

Hinge Screw Withdrawal

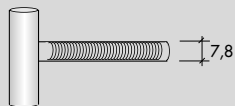
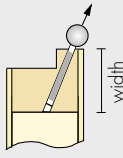
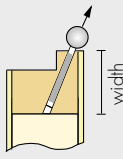
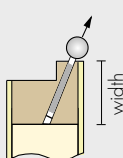
Results

Testing of hinge-screw withdrawal :

- measurements of hinge and bores in mm
- hinge screw withdrawal in kN
- results given are the average of at least 10 tests

Preparation of the tests :

- skin 3 mm thin particle board
- internal stiles RS3 630 kg/m³-VSP
- boring with step borer :
 - 7,5 mm opening side = ca. 13 mm
 - 6,5 / 6,0 mm continuous

Hinge Thread		V 0020 metric thread M 8		V 0020 SG cut thread conic tenon		
		width of stiles internal stiles	35 mm + RS	45 mm	35 mm + RS	45 mm
		boring	7,5/6,5	7,5/6,5	7,5/6,0	7,5/6,0
33 HVA 650 kg/m ³			4,45 kN	4,51 kN	4,70 kN	4,84 kN
33 HVB 700 kg/m ³			5,1 kN	5,4 kN	5,6 kN	5,7 kN
Spruce ca. 480 kg/m ³			4,70 kN	5,01 kN	4,91 kN	5,26 kN

Recommendation :

To avoid marks on the surface of the rebate and the opening side we recommend to use hinges with cut thread.