

FM-X5

Rammedybel for vinduer og døre

FM-X5 rammedybel i Ø8 og Ø10 mm udgaver med undersænket hoved for alsidig montage i beton og murværk

Egenskaber

Materiale

Dybel: nylon

Skrue: hvid zinkbelagt stål

Fordele

- Variabel geometri med multi-ekspansion
- Lavt iskruningsmoment
- Flexibelt nylon

Anvendelse

Anvendelsesområder

- Rammeværk
- Vægskabe
- Let tømrerarbejde

Lämplig för

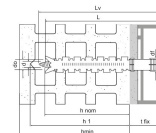
- Urevnet beton
- Massive mursten
- Hulsten
- Letvægts hulsten
- Letklinkerbeton
- Letbeton
- Sten



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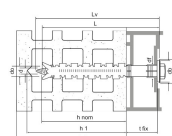
Teknisk data



Product Dimension - Countersunk Screw

Art. nr.	Product Reference	Hole diameter x anchor length [d _o xL] [mm]	Max. fixture thickness [t _{fix}] [mm]	Min. hole depth [h ₁] [mm]	Nominal embedment depth [h _{nom}] [mm]	Min. support thickness* [h _{min}] [mm]	Hole diameter in fixture [d _p] [mm]	Screw diameter [d] [mm]	Screw length [L _v] [mm]	Bit	Qty per box	Qty per outer box
64301B0808000	FM-X5	Ø8x80	10	80	70	120	8.5	6	85	T30	100	1000
64301B0810000		Ø8x100	30	80	70	120	8.5	6	105	T30	50	500
64301B0812000		Ø8x120	50	80	70	120	8.5	6	125	T30	50	500
64301B0815000		Ø8x150	80	80	70	120	8.5	6	155	T30	50	-
64301B0817000		Ø8x170	100	80	70	120	8.5	6	175	T30	50	-
64301B1008500		Ø10x85	15	80	70	120	10.5	7	90	T40	50	500
64301B1010000		Ø10x100	30	80	70	120	10.5	7	105	T40	50	500
64301B1011500		Ø10x115	45	80	70	120	10.5	7	120	T40	50	500
64301B1013500		Ø10x135	65	80	70	120	10.5	7	140	T40	50	200
64301B1016000		Ø10x160	90	80	70	120	10.5	7	165	T40	50	-
64301B1020000		Ø10x200	130	80	70	120	10.5	7	205	T40	50	-
64301B1023000		Ø10x230	160	80	70	120	10.5	7	235	T40	50	-

* Including plaster



Product Dimension - Hex Head Screw

Art. nr.	Product Reference	Hole diameter x anchor length [d _o xL] [mm]	Max. fixture thickness [t _{fix}] [mm]	Min. hole depth [h ₁] [mm]	Nominal embedment depth [h _{nom}] [mm]	Min. support thickness* [h _{min}] [mm]	Hole diameter in fixture [d _p] [mm]	Washer diameter [d _w] [mm]	Screw diameter [d] [mm]	Screw length [L _v] [mm]	Wrench [SW] [mm]
64302B0808000	FM-X5	Ø8x80	10	-	-	-	-	15	6	85	10
64302B0810000		Ø8x100	30	80	70	120	8.5	15	6	105	10
64302B0812000		Ø8x120	50	80	70	120	8.5	15	6	125	10
64302B0815000		Ø8x150	80	80	70	120	8.5	15	6	155	10
64302B1008500		Ø10x85	15	80	70	120	10.5	19	7	90	13
64302B1010000		Ø10x100	30	80	70	120	10.5	19	7	105	13
64302B1011500		Ø10x115	45	80	70	120	10.5	19	7	120	13
64302B1013500		Ø10x135	65	80	70	120	10.5	19	7	140	13
64302B1016000		Ø10x160	90	-	-	-	-	19	7	165	13

* Including plaster

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Rammedybel for vinduer og døre

