

FM-MP3 evo

Vrouwelijke metalen plug voor zware belasting optie 7

De metalen plug FM-MP3 EVO met schroefexpansiehuls in 3 segmenten is geschikt voor het bevestigen van elementen voor het overbrengen van zware belastingen in een groot aantal ondergronden: gescheurd of ongescheurd beton, volle of holle ondergronden.

Features

Materiaal

- Elektrolytisch verzinkt staal.

Voordelen

- Universele metalen plug, ook geschikt voor hol metselwerk,
- Body uit één stuk, met een exclusief kegelhechtingssysteem,
- Brandwerendheid R120.

Applications

Toepassingsgebieden

- Borstweringen,
- Veiligheidsbarrières,
- Uitrustingen, diverse niet-structurele toepassingen.

Ondergrond

- Gescheurd beton,
- Ongescheurd beton,
- Vol metselwerk,
- Steen,
- Alveolaire baksteen (compatibiliteit te controleren).

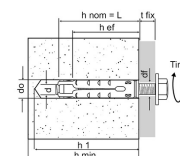


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Technische gegevens

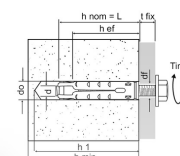
Afmetingen



Referentie	Metallic fixings dimensions								Montagegegevens			
	Artikelcode	Afmetingen[mm]		Overig					Montagegegevens			Spacing and edge distances
		Plug[mm]	Rond[mm]	Hole diameter [d _o] [mm]	Min. setting depth [h _{ef}] [mm]	Hole diameter in fixture [d _f] [mm]	Verpakking[stk]	Qty per outer box	Min. hole depth [h ₁] [mm]	Nominal embedment depth [h _{nom}] [mm]	Installation torque[Nm]	Min. support thickness[mm]
73300B1004500	FM-MP3 evo	10x45*	M6	10	36	8	50.0	500	60	45	8	100
73300B1205000	FM-MP3 evo	12x50*	M8	12	43	10	50.0	500	70	50	15	100
73300B1506000	FM-MP3 evo	15x60*	M10	15	50	12	25.0	250	80	60	30	100
73300B1808000	FM-MP3 evo	18x80*	M12	18	69	14	20.0	200	100	80	50	140

* Certified product when coupled with hex head screw DIN933 grade 8.8 and washer DIN125-1 ($t_{fix} = L_v - h_{nom}$)

Product Dimensions - Hex head screw grade 8.8



Referentie	Artikelcode	Product Dimensions - Hex head screw grade 8.8							Montagegegevens			
		Hex	Thread	[t _{fix,max} with	Hole	Min. setting	Hole		Qty	Min. hole	Nominal	

Product Dimensions - Hex head screw grade 8.8

See full table online [➔](#)



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Design capacities - single anchor - no edge distances

Referentie	Metallic fixings dimensions	Metallic fixings loads								
	Artikelcode	Design capacity - Non-cracked concrete (3)[kN]								
		Bending moment MRd[Nm]	Tension - NRd (1)				Shear - VRd (1-2)[kN]			
			C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]
73300B1004500	FM-MP3 evo	9.6	5	-	-	-	5.1	-	-	-
73300B1205000	FM-MP3 evo	24	8	-	-	-	9.3	-	-	-
73300B1506000	FM-MP3 evo	48	1.6	-	-	-	11.6	-	-	-
73300B1808000	FM-MP3 evo	84	16.7	-	-	-	27	-	-	-
73301B1004500	FM-MP3 evo	9.6	5	-	-	-	5.1	-	-	-
73301B1205000	FM-MP3 evo	24	8	-	-	-	9.3	-	-	-
73301B1506000	FM-MP3 evo	48	11.6	-	-	-	11.6	-	-	-

1. The design loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10mm or smaller.

2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 \text{ hef}; 60d]$) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.

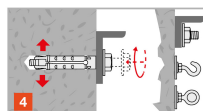
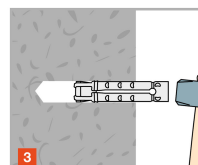
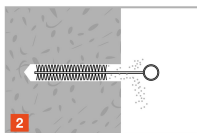
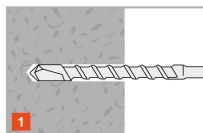
3. Concrete is considered non-cracked when the tensile stress within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3 \text{ N/mm}^2$ can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

** Not covered by CE certification

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Plaatsing



Installation data

Referentie	Metallic fixings dimensions	Montagegegevens					
	Artikelcode	Montagegegevens					Spacing and edge distances
		Ø drilling hole[mm]	Min. boorgatdiepte[mm]	Ø drilling fixture[mm]	Installation torque[Nm]	Embedment depth[mm]	Min. support thickness[mm]
73300B1004500	FM-MP3 evo	10	60	8	8	36	100
73300B1205000	FM-MP3 evo	12	70	10	15	43	100
73300B1506000	FM-MP3 evo	15	80	12	30	50	100
73300B1808000	FM-MP3 evo	18	100	14	50	69	140
73301B1004500	FM-MP3 evo	10	60	8	8	36	100
73301B1205000	FM-MP3 evo	12	70	10	15	43	100
73301B1506000	FM-MP3 evo	15	80	12	30	50	100

** Not covered by CE certification

Spacings and edge distances - ETA-09/0067

Referentie	Metallic fixings dimensions	Montagegegevens			
	Artikelcode	Spacing and edge distances			
		Min. hartafstand[mm]	S _{min} [mm]	Characteristic edge distance[mm]	Characteristic spacing(5) - Scr,N[mm]
73300B1004500	FM-MP3 evo	35	35	54	108
73300B1205000	FM-MP3 evo	45	45	65	130
73300B1506000	FM-MP3 evo	50	50	75	150
73300B1808000	FM-MP3 evo	75	75	104	208

* The above table values also apply to: evo S

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