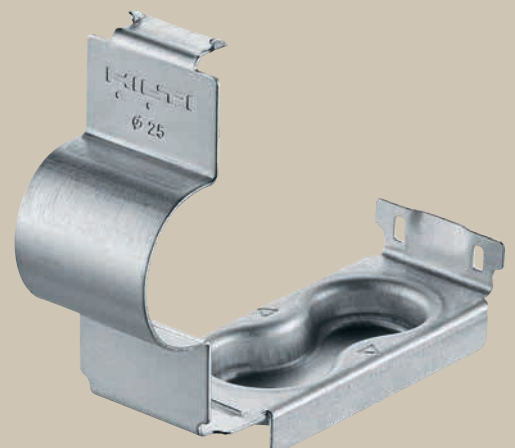




# X-SC-FE MX DISTANCE SADDLE CLIP

Data Sheet




March 2025

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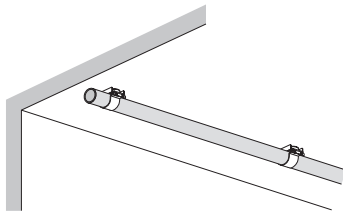
# 1 PRODUCT INFO

## 1.1 Product description

Designation	Features
<p>X-SC-FE MX</p> 	<ul style="list-style-type: none"> <li>• Faster conduit installation: our most productive way to fix conduits with distance saddle clips thanks to the push-to-lock system</li> <li>• Simpler installation: no drilling and screwing thanks to the direct fastening system</li> <li>• Multiple installation methods: install with direct fastening tools such as the BX 3-22 or BX 4-22 concrete nailer, or with HUS 6x35 screw anchors</li> <li>• Easier handling: the saddle clips magnetically grip the nailer nose (X-FG-FE fastener guide), for one-handed fastening</li> <li>• 30-minute fire rating: engineered to remain fastened to the base material in the presence of fire</li> </ul>

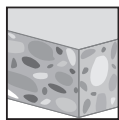
# 2 APPLICATION CONDITIONS

## 2.1 Application examples

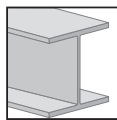


Conduit installation

## 2.2 Base materials



Concrete



Steel

## 2.3 Load conditions



Static/quasi-static



Fire

## 2.4 Environmental conditions



Dry indoor

## 3 APPROVALS AND REFERENCE DOCUMENTS

### 3.1 Reference documents

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

Application requirements (e.g. base material, spacing, edge distance, tool recommendation) are provided in the corresponding Product Data Sheets for fasteners:

- X-P B4 MX, X-P B3 MX, X-P G3 MX, X-P G2 MX, X-GHP MX Concrete nails (collated)
- X-C B4 MX, X-C B3 MX, X-C G3 MX, X-C G2 MX, X-GN MX Concrete nails (collated)
- X-S B4 MX, X-S B3 MX, X-S G3 MX, X-EGN MX Steel nails (collated)

## 4 PRODUCT DATA

### 4.1 Dimensions

Technical drawing	Fastener	Diameter d [mm]	Length l [mm]	Height h <sub>p</sub> [mm]	Height h <sub>a</sub> [mm]	Width w [mm]
	X-SC-FE 20 MX	20	50	50	8	26
	X-SC-FE 25 MX	25	62	62	8	26

### 4.2 Material properties for carbon parts

Fastener	Element	Material	Coating	Coating thickness t <sub>c</sub> [μm]
X-SC-FE MX	Conduit clip	Galvanized steel sheet	Zinc coated	≥ 5

## 5 SYSTEM RECOMMENDATION


### 5.1 Fastener recommendation

Elements	Fastener	Base material	Fastening method
X-SC-FE MX	X-P 17 B3 MX, X-P 20 B3 MX, X-P 24 B3 MX, X-P 17 B4 MX, X-P 20 B4 MX, X-P 24 B4 MX	Concrete	Recommended
	X-C 20 B3 MX, X-C 24 B3 MX, X-C 20 B4 MX, X-C 24 B4 MX	Concrete	Suitable
	HUS 6x35	Concrete	Suitable
	X-S 14 B3 MX, X-S 14 B4 MX	Steel	Recommended

## 6 APPLICATION REQUIREMENTS

### 6.1 Connected service properties


Elements	Service type	Service diameter d [mm]	Number of services n [-]
X-SC-FE 20 MX	Conduit	20	1
X-SC-FE 25 MX	Conduit	25	1

-  • Redundancy of fastening points is required.
- Minimum number of fastening points for safety relevant fastenings:  $\geq 5$ .

## 7 PERFORMANCE DATA


### 7.1 Recommended loads under static/quasi-static loading

Elements	Fastener	Tension load $N_{rec}$ [kN]	Shear load $V_{rec}$ [kN]
X-SC-FE MX	X-P 17 B3 MX, X-P 20 B3 MX, X-P 24 B3 MX, X-P 17 B4 MX, X-P 20 B4 MX, X-P 24 B4 MX	0.02	0.02
	X-C 20 B3 MX, X-C 24 B3 MX, X-C 20 B4 MX, X-C 24 B4 MX	0.02	0.02
	HUS 6x35	0.02	0.02
	X-S 14 B3 MX, X-S 14 B4 MX	0.02	0.02

-  • Redundancy of fastening points is required.
- Minimum number of fastening points for safety relevant fastenings:  $\geq 5$ .

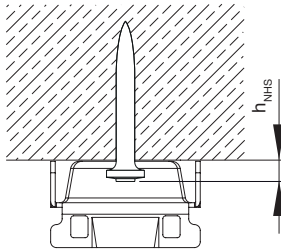
### 7.2 Recommended loads under static/quasi-static loading and fire rating

Elements	Fastener	Tension load $N_{rec}$ [kN]	Shear load $V_{rec}$ [kN]	Fire rating t [min]
X-SC-FE MX	X-P 17 B3 MX, X-P 20 B3 MX, X-P 24 B3 MX, X-P 17 B4 MX, X-P 20 B4 MX, X-P 24 B4 MX	0.02	0.02	30
	X-C 20 B3 MX, X-C 24 B3 MX, X-C 20 B4 MX, X-C 24 B4 MX	0.02	0.02	30
	HUS 6x35	0.02	0.02	30
	X-S 14 B3 MX, X-S 14 B4 MX	0.02	0.02	30

-  • Fire rating based on tests according to BS EN 1363-1.
- Utilization of suitable cable tie acc. to national standards.
- Redundancy of fastening points is required.
- Minimum number of fastening points for safety relevant fastenings:  $\geq 5$ .


## 8 QUALITY ASSURANCE

### 8.1 Fastening inspection



Ceiling

Elements	Fastener	Fastener stand-off $h_{NHS}$ [mm]
X-SC-FE MX	X-P 17 B3 MX, X-P 20 B3 MX, X-P 24 B3 MX, X-P 17 B4 MX, X-P 20 B4 MX, X-P 24 B4 MX	2-5
	X-C 20 B3 MX, X-C 24 B3 MX, X-C 20 B4 MX, X-C 24 B4 MX	5-11
	X-S 14 B3 MX, X-S 14 B4 MX	2-9

-  • Replace visible setting failures with a new fastener/element at a different location.
- These are abbreviated instructions which may vary by application.
- Always review/follow the instructions accompanying the product.

## 9 ORDERING INFORMATION

### 9.1 Item number and description

Designation	Item number	Description
X-SC-FE 20 MX	2444695	Distance saddle clip
X-SC-FE 25 MX	2444677	Distance saddle clip



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