

Resin Anchor Rod VMZ-A

Group: 1409

Application

Anchor Rod for push-through and put-before mounting in concrete tensile zones in M&E services and plant construction (for anchoring heavy loads). Suitable for attaching pipelines, channels, brackets, etc. in closed rooms - except for damp locations.

(Stainless steel version available on request).

- ◆ No special drill required
- ◆ Heavy loads
- ◆ Small edge and centre distance
- ◆ Approved for use under seismic action according to the performance category C1 and C2 (M10 - M16)

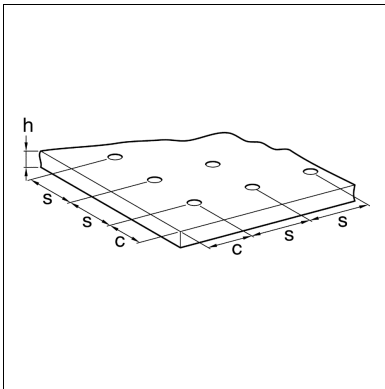
Scope of delivery

Pre-assembled with washer and hexagon nut.

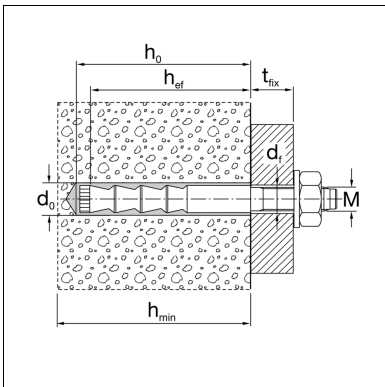
Installation

1. Drill hole according to min. setting depth vertically to the surface.
2. Careful cleaning of drill hole with Steel brush and Blow-Out Pump.
3. Screw Mixing Nozzle onto the cartridge; foreshots to be removed and fill 2/3 of drill hole with resin starting from bottom of the hole.
4. Drive the anchor manually into plastered borehole up to its embedment mark.
5. When reaching the embedment mark, plaster must be apparent.
6. Respect hardening time, when tighten the anchor with instructed torque.

Detailed assembly instruction is attached to the product.



Technical Data



	Typ	M8	M10	M12	M12	M16
		50	60	80	125	125
Perm. load ¹⁾ tension C20/25 ²⁾ [kN]		6.1	8.0	12.3	24.0	24.0
Perm. load ¹⁾ tension C25/30 ²⁾ [kN]		6.6	8.7	13.4	26.2	26.2
	C30/37 ²⁾ [kN]	7.4	9.7	14.9	27.1	29.1
	C40/50 ²⁾ [kN]	8.6	11.3	17.3	27.1	33.9
	C50/60 ²⁾ [kN]	8.6	11.9	19.0	27.1	37.1
Perm. load ¹⁾ oblique V C20/25 ²⁾ [kN]		8.0	12.0	19.4	19.4	36.0
	≥ C30/37 ²⁾ [kN]	8.0	12.0	19.4	19.4	36.0
Perm. bending moments M [Nm]		17.1	34.3	60	60	152
Min. thickness of component h _{min} ≥ [mm]		80	100	110	160	170
Charact. centre distance S _{cr,N} [mm]		150	180	240	375	375
Charact. edge distance C _{cr,N} [mm]		75	90	120	187,5	187,5
Min. centre distance s _{min} [mm]		40	40	40	50	60
Min. edge distance c _{min} [mm]		40	40	50	50	60
Effective anchoring depth h _{ef} [mm]		50	60	80	125	125
Nominal diameter of drill d ₀ [mm]		10	12	14	14	18
Depth of bore hole h ₀ [mm]		55	65	85	130	133
Anchoring torque T _{inst} [Nm]		10	15	25	30	50
Loads under fire exposure						
Perm. load R 30 perm. F [kN]		1.69	3.38	5.8	5.8	7.62
Perm. load R 60 perm. F [kN]		0.07	0.83	3.11	3.11	5.81
Perm. load R 90 perm. F [kN]				1.14	1.14	4.01
Perm. load R 120 perm. F [kN]						3.11

¹⁾ Loads for single anchors without influence of edge and centre distances, if constant temperature of 50°C and und currently 80°C is not exceeded.

²⁾ Cracking concrete 50°C/80°C

The safety factor according to ETAG is included.
For the dimensioning, respect the data of the approval notification.

Material: Steel, galvanised

Approvals / Conformity

Sikla Approval ETA 10/0260



¹⁾ Delivery date on request - goods are procured on an order-related basis.

Type	Thread connection	t _{fix} = Max. usable length [mm]	Total length [mm]	W [kg]	Quantity [pack]	Part number
VMZ-A 50 M8-15/80 ¹⁾	M8	15	80	0.04	10	190712
VMZ-A 50 M8-30/95 ¹⁾	M8	30	95	0.04	10	190721
VMZ-A 60 M10-10/85	M10	10	85	0.06	10	190739
VMZ-A 60 M10-30/105 ¹⁾	M10	30	105	0.06	10	190748
VMZ-A 60 M10-60/135 ¹⁾	M10	60	135	0.09	10	190757
VMZ-A 80 M12-10/110	M12	10	110	0.12	10	190766
VMZ-A 80 M12-25/125	M12	25	125	0.13	10	190775
VMZ-A 80 M12-50/150 ¹⁾	M12	50	150	0.15	10	190784
VMZ-A 125 M12-25/170 ¹⁾	M12	25	170	0.18	10	117350
VMZ-A 125 M16-30/180 ¹⁾	M16	30	180	0.28	10	190793
VMZ-A 125 M16-60/210 ¹⁾	M16	60	210	0.36	10	190802