



Hilti X-S, X-P, X-C B4 MX Concrete Nails with BX 4

Submission Folder

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Battery-actuated fastening tool BX 4-22 01 M30L IF



APPLICATIONS

- Fastening drywall track to concrete and steel (max. nail length 45 mm)
- Fastening wall ties/brick ties to concrete, solid masonry or steel
- Fastening membranes, mesh and sheeting to concrete
- Fastening cables and conduits to concrete and steel (optional ME nailer nose recommended)
- Fastening drywall track to concrete and steel (max. nail length 1-3/4")

ADVANTAGES

- Developed for plasterboard contractors – battery-powered, our next generation nailer helps you lay track without the noise, recoil, maintenance, costs and user certifications of gas-actuated fastening
- Uncompromised cordless performance – drive up to 1000 nails per hour thanks to revolutionary Nuron batteries and the more efficient brushless motor
- Smart features – nail refill indicator, automatic tool priming upon pick-up and active troubleshooting via the ON!Track app help reduce downtime on site
- Engineered for better handling – balanced grip, short stroke and LED light help you work more comfortably when driving hundreds of nails per day
- More adaptable fastening – angled magazines for improved accessibility and detachable magazines in different sizes for increased application range

Technical data	
Power (max.)	95 J
Weight	3.38 kg
Automatic piston return	Yes
Emission noise-pressure level at the work station: LpA, 1s ¹⁾	84 dB (A)
Dimensions (LxWxH)	475 x 149 x 387 mm
Max. fastener driving rate	1000
Weight according to EPTA Procedure 01/2003	4 kg
Fastener intake	Nails on strip
Fastener length range	14 - 45 mm



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Watch Video



Ordering designation	Package contents	Sales pack quantity	Item number
BX 4-22 01 M30L IF	1x Battery-actuated tool BX 4-22, 1x Fastener guide X-FG B4-IF, 1x Nail magazine X-M30L B4 assy, 1x case	1 pc	2374486

Please visit Hilti website for the latest item numbers and related products

Battery and charger info

Ordering designation		Sales pack quantity	Item number
Battery charger C 4-22 110V		1 pc	2372874
Battery charger C 4-22 230V		1 pc	2372873
B 22-55 Nuron battery		1 pc	2251347
B 22-85 Nuron battery		1 pc	2251351

Please visit Hilti website for the latest item numbers and related products









Nail for BX 4-22



Ordering designation	Fastener shank length	Fastener shank diameter	Sales pack quantity	Item number
X-S 14 B4 MX bulk	14 mm	3 mm	1000 pc	2412773
X-P 17 B4 MX Bulk	17 mm	3 mm	1000 pc	2412762
X-P 20 B4 MX Bulk	20 mm	3 mm	1000 pc	2412765
X-P 24 B4 MX Bulk	24 mm	3 mm	1000 pc	2412768
X-C 20 B4 MX Bulk	20 mm	3 mm	1000 pc	2412652
X-C 27 B4 MX Bulk	27 mm	3 mm	1000 pc	2412654
X-C 32 B4 MX Bulk	32 mm	3 mm	1000 pc	2412656
X-C 39 B4 MX Bulk	39 mm	3 mm	1000 pc	2412658
X-C 45 B4 MX Bulk	45 mm	3 mm	1000 pc	2412660

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.
Please visit Hilti website for the latest item numbers and related products

Accessories for BX 4-22 (01) IF

Ordering designation		Sales pack quantity	Item number
Fastener guide X-FG B4-IF 01 packed		1 pc	2374499
Fastener guide X-FG B4-ME 01 packed		1 pc	2374500
Washer R23-0.6 Eco		1000 pcs	407950
Washer holder X-WH B4 01		1 pc	2374501
Nail magazine X-M30 B4 packed		1 pc	2431817
Nail magazine X-M30L B4 packed		1 pc	2431981
Nail magazine X-M30XL B4 packed		1 pc	2431818
Nail magazine X-M40 B4 packed		1 pc	2431819

