



X-S B4 MX,
X-S B3 MX,
X-S G3 MX,
X-EGN MX
STEEL NAILS
(COLLATED)

Data Sheet

06.2024







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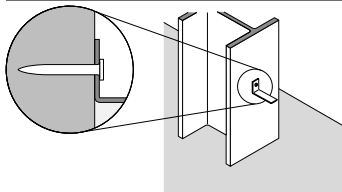
1 PRODUCT INFORMATION

1.1 Product description

Designation	Features
X-S B4 MX	
	
X-S B3 MX	<ul style="list-style-type: none"> • Ultimate-performance nail for steel • Long, conical tip and high hardness – for excellent fastening quality
	
X-S G3 MX	
	
X-EGN MX	
	

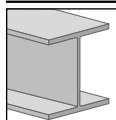
2 APPLICATION CONDITIONS

2.1 Application examples



Steel to steel

2.2 Base materials



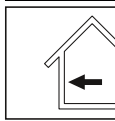
Steel

2.3 Load conditions



Static / quasi-static

2.4 Environmental conditions



Dry indoor



• For more details, please refer to the [Hilti Corrosion Handbook](#)

3 PRODUCT DATA

3.1 Dimensions

Technical drawing	Fastener	Head length	Shank length	Shank diameter	Head diameter
		L_h [mm]	L_s [mm]	d_s [mm]	d_h [mm]
	X-S 14 B4 MX	1.8	14	3	6.8
	X-S 14 B3 MX	1.8	14	3	6.8
	X-S 14 G3 MX	1.8	14	3	6.8
	X-EGN 14 MX	1.8	14	3	6.8

3.2 Material properties for carbon steel parts

Fastener	Component part	Material	Coating	Coating thickness	Hardness	Corrosivity category
				t_c [μm]	[HRC]	
X-S B4 MX	Nail	Carbon steel	Zinc coated	≥2	57.5	C1
X-S B3 MX	Nail	Carbon steel	Zinc coated	≥2	57.5	C1
X-S G3 MX	Nail	Carbon steel	Zinc coated	≥2	57.5	C1
X-EGN MX	Nail	Carbon steel	Zinc coated	≥2	57.5	C1



• Corrosivity category according to ISO 9223

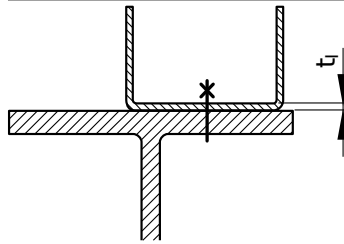
4 SYSTEM RECOMMENDATION

4.1 Tool recommendation

Fastening condition	Fastener	Tool type
Steel to steel	X-S 14 B4 MX	BX 4-22 (01)
	X-S 14 B3 MX	BX 3-ME, BX 3-IF, BX 3-ME (02), BX 3 (02), BX 3-L (02), BX 3-ME-22, BX 3-L-22, BX 3-22
	X-S 14 G3 MX	GX 3-ME, GX 3
	X-EGN 14 MX	GX 120-ME, GX 120

5 APPLICATION REQUIREMENTS

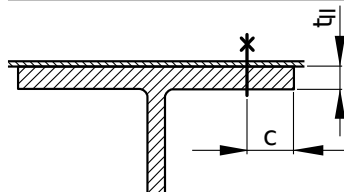
5.1 Fastened material properties



Steel to steel

Fastening condition	Fastened material	Fastened material thickness t_1 [mm]
Steel to steel	Steel	≤ 2

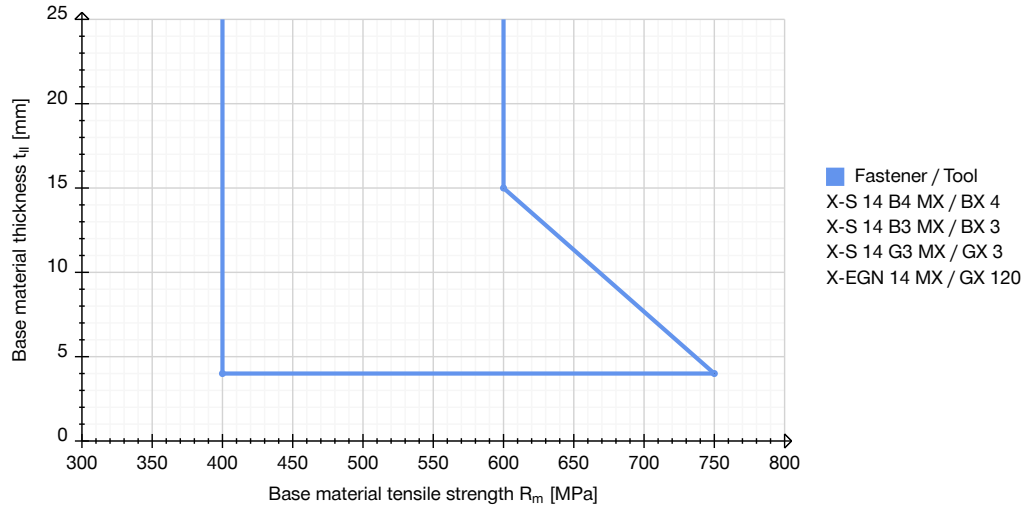
5.2 Base material properties



Fastening to steel

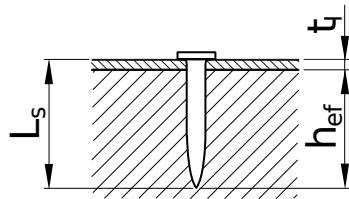
Base material	Base material thickness t_{II} [mm]	Edge distance c [mm]
Steel	≥ 4	≥ 15

5.3 Application range in steel



• The area inside the polygon represents the applicable range of base materials.

5.4 Nail length recommendation



Steel to steel

Fastening condition	Fastening characteristics	Shank Length	Embedment depth	Fastened material thickness
		L_s [mm]	h_{ef} [mm]	t_1 [mm]
Steel to steel	Standard fastening	$L_s \geq h_{ef} + t_1$	≥ 12	0.2-2

6 PERFORMANCE DATA

6.1 Recommended loads under quasi static/static loading

Fastening condition	Base material type	Embedment depth	Tension load	Shear load
		h_{ef} [mm]	N_{rec} [kN]	V_{rec} [kN]
Steel to steel	Steel	≥ 12	0.4	0.4



- Redundancy of fastening points is required.
- Minimum number of fastening points for safety relevant fastenings: ≥ 5 .

7 QUALITY ASSURANCE

7.1 Fastening inspection

Technical drawing	Fastener	Fastener standoff h_{NHS} [mm]
	X-S 14 B4 MX, X-S 14 B3 MX, X-S 14 G3 MX, X-EGN 14 MX	2-9



- Visible setting failures must be replaced with a new fastener, not in the same hole.
- These are abbreviated instructions which may vary by application.
- Always review/follow the instructions accompanying the product.

8 ORDERING INFORMATION

8.1 Item number and description

Designation	Item number	Description
X-EGN 14 MX	2063789, 2330349, 340231	X-EGN MX Steel nails (collated)
X-S 14 B3 MX	2156392, 2156393, 2314524, 2314525	X-S B3 MX Steel nails (collated)
X-S 14 B4 MX	2361536, 2361650, 2361654, 2412772, 2412773, 2412774	X-S B4 MX Steel nails (collated)
X-S 14 G3 MX	2101547, 2110989, 2330348	X-S G3 MX Collated nails



Hilti Aktiengesellschaft
9494 Schaan, Liechtenstein
P +423-234 2965

www.facebook.com/hiltigroup
www.hilti.group