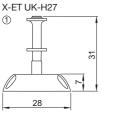
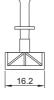
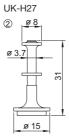
# X-ET for Fastening Plastic Electrical Cable Trays and Junction Boxes

# Product data

### Dimensions







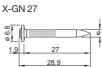
X-ET MX ③



X-ET

w x l x h = 16.5 x 16.5 x 12 mm











# **General information**

Material speci	fications	
X-ET		Polyethylene
X-ET MX		Polyamide (halogen and silicon free), light grey RAL 7035 and PBT (silicon-free, flame retardant), stone grey RAL 7030
Nails:		
Carbon steel	HRC 58	X-GHP 20, X-EGN 14
	HRC 53.5	X-GN 27
	HRC 58	X-U 16 / 22/ 27
Zink-coating	2–8 μm	X-GHP 20, X-EGN 14, X-GN 27
	5–13 µm	X-U

# Fastening tools

DX 460-MX, DX 351-MX, GX 120-ME, GX 100-E

See fastener selection for more details.



# Applications

Examples





Cable trunking



Junction boxes



Conduits & pipes with metal or textile band

### Load data

# Design data

Recommended load

Fastener			Service load ') [kN]
X-ET			0.1
	 	 	· · · · · · · · · · · · · · · · · · ·

<sup>1</sup>) The recommended service load is controlled by serviceability of the plastic part.

# Test data (Examples)

Important note: test data are for information only.

### Load capacity of the nails:

The nail resistance is not controlling the failure of the fastener.

### Fastenings to concrete

Nail	Average tensile failure load <b>N<sub>u,m</sub> [kN]</b>	Scatter	Embedment depth <b>h<sub>ET</sub> [</b> mm]	Concrete strength f <sub>cc</sub> [N/mm²]
X-GHP 20 MX	1.61	52.0	14.0	52.2
X-GN 27 MX	1.91	47.1	19.2	23.7
X-U 22 MX	3.18	37.8	20.1	54.7
X-U 27 MX	4.04	35.4	24.5	30.9



# Application requirements Thickness of base material Concrete Steel X-U: hmin = 80 mm X-GHP, X-GN: hmin = 60 mm

# **Corrosion information**

These zinc-coated fasteners are not suitable for long-term service outdoors or in otherwise corrosive environments.

For further detailed information on corrosion see relevant chapter in **Direct Fastening Principles and Technique** section.

# Fastener selection and system recommendation

	Fastener			Tools			
No.	Techno- logy	Base material	Fastener	Designation	Shank Ø ds [mm]	Shank length Ls [mm]	
1	DX	Concrete /steel	X-ET	X-ET UK-H27	3.7	27	DX 460-F8
3	DX	Concrete /stee	X-ET MX	X-U 22/27 MX	4.0	22/27	DX 460-MX, DX 351-MX
3	DX	Steel	X-ET MX	X-U 16 MX	4.0	16	DX 460-MX, DX 351-MX
3	GAS	Concrete	X-ET MX	X-GHP 20	3.0	20	GX 120-ME
3	GAS	Concrete	X-ET MX	X-GN 27	3.0	27	GX 120-ME
3	GAS	Steel	X-ET MX	X-EGN 14	3.0	14	GX 120-ME
3	GAS	Sandlime masonry	X-ET MX	All GX nails	3.0	see above	GX 120-ME

# **Fastener program**

X-ET

Fastener	Item no.	Designation
X-ET	251705	X-ET UK-H27
	285718	X-ET MX
DX Nails	237344	X-U 16 MX
	237346	X-U 22 MX
	237347	X-U 27 MX
GX nails	338872	X-EGN 14 MX
	285890	X-GHP 20 MX
	340229	X-GN 27 MX

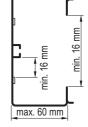
Conditions for use:

- No fastenings on ribs
- Underside of trunking must be smooth
- X-ET MX only in predrilled holes



Trunking dimensions:





# 

X-ET

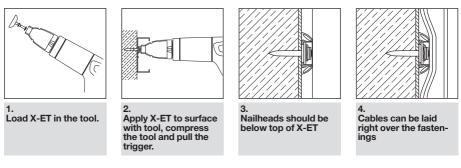
### System recommendation

DX tools:	Steel:	6.8/11M yellow or red cartridge
	Concrete:	6.8/11M yellow cartridge on green/fresh and standard concrete
		6.8/11M red cartridge on precast, old and hard concrete
	Masonry:	6.8/11M green cartridge
GX 120-ME tool:		Gas can GC 21 (GC 22 in USA)
GX 100-E tool	:	Gas can GC 11 (GC 12 in USA)

Tool energy adjustment by setting tests on site.

### Fastening quality assurance

### Installation



Spacing:

- 50–100 cm along the trunking
- Adjust spacing as needed to achieve stability of trunking

