

Hilti X-C P8 Concrete Nails

Submission Folder

D .		1	l £	1:
М	roai	UCT	Intori	mation

X-C Nail	2
DX 5 Tool	3
DX 351 Tool	5
DX 2 Tool	7
Technical Information	g
Test Reports	
ASTM E 1190 test reports	14
Letters	
Government Letters	23
Country of Origin	31
Job Reference	32



Please consider your environmental responsibility before using the hard copy version!





Standard nail X-C

APPLICATIONS

- Drywall track to concrete
- Window frame metal sheet to concrete

Technical data			
Point type	Cut point		
For use with	DX 2, DX 5, DX 351		

Order Now

Watch Video



ADVANTAGES

- Buckle-proof, high-strength hardened steel nail for demanding applications
- Rugged head resists pull-over forces and holds material down securely

Standard nail for concrete X-C P8



Ordering designation	Fastener shank length	Fastener shank diameter	Sales pack quantity	Item number
X-C 22 P8	22 mm	3.5 mm	100 pc	2091377
X-C 27 P8	27 mm	3.5 mm	100 pc	2091379
X-C 27 P8 BULK	27 mm	3.5 mm	1000 pc	2091380
X-C 32 P8	32 mm	3.5 mm	100 pc	2091381
X-C 37 P8	37 mm	3.5 mm	100 pc	20913831)
X-C 42 P8	42 mm	3.5 mm	100 pc	2091385
X-C 47 P8	47 mm	3.5 mm	100 pc	20913871)

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

Standard nail with steel washer X-C P8 S



Ordering designation	Fastener shank length	Fastener shank diameter	Washer diameter	Sales pack quantity	Item number
X-C 27 P8S23	27 mm	3.5 mm	23 mm	1000 pc	2091396
X-C 32 P8S23	32 mm	3.5 mm	23 mm	1000 pc	2091399

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



Powder-actuated tool DX 5 NEW





APPLICATIONS

- Fastening wood to concrete, sand-lime block or steel
- Fastening sheet metal to concrete, sand-lime block or steel
- Attaching drainage foils and membranes to concrete or CMU
- Installing wall or brick ties
- Fastening various items such as cable conduits and cable ties to steel and concrete in electrical installation work

ADVANTAGES

- Easy to use and maintain
- Compact, sleek design allows access in narrow spaces
- Ergonomically designed grip and tool nose
- Maximum nail length 62 mm, or 72 mm for wood-to-concrete applications

Technical data	
Power (max.)	325 J
Weight	3.37 kg
Base materials	Concrete, Steel
Automatic piston return	Yes
Noise (pressure) level at work	101 dB (A)
station: LpA, 1s1)	
Dimensions (LxWxH)	478 x 72 x 180 mm
Max. fastener driving rate	450 / h
Cartridge type	6.8/11 M10
Fastener intake	Single
Fastener length range	12 - 72 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
DX 5 F8	1x Basic unit DX 5_01, 1x Fastener guide X-5-460-F8 assy, 1x Piston X-5-460-P8, 1x Cleaning kit X-5-460-Clean, 1x Case	1 pc	3612972

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

DX cartridge 6.8/11 M10

APPLICATIONS

For use with DX 2, DX 5, DX 460, DX 351, DX 450, DX 36, DX A40, DX A41





Ordering designation	Cartridge type	Cartridge power level	Sales pack quantity	Item number
6.8/11 M10 red	.27 calibre short	Heavy	100 pc	416474
6.8/11 M10 yellow	.27 calibre short	Medium-light	100 pc	416473

Accessories for DX 460 & DX 5

Ordering designation	Sales pack quantity	Item number
Buffer X-5-460-B	1 pc	373330¹
Fastener guide X-5-460-F10	1 pc	373319¹
Fastener guide X-5-460-F8	1 pc	304529
Fastener guide X-5-460 F8GR	1 pc	3860121
Fastener guide X-5-460 F8N15	1 pc	304530¹
Fastener guide X-5-460-F8S12	1 pc	3733171
Fastener guide X-5-460-F8SS	1 pc	373318¹
Piston X-5-460-P10	1 pc	373300¹
Piston X-5-460-P8		373297
Piston X-5-460-P8W		3732981
Piston X-5-460-PGR		3054481
Protective cap X-SGF	1 pc	304416
Washer holder X-5-460-WH23/36 packed	1 pc	3733311
Pole Tool X-PT 7ft for DX 5	1 pc	3579594
Receptacle X-PT 5 assy	1 pc	2150263
Cleaning kit DX-5-460	1 pc	372810

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



Powder-actuated tool DX 351





APPLICATIONS

- Quick and convenient for fastening applications such as drywall track attachment, electrical, plumbing and HVAC installation
- Installing threaded studs to concrete or steel
- Fastening suspended ceilings

ADVANTAGES

- Automatic piston return and cartridge advance
- Very user-friendly: light, low recoil, low noise
- Pole tool available for overhead applications









Technical data	
Power (max.)	245 J
Weight	2.2 kg
Base materials	Concrete, Steel
Automatic piston return	Yes
Noise (pressure) level at work station: LpA, 1s¹)	99 dB (A)
Dimensions (LxWxH)	404 x 56 x 164 mm
Max. fastener driving rate	700 / h
Cartridge type	6.8/11 M10
Fastener intake	Single
Fastener length range	12 - 47 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
DX 351 M+E	1x Powder-actuated tool DX 351 M+E,1x Piston X-P8S-351, 1x Fastener guide X-FG8ME351 assy, 1x Cleaning kit DX 351, 1x Case	1 pc	373182

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

DX cartridge 6.8/11 M10

APPLICATIONS

For use with DX 2, DX 5, DX 460, DX 351, DX 450, DX 36, DX A40, DX A41





Ordering designation	Cartridge type	Cartridge power level	Sales pack quantity	Item number
6.8/11 M10 red	.27 calibre short	Heavy	100 pc	416474
6.8/11 M10 yellow	.27 calibre short	Medium-light	100 pc	416473

Accessories for DX 351

Ordering designation		Sales pack quantity	Item number
Fastener guide X-FG8ME351		1 pc	362174 ¹⁾
Piston X-P8S-351 packed		1 pc	406929
Protective cap X-SGF	0	1 pc	304416
Pole Tool X-PT 7ft for DX 351		1 pc	3579452
Receptable X-PT351		1 pc	333312
Cleaning kit DX 351		1 pc	2003832

