

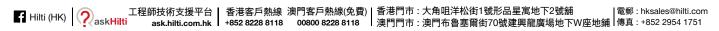
Hilti X-P B3 P7 Concrete Nails

Submission Folder

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X-P B3 P7 Concrete Nails





Ordering designation	Fastener shank length	Fastener shank diameter	Sales pack quantity	Item number
X-P 30 B3 P7	30 mm	3 mm	200 pc	2105406
X-P 36 B3 P7	36 mm	3 mm	200 pc	2105407

 $^{^{\}scriptsize 1)}$ For detailed stock availability and lead time information please contact your Hilti representative.



Battery-actuated fastening tool BX 3-L 02





APPLICATIONS

- Fastening drywall track to floors, walls and ceilings on concrete, solid masonry or steel
- Fastening mesh, membranes or foil with special washer holders
- Fastening wall tie connections to concrete, solid masonry or steel - use of the special washer holder is recommended
- Suitable for various light-duty fastening applications on concrete, solid masonry or steel
- Fastening cables, conduits or various light electrical installations - use of the ME nailer nose is recommended
- Fastening wood up to 25 mm thick to concrete

ADVANTAGES

- Combustion-free operation no gas cans or powder cartridges to store and dispose of
- Drives up to 800/500/400 fasteners with a single battery charge (depending on B22 battery model - 5.2 Ah, 3.0 Ah or 2.6 Ah)
- Engineered for high productivity fastening rate of 1.3 nails per second
- Slim design for easier access in corners, close to walls or in tight spaces
- Cordless tool platform the same battery for all 22V Hilti tools

Technical data	
Power (max.)	85 J
Weight	3.48 kg
Automatic piston return	Yes
Emission noise-pressure level at the work station: LpA, 1s ¹⁾	90 dB (A)
Dimensions (LxWxH)	474 x 134 x 368 mm
Max. fastener driving rate	650
Weight according to EPTA Procedure 01/2003	4 kg
Fastener intake	30 nails
Fastener length range	14 - 36 mm

¹⁾ Declared measured values of noise characteristics according to 2006/42/EC Machinery Directive in conjunction with E DIN EN 15895















Ordering designation	Package contents	Sales pack quantity	Item number
BX 3-L 02 with X-FG ME	1x Battery-actuated tool BX 3-L 02, 1x Fastener guide X-FG B3-ME packed, 1x case	1 pc	3611127

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



Fasteners for Electrical and Mechanical Applications

Cable tie holders X-ECT MX





Ordering designation	Max wide	Sales pack quantity	Item number
X-ECT MX	9 mm	100 pc	285709¹)
X-ECT UV MX	9 mm	100 pc	285710¹)

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





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







Ordering designation	Cable capacity (8mm cable)	Sales pack quantity	Item number
X-ECH 15/B MX kit	15	100 pc	20187291)
X-ECH 30/B MX kit	30	50 pc	20188911)
Base X-ECH-B MX	-	50 pc	20183911)

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





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









Order Now

Order designation	Cable conduit diameter	Sales pack quantity	Item number
X-EKS 16 MX	16 mm	100 pc	285719¹)
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	2857221)

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 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	2740871)

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 designation	Sales pack quantity	Item number
X-EMTSC 1/2" MX	100 pc	2283381)
X-EMTSC 3/4" MX	100 pc	2283391)
X-EMTSC 1" MX	100 pc	2283401)

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 designation	Cable conduit diameter	Sales pack quantity	Item number
X-FB 16 MX	16 mm	200 pc	2867991)
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	2868041)

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



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	273386¹)

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





	Sales pack quantity	Item number
X-EHS M8 MX	100 pc	2733681)

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





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



Accessories for BX 3

Ordering designation	Sales pack quantity	Item number
Washer holder X-WH B3 packed	1 pc	2101256
Fastener guide X-FG B3-ME packed	1 pc	2101258
Fastener guide X-FG B3-IF packed	1 pc	2116415



BX 3 System Fastener for interior finishing, building construction, mechanical and electrical application