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Fasteners for Electrical and Mechanical Applications

Cable tie holders X-ECT MX



Order Now



Ordering designation	Max wide	Sales pack quantity	Item number
X-ECT MX	9 mm	100 pc	285709 ¹⁾
X-ECT UV MX	9 mm	100 pc	285710 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Cable clasps X-EKB MX



Order Now



Ordering designation	Cable capacity (8mm cable)	Sales pack quantity	Item number
X-EKB 4 MX	4	100 pc	285712 ¹⁾
X-EKB 8 MX	8	100 pc	285713 ¹⁾
X-EKB 16 MX	16	25 pc	285714 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Bunched-Cable holders X-ECH MX



Order Now



Ordering designation	Cable capacity (8mm cable)	Sales pack quantity	Item number
X-ECH 15/B MX kit	15	100 pc	2018729 ¹⁾
X-ECH 30/B MX kit	30	50 pc	2018891 ¹⁾
Base X-ECH-B MX	-	50 pc	2018391 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Cable trunking fastener X-ET MX



Order Now



Ordering designation	Sales pack quantity	Item number
X-ET MX	250 pc	285718

Please visit Hilti website for the latest item numbers and related products

Conduit clamps X-EKS MX



Order Now



Order designation	Cable conduit diameter	Sales pack quantity	Item number
X-EKS 16 MX	16 mm	100 pc	285719 ¹⁾
X-EKS 20 MX	20 mm	100 pc	285720
X-EKS 25 MX	25 mm	100 pc	285721
X-EKS 32 MX	32 mm	100 pc	285722 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Snap-lock conduit clamps X-EKSC MX



Order Now



Order designation	Cable conduit diameter	Sales pack quantity	Item number
X-EKSC 20 MX	20 mm	100 pc	274086 ¹⁾
X-EKSC 25 MX	20 mm	100 pc	274087 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Metal conduit clamps X-EMTSC MX



Order Now



Order designation	Sales pack quantity	Item number
X-EMTSC 1/2" MX	100 pc	228338 ¹⁾
X-EMTSC 3/4" MX	100 pc	228339 ¹⁾
X-EMTSC 1" MX	100 pc	228340 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Metal conduit clip X-FB MX



Order Now



Order designation	Cable conduit diameter	Sales pack quantity	Item number
X-FB 16 MX	16 mm	200 pc	286799 ¹⁾
X-FB 20 MX	20 mm	200 pc	286800
X-FB 25 MX	25 mm	200 pc	286802
X-FB 32 MX	32 mm	100 pc	286804 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Butterfly metal conduit clip X-DFB MX



Order designation	Cable conduit diameter	Sales pack quantity	Item number
X-DFB 20 MX	20 mm	100 pc	273384 ¹⁾
X-DFB 25 MX	20 mm	100 pc	273386 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

