Product	Wooden formwork H20 beams		
Wood species	Spruce, fir		
Wood moisture	12 % +/- 2 % at delivery		
Weight	4,5 kg/m		
Gluing	Melamine resin-based adhesive, adhesive type I EN 301-approved for gluing of load bearing timber components		
Surface protection	The beam is waterproofed using a water repellent color glaze		
Chord	· Made of carefully selected spruce wood · Finger-jointed, solid wood cross-sections with a dimension of 80 x 40 mm · Finger-jointing of the chords · Web milling on the opposing side of the core (left-sided chord surface) · Planed and chamfered to approx. 0.4 mm		
Web	3-ply solid wood panel, laminated primarily showing vertical growth rings		
Surface protection	Treatment of entire beam using a water-resistant color stain		
Support	Due to the 3-ply solid wood webs, Extrabeam H20 and Extrabeam H20+ can be cut into and supported at any length		
Dimensions and tolerances	Dimension	Value[a]	Tolerance[b]
	Beam height	200 mm	± 2 mm
	Chord height	40 mm	± 0,6 mm
	Chord width	80 mm	+ 0,8 mm / - 1,2 mm
	Web thickness	28 mm	± 1 mm
	a) These values apply at a wood moisture content of 12 % ± 2% *b) According to standard SIST EN 13377:2002*		
Technical specifications	Qualities	DIN1052-1:1988-04	DIN1052:2008-12 / Eurocode 5
	Strains	Permissible stress values	Characteristic limits of load-bearing capacity
	Shearing force	ZUL Q = 11,0 kN	V_k = 23,9 kN
	Bending moment	ZUL M = 5,0 kNm	M_k = 10,9 kNm
	Support	-	$R_{b,k}$ = 47,8 kN
	Section modulus[1]	W_x = 461 cm³	
	Geometrical moment of inertia[1]	I_x = 4.613 cm⁴	
	Elasticity modulus	E = 10.000 N / mm²	
	Shearing modulus	G = 600 N / mm²	
	1) The values of the section modulus and the geometrical moment of inertia apply to new or used concrete formwork beams. An analogously increased factor of safety needs to be added for severely worn beams		
Standard lengths	1,95 / 2,45 / 2,65 / 2,90 / 3,30 / 3,60 / 3,90 / 4,50 / 4,90 / 5,90 / max. 6 m		
Packaging	Standard packaging: 50 pcs package / Container packaging: 100 pcs package The packages are ready to be immediately used at the construction site. The package is placed on supporting wood, protecting the formwork beams and provides simple use with forklift.		

EXTRA BEAM

Extrabeam H20 and Extrabeam H20+ are the strongest and lightest formwork beams made of engineered fir and spruce wood. Our formwork beams are produced in various standard lengths.

With Chords made of high-quality and graded massive finger-jointed timber, Webs made with a 3-ply laminated wood panels and optional protective cap that prevents the beam to be exposed to premature chipping on the chord ends, Extrabeam H20 and Extrabeam H20+ assure sustainability and durability in all climate zones.