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



Semi-automatic powder-actuated tool DX 2 NEW







APPLICATIONS

- Attaching drywall framing to concrete
- Fastening wood to concrete and steel
- Attaching kicker plates to concrete

ADVANTAGES

- Easy to use and maintain
- Compact, sleek design allows access in narrow spaces
- Ergonomically designed grip and tool nose
- Maximum nail length 62 mm, or 72 mm for wood-to-concrete applications













Technical data	
Power (max.)	245 J
Weight	2.4 kg
Base materials	Concrete, Steel
Automatic piston return	No
Noise (pressure) level at work station: LpA, 1s ¹⁾	104 dB (A)
Dimensions (LxWxH)	345 x 50 x 157 mm
Max. fastener driving rate	450 / h
Cartridge type	6.8/11 .27 caliber short, 6.8/11 M10
Fastener intake	Single
Fastener length range	14 - 62 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
DX 2	1x Powder-actuated tool DX 2, 1x Round brush 5/8, 1x Round brush, 1x Spares pack DX 2 packed, 1x Case	1 pc	2084169

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

DX cartridge 6.8/11 M10

APPLICATIONS

For use with DX 2, DX 5, DX 460, DX 351, DX 450, DX 36, DX A40, DX A41





Ordering designation	Cartridge type	Cartridge power level	Sales pack quantity	Item number
6.8/11 M10 red	.27 calibre short	Heavy	100 pc	416474
6.8/11 M10 yellow	.27 calibre short	Medium-light	100 pc	416473

Accessories for DX 2

Ordering designation		Sales pack quantity	Item number
Piston DX 2 kit 1 x piston 2/DNI, 1 x spring clip DX 2		1 pc	2103082
Spares pack DX 2 packed 2x spring clip, 2x ball, 1x piston lock		1 pc	2094647
Fastener guide X-2-F8 packed		1 pc	20946441)
Baseplate X-2-S packed		1 pc	20946451)
Piston guide DX 2 packed		1 pc	20946461)
Stabilizer plate X-2-STAB packed		1 pc	20946481)
Pole Tool X-PT 7ft for DX 2		1 pc	3579451
Receptacle X-PT 2		1 pc	2094657
Cleaning kit DX 2 3x metal cleaning brush, 1x black cleaning cloth	E-IILT	1 pc	2097040

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

Other Accessories for DX tools

Ordering designation	Sales pack quantity	Item number
Pipe X-PT 1ft	1 pc	254685
Pipe X-PT 3ft	1 pc	254684
Grip section X-PT assy	1 pc	254687
Tool bag X-PT CT	1 pc	388152
Spray 66ml	1 pc	308976
Safety glasses PP EY-CA NCH clear	1 pc	20654491)

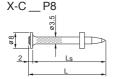
¹⁾ For detailed stock availability and lead time information please contact your Hilti representative.



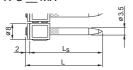
X-C Nail for fastening to concrete and sand lime masonry

Product data

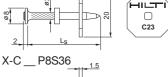
Dimensions

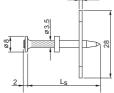


X-C __ MX



X-C __ P8S23







Material specifications

Carbon steel shank: HRC 56.5

HRC 58 *)

Zinc coating: 5–20 µm

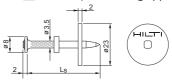
*) X-C 82, 97 and 117 P8 (d_{nom} = 3.7 mm)

Recommended fastening tools



 See fastener program in the next pages.

X-C __ P8S23T (for tunneling applications)

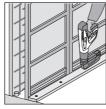


Applications

Examples



Conventional formwork



System formwork



Drywall track to concrete





Performance data

Recommended resistance under tension and shear load





Fastening wood to concrete:						
N _{rec}	V_{rec}	h _{ET}				
0.4 kN	0.4 kN	≥ 27 mm				
0.3 kN	0.3 kN	≥ 22 mm				
0.2 kN	0.2 kN	≥ 18 mm				
0.1 kN	0.1 kN	≥ 14 mm				

Fastenings to sandlime masonry:

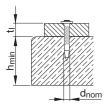
 $N_{rec} = V_{rec} = 0.4 \text{ kN for } h_{ET} \ge 27 \text{ mm}$

Conditions:

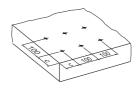
- For safety relevant fastenings sufficient redundancy of the entire system is required: minimum 5 fastenings per fastened unit.
- All visible failures must be replaced.
- Valid for concrete with strength of f_{cc} < 45 N/mm².
- · Valid for predominantly static loading.
- Failure of the fastened material is not considered in recommended loads.
- To limit penetration of nail in soft material and to increase pullover load, use nails with washers.
- For more details in relation to base material properties, please refer to the chapter Fastener selection guide in the Direct Fastening Manual (DFTM).

Application recommendation

Base material and fastened material thickness



Concrete $h_{min} = 80 \text{ mm}$ $t_{l} \le 50.0 \text{ mm}$ Fastener positioning in base material



Edge distance: $c \ge 70 \text{ mm}$ Spacing: $s \ge 100 \text{ mm}$



Fastener shank length recommendation

 $L_S = h_{ET} + t_l [mm]$ For standard fastening: For flush fastening: $L_S = h_{FT} + t_1 - 5 \text{ [mm]}$

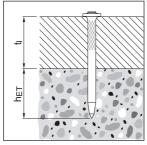
 $h_{FT} = 22 \text{ mm}$ Concrete: Sandlime masonry: $h_{FT} = 27 \text{ mm}$

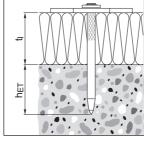
Fastening wood to concrete $t_1 = 15 - 40 \text{ mm}$

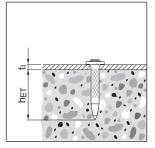
insulation to concrete $t_1 = 15 - 40 \text{ mm}$

Fastening

Fastening steel to concrete $t_1 = 0.6 - 2 \text{ mm}$







Corrosion information



- The intended use for safety relevant and permanent applications 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.







System recommendation



 For more details, please refer to the chapter Accessories and consumables compatibility in the Direct Fastening Technology Manual (DFTM).

