

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.