

# X-ECH-FE MX, X-EKB-FE MX DATA SHEET

**Circuit integrity fastener** 



2-10 µm



#### X-ECH-FE MX, X-EKB-FE MX Circuit integrity fastener

## **Product data** General information **Dimensions**





X-ECH-FE 15 MX	Material specifications	
\$2 P	Galvanized steel sheet	≥5 µm zinc coating
	X-GHP	Carbon steel, HRC 57.5, zinc coating 2-10 µm
X-EKB-FE 8 MX	X-P G3 MX	Carbon steel, HRC 57.5, zinc coating
36.5	X-P B3 MX	2-10 μm Carbon steel, HRC 57.5, zinc coating



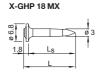


Recommended fastening tools
GX 120-ME, GX 3-ME, BX 3-ME

X-P 17 B3 MX

X-P 17 G3 MX

1.8



### Approval

AbP P-MPA-E-16-010 AbP P-2401/198/16-MPA BS AbP P-1023 DMT DO

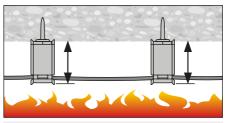
Expert review on MLAR application by MPA IBMB Braunschweig

Expert review on nail load in circuit integrity applications by MPA IBMB Braunschweig

#### **Applications**



Circuit integrity system (CIS) application with fire rating and load data according to AbP



Application to non-circuit integrity cables in escape routes (according to MLAR)

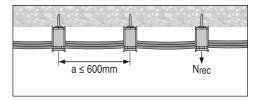


#### **Load Data**

#### Recommended loads (ceiling and wall application)

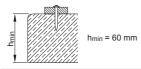
Application →	Escape routes (MLAR)		Circuit integrity system		
Fastener ↓	Load N <sub>rec</sub> [kN]	Fire Rating	Cable weight [kg/m]	Fire Rating	Spacing a [mm]
X-ECH-FE 30 MX	0.04*		According to AbP documents, fire rating (E30 - E90) and cable weights specific to combination of:  - Fastener element  - Cable type and size  - Ceiling or wall application		a ≤ 600 mm
X-ECH-FE 15 MX	0.02**				
X-EKB-FE 15 MX	0.02**	F90			
X-EKB-FE 8 MX	0.02**				

- \* 6.6 kg/m with spacing a = 600 mm
- \*\* 3.3 kg/m with spacing a = 600 mm
- Pre-loading of the elements with load ≥ N<sub>rec</sub> after setting
- All visible failures must be replaced (see "Fastening quality assurance")



#### Fastener selection and system recommendation

#### Thickness of base material



#### **Corrosion Information**

The intended use only comprises fastenings which are not directly exposed to external weather conditions or moist atmospheres.

#### **Application requirements**

#### **Fastener program**

Designation	Item no.
X-ECH-FE 30 MX	2142822
X-ECH-FE 15 MX	2142823
X-EKB-FE 15 MX	2142824
X-EKB-FE 8 MX	2142825



#### **Fastener program**

Base material	Nail designation	Shank length Ls [mm]	Nail length L [mm]	Tool
Concrete	X-GHP 18 MX	18	19.8	GX 120-ME
	X-P 17 G3 MX	17	18.8	GX 3-ME
	X-P 17 B3 MX	17	18.8	BX 3-ME

#### **System recommendation**

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 3-ME No gas can required

#### Fastening quality assurance

