

X-FB-E, X-DFB-E DATA SHEET

Electrical conduit fastener







X-FB-E, X-DFB-E Electrical conduit fastener

Product data

Dimensions





X-DFB-E

X-GHP 20

X-P 20 G3 MX

Ø 6.8

1.8

a 6.8

X-GN 20/27







X-P 20 B3 MX X-C 20 B3 MX







Material specificationsGalvanized steel sheet $f_u = 270-42$

f_u = 270-420 N/mm² 10-20 μm zinc coating

Recommended fastening tools DX 6 MX, DX 5 MX, DX 460 MX, DX 351 MX, DX 6 F8, DX 5 F8, DX 351 F8, DX 460 F8, GX 120 ME, GX 3 ME, BX 3 ME



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• See fastener program in the next pages.

Applications

Example



X-FB-E for rigid conduits



X-FB-E for flexible conduits



Performance data

Recommended resistance under tension load

	Concrete	Sandlime stone	
Designation	N _{rec}	N _{rec}	
X-FB-E or X-DFB-E	0.02 kN	0.02 kN	
with X-GN 20, X-C 20 G3 MX or X-C 20 B3 MX	0.02 KN	0.02 KN	
X-FB-E or X-DFB-E	0.06 kN	0.06 kN	
with X-GN 27 or X-C 27 G3 MX	0.00 KN	0.00 KIN	
X-FB-E or X-DFB-E	0.02 kN -		
with X-GHP 20, X-P 20 G3 MX or X-P 20 B3 MX	0.02 KIN	_	
X-FB-E or X-DFB-E	0.06 kN	0.06 kN	
with X-C 22/27	0.00 KIN	0.00 KN	

• For more details in relation to base material properties, please refer to the chapter **Fastener selection guide** in the Direct Fastening Manual (DFTM).

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Base material thickness	

X-GN, X-GHP, X-C G3 MX, X-P G3 MX:	h _{min} = 60 mm
X-C B3 MX, X-P B3 MX:	h _{min} = 60 mm
X-C:	h _{min} = 80 mm

Fastened material thickness

X-FB-E:	To fasten conduits, pipes and tubes of Ø 16 mm to 25 mm
X-DFB-E:	To fasten conduits, pipes and tubes of Ø 20 mm to 25 mm

Fastener positioning

Space fastenings as needed to control sag and maintain alignment.

Corrosion information

- These zinc-coated fasteners are not suitable for long-term service outdoors or in otherwise corrosive environments.
 - For more details, please refer to following technical document: Hilti Corrosion Handbook.





System recommendation

 For more details, please refer to the chapter Accessories and consumables compatibility in the Direct Fastening Technology Manual (DFTM).

Cartridge recommendation for fastening to concrete and masonry

Base material	Cartridge color (tool power level)		
	Tool type:	Tool type:	
	DX 6 MX	DX 5 MX, DX 460 MX,	
		DX 351 MX	
	DX 6 F8	DX 5 F8, DX 460 F8,	
		DX 351 F8, DX 2	
	Cartridge type: 6.8/11 M	Cartridge type: 6.8/11 M	
Sand lime masonry	titanium 🔳 (1-5)	green 📕, yellow 📕	
Soft/medium concrete	titanium 🔳 (2-5)	yellow 🗕, red 📕	
Tough concrete	titanium 🔳 (4-7)	yellow 🗕, red 📕	

• Tool power level adjustment by setting tests on site.

• Start tool energy selection with lowest recommended tool power level.

• Correct according requirement from chapter quality assurance.

System recommendation for gas-actuated and battery-actuated tools

GX tools	GX 120-ME	Gas can GC 20, GC 21 and GC 22
	GX 3-ME	Gas can GC 40, GC 41 and GC 42
BX tools	BX 3-ME	No gas can required

Quality assurance



Nail head not protruding





Fastener program

Item no. and technical information

Designation	Item no.	d	W	Н
X-FB-E 16 MX	2112585	16 mm	44 mm	17.5 mm
X-FB-E 20 MX	2112586	20 mm	48 mm	21.5 mm
X-FB-E 25 MX	2112587	25 mm	55 mm	26.5 mm
X-DFB-E 20 MX	2112588	20 mm	80 mm	20 mm
X-DFB-E 25 MX	2112589	25 mm	90 mm	25 mm

Tool selection	
X-GN, X-GHP:	GX 120
X-C G3 MX, X-P G3 MX:	GX 3 ME
X-C B3 MX, X-C B3 MX	BX 3 ME
X-C _P8:	DX 6 F8, DX 5 F8, DX 460 F8, DX 351 F8
X-C_MX:	DX 6 MX, DX 5 MX, DX 460 MX, DX 351 MX