Cartridge recommendation for fastening wood to masonry and concrete

Base material	Cartridge color (tool power level)				
	Tool type:	Tool type:			
	DX 6 MX	DX 5 MX, DX 460 MX			
	DX 6 F8	DX 5 F8, DX 460 F8, DX 2			
	Cartridge type: 6.8/11 M	Cartridge type: 6.8/11 M			
Sand lime masonry	titanium ■ (1-3)	green■			
Soft/medium concrete	titanium ■ (1-5)	green ■, yellow □			
Tough concrete	titanium ■ (4-8)	yellow <mark></mark> , red ■			

Cartridge recommendation for fastening steel to masonry and concrete

Base material	Cartridge color (tool power level)					
	Tool type:	Tool type:				
	DX 6 MX	DX 5 MX, DX 460 MX,				
		DX 351 MX				
	DX 6 F8	DX 5 F8, DX 460 F8,				
		DX 351 F8, DX 2				
	Cartridge type: 6.8/11 M	Cartridge type: 6.8/11 M				
Sand lime masonry	titanium ■ (1-3)	green				
Soft/medium concrete	titanium ■ (1-5)	green ■, yellow □				
Tough concrete	titanium ■ (4-8)	yellow <mark></mark> , red ■				



- Tool power level adjustment by setting tests on site.
- Start tool energy selection with lowest recommended tool power level.



Fastener program

Nails						Tools						
	ltem	ı no.		cifica- on	DX 5 MX, DX 460 MX	DX 5 F8, DX 460 F8	36		~			
Designation	Packs of 1000 pcs	Packs of 100 pcs	L _s	d _{nom}	DX 6 MX,	DX 6 F8, D	DX 2, DX 3	DX E72	DX 351 MX	DX 351 F8	DX 35	Description
X-C 22 P8	2091378	2091377	22	3.5								Thin metal part to concrete
X-C 27 P8	2091380	2091379	27	3.5			П					Thin metal part to concrete
X-C 32 P8	2091382	2091381	32	3.5								Thin metal part to concrete
X-C 37 P8	2091384	2091383	37	3.5			П					Thin metal part to concrete
X-C 42 P8	2091386	2091385	42	3.5			П					Soft mat / Wood on concrete
X-C 47 P8	2091388	2091387	47	3.5								Soft mat / Wood on concrete
X-C 52 P8	2091390	2091389	52	3.5								Wood on concrete
X-C 62 P8	2091392	2091391	62	3.5								Wood on concrete
X-C 72 P8		2091393	72	3.5								Wood on concrete
X-C 82 P8		360930	82	3.7								Wood on concrete (with pre-hammering)
X-C 97 P8		360931	97	3.7								Wood on concrete (with pre-hammering)
X-C 117 P8		360933	117	3.7								Wood on concrete (with pre-hammering)
X-C 20 THP	2091373	2091372	20	3.5								Thin metal part to concrete
X-C 22 P8 S15TH		2091410	22	3.5			П					Thin metal part to concrete
X-C 22 P8TH	2091374	2091375	22	3.5								Thin metal part to concrete
X-C 27 P8TH		2091376	27	3.5			П					Thin metal part to concrete
X-C 27 P8S23	2091396	2091395	27	3.5								High pull-over strength on concrete
X-C 32 P8S23	2091399	2091397	32	3.5			П					High pull-over strength on concrete
X-C 37 P8S23	2091401	2091400	37	3.5								High pull-over strength on concrete
X-C 42 P8S23	2091404	2091403	42	3.5								High pull-over strength on concrete
X-C 47 P8S23	2091406	2091405	47	3.5								High pull-over strength on concrete
X-C 37 P8S36	2091407		37	3.5			П					High pull-over strength on concrete
X-C 52 P8S36	2091408		52	3.5			П					High pull-over strength on concrete
X-C 62 P8S36	2091409		62	3.5								High pull-over strength on concrete
X-C 32 P8S23T	2091398		32	3.5			П					Tunneling applications
X-C 37 P8S23T	2091402		37	3.5			П					Tunneling applications
X-C 20 MX	2091264	2091265	20	3.5								Thin metal part to concrete
X-C 27 MX	2091266	2091267	27	3.5								Thin metal part to concrete
X-C 32 MX	2091268	2091269	32	3.5								Thin metal part to concrete
X-C 37 MX	2091360	2091361	37	3.5								Thin metal part to concrete
X-C 42 MX	2091362	2091363	42	3.5								Soft material / Wood on concrete
X-C 47 MX	2091364	2091365	47	3.5								Soft material / Wood on concrete
X-C 52 MX	2091366	2091367	52	3.5								Wood on Concrete
X-C 62 MX	2091368	2091369	62	3.5								Wood on Concrete
X-C 72 MX	2091370	2091371	72	3.5								Wood on Concrete

■ recommended, ■ feasible



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

Tel: 2695 8318 Fax: 2695 3944 E-mail : etl@ets-testconsult.com
Web site : www.ets-testconsult.com

TEST REPORT

Hilti (Hong Kong) Ltd

17/F, Tower 6, China Hong Kong City, 33 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong

Tensile and Shear Load Test of X- C Pin

[Embedment Depth= 25mm]

[Edge Distance= 140mm]

Ref.: In-house Method Based on ASTM E1190

Date Tested: 10-Nov-2008

ETL Ref. No.: 996/2008

Reported By:

TSANG, Kin On Assistant Engineer Approved By:

MONG, Seng Ming

Assistant Technical Manager

Report Issue Date: 11-Nov-2008

Page 1 of 5

Report No.: FDA81369

X-C P8 Concrete Nails Page 14 of 32 May 2025



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

: 2695 8318 Tel Fax : 2695 3944 E-mail : etl@ets-testconsult.com Web site : www.ets-testconsult.com

TEST REPORT

Tensile Load Test on X - C Pin

Customer

: Hilti (Hong Kong) Ltd

Address

: 17/F, Tower 6, China Hong Kong City, 33 Canton Road, Tsim Sha Tsui,

Kowloon, Hong Kong

Project:

