

# X-DHS MX DATA SHEET

Pipe support system



December 2017



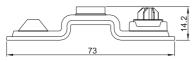


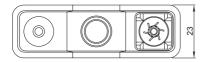
# X-DHS MX Pipe support system

#### **Product data**

#### Dimensions

X-DHS 3/8" MX





## Features and benefits

- Securely fastened threaded rod hangers to steel and concrete (soft and tough) base material
- Easy installation of threaded rods on floors, walls and ceiling

General informationMaterial specificationX-DHS:Zinc coating10-20 µm

# Applications

#### Example





Hanger system for:

- Light-duty fastenings of pipes on ceilings
- Supporting pipes on floors
- Positioning of vertical pipes on walls

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 (Base material = concrete)

Number of X-DHS MX elem	nents per pipe	N <sub>rec</sub> [kN] per X-DHS MX	
≥ 5	<b>**</b> ***	0.2	
1 to 4 with fixed end supports	<b>**</b>	0.2	

#### Design conditions:

- · Each X-DHS MX element has to be fastened with 2 nails
- All visible failures must be replaced.
- Predominantly static loading.
- Valid for soft and tough concrete with strength of f<sub>C, Cube</sub> = 25-60 N/mm<sup>2</sup>. For more details regarding concrete types, please refer to Concrete Fastener Selection section in Hilti Direct Fastening Technology Manual (DFTM).
- Observance of all application limitations and recommendations.
- For wall application (i.e. vertical pipes on walls), X-DHS MX is used for positioning purpose only, with NO imposed loading.
- Maximum spacing = 100 cm

#### Recommended loads (Base material = steel)

Fastener	N <sub>rec</sub> [kN]
Recommended load per X-DHS MX element (fastened with 2 Nails)	0.8



#### **Nail recommendations**

For <u>concrete</u> base material							
Fastening tool	Nail types	Length [mm]	Tip	Shank Ø [mm]	Material	Hardness [HRC]	Coating [µm]
BX3	X-P B3 MX	24	Balistic	3.0	Carbon steel	57.5	Zinc, 2-13 µm
GX3	X-P G3 MX					57.5	Zinc, 2-13 µm
GX120	X-GHP MX					57.5	Zinc, 2-13 µm

• For X-DHS MX element, only 24 mm length nails are recommended for concrete base material to ensure sufficient embedment depth.

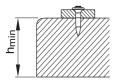
 Premium nails (as listed above) are the only recommended nails based on intended use of X-DHS element (soft and some tough concrete, GX/BX tools). For more details regarding nail classification and concrete types, please refer to Concrete Fastener Selection section in Hilti Direct Fastening Technology Manual (DFTM).

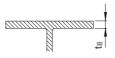
For steel base material							
Fastening tool	Nail types	Length [mm]	Tip	Shank Ø [mm]	Material	Hardness [HRC]	Coating [µm]
BX3	X-P B3 MX	17	Balistic		Carbon steel	57.5	Zinc, 2-13 µm
GX3	X-P G3 MX	17		3.0		57.5	Zinc, 2-13 µm
GX120	X-GHP MX	18				57.5	Zinc, 2-13 µm

 For X-DHS MX element, only 17-18 mm length nails are recommended for steel base material to ensure sufficient embedment depth.

### **Application requirements**

#### Thickness of base material





Steel

Concrete

X-GHP MX, X-P G3 MX, X-P B3 MX



X-GHP MX, X-P G3 MX, X-P B3 MX

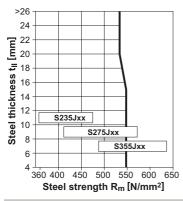
t<sub>II</sub> ≥ 4.0 mm





#### **Application limits**

# X-P 17 G3 MX, X-P 17 B3 MX, X-GHP 18 MX



#### **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 program

Designation	Item no.
X-DHS 3/8" MX	2161569

# 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