Threaded rod hanger X-EHS M MX



Order designation	Sales pack quantity	Item number
X-EHS M8 MX	100 pc	273368 ¹⁾

¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

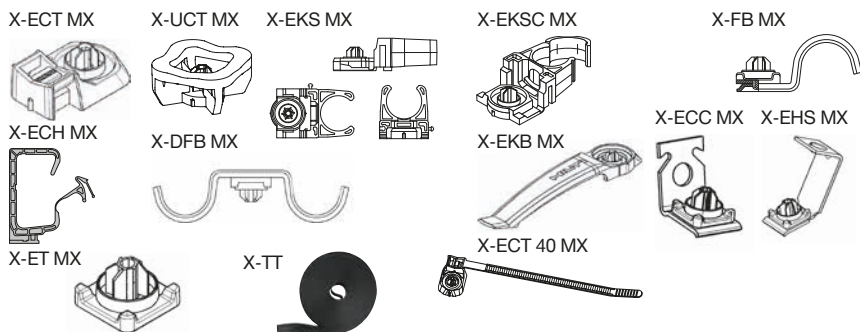
Ceiling clip X-ECC MX



Order designation	Sales pack quantity	Item number
X-ECC MX	100 pc	228342

Please visit Hilti website for the latest item numbers and related products

Electrical elements to be used with nails - examples



General information

Material specifications

X-ECT MX, X-EKS, X-EKSC MX, ECH MX

X-EKB MX

X-ECT-FR MX

X-EKB-FR MX

X-UCT MX, X-ET MX

X-TT

X-FB MX, X-DFB MX

X-ECC MX, X-EHS MX

PA, halogen free, silicone free, light grey RAL 7035

PA, halogen free, light grey RAL 7035

PBT, silicone free, flame retardant, stone grey RAL 7030

PBT, silicone free, flame retardant, stone grey RAL 7030

HDPE, halogen free, silicone free, light grey RAL 7035

PET

Galvanized steel sheet, $f_u = 270-420 \text{ N/mm}^2$, 10-20 μm zinc coating

Galvanized steel sheet, $f_u = 270-420 \text{ N/mm}^2$, 10-20 μm zinc coating

Approvals

ICC-ESR 1752 (USA)

ETA-16/0301

X-P 20 B3 MX, X-P 24 B3 MX, various electrical elements (see ETA approval Annex A1)

Applications

With nails



Drywall tracks to concrete and steel



Fastening wood, e.g. Placopan®, to concrete



Junction boxes, switch boxes, etc

With nails and elements



Flexible or rigid cable conduits with cable ties



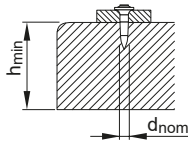
Fastening cables



Cable conduits or light-duty pipes

Application requirements

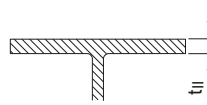
Thickness of base material



Concrete (for nails and threaded studs)

$$h_{\min} = 60 \text{ mm}$$

$$d_{\text{nom}} = 3.0 \text{ mm}$$

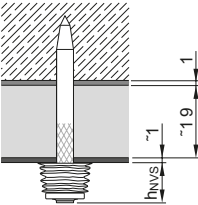


Steel

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

$$t_{II} \geq 6.0 \text{ mm (for threaded studs)}$$

Thickness of fastened material



Wooden track:

$$t_1 \leq 27 \text{ mm (conditions: head of the nail is countersunk flat to the surface)}$$

Metal track:

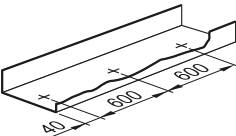
$$t_1 \leq 2 \text{ mm}$$

Deflection head:

$$t_{l.\text{tot.}} \leq 21 \text{ mm (gypsum strip + metal track and sealant)}$$

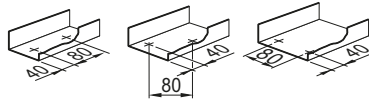
Spacing and edge distances (mm)

Max. spacing along track

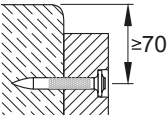


Fastener spacing max. 30 cm for proprietary light non-load-bearing partition walls with fire classification

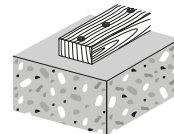
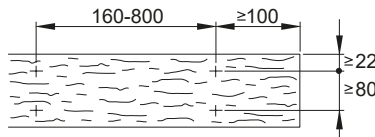
All track ends (cut-outs for doors), secure with 2 nails



Distance to edge of concrete / sand-lime masonry

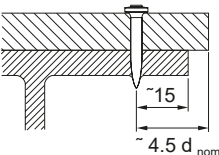


Spacing between nails when fastening wood to concrete



Based on common practice, spacing needs to be adjusted based on specific load requirement and achieved embedment depth.

