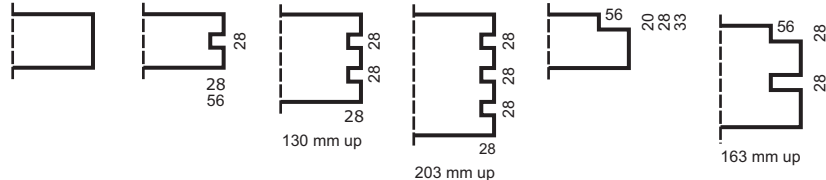


# BBS technical data

construction	multilayered crossed   3-, 5-,7 ply
wood species	spruce   larch   arolla pine   douglas   silver fir
moisture content	12 % +/- 2 %
quality of top layer	visible AB visible BC non visible, C
surfaces AB   BC	smoothly glued without grooves   every longitudinal layer = single-ply board planed on both sides   sanded or brushed on one side optional
sizes	width   125 cm length   length up to 24 m [general finger joint GFJ] thickness   66 mm - 341 mm
longitudinal edges	all longitudinal edges slightly chamfered [ $\sim 3$ mm] standard profiles on both sides 
gluing	single-ply board: MUF   E1, weatherproof, transparent glue groove BBS: PU   formaldehyde-free
dimensional change	in element longitudinal direction 0.010 % per percentage change in moisture content in element cross direction 0.025 % per percentage change in wood moisture content
weight	spruce $\rho[12\%] \sim 470$ kg/m <sup>3</sup> larch $\rho[12\%] \sim 590$ kg/m <sup>3</sup>
heat insulation	heat conductance $\lambda_R = 0.13$ W/mK [DIN]   $\lambda_{\text{measured}} = 0.097$ W/mK [98 mm BBS] specific thermal capacity $c = 2.10$ kJ/kgK thermal diffusivity $a = 1.317 \times 10^{-7}$ m <sup>2</sup> /s   [ $\rho = 470$ kg/m <sup>3</sup> ; $\lambda = 0.13$ W/mK]
sound insulation	solid soundproofing thanks to solid construction   certificate available on request
fire protection	certificate for REI 30-90 available on request
diffusion	open to diffusion, vapour barrier   diffusion resistance coefficient $\mu \sim 70$
approvals	European Technical Approval ETA-06/0009   CE marking German Technical Approval   Z-9.1-534

