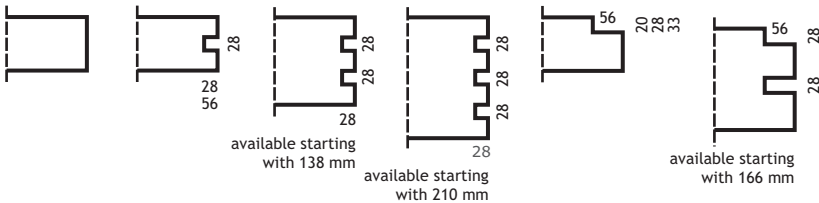


BBS technical data

design	multi-ply, crosswise 3-, 5-, 7- and 9-layered
type of wood	spruce larch arolla pine douglas white fir
wood humidity	12 % +/- 2 %
quality top ply	residential visible AB industrial visible BC non visible
surfaces AB BC	plane jointless glued each longitudinal layer = single ply panel planed double-sided optional polished on one side or brushed
dimensions	width 125 cm length up to 24 m [general finger joint GFJ] thickness 65 mm - 282 mm
longitudinal edge	all longitudinal edges lightly chamfered [- 3 mm] standard profile, double-sided
	
adhesion	single ply panel: MUF E1, watertight, transparent BBS: PU-glue formaldehyde free
deformation	element length direction 0,010 % per % change of wood humidity elemental cross direction 0,025 % per % change of wood humidity
weight	spruce $\rho[12\%]$ ~ 470 kg/m ³ larch $\rho[12\%]$ ~ 590 kg/m ³
heat insulation	heat conductance $\lambda_R = 0,13$ W/mK [DIN] $\lambda_{measured} = 0,092$ W/mK [98 mm BBS] specific heat capacity $c = 2,10$ kJ/kgK heat penetration coefficient $b = 22$ kJ/m ² Kh ^{1/2}
sound insulation	massive sound insulation through massive construction expert's report on inquiry
fire protection	combustion speed 0,67 mm/min expert's report on inquiry
diffusion	open to diffusion, vapour braking diffusion resistance figure $\mu \sim 70$
approval	European Technical Approval ETA-06/0009 CE German Technical Approval DIBt-Berlin Z-9.1-534