: Direct Fastening Nail Testing

Superseding test report no. FDA81369 Page 4 of 5

Report No. : FDA81369A

Test Date

: 10-Nov-08

Report Date : 14-Feb-09 Page No. : 4 of 5

Test Method: In-house method based

Test Ref. No.	Failu	re Load (kN)	Failure Modes (see Note E)	* Type	Remarks		
T1		5.60	F4				
T2		5,20	F4				
Т3		5.50	F4				
T4		5,60	F4				
T5		5.70	F4				
T6		5.20	F4		THE STATE OF THE STATE OF		
T7		5,20	F4				
T8		5.30	F4		AND THE RESERVE OF THE SECOND		
T9		5.30	F4				
T10		5.40	F4	X-C Pin			
T11		5.30	F4	(Spacing Distance= 80mm)	HE WAS LEAVING A		
T12		5.70	F4				
T13		5.40	F4				
T14		5,50	F4				
T15		5.60	F4				
T16		5.60	F4		AND SECTION		
T17		5.40	F4		WENT SELECTION		
T18		5.70	F4				
T19		5.60	F4				
T20		5.70	F4				
aximum inimum verage Failu tandard Divia		(kN) : (kN) : (kN) : (kN) :	5.70 5.20 5.48 0.18				
Notes:	A) Test Apparatus B) Concrete Strength C) Embedment Depth	Calibration Due Date : Load Cell Indicator : Load Cell : Comp. Load Calibration Due Date : Load Cell Indicator :	n Load Cell, 50kN (ET/930/02/ 25-Mar-09 Load Indicator,XT1500 (ET cell Thames, 50 kN (ET/930/1 07-Nov-09 Load indicator AD813 (ET/ draulic RCH121 (ET/903/19)	Range: 0,1-5 7/930/02/02) S/N: 100007 11/01) S/N: BS460 Range: 0,1-5	okn 70260 7/0227183 okn		
	D) Fixture Thickness E) Edge Distance F) Failure Modes	7mm 140mm P = No sign of failure in pin and F2 = Failure in structural memb F4 = Failure of structural memb F6 = Failure in structural memb	er	F1 = Failure of pin or its accessorie F3 = Pull out of pin F5 = Failure by continuous displace n pin			
		F7 = Other failure mode(s) : -					
	G) Loading Rate		trength of the fastener is reach	ned in no less than 30s.			
	G) Loading Rate H) Remarks:			ned in no less than 30s.			

Tested By:

WONG, Tsz San



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

: 2695 8318

E-mail

: etl@ets-testconsult.com

Fax : 2695 3944 Web site : www.ets-testconsult.com

TEST REPORT

Shear Load Test on X - C Pin

Customer

: Hilti (Hong Kong) Ltd

Address

: 17/F, Tower 6, China Hong Kong City,

33 Canton Road, Tsim Sha Tsui,

Kowloon, Hong Kong

Project:

: Direct Fastening Nail Testing

Test Location : ETL's Laborartory

Superseding test report no. FDA81369 Page 5 of 5

Report No. : FDA81369A

Test Date

: 10-Nov-08 Report Date: 14-Feb-09

Page No.

: 5 of 5

Test Method: In-house method based

on ASTM E1190

Test Ref. No.	Failure Load (kN)	Failure Modes (see Note E)	* Type	Remarks
S1	9.00	F4		
S2	9.20	F4		
S3	9.40	F4		and the second
S4	8.80	F4		
S5	8.70	F4		
S6	9.10	F4		
S7	9.30	F4		
S8	9.40	F4		Last Territoria
S9	9.00	F4		
S10	8.90	F4	X-C Pin	(100 H = 1/2 (12) = 1/2 (2)
S11	8.60	F4	(Spacing Distance= 80mm)	Name Light of R
S12	9.10	F4		Shirt N. Carlotte
S13	8.90	F4		
S14	9.20	F4		
S15	9.00	F4		
S16	8.80	F4		
S17	8.70	F4	Figure 1 September 1 September 1 September 1	Marie Lander
S18	9.30	F4		
S19	9.40	F4		PROPERTY AND RES
S20	8.80	F4		or need to a loan
laximum	(kN) :	9.40	The state of the s	
linimum	(kN) :	8.60		
verage Failure Load	(kN) :	9.03		
tandard Diviation	(kN) :	0.25		

Cylinder:

Calibration Due Date :

Load Cell Indicator:

25-Mar-09 Enerpac Hydraulic RCH121 (ET/903/19)

Load Indicator, XT1500 (ET/930/02/02)

Range: 0.1-50kN S/N: 1000070260

S/N: B1901C

B) Concrete Strength

30 ± 3 MPa 25mm

C) Embedment Depth D) Fixture Thickness

7mm

E) Edge Distance

F) Failure Modes

140mm

P = No sign of failure in pin and/or structural member F4 = Failure of structural member in a shear cone

F1 = Failure of pin or its accessories

F2 = Failure in structural member

F3 = Pull out of pin F5 = Failure by continuous displacement or decreasing load

F6 = Failure in structural member with crack radiates outward from pin-

F7 = Other failure mode(s) : -

G) Loading Rate

Uniform rate with ultimate strength of the fastener is reached in no less than 30s.

H) Remarks:

* Information provided by customer

Ambient Temperature:21.9°C

Tested By:

WONG, Tsz San



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

Tel: 2695 8318 Fax: 2695 3944 E-mail : etl@ets-testconsult.com
Web site : www.ets-testconsult.com

TEST REPORT

Hilti (Hong Kong) Ltd

17/F, Tower 6, China Hong Kong City, 33 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong

Tensile and Shear Load Test of X- C Pin

[Embedment Depth= 25mm]

[Edge Distance= 60mm]

Ref.: In-house Method Based on ASTM E1190

Date Tested: 10-Nov-2008

ETL Ref. No.: 996/2008

Reported By:

TSANG, Kin On Assistant Engineer Approved By:

MONG, Seng Ming

Assistant Technical Manager

Report Issue Date: 11-Nov-2008

Page 1 of 5

Report No.: FDA81368

X-C P8 Concrete Nails Page 17 of 32 May 2025



Address

東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

Tel : 2695 8318 Fax : 2695 3944 : etl@ets-testconsult.com E-mail Web site : www.ets-testconsult.com

TEST REPORT

Tensile Load Test on X - C Pin

Customer : Hilti (Hong Kong) Ltd

: 17/F, Tower 6, China Hong Kong City,

33 Canton Road, Tsim Sha Tsui,

Kowloon, Hong Kong

Project: : Direct Fastening Nail Testing Superseding test report no. FDA81368 Page 4 of 5 Report No. : FDA81368A

Test Date

: 10-Nov-08

Report Date : 14-Feb-09 : 4 of 5

Page No.

