

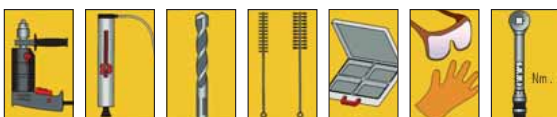
INJECTION SYSTEM W-VIZ/A4/W-VIZ/HCR M16 TO M24

23.2

Characteristic values W-VIZ/A4 (W-VIZ/HCR see ETA-04/0095)		M16 hef 90	M16 hef 105	M16 hef 125	M16 hef 145	M20 hef 115	M20 hef 170	M20 hef 190	M24 hef 200	M24 hef 225	
Anchor diameter [mm]											
Minimum component thickness	$h_{min} \geq$ [mm]										
Minimal axis distance	$s_{min} \geq$ [mm]										
Minimal edge clearance	$c_{min} \geq$ [mm]										
Axial spacing	$s_{cr,N}$ [mm]										
Edge spacing	$c_{cr,N}$ [mm]										
Effective anchoring depth	$h_{ef} \geq$ [mm]										
Nom. drill dia.	d_o [mm]										
Drill hole depth	$h_o \geq$ [mm]										
Through-hole in the component being connected – cotter-pint mounting	$d_f \leq$ [mm]										
Through-hole in the component being connected – pass-through mounting ⁴⁾	$d_f \leq$ [mm]										
torque while installing anchor	$T_{inst} \leq$ [Nm]										
Cleaning brush dia.	$D \geq$ [mm]										

Performance data W-VIZ/A4 (W-VIZ/HCR see ETA-04/0095)		M16 hef 90	M16 hef 105	M16 hef 125	M16 hef 145	M20 hef 115	M20 hef 170	M20 hef 190	M24 hef 200	M24 hef 225	
Permissible central tensile load ¹⁾ of a single anchor without edge influence	Tensile zone (cracked concrete C20/25 ²⁾ , $s \geq 3 h_{ef}$, $c \geq 1,5 h_{ef}$										
	Pressure zone (non-cracked concrete C20/25 ²⁾ Minimum axial and edge spacing ($s_{cr,sp} \geq 3 h_{ef}$, $c_{cr,sp} \geq 1,5 h_{ef}$)										
	Pressure zone (non-cracked concrete C20/25 ²⁾ maximum carrying capacity ($s_{cr,sp}$ and $c_{cr,sp}$ see permit)										
Permissible transverse load ¹⁾ of a single anchor without edge influence	Tensile zone (cracked concrete C20/25 ²⁾ , $c \geq 10 h_{ef}$										
	Pressure zone (non-cracked concrete C20/25 ²⁾ , $c \geq 10 h_{ef}$										
Permissible bending torque	$T_{perm.}$ [Nm]										
Fire resistance duration	F30 [kN]										
	F60 [kN]										
	F90 [in kN]										
	F120 [kN]										

Würth system components



¹⁾ The partial safety factors of the resistances regulated in the approval and a partial safety factor of the effects of $\gamma_F = 1.4$ have been taken into account. Please refer to the European Technical Approval Guidelines (ETAG), Appendix C, for information on combining tensile and transverse loads, edge influence and groups of anchors.
²⁾ The concrete has normal reinforcement. Higher values are possible for higher concrete strengths.

³⁾ Maximum long-term temperature.
⁴⁾ Maximum short-term temperature.
⁵⁾ The back of the concrete component must be checked to ensure that no chipping has occurred during drilling (see ETA-04/0095).
⁶⁾ The ring gap in the attached part must be completely filled with excess mortar after the setting.