

Glulam

Mechanical properties (acc. to EN 14080:2013)

Strength classes	GL 24c	GL 24h	GL 28c	GL 30h
Elasticity modulus $E //_{\text{mean}}$	11.000 N/mm ²	11.500 N/mm ²	12.500 N/mm ²	13.600 N/mm ²
$E \perp_{\text{mean}}$	300 N/mm ²	300 N/mm ²	300 N/mm ²	300 N/mm ²
Shear modulus G_{mean}	650 N/mm ²	650 N/mm ²	650 N/mm ²	650 N/mm ²
Bending strength $\sigma_{0.05}$	24 N/mm ²	24 N/mm ²	28 N/mm ²	30 N/mm ²
Tensile strength $\sigma_t //_{0.05}$	17 N/mm ²	19,2 N/mm ²	19,5 N/mm ²	24 N/mm ²
$\sigma_t \perp_{0.05}$	0,5 N/mm ²	0,5 N/mm ²	0,5 N/mm ²	0,5 N/mm ²
Compressive strength $\sigma_c //_{0.05}$	21,5 N/mm ²	24 N/mm ²	24 N/mm ²	30 N/mm ²
$\sigma_c \perp_{0.05}$	2,5 N/mm ²	2,5 N/mm ²	2,5 N/mm ²	2,5 N/mm ²
Laminations selection	DIN 4074: T 1 S 7 / S 10 EN 338: C 18 EN 14080:2013: T 9 / T 14	DIN 4074: T 1 S 10 EN 338: C 24 EN 14080:2013: T 14	DIN 4074: T 1 S 10 / S 13 EN 338: C 24 / C 35 EN 14080:2013: T 14 / T 21	EN 14080:2013: T 22
Gluing	according to EN 301/302, for all service classes according to EN 14080:2013			
Production	according to EN 14080:2013, service classes 1 and 2 (lamella up to 45 mm thick), service classe 3 (lamella up to 35 mm thick), CE conform according to EN 14080:2013			
Surface quality	visual or industrial grade according to ÖNORM B 2215			
Tolerance of dimension	according to EN 14080:2013 width, height ± 2 mm, length $\pm 0,5$ %			

3/2018 – Subject to alterations and errors.