Test Method: In-house method based

A0000000000000000000000000000000000000	: ETL's Laborartory	Marie Company Company		on ASTN	
Test	Failur	re Load (kN)	Failure Modes	* Type	Remarks
Ref. No.			(see Note E)		
T1		4.90	F4		
T2		4,80	F4		
T3		5.00	F4		
T4	Local III to The same	5.10	F4		
T5		4.70	F4		
T6		5.00	F4		
T7		4.80	F4		
T8		5.00	F4		
Т9		4.90	F4		
T10		4.70	F4	X-C Pin	
T11		5.00	F4	(Spacing Distance= 80mm)	DATE OF THE PARTY
T12	AC STRUCK BY	4.80	F4	Commity	
T13		5.00	F4		
T14	7.2.20	5.20	F4		
T15		5.00	F4		
T16	TANKET SERVER	4.80	F4		
T17	PROPERTY AND ADDRESS OF THE	5.00	F4	er i garagan a zere iki masa bi d	Alteria
T18		4.70	F4		LOCATION WAS IN CASE
T19	GIVE THE STATE OF	5.00			
T20		4.90	F4		
Maximum		(kN) :	5,20		
Minimum		(kN) :	4.70		
Average Failure	Load	(kN) :	4.92		
Standard Diviation	on	(kN) :	0.14		
Notes:	A) Test Apparatus B) Concrete Strength	Load Cell : Comp. Load cell YZC-219, 100kN (ET/930/10/01) S/N : 50603015 Calibration Due Date : 25-Mar-09 Range: 0.1-100kN Load Cell Indicator : Load Indicator,XT1500 (ET/930/03/02) S/N : 1000090910 Cylinder : Enerpac Hydraulic RCH121 (ET/903/19) S/N : B1901C 30 ± 3 MPa			
	C) Embedment Depth	25mm			
	D) Fixture Thickness	7mm			
	E) Edge Distance	60mm			
	F) Failure Modes	P = No sign of failure in pin and/or structural member F1 = Failure of pin or its acc			es
		F2 = Failure in structural memb F4 = Failure of structural memb F6 = Failure in structural memb		F3 = Pull out of pin F5 = Failure by continuous displacement or decreasing loa d from pin	
		F7 = Other failure mode(s) :-			
	G) Loading Rate		trength of the fastener is reac	hed in no less than 30s.	
		of the second se			
	H) Remarks:	Ambient Temperature:21,7	°C		

Tested By:	CHUI, Chi To
	The second secon



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

TEST REPORT

Shear Load Test on X - C Pin

Customer : Hilti (Hong Kong) Ltd

Address : 17/F, Tower 6, China Hong Kong City,

33 Canton Road, Tsim Sha Tsui,

Kowloon, Hong Kong

Project: : Direct Fastening Nail Testing

Test Location : ETL's Laborartory

Superseding test report no. FDA81368 Page 5 of 5

Report No. : FDA81368A Test Date : 10-Nov-08 Report Date : 14-Feb-09

Page No. : 5 of 5

Test Method: In-house method based

on ASTM E1190

Test Location : ETL's Laborartory on ASTM						IVI E1190
Test Ref. No.	Failu	re Load (kN)) [Failure Modes (see Note E)	* Type	Remarks
S1	The second second second	7.60	the hand of the	F4	And the second of the second o	
S2	5 - 12 St. 18	7.30		F4		The world
S3		7.40		F4		
S4		7.80		F4		
S5		7.60		F4		
S6		7.60	P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	F4		ELECTRICAL PROPERTY.
S7		7.20	5 7 1 4 av	F4		
S8		7.70	1 1 1 1	F4		
S9		7.50		F4		
S10		7.60		F4	X-C Pin	
S11		7.70		F4	- (Spacing Distance=	CONTRACTOR OF THE PROPERTY OF
S12	CONTRACTOR OF THE PROPERTY OF	7.40		F4	80mm)	
S13		7.50		F4		
S14		7.30		F4		
S15		7.50	VA 1 3 4 2	F4		TO STATE OF A STATE OF
\$16		7.20		F4		Sign of the second
S17		7.30		F4		A COLOR OF THE REAL PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF
S18	1 - 154 - 15	7.40		F4		
S19		7.10		F4	The second second	to Astronomic services
S20		7.20		F4		Walter Control of Control
laximum		(kN)		7,80		CONSTRUCTION ON THE
linimum verage Failure tandard Divia		(kN) (kN) (kN)		7.10 7.45 0.20		
Notes:	A) Test Apparatus B) Concrete Strength	Load Cell : Compression Load Cell, 50kN (ET/930/02/01) S/N : 175530 Calibration Due Date : 25-Mar-09 Range: 0,1-50kN Load Cell Indicator : Load Indicator, XT1500 (ET/930/02/02) S/N : 1000070260 Load Cell : Comp. Load cell Thames, 50 kN (ET/930/11/01) S/N : B\$4607/0227183 Calibration Due Date : 07-Nov-09 Range: 0,1-50kN Load Cell Indicator : Load indicator AD813 (ET/930/11/02) S/N : - Cylinder : Enerpac Hydraulic RCH121 (ET/903/19) S/N : B1901C 30 ± 3 MPa			-50kN 070260 07/0227183 -50kN	
	A CHEN WAR DEVICE TO THE	25mm				
	C) Embedment Depth					
	D) Fixture Thickness E) Edge Distance	7mm 60mm				
	F) Failure Modes	P = No sign of failure in pin and/or structural member F2 = Failure in structural member		F1 = Failure of pin or its accessories F3 = Pull out of pin		
		F4 = Failure of structural member in a shear cone F5 = Failure by continuous displacement of F6 = Failure in structural member with crack radiates outward from pin F7 = Other failure mode(s): -			cement or decreasing loa	
	G) Loading Rate	Uniform rat	e with ultimate	strength of the fastener is reach	ned in no less than 30s,	
	H) Remarks:	Ambient Temperature:21,7°C				
nformation prov	rided by customer					

Tested By: CHUI, Chi To



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

Tel: 2695 8318 Fax: 2695 3944 E-mail : etl@ets-testconsult.com
Web site : www.ets-testconsult.com

TEST REPORT

Hilti (Hong Kong) Ltd

17/F, Tower 6, China Hong Kong City, 33 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong

Tensile and Shear Load Test of X- C Pin

[Embedment Depth= 25mm]

[Edge Distance= 50mm]

Ref.: In-house Method Based on ASTM E1190

Date Tested: 11-Nov-2008

ETL Ref. No.: 996/2008

Reported By:

TSANG, Kin On Assistant Engineer Approved By:

MONG, Seng Ming

Assistant Technical Manager

Report Issue Date: 12-Nov-2008

Page 1 of 5

Report No.: FDA81371

X-C P8 Concrete Nails Page 20 of 32 May 2025



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

: 2695 8318 Tel Fax : 2695 3944 E-mail : etl@ets-testconsult.com Web site : www.ets-testconsult.com

TEST REPORT

Tensile Load Test on X - C Pin

Customer

: Hilti (Hong Kong) Ltd

Address

: 17/F, Tower 6, China Hong Kong City,

33 Canton Road, Tsim Sha Tsui,

Kowloon, Hong Kong

Project:

Direct Fastening Nail Testing

Test Location : ETL's Laborartory

Superseding test report no. FDA81371 Page 4 of 5

Report No. : FDA81371A

: 11-Nov-08

Test Date

Report Date : 14-Feb-09

Page No.

