EN

HASSLACHER
NORICA TIMBER
From **wood** to **wonders.**

Innovation

HASSLACHER BauBuche

Highest load capacity and stiffness.

Product information
HASSLACHER BauBuche

Advantages

- Slimmer dimensions for girders and beams
- Higher mechanical properties than spruce
- Volume savings in construction
- Novel, aesthetically appealing appearance

Areas of use

- Beams and support structures
- Engineered timber structures with large spans and high loads
- Tensile and compressive stressed components in wooden trusses
- Highly loaded, slender supports, also sheathed with other types of wood

Cross-sections

Heights: 80 mm to 2,500 mm
Widths: 50 mm to 600 mm
Extension up to 1,200 mm through block bonding.

Strength class

GL75 according to ETA-18/1018

Wood species

European beech, BauBuche

Moisture content

6 % ± 2 %

Service classes (EN 1995-1-1)

Service class 1 heated indoor
Service class 2 roofed outdoor

Resistance to fire (EN 1995-1-2)

β_0 = 0.65 mm/min
β_n = 0.70 mm/min

Mechanical properties for designing HASSLACHER BauBuche according to ETA-18/1018

Strength classes			
Bending strength	$f_{m,g,k}$	$k_{h,m} = (600/h)^{0,1}$	75 N/mm²
Tensile strength	$f_{t,0,g,k}$	$k_{h,t} = (600/h)^{0,1}$	60 N/mm²
	$f_{t,90,g,k}$		0.6 N/mm²
Compressive strength	$f_{c,0,g,k}$		SC 1: 59.4 N/mm² SC 2: 49.5 N/mm²
	$f_{c,90,g,k}$		SC 1: 14.8 N/mm² SC 2: 12.3 N/mm²
Shear strength	$f_{v,g,k}$	$k_{h,v} = (600/h)^{0,13}$	4.5 N/mm²
Modulus of elasticity	$E_{0,g,mean}$		16,800 N/mm²
	$E_{0,g,05}$		15,300 N/mm²
	$E_{90,g,mean}$		470 N/mm²
	$E_{90,g,05}$		400 N/mm²
Shear modulus	$G_{g,mean}$		850 N/mm²
	G_{05}		760 N/mm²
Density	$\rho_{g,k}$		730 kg/m³
	$\rho_{g,mean}$		800 kg/m³

For further information about the product and its use, along with the mechanical, timber engineering and physical properties of this construction material, consult European Technical Assessment ETA-18/1018 or www.pollmeier.com.







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Project information	
Location	Ruhestein, Baden-Württemberg, Deutschland
Architect	sturm und wartzeck GmbH
Structural analysis and design	schlaich bergermann partner
Builder	Vermögen und Bau Baden-Württemberg, Amt Pforzheim
Year of construction	2015 - 2020
Products used	HASSLACHER BauBuche
Special features	High-performance trusses made of HASSLACHER BauBuche

National Park Centre Black Forest

Between 2015 and 2020, the new National Park Centre (NLPZ) in the Black Forest National Park was built at the Ruhestein (Baden-Württemberg, Germany) 915 m above sea level. Amid the typical silver fir forests of the region, a total of eight pipe-like boxes up to 65 m long form the unique shape of the building on a slope that are reminiscent of fallen trees lying on top of each other.

Parts of the complex supporting structure are deliberately visible, such as the BauBuche diagonal trusses, which were produced at the HASSLACHER Group's site in Kleinheubach. The connections of the BauBuche diagonals to the upper and lower girders were made with slotted steel plates and bar dowels. Due to the building's location in earthquake zone 1, the supporting structure was made of BauBuche with an opposing arrangement of steel tension diagonals for bracing at the particularly highly stressed points, to be less susceptible to the effects of earthquakes.



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