



Civil Engineering

NORWAY SPRUCE

Plato[®] WOOD

Plato's unique two-stage thermal process dramatically improves the performance of abundant Norway spruce in a clean and sustainable way.

No chemicals are involved throughout the process, where a careful combination of temperature and pressure significantly upgrades the stability and natural durability of wood, making it the perfect choice for landscape and civil engineering projects.

Projects in its wide range of applications include decking, fencing and noise barriers.

Plato[®] wood Norway spruce is easy to machine, durable and strong. It is available in a wide range of sections and profiles with large volumes ready for quick delivery, including fixed long lengths.

Delivered directly from stock

Through a selected network of distributors, Plato®wood Norway spruce is available directly from local stocks for quick delivery. The unique technology of Plato allows for larger and wider cross section sizes, with long and fixed lengths also available as standard stock items. Plato®wood Norway spruce can be supplied as sawn, planed or round timber. Below you will find the standard sections of Plato®wood Norway spruce, as well as some relevant physical and mechanical properties. For any queries about Plato®wood please contact our national account managers or your local distributor.

Plato International BV

Industrie Park Kleefse waard
Westervoortsedijk 73
P.O. Box 2159, 6802 CD Arnhem
The Netherlands
T +31 (0)26 366 4666
F +31 (0)26 366 1553
E info@platoewood.com
www.platoewood.com

Standard assortment rough Plato®wood Norway spruce for Civil Engineering

Pre treatment cross section (mm)	After treatment cross section (mm)	Lengths* (m)	
22 x 100 22 x 150 22 x 200	approx. 21 x 97 21 x 146 21 x 196	3.0 - 6.0	
32 x 150 32 x 200	approx. 30 x 146 30 x 196		
44 x 200 44 x 225	approx. 42 x 196 42 x 220		
50 x 150 50 x 200 50 x 225	approx. 48 x 146 48 x 196 48 x 220		
63 x 200 63 x 225	approx. 61 x 196 61 x 220		
75 x 200 75 x 225	approx. 73 x 196 73 x 220		
100 x 200	Approx. 97 x 196		
75 x 75	approx. 73 x 73		2.1 / 2.4 / 2.5 / 2.7 / 3.0
100 x 100	Approx. 97 x 97		

Thicker dimensions of Plato®wood Norway spruce can contain internal cracks and large knots. Knots can be live and/or cracked. Please read our instructions for product properties and the proper machining and processing of Plato®wood Norway spruce.

* Intermediate lengths going up per 30 cm, if available. Other lengths available upon request.

Mechanical and physical properties of Plato®wood Norway spruce

SHR report 2.793-1w and 2.793-2w	Plato®wood Norway spruce		Untreated Norway spruce*	
	Mean	Stdev		
Density (20°C, 65% RV)	kg/m ³	421	40	460
Equilibrium moisture content	%	5.9	0.12	
- at 20°C, 65% RV	%	9.8	0.21	
- at 20°C, 90% RV				
Shrinkage (wet > 65% RV)	%	1.0	0.06	1.9
- radial	%	1.8	0.20	4.5
- tangential				
Bending strength**	N/mm ²	79	19	77
Modulus of Elasticity**	N/mm ²	10514	2665	10800
Janka hardness	N	1990	354	1570
- radial	N	1905	280	1570
- tangential	N	3440	463	2650
- perpendicular				

* Source: Houtvademeccum

** Defect free test samples (20 x 20 mm). Please read our instructions and product properties for the proper use of Plato®wood Norway spruce in (semi)constructive applications

Plato®wood Norway spruce

- Rough sawn thoroughly treated Norway spruce
- Widest range of cross section and lengths



Plato®wood Norway spruce Decking

- Planed with decking profile
- 27 x 140 mm
- Length 2.40 - 5.10 m (going up per 30 cm, if available)



Plato®wood Fraké

- Planed or rough sawn thoroughly treated Fraké in a defect free quality
- Wide range of cross section and lengths
- Suitable for hazard class 3 applications (e.g. sound barriers)
- More information can be found in the Plato®wood Fraké brochure



FSC and PEFC certified products are available on request.

Sales points, instructions, on-line documentation, a project overview, and more information can be found on www.platoewood.com