

PLASTIC FRAME-FIXING ANCHOR

41

WE 10, R 10, WD 10

Performance data		WE 10	R 10	WD 10	
Recommended load ¹⁾ (tensile, transverse and oblique pull at every angle)	Concrete ⁸⁾	$F_{rec} [kN] \geq B15$	0.8	0.8	-
	Solid brick ²⁾	$F_{rec} [kN] \geq SB 12$	0.6 ²⁾	0.6 ²⁾	-
	Solid sand-lime brick ²⁾	$F_{rec} [kN] \geq SSLB 12$	0.6 ²⁾	0.6 ²⁾	-
	Vertically perforated brick	$F_{rec} [kN] \geq VPB$	-	-	Max. 0.6 ³⁾
	Perforated sand-lime brick	$F_{rec} [kN] \geq PSLB 6$	-	-	Max. 0.6 ³⁾
	Solid bricks and solid blocks of lightweight concrete	$F_{rec} [kN] \geq S2$	-	-	Max. 0.5 ³⁾
	Hollow blocks of lightweight concrete ⁶⁾	$F_{rec} [kN] \geq HBLC 2$	-	-	Max. 0.5 ³⁾
	No-fines lightweight concrete (TGL)	$F_{rec} [kN]$	-	-	0.3
	Weather cladding	$F_{rec} [kN] \geq B15$	0.3	-	0.3
	Recommended bending torque ⁴⁾ Galvanized steel, yellow chromated/ A4 stainless steel	$M_{rec} [Nm]$	Tensile force $F_T = 0$ kN: 6.6/5.4 Tensile force $F_T = 0.8$ kN: 6.0/4.8	Tensile force $F_T = 0$ kN: 6.9/6.0 Tensile force $F_T = 0.8$ kN: 6.5/5.6	Tensile force $F_T = 0$ kN: 11.5/9.4 Tensile force $F_T = 0.6$ kN: 11/8.9

Characteristic values		WE	R	WD	
Concrete	Individual anchors	Axial spacing $a \geq [mm]$	100	100	-
		Edge spacing $a_r \geq [mm]$	50	50	-
	Anchor pair	Axial spacing $a_i \geq [mm]$	50	50	-
		Anchor pair spac. $a_a \geq [mm]$	150	150	-
	Minimum component thickness $d \geq [mm]$		100	100	-
	Axial spacing $a \geq [mm]$		100	100	100/250 ⁵⁾
	Edge spacing with extra load and edge spacing to	Non-mortar-filled joints $a_r \geq [mm]$	100	100	100
		Mortar-filled joints $a_r \geq [mm]$	30	30	30
	Edge spacing without extra load if no tipping test is performed $a_r \geq [mm]$		250	250	250
	Minimum component thickness $d [mm]$		115	115	175
Nom. drill dia. $d_0 [mm]$		10	10	10	
Drill hole depth $t \geq [mm]$		60	60	100	
Anchoring depth ⁶⁾ $h_v \geq [mm]$		50	50	90	
Through-hole in the component being connected $d_t \leq [mm]$		10.5	10.5	10.5	

Anchor dimensions		WE		R		WD	
Total length	$l [mm]$	60	80	100	115	135	160
Max. attachment height	$d_a [mm]$	10	30	50	65	85	110
Designation		WE 10 x 60/10	WE 10 x 80/30	WE 10 x 100/50	WE 10 x 115/65	WE 10 x 135/85	WE 10 x 160/110
Art. No. WE 10 & WD 10 Plastic Frame-Fixing Anchors (without screw), P. [Qty.] = 100		0912 010 60	0912 010 80	0912 010 100	0912 010 115	0912 010 135	0912 010 160
Packing unit	P. [Qty.]	100	-	100	-	-	-
Art. No. WE 10 & R 10 Plastic Frame Fixing Anchors with countersunk screw Galvanized steel	TX 40 drive	0912 510 80	0912 510 100	0912 510 115	0912 510 135	0912 510 160	0912 510 200
Art. No. WE 10 Plastic Frame Fixing Anchor with hexagon screw DIN 571 Galvanized steel	Wrench size 13	0912 710 60	-	-	-	-	-
Art. No. WE 10 Plastic Frame Fixing Anchor with hexagon screw DIN 571 A4 stainless steel	Wrench size 13	0912 410 60	-	-	-	-	-
Packing unit	P. [Qty.]	100	50	50	50	50	25

Special anchor screw Screw length = anchor length + 5 mm			
Dimension dia. d x L [mm]	Countersunk screw with Phillips head Z (PZD), size 4		
	Galvanized steel with 3 mm head hole bore Art. No.	Galvanized steel Art. No.	A4 stainless steel Art. No.
7 x 85	0160 17 85	0160 27 85	0161 27 85
7 x 105	0160 17 105	0160 27 105	0161 27 105
7 x 120	0160 17 120	0160 27 120	0161 27 120
7 x 140	0160 17 140	0160 27 140	0161 27 140
7 x 165	0160 17 165	0160 27 165	0161 27 165
Dimension dia. d x L [mm]	Countersunk Screw with TX 40 drive		
	Galvanized steel Art. No.	A4 stainless steel Art. No.	
7 x 85	0160 37 85	0161 37 85	
7 x 105	0160 37 105	0161 37 105	
7 x 120	0160 37 120	0161 37 120	
7 x 140	0160 37 140	0161 37 140	
7 x 165	0160 37 165	0161 37 165	
Dimension dia. d x L [mm]	Hexagon Screw head DIN 571, wrench size 13 mm		
	Galvanized steel Art. No.	A4 stainless steel Art. No.	
7 x 85	0160 47 85	0161 47 85	
7 x 105	0160 47 105	0161 47 105	
7 x 120	0160 47 120	0161 47 120	
7 x 140	0160 47 140	0161 47 140	
7 x 165	0160 47 165	0161 47 165	
Dimension dia. d x L [mm]	Safety screw, TX40 drive and sealing plug Galvanized steel Art. No.		Cover Caps
	7 x 85	0265 27 85	White 0590 008
7 x 105	0265 27 105	Black 0590 08	
7 x 120	0265 27 120	Gray 0590 098	

¹⁾ A constant tensile load (e.g. from self-weight) is only possible as oblique pull. This oblique tensile load must form an angle of at least 10° with the axis of the anchor.

²⁾ The possible load may be increased to 0.8 kN if non-perforated solid brick or non-perforated solid sand-lime brick (no grip pocket) is used.

³⁾ Maximum possible load if the possible load is determined via tests on the building.

⁴⁾ For loads between the two values ($F_T = 0$ kN and $F_T = 0.8$ kN), the relevant possible bending torques may be linearly interpolated.

⁵⁾ For anchoring in VPB and PSLB ($h > 11.3$ cm, perforation proportion > 15%) and HBLC, the axle spacing must be at least 25 cm. The axle base may be reduced to 10 cm for anchor pairs if the possible load is reduced by half and the spacing to other anchors

is at least 25 cm. Linear interpolation may be used between these two limit values.

⁶⁾ The anchoring depth may only be exceeded if checked via tests on the building.

Packing unit P. [Qty.] 200 ea.