

SOLID TIMBER STRUCTURES (KVH®)

Sort keys

Sort criterion	Demands on solid structural timber for industrial purposes (KVH NSi)	Comments
Wany edge	Measured diagonally a max. of 10 % minor cross-section side	Increased demands compared to DIN 4074-1
Knots	A max. 2/5	Equal to sorting class S 10
Condition of knots	Not exceeding 70 mm	According to DIN 4074-1 permitted sorting characteristic for solid structural timber (KVH)
Annual ring width	Up to 6 mm	Equal to sorting class S 10, according to DIN 4074-1
Slope of the grain	Up to 120 mm/m	Equal to sorting class S 10, according to DIN 4074-1
Radial shrinkage cracks (= seasoning cracks)	Permitted	Increased demands compared to DIN 4074-1 for solid structural timber (KVH-SI)
Lightning / Frost cracks, Ring peeling	Not permitted	Equal to sorting class S10 according to DIN 4074-1
Discolouration: Blue-stain	Permitted	Increased demands compared to DIN 4074-1 for solid structural timber (KVH-SI)
Nail-holding brown and red stripes	Up to 2/5 of the cross-section of the surface are permitted	Increased demands compared to DIN 4074-1 for solid structural timber (KVH-SI)
Red and white rot	Not permitted	
Compression wood	Up to 2/5 of the cross-section of the surface are permitted	Equal to sorting class S 10 according to 4074-1
Insects damages	Borer tunnels up to 2 mm Ø of fresh timber insects are permitted	Increased demands compared to DIN 4074-1 for solid structural timber (KVH-SI)
Mistletoe infestation	Not permitted	Equal to sorting class S 10 according to 4074-1
bending (longitudinal bending, twist)	Split-heart cutting max. 8 mm/2 m	Increased demands compared to DIN 4074-1 for split-heart cut timber
Wood moisture	15 % ± 2.5 %	Additional sorting characteristic for solid structural timber (KVH)
Cutting class	Split-heart	Additional sorting characteristic for solid structural timber (KVH)
Dimensional stability of the cross-section	± 1 mm	Additional sorting characteristic for solid structural timber (KVH)
Bark pocket		Additional sorting characteristic for solid structural timber (KVH-SI)
Resin galls		Additional sorting characteristic for solid structural timber (KVH-SI)
Surface condition	Planed and chamfered	Additional sorting characteristic for solid structural timber (KVH)
Conditioning of the ends	Rectangular cross-cut	Additional sorting characteristic for solid structural timber (KVH)