Product data

BX 3 battery-actuated direct fastening tools



BX 3-ME (02) BX 3-IF



BX 3 02 BX 3-L 02

Features and benefits

- Hilti's combustion-free direct fastening technology for driving nails into concrete, steel and some types of solid masonry
- High user comfort thanks to low levels of compression force, noise and recoil
- No disposal of (used) propellant cartridges or gas cans
- · Hilti's 22V cordless tool battery platform

Fasteners and their compatibility

Nails

For fastening to <u>concrete</u> X-P 17/20/24 B3 MX X-P 30/36 B3 P7 X-C 20/24/27/30 B3 MX



X-C 36 B3 MX

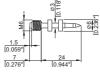


For fastening to steel X-S 14 B3 MX



Threaded studs

For fastening to concrete X-M6-7-24 B3 P7



X-W6-12-20 B3 P7











	BX 3-ME (02)	BX 3-IF	BX 3 02	BX 3-L 02
X-S 14 B3 MX	yes	yes	yes	yes
X-P 17 B3 MX	yes	yes	yes	yes
X-P 20 B3 MX	yes	yes	yes	yes
X-P 24 B3 MX	yes	yes	yes	yes
X-C 20 B3 MX	yes	yes	yes	yes
X-C 24 B3 MX	yes	yes	yes	yes
X-C 27 B3 MX	no	no	yes	yes
X-C 30 B3 MX	no	no	yes	yes
X-C 36 B3 MX	no	no	no	yes
X-M/W B3 P7	yes	yes	no	no
X-P _ B3 P7	yes	yes	no	no
ME MX elements	yes	with ME FG	with ME FG	with ME FG

Material specifications

X-P B3 MX/P7, X-S B3 MX

X-C B3 MX

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Carbon steel, HRC 57.5, 2-13 µm zinc coating Carbon steel, HRC 56.5, 2-13 µm zinc coating



Electrical elements to be used with nails - examples















Material specifications

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

X-EKB MX

X-ECT-FR MX X-FKR-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

Galvanized steel sheet, f_{ii} = 270-420 N/mm², 10-20 µm zinc coating Galvanized steel sheet, f_u = 270-420 N/mm², 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

X-P B3 P7 Concrete Nails

www.hilti.group

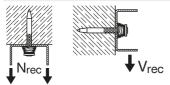
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Performance data

Performance data for drywall track fastening



X-S 14 B3 MX (Base material: steel)

Tension N _{rec} [kN]	Shear V _{rec} [kN]
0.4	0.4

X-P B3, X-C B3 (Base material: concrete / sand-lime masonry)

	Recommended Loads [kN]					
Embedment	Tension N _{rec}		Shear V _{rec}		Tension N _{rec}	Shear V _{rec}
[mm]	Concre		te Type		Cond line manner	
	Soft	Tough	Soft	Tough	Sand-lime masonry	
≥ 22	-	-	-	-	0.3	0.3
≥ 18	0.2	-	0.2	-	0.2	0.2
≥ 14	0.1	0.1	0.1	0.1	0.1	0.1

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 concrete up to $f_{c,cube}$ = 45 N/mm² (C35/45), some tough concrete up to $f_{c,cube}$ = 60 N/mm² (C50/60).
- · Concrete with aggregate like granite or river rock or softer, and up to 16 mm diameter



Stick rate estimation				
Soft Concrete Tough concrete				
X-P B3	85% - 98%	70% - 85%		
X-C B3	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.



Performance data

Recommended loads for threaded studs

Designation	Tension load	Shear load	Tightening	Base material
	N _{rec}	V _{rec}	torque T _{rec}	
X-M6-7-24 B3 P7	0.05 kN	0.05 kN	3.0 Nm	Concrete,
X-W6-12-20 B3 P7	0.05 KIN	0.05 KIN	3.0 INIII	sand-lime masonry
X-M6-7-14 B3 P7	0.00 (A)	0.00 (A)	0.0 Nm	Charl
X-W6-12-14 B3 P7	0.20 kN	0.20 kN	3.0 Nm	Steel