: 4 of 5 Test Method: In-house method based

on ASTM E1190

Test Ref. No.	Failu	re Load (kN)	Failure Modes (see Note E)	* Type	Remarks
T1		4.70	F4		
T2		4.60	F4		
Т3		4.50	F4		
T4		4.40	F4		
T5		4.30	F4		
T6		4.50	F4		
T7		4.30	F4		
T8		4.60	F4		
Т9		4.40	F4		
T10		4.40	F4	X-C Pin	
T11		4.70	F4	(Spacing Distance= 80mm)	
T12		4.50	F4	Commity	
T13		4.60	F4		- V-50
T14		4.30	F4		
T15		4.70	F4		
T16		4.80	F4		
T17	数 基础 计图像 计图像	4.60	F4	tina by a first only setting which in	CONTRACT
T18		4.40	F4		
T19		4.50	F4		
T20		4.60	F4	and the second s	THE STATE OF THE STATE OF
Maximum Minimum Average Failur Standard Divia		(kN) ; (kN) ; (kN) ; (kN) ;	4.80 4.30 4.52 0.15		
Notes:	A) Test Apparatus	Load Cell : Compression Calibration Due Date : Load Cell Indicator : Cylinder : Enerpac Hydr	0.15 Load Cell, 50kN (ET/930/02 25-Mar-09 Load Indicator,XT1500 (E- aulic RCH121 (ET/903/19)	Range: 0.1-5	0kN 70260
	B) Concrete Strength	30 ± 3 MPa			
	C) Embedment Depth	25mm			
	D) Fixture Thickness E) Edge Distance	7mm 50mm			
	F) Failure Modes	P = No sign of failure in pin and/or structural member F2 = Failure in structural member F4 = Failure of structural member in a shear cone F6 = Failure in structural member with crack radiates outward fr		F1 = Failure of pin or its accessories F3 = Pull out of pin F5 = Failure by continuous displacement or decreasing loa- rom pin	
		F7 = Other failure mode(s) : -			
	G) Loading Rate	Uniform rate with ultimate str	rength of the fastener is read	ched in no less than 30s.	
	H) Remarks:	Ambient Temperature:21.5°C			

Tested By:

* Information provided by customer

CHOI, Chung Lung



8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

: 2695 8318

Fax : 2695 3944

E-mail : etl@ets-testconsult.com Web site : www.ets-testconsult.com

TEST REPORT

Shear Load Test on X - C Pin

Customer

: Hilti (Hong Kong) Ltd

Address

: 17/F, Tower 6, China Hong Kong City,

33 Canton Road, Tsim Sha Tsui,

Kowloon, Hong Kong

Project:

: Direct Fastening Nail Testing

Test Location : ETL's Laborartory

Superseding test report no. FDA81371 Page 5 of 5

Report No. : FDA81371A

Test Date

: 11-Nov-08 Report Date : 14-Feb-09

: 5 of 5

Page No.

Test Method: In-house method based

on ASTM E1190

Test		1 - 4 0 50	Failure Modes		
Ref. No.	Failu	re Load (kN)	(see Note E)	* Type	Remarks
S1		5.50	F4		
S2		5.40	F4		
S3		5.80	F4		
S4		5.20	F4		
S5		6.00	F4		V 138 174 6. 307
S6		6.10	F4		
S7		5.80	F4		
S8		5.70	F4		
S9		5.50	F4		
S10		5.30	F4	X-C Pin	
S11		5.60	F4	(Spacing Distance=	
S12		5.40	F4	80mm)	125
S13		5.40	F4		
S14	A The Residence	5.20	F4		
S15		5.80	F4		E The Party Confession
S16		5.00	F4		
S17		5.60	F4		
S18		5.70	F4		
S19		5.50	F4		
S20		6.00	F4		
Maximum		(kN) :	6.10	to the state of th	
Vinimum		(kN) :	5.00		
Average Failu	re Load	(kN) :	5.58		
Standard Divis	ation	(kN) :	0.29		
Notes:	B) Concrete Strength C) Embedment Depth D) Fixture Thickness E) Edge Distance F) Failure Modes	Calibration Due Date: Load Cell Indicator: Load Cell: Comp. Load Calibration Due Date: Load Cell Indicator: Cylinder: Enerpac Hyd 30 ± 3 MPa 25mm 7mm 50mm P = No sign of failure in pin and F2 = Failure in structural memb	er -	Range: 0,1-5 /930/02/02) S/N: 100000 1/01) S/N: BS460 Range: 0,1-5	50kN 70260 7/0227183 50kN
	G) Loading Pete	F4 = Failure of structural member in a shear conc F5 = Failure by continuous displacement or decrea F6 = Failure in structural member with crack radiates outward from pin F7 = Other failure mode(s): -			ement or decreasing loa
	G) Loading Rate	Uniform rate with ultimate strength of the fastener is reached in no less than 30s.			
	H) Remarks:	Ambient Temperature:21,5°			

Tested By:

CHOI, Chung Lung



Labour Department
Occupational Safety and Health Branch
Occupational Safety and Health Training Centre

勞工處 職業安全及健康部 職業安全及健康訓練中心

2 0 JUN 2005

Your reference 來函編號:

Our reference 本處檔案編號: (31) in OSTC/BQP/COFT/4A

Tel. number 電話號碼: 2940 7067 Fax number 傳真機號碼: 2940 6251

> Mr Jackie SIU, Marketing Manager Hilti (Hong Kong) Limited 17/F, Tower 6 China Hong Kong City 33 Canton Road Tsim Sha Tsui Kowloon

Dear Mr SIU,

Approval of Cartridge-Operated Fixing Tool, Hilti Model DX 460

I refer to your application of 25 February 2004 for approval of a cartridge-operated fixing tool, namely Hilti Model DX 460 ("the tool").

I am pleased to inform you that the Commissioner for Labour has approved the tool. A copy of the Government Notice G.N. 2705 in the Gazette published on 10 June 2005 No. 23 Vol. 9 is enclosed for your reference.

Should you have any question, please contact our Occupational Safety Officer (Training) Mr. LING Kin-chiu at 2940 7054.

