Electrical Hanger Systems X-EHSMX and X-ECC MX

Product data

Dimensions







X-GHP 20/24 L



General information

Material specifications

X-EHS MX / X-ECC MX:

Zinc coating: ≥ 2.5 µm

Recommended fastening tools

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

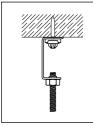
See X-EHS MX and X-ECC MX fastener program in the next pages and Tools and equipment chapter for more details.

Applications

Example

X-U 16/22

2.4



Hanger systems for light cable trays, etc.

- Threaded rod attachments
- · Wire attachments

These fasteners are not recommended for fastening of suspended ceilings.

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



Load data

Recommended loads on concrete

| Fastener designation | $ \mathbf{N}_{rec} = \mathbf{V}_{rec} [kN]$ |
|----------------------|--|
| X-EHS MX | 0.1 |
| X-ECC MX | 0.05 (N _{rec} *) |
| | 0.1 (V _{rec}) |

^{*)} eccentric loading considered

Conditions:

- Fastened with X-GHP 20/24 or X-U 22
- Minimum 5 fastenings per fastened unit (normal weight concrete).
- All visible failures must be replaced.
- With lightweight concrete base material and appropriate washers, greater loading may be possible, please contact Hilti.
- · Predominantly static loading.
- Observance of all application limitations and recommendations.

Recommended loads on steel

| Fastener designation | N _{rec} = V _{rec} [kN] |
|----------------------|--|
| X-EHS MX, X-ECC MX | 0.45 |

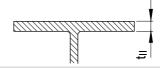
Fastened with X-FGN 14 or X-U 16

Application requirements

Thickness of base material

| Concrete | | Steel |
|----------|--------------------------|----------|
| X-U: | h _{min} = 80 mm | tu≥ 4 mm |

X-U: $h_{min} = 80 \text{ mm}$ $t_{||} \ge 4 \text{ mm}$ X-GHP: $h_{min} = 60 \text{ mm}$



Spacing and edge distances

Spacing and edge distances depending on job site requirements.

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.

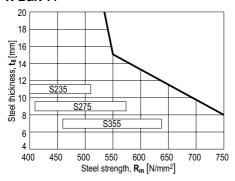
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Application limits

Fastening to steel

X-EGN 14



Fastener program

Fastener selection

| | Nail | | | |
|---------------|-------------|-----------------------------|-------------------------------------|-------|
| Base material | Designation | Shank Ø d _s [mm] | Shank length L _s [mm] | L [mm |
| Concrete | X-GHP 20 MX | 3.0 | 20 | 21.8 |
| | X-GHP 24 MX | 3,0 | 24 | 25,8 |
| | X-U 22 MX | 4.0 | 22 | 24.4 |
| Steel | X-EGN 14 MX | 3.0 | 14 | 15.8 |
| | X-U 16 MX | 4.0 | 16 | 18.4 |

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| Fastener selection: Order information | | | | |
|---------------------------------------|--------------|----------|--|--|
| Fastener | Designation | Item no. | | |
| Threaded Rod Hanger | X-EHS M4 MX | 273367 | | |
| | X-EHS M6 MX | 272073 | | |
| | X-EHS W6 MX | 228341 | | |
| | X-EHS M8 MX | 273368 | | |
| | X-EHS W10 MX | 386468 | | |
| Ceiling clip | X-ECC MX | 228342 | | |
| GX nails | X-EGN 14 MX | 338872 | | |
| | X-GHP 20 MX | 285890 | | |
| | X-GHP 24 MX | 438945 | | |
| DX Nails | X-U 16 MX | 237344 | | |
| | X-U 22 MX | 237346 | | |

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 yellow or red cartridge on precast, old and hard concrete

GX 120-ME tool: gas can GC 20, GC21 and GC22

GX 100-E tool: gas can GC 11 (GC 12 in USA)

Tool energy adjustment by setting tests on site.

Fastening quality assurance

X-EHS MX



 $h_{NVS} = 4-8 \text{ mm}$

X-ECC MX



 $h_{NVS} = 4-8 \text{ mm}$

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