Recommended tension and shear load for fastening electrical elements

Designation	Tension load N _{rec}	Shear load V _{rec}
X-ECT 40 MX, X-ECT MX, X-ECT FR MX	0.040 kN	0.040 kN
X-UCT MX	0.040 kN	0.040 kN
X-EKS MX	0.011 kN	0.011 kN
X-EKSC MX	0.032 kN	0.032 kN
X-FB MX / X-DFB MX	0.020 kN	0.020 kN
X-ECC MX	0.050 kN	0.050 kN
X-EHS MX	0.080 kN	0.080 kN
X-EKB 4 MX, X-EKB FR 4 MX	0.090 kN	
X-EKB 8 MX, X-EKB FR 8 MX	0.014 kN	
X-EKB 16 MX, X-EKB FR 16 MX	0.018 kN	
X-ECH MX	0.040 kN	0.040 kN

Recommended tension and shear load for fastening pipes

Designation	Tension load N _{rec}	Shear load V _{rec}
X-ECT 40 MX, X-ECT MX, X-ECT FR MX	0.040 kN	0.040 kN
X-EKSC MX	0.032 kN	0.032 kN

- •
- copper pipes and plastic pipes, e.g. PEX pipes
 - pipes filled with 90°C hot fluid
 - tests according to Kiwa standard BRL-K506



Recommended tension and shear load for fastening cable trunking

Designation	Tension load N _{rec}	Shear load V _{rec}
X-ET MX	0.10 kN	0.10 kN

Conditions:

- Spacing ≤ 100 mm
- · All visible failures must be replaced

Nail recommendation

For **concrete** base material

Nail types	Length [mm]	Tip	Shank Ø [mm]	Material	Hardness [HRC]	Coating [µm]
X-P B3 P7/MX	17-36	Long conical	3.0	Carbon steel	57.5	Zinc, 2-10

- Premium nails (as listed above) are recommended for use on soft and some tough concrete. For more details regarding nail classification and concrete types, please refer to Concrete Fastener Selection section in Hilti Direct Fastening Technology Manual (DFTM)
- X-P 17/20/24 B3 MX to be used with BX 3 02, BX 3-L 02, BX 3-ME (02) and BX 3-IF
- X-P 30/36 B3 P7 to be used with BX 3-ME (02) and BX 3-IF

For concrete base material

Nail types	Length [mm]	Tip	Shank Ø [mm]	Material	Hardness [HRC]	Coating [µm]
X-C B3 MX	20-30 36	Cut	3.0 2.75	Carbon steel	56.5	Zinc, 5-13

Standard nails (as listed above) are recommended for use on soft concrete only. For more
details regarding nail classification and concrete types, please refer to

Concrete Fastener Selection section in Hilti Direct Fastening Technology Manual (DFTM)

- X-C 20/24/27/30 B3 MX to be used with BX 3 02
- X-C 20/24/27/30/36 B3 MX to be used with BX 3-L 02
- X-C 20/24 B3 MX to be used with BX 3-ME (02) and BX 3-IF

For steel base material

Nail types	Length [mm]	Tip	Shank Ø [mm]	Material	Hardness [HRC]	Coating [µm]
X-S 14 B3 MX	14	Long conical	3.0	Carbon steel	57.5	Zinc, 2-10

- X-S 14 B3 MX to be used with BX 3 02, BX 3-L 02, BX 3-ME (02) and BX 3-IF
- Please refer to next pages for application limits on steel base material

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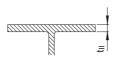
Application requirements

Thickness of base material



Concrete (for nails and threaded studs)

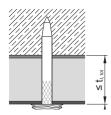
 $h_{min} = 60 \text{ mm}$ $d_{nom} = 3.0 \text{ mm}$



Steel

 $t_{II} \ge 4.0 \text{ mm (for nails)}$ $t_{II} \ge 6.0 \text{ mm (for threaded studs)}$

Thickness of fastened material



Wooden track:

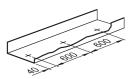
 $t_{\parallel} \le 27$ mm (conditions: head of the nail is countersunked flat to the surface)

Metal track: $t_1 \le 2 \text{ mm}$

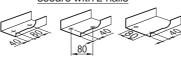
Deflection head: t_{l.tot.} ≤ 21 mm (gypsum strip + metal track and sealant)

Spacing and edge distances (mm)

Max. spacing along track



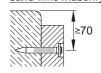
All track ends (cut-outs for doors), secure with 2 nails

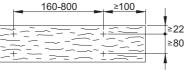


Fastener spacing max. 30 cm for proprietary light non-load-bearing partition walls with fire classification

<u>Distance to edge of concrete /</u> sand-lime masonry

Spacing between nails when fastening wood to concrete

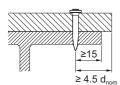






Based on common practice, spacing needs to be adjusted based on specific load requirement and achieved embedment depth.