Yours sincerely,

(WONG Che Keung)

for Permanent Secretary for Economic Development and Labour (Labour)/ Commissioner for Labour

Encl.

68 Chung On Street 13/F, City Landmark I Tsuen Wan, NT

新界荃灣聚安街 68 號 荃灣城市中心一期 13 樓 第 2705 號公告

工廠及工業經營條例 (第59章)

工廠及工業經營(槍彈推動打釘工具)規例

現公布根據《工廠及工業經營(槍彈推動打釘工具)規例》第 19 條的規定,下列槍彈推動打釘工具已獲認可:

喜利得 DX 460 型

2005年6月10日

勞工處處長 (何鐵英代行)

G.N. 2705

FACTORIES AND INDUSTRIAL UNDERTAKINGS ORDINANCE (Chapter 59)

FACTORIES AND INDUSTRIAL UNDERTAKINGS (CARTRIDGE-OPERATED FIXING TOOLS) REGULATIONS

It is hereby notified that, under regulation 19 of the Factories and Industrial Undertakings (Cartridge-Operated Fixing Tools) Regulations, the following cartridge-operated fixing tool has been approved:—

Hilti Model DX 460

10 June 2005

HO Tit-ying for Commissioner for Labour



Labour Department

勞工處

職業安全及健康訓練中心

Occupational Safety and Health Training Centre

Your reference 來函編號: NIL

Our reference 本處檔案編號 : (20) in OSTC/EQP/COFT/3

By Fax (2764 3234) and By Post

Mr. Leo LEUNG, Marketing Manager, Hilti (Hong Kong) Limited, 17/F., Tower 6, China Hong Kong City, 33 Canton Road, Tsimshatsui, Kowloon.

1 2 APR 2001

Dear Sir,

()

Approval of Cartridge-Operated Fixing Tool namely Hilti Model DX 351

I refer to your application on 28.3.2000 for approval of a cartridge-operated fixing tools, namely Hilti Model DX351.

I am pleased to inform you that the Commissioner for Labour has approved the tools. A copy of the Government notice G.N. 5104 published in the Gazette No. 31 Vol. 4 on 4.8.2000 is enclosed for your reference.

Should you have any question, please contact me on 2940 7076.

Yours faithfully,

(MAN Chi-tak)

for Commissioner for Labour

13/F., City Landmark I, 68 Chung On Street, Tsuen Wan, N.T.

新界荃灣眾安街六十八號 荃灣城市中心一期 13 字樓 7895

第 5104 號公告

工廠及工業經營條例 (第 59 章)

工廠及工業經營(槍彈推動打釘工具)規例

現公布根據《工廠及工業經營(搶彈推動打釘工具)規例》第 19 條的規定,下列槍彈推動打釘工具己獲認可:

喜利得 DX 351 型

2000 年 8 月 4 日

勞工處處長 (曾健和代行)

May 2025

X-C P8 Concrete Nails Page 26 of 32

P.01

L. S. NO. 2 TO GAZETTE NO. 3/1987

L.N. 14/87

B47

L.N. 14 of 1987

FACTORIES AND INDUSTRIAL UNDERTAKINGS (CARTRIDGE-OPERATED FIXING FOOLS) REGULATIONS

(Chapter 59)

FACTORIES AND INDUSTRIAL UNDERTAKINGS (CARTRIDGE-OPERATED FIXING TOOLS) (AMENDMENT OF SCHEDULE) NOTICE 1987

Made under regulation, 19

L This notice may be cited as the Factories and Industrial Under-takings (Cartridge-Operated Fixing Tools) (Amendment of Schedule)

The Schedule to the principal regulations is amended by inserting Amendment of after item 27 the following-

"28. Hilti Model DX 36M".

Schedule. (Cap. 59, sub. leg.)

Made this 7th day of January 1987.

J. C. A. HAMMOND, Commissioner for Labour.

Explanatory Note

This notice adds Hilti Model DX 36M to the list of approved cartridge-operated fixing tools for use in construction work or other

工廠暨工業經營(彈藥推動打卸工具)規例 (香港法例第五十九章)

一九八七年工殿暨工業經營(彈藥推動打釘工具) (修訂附表)公告

註

本公告規定在核准彈模推動打釘工具名單內加列「Hilti Model DX 36M」— 項。這類工具用於建築工程或其他工業經營。



1. Importance messages: "Cartridge-operated Fixing Tools" (COFT) regulations from Labour Department

第59R章

工廠及工業經營(槍彈推動打釘工具)規例 - 擇要

釋義

"帕彈"(carlidge)指設計供工具用的能產生推進氣體的柏彈

"間接推動工具"(indirect-acting tool)

指推動力通過有限軸向運行的居間活塞始傳達至釘上的工 具:

"認可工具"(approved tool)

指處長根據第19條認可的任何工具、包括該工具的任何部分; (1988年第329號法律公告)

只可使用認可工具

季建商、東主及操作員的責任

除認可工具外,不得在工業經營中使用其他工具

检理

任何槍彈,除符合製造商就個別類型及個別式樣的工具而 定的規格者外,均不得在該工具的操作中使用。

釘

(1)任何的釘,除符合製造商就個別類型及個別式樣的工具 而定的規格者外,均不得在該工具的操作中使用。 (2)任何的釘,包括其幅及環,其尺寸領與工具的身管口徑 配合。

操作員須持有合資格證明書

(1)除持有合資格證明書的人外,其他人不得使用工具。 (2)合資格證明書的格式須經處長批准。

罪行及罰則

(1) 在任何建築地盤或任何其他工業經營內,如有違 反第4、5、6、7、8、9、10、11、12、13、14或16條的任 何條文之事,或就該建築地盤或工業經營有違反上述各條 的任何條文之事,則在該建築地盤從事建築工程的承建商 ,或該工業經營的東主,即屬犯罪,可處罰款\$50000。

(2)任何操作員違反第6、7、9(2)或(3)、11、13、14(2)或15條 的任何條文,即屬犯罪,可處罰款\$10000。

(3)任何人違反第17條的任何條交,即屬犯罪,可處罰款\$5 0000

Chapter 59 FACTORIES AND INDUSTRIAL UNDERTAKINGS ORDINANCE - ABSTRACT

Interpretation

"cartridge" (ਜ谷年) means a propellant gas producing cartridge designed for use in a tool;

"indirect-acting tool" (間接推動工具) means a tool in which the driving force is transmitted to the pin by means of an intervening piston with limited axial movement;

"approved tool" (認可工具) means a tool, including any part thereof, approved by the Commissioner under regulation 19; (L.N. 329 of 1988)

Only approved tools to be used

DUTIES OF CONTRACTORS, PROPRIETORS AND OPERATORS. No tool other than an approved tool shall be used in an industrial undertaking

Cartridges

No cartridges other than those which correspond to the manufacturer's specifications for the particular type and make of tool shall be used in the operation of that tool.

