
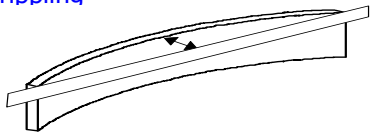
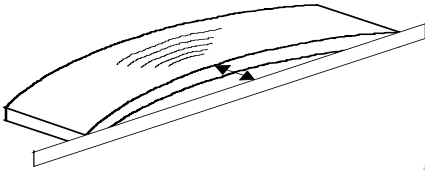
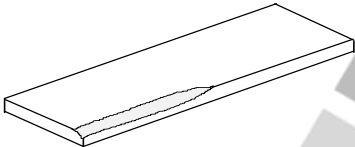
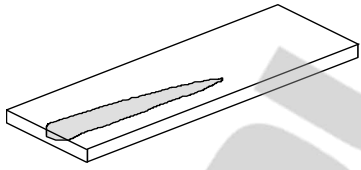
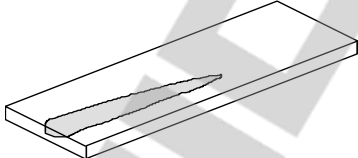
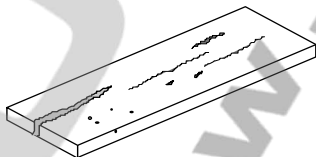


Date: 01.07.2011	C24 (T2)	C18 (T1)
Main profiles	INSTA 142 standard for strength grading of splitted sawn timber with the size 25...45 x 50...70.	INSTA 142 standard for strength grading of sawn timber with the size 25...45 x 50...70.
Knots	Single knot: OS ≤ 1/4 All knots: OS ≤ 1/3	Single knot: OS ≤ 1/3. All knots: ≤ 1/2.
Treetop fault	Not permitted.	
Slanting grained	1:10	1:8
Cross-slanting grained	Not permitted.	
Ring shakes	Not permitted.	
Seasoning checks Depth < t	Length ≤ 1m, max 1/4 l, not on edge	Length ≤ 1,5m, max 1/2 l, not on edge
Seasoning checks Depth = t	In the ends with length < b	
Felling fissures	Not permitted	
Width of annual ring	4 mm	6 mm
Blue stain	Permitted.	
Firm rot	Not permitted.	Length ≤ 1000 mm, depth ≤ t.
Soft rot	Permitted only in knots.	
Wide surface rippling	Max. 10 mm per 2 m.	
Edge bow	Max. 10 mm per 2 m.	
Twisting	Max. 1,5 mm per every 25mm of the width.	
Wane	Up to 1/4 of the edge.	
Compression wood	Permitted to a very little extent.	
Scar	Not permitted.	
Bark	Not permitted.	
Insect damages	Not permitted.	
Mechanical damages	95% of the cross-section shall be intact.	

b = sawn material width, t = sawn material thickness, l = sawn material length.

Twisting		Max. 1,5 mm per every 25mm of the width.
Wide surface rippling		Max. 10 mm per 2 m.
Edge bow		Max. 10 mm per 2 m.
Wane		Permitted up to 1/4 of the edge.
Knots		C24 (T2) – Single knot: $OS \leq 1/4$ All knots: $OS \leq 1/3$
		C18 (T1) – Single knot: $OS \leq 1/3$ All knots: $\leq 1/2$
Discolouration (early rot, rot, fungus, blue stain)		C24 (T2) – <u>Blue stain</u> – permitted. <u>Firm rot</u> – not permitted. <u>Soft rot</u> – Permitted only in knots.
		C18 (T1) – <u>Blue stain</u> – permitted. <u>Firm rot</u> – length ≤ 1000 mm. <u>Soft rot</u> – Permitted only in knots.
Fissures		C24 (T2) - <u>Ring shakes</u> : not permitted. <u>Seasoning checks</u> <t: Length ≤ 1 m, max $\frac{1}{4}$ l, not on edge <u>Seasoning checks</u> =t: In the ends with length <b <u>Felling fissures</u> : Not permitted.
		C18 (T1) - <u>Ring shakes</u> : not permitted. <u>Seasoning checks</u> <t: Length $\leq 1,5$ m, max $\frac{1}{2}$ l, not on edge <u>Seasoning checks</u> =t: In the ends with length <b <u>Felling fissures</u> : Not permitted.