HRC 58

X-EGN, X-GHP, X-GN: GX Fasteners

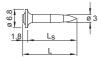
Product data

Dimensions

X-EGN 14



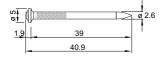
X-GHP 16/18/20/24



X-GN 20/27/32



X-GN 39



General information

Material specifications Carbon steel shank:

Zinc coating:

X-GHP HRC 58 **X-GN** HRC 53.5 2–13 μm

X-EGN

Recommended fastening tools

GX 120, GX 120-ME

GX 100, GX 100 E

See X-EGN, X-GHP, X-GN fastener program in the next pages and Tools and equipment chapter for more details.

Approvals

ICC-ESR 1752 (USA):

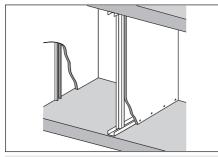
X-GN 20/27/32, X-EGN 14, X-GHP 16/18/20/24 X-GHP, X-GN

IBMB

Note: technical data presented in these approvals and design guidelines reflect specific local conditions and may differ from those published in this handbook.

Applications

Examples



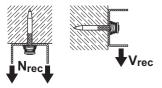
Drywall tracks to concrete and steel



Electrical applications

Load data

Recommended loads



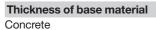
V _{rec} [kN]	h _{ET} [mm]
0.4	≥ 27
0.3	≥ 22
0.2	≥ 18
0.1	≥ 14
	0.4 0.3 0.2

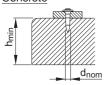
Design conditions:

- Minimum 5 fastenings per fastened unit
- All visible failures must be replaced

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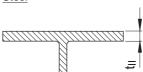
Application requirements





h_{min} = 60 mm (d_{nom} = 3.0 mm)







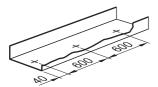
Thickness of fastened material

Wooden track:	t l ≤ 24 mm
Metal track:	t l ≤ 2 mm



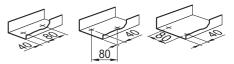
Spacing and edge distances (mm)

Spacing along track (as per U.S. Gypsum Handbook)



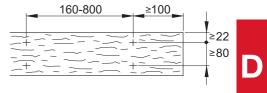
Distance to edge of concrete /

All track ends (cut-outs for doors), secure with 2 nails



Fastener spacings on wood:



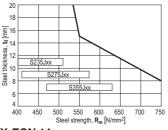


Corrosion information

The intended use only comprises fastenings which are not directly exposed to external weather conditions or moist atmospheres. For further detailed information on corrosion see relevant chapter in **Direct Fastening Principles and Technique** section.

Application limits





X-EGN 14

Fastener selection and system recommendation

Fastener selection

Fastening to concrete / sandlime masonry

	Application	Base material	
X-GN 39 MX	Wooden track (t _l ≤ 24 mm)	Concrete/sandlime masonry	
X-GN 27MX	Metal track	Concrete/sandlime masonry	cre
X-GN 20 MX	Metal track	Concrete/sandlime masonry	increasing strength
X-GHP_MX	Metal track	Concrete/sandlime masonry	Dir v

Fastening to steel

	Application	Base material	
X-EGN 14	Metal track	Steel	

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Fastener program

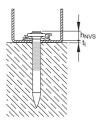
	Item no.	L _s [mm]	L [mm]	d _{nom} [mm]
X-EGN 14 MX	340231	14	15.8	3.0
X-GHP 16 MX	2071471	16	17.8	3.0
X-GHP 18 MX	340228	18	19.8	3.0
X-GHP 20 MX	285724	20	21.8	3.0
X-GHP 24 MX	438945	24	25.8	3.0
X-GN 20 MX	340232	19	20.9	3.0
X-GN 27 MX	340230	27	28.9	3.0
X-GN 32 MX	340233	32	33.9	3.0
X-GN 39 MX	340234	39	40.9	2.6
Tool and gas can				
Designation				
GX 120 / GX 120 ME with gas can GC 20, GC 21 and GC 22		, GC 21 and GC 22		
GX 100 / GX 100	E	with gas can GC 11 and GC 12 (for USA)		



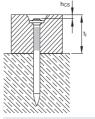
Fastening quality assurance

Fastening inspection

Fastening to concrete / sandlime masonry

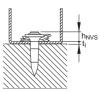


X-GN/GHP: h_{NVS} = 2-5 mm



X-GN 39: h_{CS} = 2-3 mm

Fastening to steel



X-EGN 14: h_{NVS} = 4-7 mm

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