Pins

(1) No pins other than those which correspond to the manufacturer's specifications for the particular type and make of tool shall be used in the operation of that tool.

(2) Pins, including their caps or rings, shall be of a size in conformity with the bore of the barrel of the tool.

Operators to hold certificates of competency

(1) A tool shall not be used other than by a person who holds a certificate of competency.

(2) A certificate of competency shall be in a form approved by the Commissioner

Offences and penalties

9 The contractor engaged in construction work on a construction site or the proprietor of any other industrial undertaking in or in respect of which any of the provisions of regulation 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 or 16 is contravened commits an offence and is liable to a fine of \$50000. (2) An operator who contravenes any of the provisions of regulation 6, 7, 9(2) or (3), 11, 13, 14(2) or 15 commits an offence and is liable to a fine of \$10000.

(3) Any person who contravenes any of the provisions of regulation 17 commits an offence and is liable to a fine of \$50000.

Customer Hottine: Hong Kong 8228 8118 | Macau 00300 8228 8118 | Mon - Fri 8:30 am - 6:00 pm / Sat 8:30 am - 1:00 pm) | Fast Ordering, Prompt & Free Delivery



YOUR REF 來臨構裝: 729-519 OUR REF 本業稼餓3) in BD/GR/SEG/PPA(G) FAX 簡文申詢: 2626 1762 TEL 電話: 2626 1583

4 June, 1997

Hilti (Hong Kong) Limited 17/F, Tower 6, China Hong Kong City, 33 Canton Road, Tsimshatsui, Kowloon.

Attention: Mr. Denny Wu

Dear Sir,

Procedures for building materials submission

I refer to your letter dated 19 May, 1997 concerning the above.

- 2. Please be advised that there is no provision under the Buildings Ordinance for the Building Authority to approve any proprietary building products. Under the Buildings Ordinance, authorized persons and/or registered structural engineers are required to supervise building works including the selection and installation of proprietary building products and to certify compliance with the Buildings Ordinance upon completion of works. They are therefore responsible for ensuring the health and structural safety requirements, inter alia, of these building products in the building projects which they have been appointed by the developer to co-ordinate and supervise. It is also their responsibility to ensure these products have been installed in accordance with the manufacturers' specifications and complied with the Buildings Ordinance and Regulations.
- 3. In establishing the acceptability of the proprietary products in building works, reference may be made to the performance standards laid down in Building (Construction) Regulations 1990 and the current Practice Note for Authorized Persons and Registered Structural Engineers 140 in which performance requirements for compliance are given. Reliance may also be placed on the test/assessment report prepared by a recognized laboratory or an equivalent establishment.
- 4. Before the proprietary products are installed in a building project, the authorized person and/or registered structural engineer appointed for the project should be approached by the manufacturers or their agents for advice and guidance. Prior approval/acceptance from the Buildings Department is not required.
- 5. Generally, all relevant information supporting the use of the proprietary products in building works under the Buildings Ordinance should be submitted associated with the prescribed plans for approval on project basis.

/ Notwithstanding....

12/F-18/F Pinneer Centre, 750 Nathan Road, Mongkok, Kowloon, Hong Kong. 香港北瀬町角瀬牧道七直〇號始創中心十二接至十八株

X-C P8 Concrete Nails Page 29 of 32 May 2025



YOUR REF **短標鍵: 729-519 OUR REF **環境動) in BD/GR/SEG/PPA(G) FAX 國文內錄: 2626 1762 TEL 電話: 2626 1583

- 2.

- 6. Notwithstanding the above, the proprietary building products to which 'No objection' letters have been given are still recognized as accepted constructional materials to be used in building works under the Buildings Ordinance provided that all conditions specified in the letters are satisfied. You are informed that the procedures currently adopted by the Building Authority for processing statutory approval of plans which involve the use of these proprietary building products remain unchanged.
- 7. It is a fact that the 'No objection' letter giving general acceptance to a proprietary building product is based on the technical information submitted to this Department at the time of its application. Should there be any significant modification to these technical information, the product will certainly be considered as 'new' product. The acceptability of such proprietary product in building works should be evaluated by the authorized person and/or registered structural engineer appointed for the project as mentioned above.
- 8. Should you have any further queries to the above, please feel free to contact the undersigned or Mr. T.C. Kan of this office at phone no. 2626 1583.

Yours faithfully,

(K.S. Chang)
Technical Secretary/Structural
for Building Authority

tck/



Attn. : To whom it may concern

Date : 1 April 2025 Ref. : 093/DF/SC/25

Subject : Country of Origin- Hilti X-C Nails

Dear Sir / Madam,

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

Brand Name : Hilti

Model Name : Hilti X-C 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

Spencer C.



Hilti X-C P8 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
2024	HO MAN TIN STATION RES PACKAGE 1	MILLION HOPE INDUSTRIES LIMITED	Residential
2024	R6 CTL KLN ROUTE-CENTRAL TUNNEL HY/2018/08	BOUYGUES TRAVAUX PUBLICS	Infrastructure
2024	121-131 SHAU KEI WAN MAIN ST	SI-O ENGINEERING COMPANY LIMITED	Residential
2024	HKU, HIGH WEST - STUDENT HOSTEL	FORERUNNER SPECIALIST LIMITED	Residential
2024	NKIL 6593 (OPPOSITE TO KO CHIU RD /KO CHEUNG RD)	FORERUNNER SPECIALIST LIMITED	Residential
2024	456-466 SAI YEUNG CHOI ST NORTH, 50-56 WONG CHUK ST	UNIVERSAL ALUMINIUM ENGINEERING	Residential
2024	KAI TAK AREA 2B, SITE 2 - HOUSING & SHOPPING CENTRE	TAI WAH ALUMINIUM ENGINEERING	Residential
2024	11 CHUEN ON RD - ALICE HO MIU LING NETHERSOLE HOSPITAL	L FORERUNNER SPECIALIST LIMITED	Health
2025	YING TUNG RD, AREA 99 - PUBLIC HOUSING	YAU LEE CONSTRUCTION MATERIALS LTD	Residential
2025	135 TAI HANG RD, INLAND LOT 9076	FORERUNNER SPECIALIST LIMITED	Residential