Product Dimension - Hex Head Screw - Large Rim Washer

Art. nr.	Product Reference	Hole diameter x anchor length [d _o xL] [mm]	Screw diameter [d] [mm]	Screw length [L _v] [mm]	Max. fixture thickness [t _{fix}] [mm]	Bit	Wrench [SW] [mm]	Washer diameter [d _r] [mm]	Qty per box	Qty per outer box
64402B1008500	FM-X5	Ø10x85	7	90	15	T40	13	19	50	500
64402B1010000	FM-X5	Ø10x100	7	105	30	T40	13	19	50	500
64402B1011500	FM-X5	Ø10x115	7	120	45	T40	13	19	50	500
64402B1013500	FM-X5	Ø10x135	7	140	65	T40	13	19	50	200
64402B1016000	FM-X5	Ø10x160	7	165	90	T40	13	19	50	-

Product Dimension - D.I.Y - Countersunk Screw

Art. nr.	Product Reference	Hole diameter x anchor length [d _o xL] [mm]	Screw diameter [d] [mm]	Screw length [L _v] [mm]	Bit	Pcs/blister	Blister/Pkg.
64341B10085F2	FM-X5	Ø10x85	7	90	T40	4	20
64341B10100F2	FM-X5	Ø10x100	7	105	T40	4	20
64341B10115F2	FM-X5	Ø10x115	7	120	T40	4	20
64341B10135F2	FM-X5	Ø10x135	7	140	T40	4	20
64341B10160F2	FM-X5	Ø10x160	7	165	T40	4	20

Product Dimension - D.I.Y - Hex Head Screw

Art. nr.	Product Reference	Hole diameter x anchor length [d _o xL] [mm]	Screw diameter [d] [mm]	Screw length [L _v] [mm]	Bit	Wrench [SW] [mm]	Washer diameter [d _r] [mm]	Pcs/blister	Blister/Pkg.
64342B10085F2	FM-X5	Ø10x85	7	90	T40	13	19	4	20
64342B10100F2	FM-X5	Ø10x100	7	105	T40	13	19	4	20

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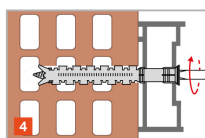
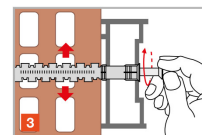
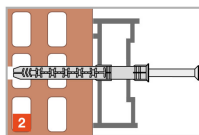
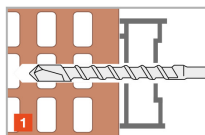
Design capacities - single anchor - no edge distances

Art. nr.	Product Reference	Hole diameter x anchor length [d _o xL] [mm]	Design capacities - single anchor - no edge distances										
			Design capacity										
			Tension - NRd					Shear - VRd					Bending moment M _{Rd} [Nm]
			Non-cracked concrete C12/15 [kN]	Non-cracked concrete C16/20 [kN]	Autoclaved aerated concrete AAC [kN]	Solid brick [kN]	Hollow brick Alveolater	Non-cracked concrete C12/15 [kN]	Non-cracked concrete C16/20 [kN]	Autoclaved aerated concrete AAC [kN]	Solid brick [kN]	Hollow brick Alveolater	
64301B0808000	FM-X5	Ø8x80	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64301B0810000	FM-X5	Ø8x100	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64301B0812000	FM-X5	Ø8x120	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64301B0815000	FM-X5	Ø8x150	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64301B0817000	FM-X5	Ø8x170	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64301B1008500	FM-X5	Ø10x85	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64301B1010000	FM-X5	Ø10x100	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64301B1011500	FM-X5	Ø10x115	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64301B1013500	FM-X5	Ø10x135	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64301B1016000	FM-X5	Ø10x160	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64301B1020000	FM-X5	Ø10x200	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64301B1023000	FM-X5	Ø10x230	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64302B0810000	FM-X5	Ø8x100	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64302B0812000	FM-X5	Ø8x120	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64302B0815000	FM-X5	Ø8x150	0.8	1.4	0.3	1.4	0.6	0.8	1.4	0.3	1.4	0.6	7
64302B1008500	FM-X5	Ø10x85	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64302B1010000	FM-X5	Ø10x100	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64302B1011500	FM-X5	Ø10x115	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47
64302B1013500	FM-X5	Ø10x135	1.4	1.9	0.3	1.4	0.6	1.4	1.9	0.3	1.4	0.6	13.47

