LOADS

Superbond Resin Anchor RSB71 with internal threaded anchor RG MI (screw property class 8.8)

Highest permissible loads for a single anchor 1) 6) in concrete C20/254)

For the design the complete approval ETA - 12/0258 has to be considered.

				Cracked concrete				Non-cracked concrete				
Тур	effective	Min.	Max.	Permissible	Permissible	Min.	Min.		Permissible	Min.	Min.	
	anchorage depth	member thickness	torque moment	tensile load	shear load	spacing	edge distance	tensile load	shear load	spacing	edge distance	
	h _{ef}	h _{min}	T _{inst,max}	N _{perm} 3)	V _{perm} 3)	s _{min} 2)	c _{min²⁾}	N _{perm} 3)	V _{perm} ³)	s _{min} 2)	c _{min²⁾}	
	[mm]	[mm]	[Nm]	[kN]	[kN]	[mm]	[mm]	[kN]	[kN]	[mm]	[mm]	
RG M 8 I	90	120	10,0	8,1	8,3	55	55	13,8	8,3	55	55	
RG M 10 I	90	125	20,0	10,8	13,3	65	65	20,5	13,3	65	65	
RG M 12 I	125	165	40,0	16,8	19,3	75	75	32,4	19,3	75	75	
RG M 16 I	160	205	80,0	26,3	30,9	95	95	48,7	30,9	95	95	
RG M 20 I	200	260	120,0	41,9	51,4	125	125	68,0	51,4	125	125	

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \ge 3$ x h_{ef} and an edge distance $c \ge 1.5$ x h_{ef}.

LOADS

Superbond Resin Anchor RSB with internal threaded anchor RG MI A4 (screw property class A4-70) Highest permissible loads for a single anchor 1) 6) in concrete C20/254)

For the design the complete approval ETA - 12/0258 has to be considered.

				Cracked concrete				Non-cracked concrete			
Тур	effective	Min.	Max.		Permissible	Min.	Min.		Permissible	Min.	Min.
	anchorage depth	member thickness	torque moment	tensile load	shear load	spacing	edge distance	tensile load	shear load	spacing	edge distance
	h _{ef}	h _{min}	T _{inst,max}	N _{perm} 3)	V _{perm} 3)	s _{min} 2)	C _{min²⁾}	N _{perm} 3)	V _{perm} 3)	s _{min²⁾}	c _{min²⁾}
	[mm]	[mm]	[Nm]	[kN]	[kN]	[mm]	[mm]	[kN]	[kN]	[mm]	[mm]
RG M 8 I A4	90	120	10,0	8,1	5,9	55	55	9,9	5,9	55	55
RG M 10 I A4	90	125	20,0	10,8	9,3	65	65	15,7	9,3	65	65
RG M 12 I A4	125	165	40,0	16,8	13,5	75	75	22,5	13,5	75	75
RG M 16 I A4	160	205	80,0	26,3	25,1	95	95	42,0	25,1	95	95
RG M 20 I A4	200	260	120,0	41,9	39,4	125	125	65,7	39,4	125	125

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of γ_1 = 1.4 are considered. As an single anchor counts e.g. an

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ For higher concrete strength classes up to C50/60 higher permissible loads may be possible.

⁶⁾ The given loads are valid for temperatures in the substrate up to +50 °C (resp. short term up to 80 °C). Erection of the drill hole by hammer drilling with best possible drill hole cleaning according approval. The anchor may be installed in dry or wet concrete.

anchor with a spacing $s \ge 3$ x h_{ef} and an edge distance $c \ge 1,5$ x h_{ef}.

Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

 $^{^{\}rm 4)}$ For higher concrete strength classes up to C50/60 higher permissible loads may be possible.

⁶⁾ The given loads are valid for temperatures in the substrate up to +50 °C (resp. short term up to 80 °C). Erection of the drill hole by hammer drilling with best possible drill hole cleaning according approval. The anchor may be installed in dry or wet concrete.