Screwing)	Satisfactory		



### AVAILABILITY

Available as part of the Portaline Lining Board range. Contact Porta Customer Service for further information and availability.

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