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Montering



Spacings and edge distances

Art. nr.	Product Reference	Hole diameter x anchor length [d _a xL] [mm]	Spacings and edge distances									
			Non-cracked concrete C12/15				Non-cracked concrete C16/20				Autoclaved aerated c AAC	
			Min. edge distance [c _{min}] [mm]	Min. spacing [s _{min}] [mm]	Characteristic edge distance [c _{cr,N}] [mm]	Minimum thickness of support [h _{min}] [mm]	Min. edge distance [c _{min}] [mm]	Min. spacing [s _{min}] [mm]	Characteristic edge distance [c _{cr,N}] [mm]	Minimum thickness of support [h _{min}] [mm]	Min. edge distance [c _{min}] [mm]	Min. spacing [s _{min}] [mm]
64301B0808000	FM-X5	Ø8x80	80	80	140	100	60	60	100	100	100	250
64301B0810000	FM-X5	Ø8x100	80	80	140	100	60	60	100	100	100	250
64301B0812000	FM-X5	Ø8x120	80	80	140	100	60	60	100	100	100	250
64301B0815000	FM-X5	Ø8x150	80	80	140	100	60	60	100	100	100	250
64301B0817000	FM-X5	Ø8x170	80	80	140	100	60	60	100	100	100	250
64301B1008500	FM-X5	Ø10x85	80	80	140	100	60	60	100	100	100	250
64301B1010000	FM-X5	Ø10x100	80	80	140	100	60	60	100	100	100	250
64301B1011500	FM-X5	Ø10x115	80	80	140	100	60	60	100	100	100	250
64301B1013500	FM-X5	Ø10x135	80	80	140	100	60	60	100	100	100	250
64301B1016000	FM-X5	Ø10x160	80	80	140	100	60	60	100	100	100	250
64301B1020000	FM-X5	Ø10x200	80	80	140	100	60	60	100	100	100	250
64301B1023000	FM-X5	Ø10x230	80	80	140	100	60	60	100	100	100	250
64302B0810000	FM-X5	Ø8x100	80	80	140	100	60	60	100	100	100	250
64302B0812000	FM-X5	Ø8x120	80	80	140	100	60	60	100	100	100	250
64302B0815000	FM-X5	Ø8x150	80	80	140	100	60	60	100	100	100	250
64302B1008500	FM-X5	Ø10x85	80	80	140	100	60	60	100	100	100	250
64302B1010000	FM-X5	Ø10x100	80	80	140	100	60	60	100	100	100	250
64302B1011500	FM-X5	Ø10x115	80	80	140	100	60	60	100	100	100	250
64302B1013500	FM-X5	Ø10x135	80	80	140	100	60	60	100	100	100	250

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Installation data

Art. nr.	Product Reference	Hole diameter x anchor length [d _a xL] [mm]	Installation data			
			Ø drilling hole [d0] [mm]	Min. drill depth [h1] [mm]	Ø drilling fixture [df] [mm]	Wrench size [SW] [mm]
64301B0808000	FM-X5	Ø8x80	8	80	8.5	-
64301B0810000	FM-X5	Ø8x100	8	80	8.5	-
64301B0812000	FM-X5	Ø8x120	8	80	8.5	-
64301B0815000	FM-X5	Ø8x150	8	80	8.5	-
64301B0817000	FM-X5	Ø8x170	8	80	8.5	-
64301B1008500	FM-X5	Ø10x85	10	80	10.5	-
64301B1010000	FM-X5	Ø10x100	10	80	10.5	-
64301B1011500	FM-X5	Ø10x115	10	80	10.5	-
64301B1013500	FM-X5	Ø10x135	10	80	10.5	-
64301B1016000	FM-X5	Ø10x160	10	80	10.5	-
64301B1020000	FM-X5	Ø10x200	10	80	10.5	-
64301B1023000	FM-X5	Ø10x230	10	80	8.5	-
64302B0810000	FM-X5	Ø8x100	8	80	8.5	10
64302B0812000	FM-X5	Ø8x120	8	80	8.5	10
64302B0815000	FM-X5	Ø8x150	8	80	8.5	10
64302B1008500	FM-X5	Ø10x85	10	80	10.5	13
64302B1010000	FM-X5	Ø10x100	10	80	10.5	13
64302B1011500	FM-X5	Ø10x115	10	80	10.5	13
64302B1013500	FM-X5	Ø10x135	10	80	10.5	13

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