

ZEBRA® SHARK W-ZX PLASTIC ANCHOR

92.2

Characteristic installation values: Concrete & masonry (ZEBRA® Shark W-ZX 10 only)						
Anchor diameter	[mm]	W-ZX 6	W-ZX 8	W-ZX 10	W-ZX 12	W-ZX 14
Nom. drill dia.	d_0 [mm]	6	8	10	12	14
Drill cutting dia.	$d_{cut} \leq$ [in mm]	6.4	8.45	10.45	12.45	14.45
Drilled hole depth	$h_1 \geq$ [in mm]	$l_s + 5 \text{ mm} - t_{fix}$				
Setting depth of the anchor sleeve	h_{nom} [mm]	34	45	55	65	75
Through-hole in attachment part	$d_f \leq$ [mm]	5.5	6.5	8.5	10.5	12.5

Performance data: Concrete, multiple attachment of non load-bearing systems						
Anchor diameter	[mm]	W-ZX 6	W-ZX 8	W-ZX 10	W-ZX 12	W-ZX 14
Setting depth of the anchor sleeve	h_{nom} [mm]	34	45	55	65	75
Central tensile load ¹⁾ for single anchor or anchor group	$N_{perm} = C12/15$ [kN]	24 ° C²⁾/40 ° C³⁾	0.30	0.36	0.99	1.59
	$N_{perm} \geq C16/20$ [kN]	24 ° C²⁾/40 ° C³⁾	0.36	0.48	1.39	2.18
Transverse load ¹⁾ for single anchor or anchor group	V_{perm}	[kN]	1.62	2.59	4.67	8.55
Minimum component thickness	h_{min}	[mm]	100	100	100	120
Minimum axial spacing ⁴⁾	s_{min} [mm]	C12/15	110	110	110	210
		$\geq C16/20$	80	80	80	150
Minimum edge spacing ⁴⁾	c_{min} [mm]	C12/15	110	110	110	210
		$\geq C16/20$	80	80	80	150
Characteristic edge spacing	$c_{ce,N}$ [mm]	C12/15	120	110	110	210
		$\geq C16/20$	80	80	80	150

¹⁾ The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of $\gamma_f = 1.4$ have been taken into account. In case of a combination of tensile and transverse loads, please observe ETAG 020 Appendix C.

²⁾Maximum long-term temperature
³⁾Maximum short-term temperature
⁴⁾Permissible load must be reduced

Performance data: Masonry ⁴⁾ (ZEBRA® Shark W-ZX 10 only), Multiple attachment of non-load-bearing systems (temperature range: 20 ° C ²⁾ /40 ° C ³⁾)				
Other brick types, raw densities, minimum compressive strengths and temperature ranges can be found in ETA-12/0042.				
Brick type	Brick format [mm]	Raw density class [kg/dm ³]	Minimum compressive strength [N/mm ²]	F_{perm} [kN] ^{1) 5)} (for single anchor or anchor group) W-ZX 10
Anchoring depth	h_{nom} [mm]			55
Clay brick CB, EN 771-1, DIN 105	$\geq \text{NF}$ ($\geq 240 \times 115 \times 71$)	≥ 1.8	10	0.34
			20	0.57
			28	0.71
	$\geq \text{NF}$ ($\geq 240 \times 115 \times 71$)	≥ 1.8	8	0.21
			12	0.34
			20	0.57
Vertically perforated brick, VPB, EN 771-1, DIN 105	$\geq 12 \text{ DF}$ ($\geq 373 \times 240 \times 238$)	≥ 1.2	4	0.34
			6	0.43
			8	0.71
Solid sand-lime brick SSLB, EN 771-2, DIN 106	$\geq \text{NF}$ ($\geq 240 \times 115 \times 71$)	≥ 2.0	10	0.34
			20	0.43
			28	0.71

¹⁾ The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of $\gamma_f = 1.4$ have been taken into account. In case of a combination of tensile and transverse loads, please observe ETAG 020 Appendix C.

²⁾Maximum long-term temperature
³⁾Maximum short-term temperature
⁴⁾ Other brick types, raw densities, minimum compressive strengths or temperature ranges can be found in ETA-12/0042.

⁵⁾ The brick geometry should be compared with the ETA-12/0042 approval.