



GX2 DATA SHEET

**System Fastener for interior finishing
application**

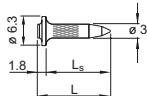


GX 2 System Fastener for interior finishing application

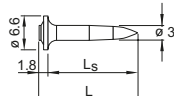
Product data

Dimensions

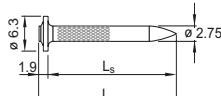
X-P 14 G2 MX



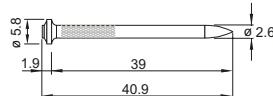
X-P 17 / 20 G2 MX



X-C 20 / 27 / 32 G2 MX



X-C 39 G2 MX



Material specifications

Carbon steel shank:

X-P G2

HRC 57.5

X-C G2

HRC 56.5

Zinc coating:

(X-P 14 G2 MX)

2-13 μm

up to 16 μm

Recommended fastening tool

GX 2



Approvals and certificates

ICC ESR-1752 (USA):

X-C 20 / 27 / 32 G2, X-P 14 / 17 / 20 G2



- Not all information presented in this product data sheet might be subject to approval/certificate content. Please refer to approval/certificate for further information.

Applications

Examples



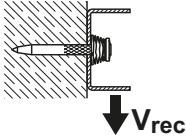
Drywall tracks



Light-duty applications in construction

Performance data

Recommended resistance under tension and shear load for drywall track fastening



X-P 14 G2 MX (Base material: steel)

Tension N_{rec}	Shear V_{rec}
0.4 kN	0.4 kN

X-P G2, X-C G2 (Base material: concrete / sand-lime masonry)

Embedment	Tension N_{rec}		Shear V_{rec}		Tension N_{rec}	Shear V_{rec}
	Concrete Type				Sand-lime masonry	
	Soft/ medium	Tough	Soft/ medium	Tough		
≥ 22 mm	-	-	-	-	0.3 kN	0.3 kN
≥ 18 mm	0.2 kN	-	0.2 kN	-	0.2 kN	0.2 kN
≥ 14 mm	0.1 kN	0.1 kN	0.1 kN	0.1 kN	0.1 kN	0.1 kN

Conditions

- For safety relevant fastenings sufficient redundancy of the entire system is required; Minimum of 5 nails per fastened track. All visible setting failures must be replaced
- Sheet metal failure is not considered in recommended loads and must be assessed separately
- Soft, medium concrete up to $f_{c,cube} = 45 \text{ N/mm}^2$ (C35/45), some tough concrete up to $f_{c,cube} = 60 \text{ N/mm}^2$ (C50/60).
- Concrete with aggregate like granite or river rock or softer, and up to 16 mm diameter

Stick rate estimation



Designation	Soft/medium concrete	Tough concrete
X-P G2	85–98%	70–85%
X-C G2	75–90%	55–70%

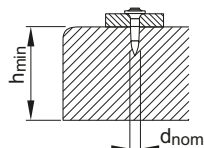


- The stick rate indicates the percentage of nails that were driven correctly to carry a load.
- Stick rate can vary from the above values depending on job site conditions.

Application recommendation

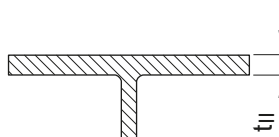
Thickness of base material

Concrete



$h_{\min} = 60 \text{ mm}$
 $(d_{\text{nom}} \leq 3.0 \text{ mm})$

Steel



$t_{II} \geq 4.0 \text{ mm}$ (for nail)

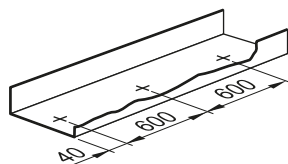
Thickness of fastened material

Wooden track: $t_I \leq 25 \text{ mm}$

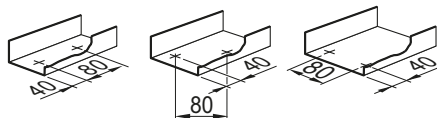
Metal track: $t_I \leq 2 \text{ mm}$

Spacing and edge distances (mm)

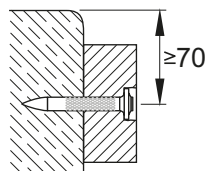
Spacing along track



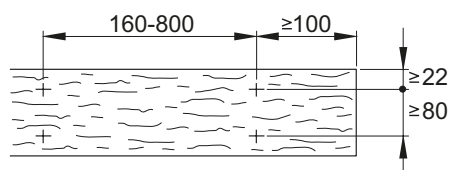
All track ends (cut-outs for doors),
 secure with 2 nails



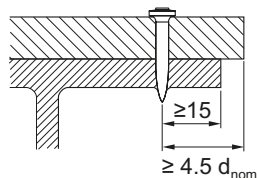
Edge distance for concrete/sand-lime masonry



Fastener spacing on wood

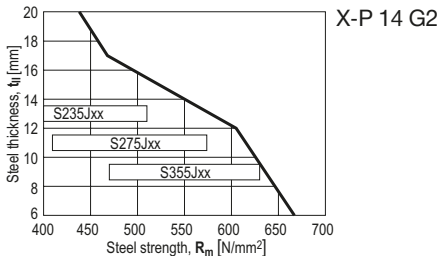


Edge distance for steel



Application limits

Steel



Corrosion information



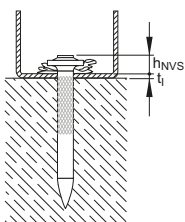
- The intended use only comprises fastenings which are not directly exposed to external weather conditions or moist atmospheres.
- For more details, please refer to following technical document: Hilti Corrosion Handbook.

Fastener selection

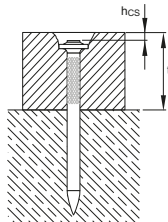
		Brick	Concrete Wall / Floor Ceiling	Steel
	+	X-C 27 G2 MX X-C 20 G2 MX	X-C 20 G2 MX X-P 17 G2 MX	X-P 14 G2 MX
	+	X-C 39 G2 MX X-C 32 G2 MX		
Gas can		GC 52 - For all base materials		

Quality assurance

Nails in concrete / sand-lime masonry

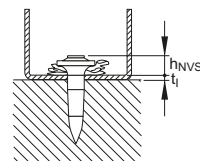


X-C / X-P G2 MX:
 $h_{NVS} = 2-5 \text{ mm}$



X-C 39 G2 MX and
X-C 32 G2 MX:
 $h_{cs} = 2-3 \text{ mm}$

Nails in steel



X-P 14 G2 MX:
 $h_{NVS} = 2-9 \text{ mm}$