

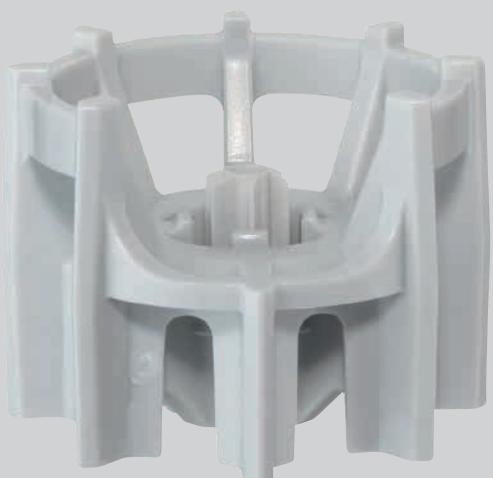


X-FS

Form Stop

Data Sheet

Version: X-FS MX (BX 4-22)



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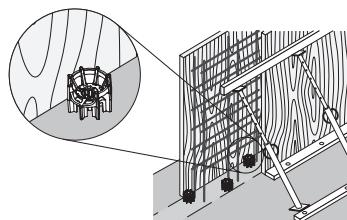
1 PRODUCT INFORMATION

1.1 Product description

Designation	Features
X-FS MX	 <ul style="list-style-type: none">Facilitates quick and easy positioning of formwork panels on concrete footingsDesigned for extremely high productivity – up to five times faster than traditional methodsEasy to install even on rough concrete surfacesGood bond with the concrete due to large openingsHardly visible or fully hidden in concrete after removing formwork

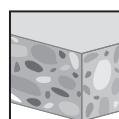
2 INTENDED USE

2.1 Application examples



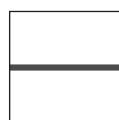
Formwork for concrete walls and columns

2.2 Base materials



Concrete

2.3 Load conditions



Static/quasi-static

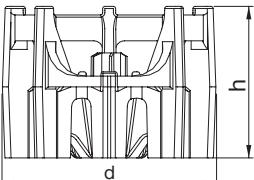
2.4 Environmental conditions

Intended for dry interior or temporary outdoor conditions.

 • For more details, please refer to following technical document: [Hilti Corrosion Handbook](#).

3 PRODUCT DATA

3.1 Dimensions

Technical drawing	Element	Diameter d [mm]	Height h [mm]
	X-FS MX	50	35.2

3.2 Material properties for plastic parts

Element	Component part	Material	Color	Others
X-FS MX	Form stop	Hight-density polyethylene (HDPE)	Light grey, RAL 7035	

4 SYSTEM RECOMMENDATION

4.1 Tool recommendation

Element	Fastener	Tool	Nail magazine	Base material type
X-FS MX	X-C 45 B4 MX	BX 4-22	X-M30XL B4	Soft concrete
	X-C 39 B4 MX	BX 4-22	X-M30L B4, X-M30XL B4	Medium concrete



Set BX4-22 to maximum embedment depth by switching fastener guide locking catch to following setting

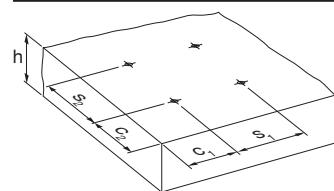
Fastener guide locking catch



- More details are provided in the corresponding Product Data Sheets for fasteners and tools, compiled in the [Direct Fastening Technology Manual \(DFTM\)](#).

5 REQUIREMENTS FOR INTENDED USE

5.1 Base material properties



Fastening to concrete

Base material	Base material thickness h [mm]	Edge distance c ₁ [mm]	Edge distance c ₂ [mm]	Fastener spacing distance s ₁ [mm]	Fastener spacing distance s ₂ [mm]
Concrete	≥ 80	≥ 70	≥ 70	≥ 100	≥ 100

6 PERFORMANCE DATA

6.1 Recommended loads

Element	Fastener	Base material	Shear load V _{rec} [kN]
X-FS MX	X-C 39 B4 MX, X-C 45 B4 MX	Concrete	0.1

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- Redundancy of fastening points is required.
- Minimum number of fastening points for safety relevant fastenings: ≥ 5.
- Choose fastener and edge distance depending on jobsite requirements.

6.2 Stick rate estimation

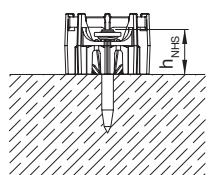
Technical drawing	Fastener	Base material type	Stick rate estimation [%]
	X-C 45 B4 MX	Soft concrete	75–90
	X-C 39 B4 MX	Medium concrete	75–90

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- Stick rate can vary from the above values depending on job site conditions.
- The stick rate indicates the percentage of nails that were driven correctly to carry a load.

7 QUALITY ASSURANCE

7.1 Fastening inspection



Use of X-C 45 B4 MX is generally recommended. In case of nail buckling, consider changing to the X-C 39 B4 MX

Element	Fastener stand-off h_{NHS} [mm]
X-FS MX	17-23



- Visible setting failures must be replaced with a new fastener, not in the same hole.
- These are abbreviated instructions which may vary by application.
- Always review/follow the instructions for use.

8 ORDERING INFORMATION

8.1 Item number and description

Designation	Item number	Description
X-FS MX	408022	X-FS MX Formwork Spacer
X-C 39 B4 MX	2412658	X-C B4 MX Concrete nails (collated)
X-C 45 B4 MX	2412760	



- Item availability may vary. Please check your local website for details.



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