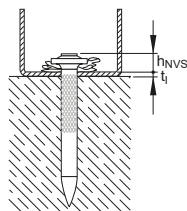
Distance to edge of fastened material (steel base material)



Fastening quality assurance

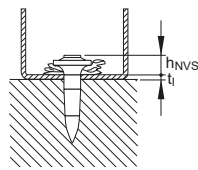
Fastening inspection

Nails and studs in concrete / sand-lime masonry



X-P_B4: $h_{NVS} = 2-5 \text{ mm}$

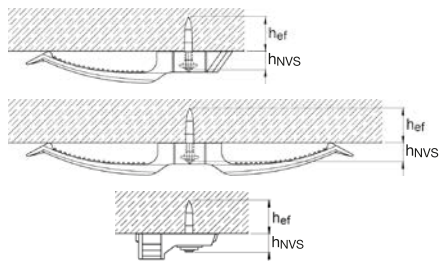
Nails and studs in steel



X-S_B4: $h_{NVS} = 2-9 \text{ mm}$

Element	$h_{NVS} \text{ (mm)}$	
	Concrete	Steel
X-EKB 4/8 MX	6-11	6-9
X-EKB 16 MX	6-11	6-9
X-ECT MX	6-11	6-9
X-UCT MX	6-11	6-9
X-ECH MX	6-11	6-9
X-EKS MX	6-11	6-9
X-EKSC MX	6-11	6-9
X-FB MX	7-11	7-9
X-DFB MX	7-11	7-9
X-ECC MX	7-11	7-9
X-EHS MX	7-11	7-9
X-ET MX*	5-10	5-9

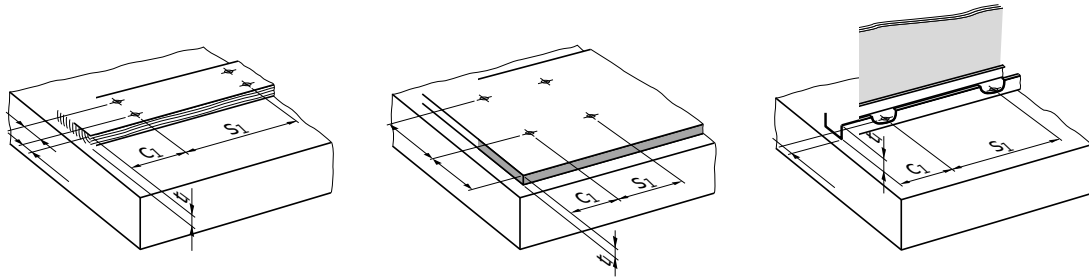
Examples



*) With X-ET MX, the h_{NVS} is measured against the cable trunk.

6 APPLICATION REQUIREMENTS

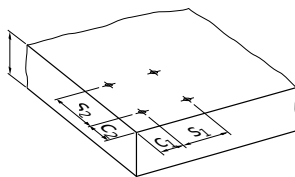
6.1 Fastened material properties



Wood to concrete						
Steel to concrete						
Fixed track fastening						
Fastening condition	Fastened material	Fastened material thickness t_f [mm]	Edge distance c_1 [mm]	Edge distance c_2 [mm]	Fastener spacing distance s_1 [mm]	Fastener spacing distance s_2 [mm]
Wood to concrete	Wood	≤ 25	≥ 100	≥ 22	180 – 800	≥ 80
Steel to concrete	Steel	≤ 2	≥ 40		≥ 600	≥ 80
Fixed track fastening	Steel track	≤ 1	≥ 40		≤ 600	≥ 80

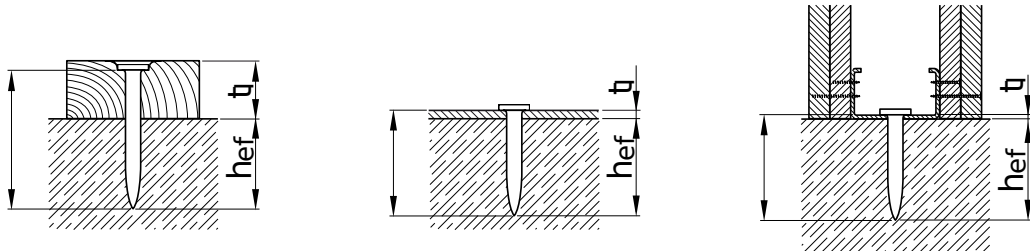
i • Spacing for partition walls with fire rating: 300 mm.