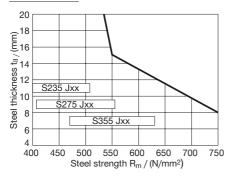
Distance to edge of fastened material (steel base material)



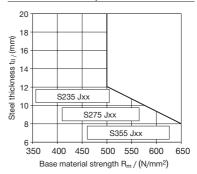


Application limits

X-S 14 B3 MX



X-M6-7-14 B3 P7, X-W6-12-14 B3 P7



Corrosion information

The intended use only comprises fastenings which are not directly exposed to external weather conditions or moist atmospheres, i.e. only intended for dry indoor areas.

Fastener selection and system recommendation

Fastener program

Nails

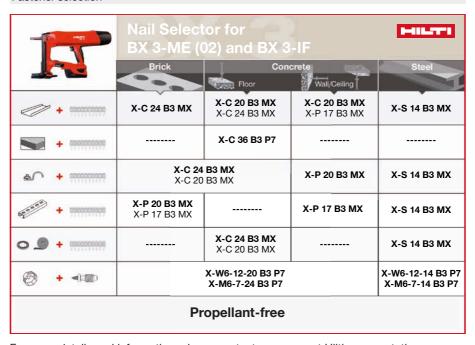
Nail	Item no.	Shank length (mm)	Shank diameter (mm)	Base material	Length recommendation
X-S 14 B3 MX	2156392, 2156393	14	3	Steel	
X-P 17 B3 MX	2156216, 2156219	17	3		
X-P 20 B3 MX	2156217, 2156390	20	3		
X-P 24 B3 MX	2156218, 2156391	24	3	Concrete	of fastened material language of fastened material language of fastened material language of base material
X-P 30 B3 P7	2105406	30	3	/ Sand-lime	ing sing
X-P 36 B3 P7	2105407	36	3	masonry	thickness of material strenght material
X-C 20 B3 MX	2123993	20	3		material strenght
X-C 24 B3 MX	2123994	24	3		
X-C 27 B3 MX	2224568	27	3		
X-C 30 B3 MX	2149988	30	3		
X-C 36 B3 MX	2149989	36	2.75		



Threaded studs

Threaded studs	Item no.	Thread size	Thread length (mm)	Shank length (mm)	Shank diameter (mm)	Base material
X-M6-7-14 B3 P7	2105408	M6	7	14	3	Steel
X-M6-7-24 B3 P7	2105409	M6	7	24	3	Concrete
X-W6-12-14 B3 P7	2105800	W6	12	14	3	Steel
X-W6-12-20 B3 P7	2105801	W6	12	20	3	Concrete

Fastener selection

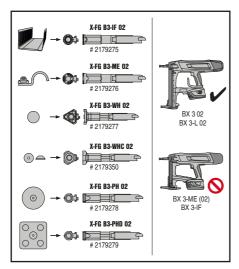


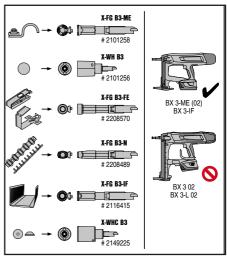
For more details and information, please contact your nearest Hilti representative.



