

THERMO SPRUCE Grading rules

Thermo-spruce is a highly valued exterior cladding material among homeowners. The advantage of natural spruce over other widespread wood materials is that spruce absorbs less moisture. Thermal modification, on the other hand, adds even more good qualities – wood becomes more stable and resistant to the effects of the external environment, it removes resin and gives the material a beautifully golden hue, which highlights the dignity of spruce wood.

2024 //

WOOD STANDWOOD

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THERMO SPRUCE // grading rules

The material is sorted into quality classes based on the conditions below. Up to 5% of the volume can be of lower grade.

Grading will be carried out by the visible face (if it's definated) or by the better face.

| Defect | Grade AB | | Grade BC | |
|----------------------------|---|-----------|---------------------------------------|-----------|
| | Visible face | Back face | Visible face | Back face |
| SOUND KNOTS | visual grading, not measured, has to maintain the integrity of the board | allowed | allowed | allowed |
| DEAD KNOTS | up to Ø 15 mm | allowed | allowed | allowed |
| BROKEN KNOTS | if not disturbing visually, evaluated form a distance min 1,5 m, up to 1/10 of the width of the board | allowed | allowed up to 1/5 of the board width | allowed |
| KNOT HOLE | not allowed | allowed | up to ∅ 20 mm allowed in whole length | allowed |
| BARK KNOTS | sound, \emptyset up to 1/3 of the width of the board, bark not over half of the diameter | allowed | if not disturbing visually | allowed |
| BLACK KNOTS | \emptyset up to 1/5 of the width of the board | allowed | allowed | allowed |
| UNSOUND KNOTS | not allowed | allowed | if not disturbing visually | allowed |
| KNOT SHAKE | decking: up to 5 mm wide and 50 mm long/ cladding: up to 8 mm wide and 50 mm long | allowed | allowed | allowed |
| SPIKE KNOTS | Ø up to 1/2 of the width of the board | allowed | allowed | allowed |
| PIN KNOTS | allowed | allowed | allowed | allowed |
| PARTIALLY INTERGROWN KNOTS | bark up to 1/2 of the diameter | allowed | allowed | allowed |
| EDGE & ARRIS KNOTS | allowed | allowed | allowed | allowed |
| BROKEN EDGE KNOT | limited to 1/10 of the width | allowed | allowed | allowed |
| KNOT CLUSTER | visual grading, not measured, has to maintain the intergrity of the board | allowed | allowed | allowed |
| END SPLITS | max length = width of the board | allowed | allowed up to 300 mm from both ends | allowed |

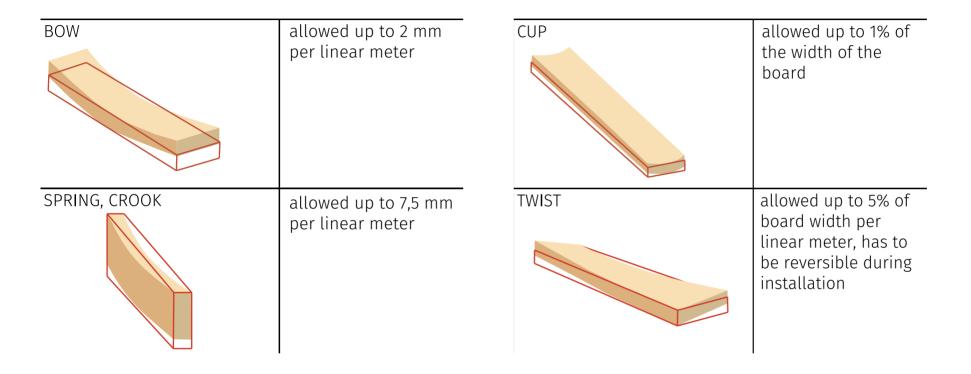


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| Defect | Grade AB | | Grade BC | |
|---------------------|-----------------------|--|-------------------------------------|-------------|
| | Visible face | Back face | Visible face | Back face |
| SHAKES | not allowed | not allowed | allowed up to 300 mm from both ends | allowed |
| SURFACE SHAKES | max 100 mm long | allowed | allowed | allowed |
| RING SHAKE | not allowed | not allowed | allowed up to 300 mm from both ends | allowed |
| WANE | not allowed | max 1/5 of width and 1/3 of the thickness of the | allowed up to 300 mm from both ends | allowed |
| MECHANICAL DEFECTS | not allowed | allowed | allowed up to 300 mm from both ends | allowed |
| HIT&MISS | not allowed | max 1/2 of the width of the board | allowed up to 300 mm from both ends | allowed |
| FEED-ROLLER MARKS | not allowed | allowed | allowed up to 300 mm from both ends | allowed |
| ROT/BLUE STAIN/BARK | not allowed | not allowed | not allowed | not allowed |
| SCAR | allowed up to 300 mm2 | allowed | allowed | allowed |
| RESIN POCKET | allowed up to 300 mm3 | allowed | allowed | allowed |
| PITH | allowed | allowed | allowed | allowed |
| SLOPE OF GRAIN | allowed | allowed | allowed | allowed |
| INSECT HOLES | not allowed | allowed | not allowed | allowed |



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TOLERANCES: thickness: +/- 0,5 mm; width: + 0,5/-1,0 mm;

length: +/- 2 mm per linear meter

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