

## The breaking loads of the Schnabl products:

Average values of the torque test of the TU Graz and the institute TGM Kunststofftechnik.  
The following table shows the average values of the tests carried out in July and August 2009 (all details in Newton):

Subsurface/ product	Concrete	Full brick	Hollow bric <sup>1)</sup> (Porotherm)	Aerated concrete <sup>2)</sup>	Plasterboard <sup>2)</sup> 15 mm	Plasterboard 25 mm	Woodwool slabs
ESD 30	359.00	325.50	335.70	151.30		225.60	
AKS 20	391.30	341.90	245.20	151.30			
AKS 25	504.40	404.30	387.20	187.10			
KB 10	343.70	331.00					
SH 25	292.80	282.20					
SH 50	272.20	311.10					
USA 20–25/25	241.40	210.20	234.70	106.60		191.20	
USE 20–25/25			223.40	233.10			
CF 20					119.60	169.00	
CF 25					128.00	168.00	
PD 1					459.50	933.10	115.70
PD 2					446.90	1,227.00	210.70
DKS 3–13	248.00	271.80					
DHI 15 <sup>3)</sup>	780.60	828.70	707.80	378.70			
DSN 30	340.00	330.00	310.00	75.00		85.00	
TA 100/25	369.00	374.00	365.20	148.10			
MDSN	250.00						

<sup>1)</sup> In this material drilling was done without "percussion" (with 6 mm lance drill)

<sup>2)</sup> In these materials drilling was done without "percussion" (with 6 mm iron drill)

<sup>3)</sup> Assembly instructions: minimum setting depth in the stable subsurface = 45 mm. drilling diameter = 10 mm. minimum drilling depth = overall length DHI + 10 mm

The torque values given are breaking loads in which the fastening tears or the fastening shaft has been pulled out of the borehole.  
The required safety factor must be observed based on the particular use.