

Technical data

Wolf system dowels

- Special dowel with an outer diameter of 6.7 or 8.7 mm
- Its longitudinal expansion replaces the expansion element thanks to its spring effect, so that no additional screw is required
- For professional, quick fastening without metal



Product description:

The optimum expansion effect is achieved when using dimensionally stable drill bits with a diameter of 6 or 8 mm. The expansion effect along the longitudinal axis always ensures a firm hold, even in difficult substrates such as vertically perforated brick (without impact drilling) or aerated concrete, where conventional expansion plugs have their difficulties. This saves time and money, because with the Wolf system plug you always have the right fixing element to hand, whether for concrete, aerated concrete, masonry or vertically perforated brick. In addition, one dimension of the system anchor replaces three dimensions of nail anchors, thereby significantly reducing stock levels (e.g. Wolf system anchor 6 x 60 instead of nail anchor 6 x 40 / 6 x 50 / 6 x 60). The glass fibre-reinforced nylon is the prerequisite for the high pull-out and shear values and makes the Wolf system anchor an interesting alternative to stainless steel nail anchors. In addition to absolute weather resistance with 100% corrosion protection, a further advantage is that no thermal bridges can occur that are conducted into the masonry through metal parts. The Wolf system dowel guarantees 100% protective insulation, especially in the area of electrical installations.

Shear values Wolf System dowels 6 mm / 8 mm - Factory test	
Dimension	Shear value
6 mm	1,08 KN*
8 mm	2,10 KN

* = Mean value from 3 measurements

Pull-out values Wolf System dowels 6 x 40 mm - Factory test				
Building material	BEM	Pull-out values in kN Mushroom head	BEM	Pull-out values in kN Cylinder head
Concrete	6,17	0,750	6,17	0,800
Bricks	6,17	0,750	6,17	0,875
Sand-lime brick KS 12	6,17	0,725	6,17	0,850
Lightweight concrete solid block	6,17	0,400	6,17	0,450
Poroton	6,17	0,350	6,17	0,425
Perforated brick	6,17	0,500	6,17	0,450

Note:
The drill holes were drilled using SDS-Plus drill bits with the specified drilling dimensions (BEM). The dimensions tested were 6 x 40 mm. The anchoring depth was 30 mm for the mushroom head version and 33 mm for the cylinder head version. The pull-out values were determined using a hydraulic pull-out device under centric tension. The stated value is the average of 4 individual measurements.