6.2 Base material properties



Fastening to concrete					
Base material	Base material thickness h [mm]	Edge distance c_1 [mm]	Edge distance c_2 [mm]	Fastener spacing distance s_1 [mm]	Fastener spacing distance s_2 [mm]
Concrete	≥ 60	≥ 70	≥ 70	≥ 100	≥ 80

6.3 Nail length recommendation



Wood to concrete		Steel to concrete		Fixed track fastening
Fastening condition	Fastening characteristics	Shank Length	Embedment depth	Fastened material thickness
		L_s [mm]	h_{ef} [mm]	t_l [mm]
Wood to concrete	Standard fastening	$L_s \geq h_{ef} + t_l$	≥ 14	≤ 25
	Flush fastening	$L_s \geq h_{ef} + t_l - 3$	≥ 14	≤ 25
Steel to concrete	Standard fastening	$L_s \geq h_{ef} + t_l$	≥ 11	≤ 2
Fixed track fastening	Standard fastening	$L_s \geq h_{ef} + t_l$	≥ 11	≤ 1

Attn. : To whom it may concern

Date : 15 May 2025
Ref. : 112/DF/SC/25

Subject : Country of Origin- Hilti X-S B4 and X-P B4 Nails

Dear Sir / Madam,

Enclosed please find the information of Hilti X-S B4 and X-P B4 Nails.

Brand Name : Hilti

Model Name : Hilti X-S B4 and X-P B4 Nails

Manufacturer : Hilti Corporation

Address of Manufacturer : FL-9494, Principality of Liechtenstein.

Manufacturer Contact Person : Spencer Cheung

Supplier : Hilti (Hong Kong) Ltd

Address of Supplier : 701-704, 7/F, Tower A, Manulife Financial Centre,
223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Supplier Contact Person : Spencer Cheung (+852 9732 1231)

Country of Origin : Liechtenstein

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at hksales@hilti.com.

Yours faithfully,



Spencer Cheung
Head of Product Leadership Strategy

Attn. : To whom it may concern

Date : 21 May 2025
Ref. : 118/DF/SC/25

Subject : Country of Origin- Hilti X-C B4 MX Nails

Dear Sir / Madam,

Enclosed please find the information of Hilti X-C B4 MX Nails.

Brand Name : Hilti

Model Name : Hilti X-C B4 MX Nails

Manufacturer : Hilti Corporation

Address of Manufacturer : FL-9494, Principality of Liechtenstein.

Manufacturer Contact Person : Spencer Cheung

Supplier : Hilti (Hong Kong) Ltd

Address of Supplier : 701-704, 7/F, Tower A, Manulife Financial Centre,
223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Supplier Contact Person : Spencer Cheung (+852 9732 1231)

Country of Origin : China

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at hksales@hilti.com.

Yours faithfully,



Spencer Cheung
Head of Product Leadership Strategy

Attn. : To whom it may concern

Date : 15 May 2025
Ref. : 111/DF/SC/25

Subject : Country of Origin- Hilti BX 4 Battery-Actuated Fastening Tool

Dear Sir / Madam,

Enclosed please find the information of Hilti BX 4 Battery-Actuated Fastening Tool.

Brand Name : Hilti

Model Name : Hilti BX 4 Battery-Actuated Fastening Tool

Manufacturer : Hilti Corporation

Address of Manufacturer : FL-9494, Principality of Liechtenstein.

Manufacturer Contact Person : Spencer Cheung

Supplier : Hilti (Hong Kong) Ltd

Address of Supplier : 701-704, 7/F, Tower A, Manulife Financial Centre,
223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Supplier Contact Person : Spencer Cheung (+852 9732 1231)

Country of Origin : Austria

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at hksales@hilti.com.

Yours faithfully,

Spencer C. 

Spencer Cheung
Head of Product Leadership Strategy