Sawn timber technical datasheet

Metsä Spruce 410 SF (I-V)

Datasheet updated: October 2024

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Our spruce sawn timber is an excellent material for internal cladding and it is a particularly popular material in panels and boards used in external cladding. Sawn timber from spruce is naturally resistant to moisture. Spruce trees have small and healthy branches, which do not crack.

Our spruce sawn timber is produced at our Renko and Vilppula sawmills in Finland, using wood from sustainably managed forests.

Shipping mark

★ Metsä ★

Spruce characteristics (KD 12%) *Picea abies*	
Density	**300 – 470 kg/m²**
Modulus of elasticity	**10,000 N/mm²**
Bending stregth	**87 N/mm²**

Sound and dry knots are allowed. The size of bark ring knots is restricted.

Spruce 410 SF (I-V) quality characteristics	
Dimensional accuracy	**Thickness -1 + 3 mm** **Width -2 + 4 mm** **Length -1 + 20 mm**
Knot sizes – primary face	**Sound knot max mm by width** **100 – 115 mm 45 mm, 116 – 150 mm 50 mm** **151 – 200 mm 55 mm, 201 – 225 mm 60 mm** **Dry knot max 70% of sound knot** **Bark knot max 60% of sound knot**
Knot sizes – edge	**Thickness 16 – 29 mm sound knot 100%** **Thickness 30 – 100 mm sound knot 85%** **Dry knot max 70% of sound knot** **Bark knot max 60% of sound knot**
Shake	**Max 50% of length allowed**
Other defects	**No blue stain or wane allowed** **Max two 100 mm resin pockets in worst meter**
Distortion	**Bow 15 mm (worst 2 m)** **Spring 7 mm (worst 2 m)** **Twist 10% of product width (worst 2 m)**
Moisture	**Normal dry product** **Target moisture 18 +/-2%**
Applications	**Window frames** **DIY** **Furniture**

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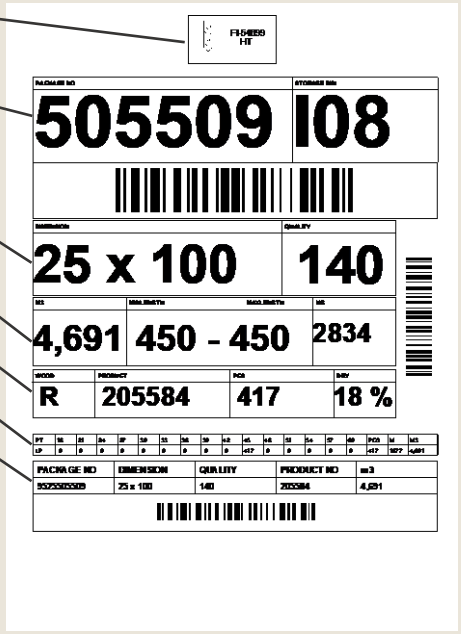
Package label explanation	
IPPC mark	1
Last 6 digits of package number and storage location in mill	2
Dimension and quality	3
Volume, min – max length and weight	4
Species, product code and moisture content	5
Pieces per length, total pieces, running meters, volume	6
Full 10 digits package number, dimension, quality, product code and volume	7

Package label



Package	
Height	**80 – 120 cm**
Width	**90 – 120 cm**
Length	**2100 – 5400 mm**
Gross weight	**Max 4000 kg**
Wrappers	**Plastic hood or wrap, recyclable plastic**
Bands	**2100 – 3900 mm min 3 plastic bands; 4200 – 6000 min 4 plastic bands**
Markings	**Shipping marks**
Identification	**Package label + stamp on the end of the lumber (package number)**
Other	**Packages with non full top layer will have uneven surface sticker**