Fastener selection (3 02 and BX 3-L 02 Concrete Wall/Ceiling X-C 20 B3 MX X-C 20 B3 MX X-C 24-36 B3 MX* X-S 14 B3 MX X-C 24 B3 MX X-P 17 B3 MX X-C 36 B3 MX* X-C 24 B3 MX X-P 20 B3 MX X-S 14 B3 MX X-C 20 B3 MX X-P 20 B3 MX X-P 17 B3 MX X-S 14 B3 MX X-P 17 B3 MX X-C 24 B3 MX X-S 14 B3 MX X-C 20 B3 MX Propellant-free

* X-C 36 B3 MX suitable for BX 3-L 02 only



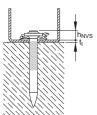




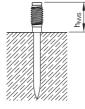
Fastening quality assurance

Fastening inspection

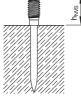
Nails and studs in concrete / sand-lime masonry



X-C_B3, X-P_B3: $h_{NVS} = 2-5 \text{ mm}$

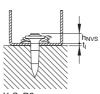


X-M6-7-24 B3 P7 X-W6-12-20 B3 P7

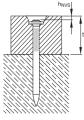


 h_{NVS} ≥ 7 mm ≥ 12 mm





X-S_B3: $h_{NVS} = 2-9 \text{ mm}$



X-C_B3, X-P_B3: $h_{NVS} = 2-3 \text{ mm}$



Deflection head X-P 36 B3 P7, X-C 36 B3 MX $h_{NVS} \le 12 \text{ mm}$ $h_{NVS} \le 9 \text{ mm}$ $h_{NVS} \le 5 \text{ mm}$ 12.5 mm board: 15 mm board: 19 mm board:

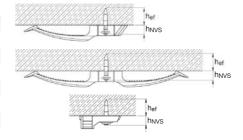


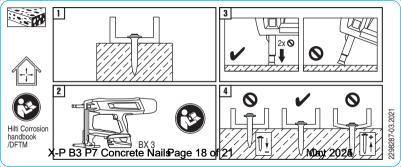
 h_{NVS} ≥ 7 mm X-M6-7-14 B3 P7 ≥ 12 mm X-W6-12-14 B3 P7

Element	h _{NVS} (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		

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

Examples







Attn. : To whom it may concern

Date : 1 April 2025 Ref. : 098/DF/SC/25

Subject : Country of Origin- Hilti X-P B3 P7 Concrete Nails

Dear Sir / Madam,

Enclosed please find the information of X-P B3 P7 Concrete Nails.

Brand Name : Hilti

Model Name : Hilti X-P B3 P7 Concrete 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

Spencer C.



Attn. : To whom it may concern

Date : 1 April 2025 Ref. : 089/DF/SC/25

Subject : Country of Origin- Hilti BX 3 Battery-Actuated Fastening Tool

Dear Sir / Madam,

Enclosed please find the information of Hilti BX 3 Battery-Actuated Fastening Tool.

Brand Name : Hilti

Model Name : Hilti BX 3 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 Cheung

Head of Product Leadership Strategy

Spencer C.



Hilti X-P B3 Concrete Nails Job Reference

Year	Project Name	Customer Name	Project type
2023	11 MIDDLE RD - KIMPTON HONG KONG	CR CONSTRUCTION COMPANY LIMITED	Hospitality
2023	11 MIDDLE RD - KIMPTON HONG KONG	CR CONSTRUCTION COMPANY LIMITED	Hospitality
2023	HKIA 3508 TERMINAL 2	SUMMAN ENGINEERING LIMITED	Transport
2024	11 MIDDLE RD - KIMPTON HONG KONG	CR CONSTRUCTION COMPANY LIMITED	Hospitality
2024	11 MIDDLE RD - KIMPTON HONG KONG	CR CONSTRUCTION COMPANY LIMITED	Hospitality
2024	391 CHAI WAN RD	GOLDENWALL ENGINEERING LIMITED	Residential
2024	391 CHAI WAN RD	GOLDENWALL ENGINEERING LIMITED	Residential
2024	391 CHAI WAN RD	GOLDENWALL ENGINEERING LIMITED	Residential
2024	FORMER EXCELSIOR REDEVELOP - PROJECT BLUE	GAMMON ENGINEERING & CONSTRUCTION	Office
2024	POLICE SCHOOL RD HKU DORM (459)	GOLDENWALL ENGINEERING LIMITED	Residential
2025	New - Office - 71 How Ming Street, Kwun Tong	GAMMON ENGINEERING & CONSTRUCTION	Office
2025	TUNG CHUNG EAST STATION & ASSOC. TRACKS (CONTRACT)	N(LUEN YAU CONSTRUCTION COMPANY	Transport