



# Hilti X-CR Nails

## Submission Folder

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## Stainless steel nail X-CR

### APPLICATIONS

- Fastening in outdoor applications, directly or indirectly exposed to the weather

### ADVANTAGES

- Corrosion-resistant
- Suitable for universal use

### Technical data

Material	Equivalent to A4(316) stainless steel
For use with	DX 2, DX 5, DX 351

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## Stainless steel nail X-CR P8



Ordering designation	Fastener shank length	Fastener shank diameter	Sales pack quantity	Item number
X-CR 16 P8	16 mm	3.7 mm	100 pc	247356 <sup>1)</sup>
X-CR 21 P8	21 mm	3.7 mm	100 pc	247358
X-CR 24 P8	24 mm	3.7 mm	100 pc	247359 <sup>1)</sup>
X-CR 29 P8	29 mm	3.7 mm	100 pc	247360 <sup>1)</sup>
X-CR 34 P8	34 mm	3.7 mm	100 pc	247361 <sup>1)</sup>
X-CR 39 P8	39 mm	3.7 mm	100 pc	247362 <sup>1)</sup>
X-CR 44 P8	44 mm	3.7 mm	100 pc	247363 <sup>1)</sup>

<sup>1)</sup> 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

## Stainless steel nail with washer X-CR P8 S



Ordering designation	Fastener shank length	Fastener shank diameter	Washer diameter	Sales pack quantity	Item number
X-CR 21 P8 S23	21 mm	3.7 mm	23 mm	500 pc	3457801

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

## 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 block
- 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 station: LpA, 1s <sup>1)</sup>	101 dB (A)
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

<sup>1)</sup> 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










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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

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

## Accessories for DX 460 &amp; DX 5

Ordering designation		Sales pack quantity	Item number
Buffer X-5-460-B		1 pc	373330 <sup>1)</sup>
Fastener guide X-5-460-F10		1 pc	373319 <sup>1)</sup>
Fastener guide X-5-460-F8		1 pc	304529
Fastener guide X-5-460 F8GR		1 pc	386012 <sup>1)</sup>
Fastener guide X-5-460 F8N15		1 pc	304530 <sup>1)</sup>
Fastener guide X-5-460-F8S12		1 pc	373317 <sup>1)</sup>
Fastener guide X-5-460-F8SS		1 pc	373318 <sup>1)</sup>
Piston X-5-460-P10		1 pc	373300 <sup>1)</sup>
Piston X-5-460-P8		1 pc	373297
Piston X-5-460-P8W		1 pc	373298 <sup>1)</sup>
Piston X-5-460-PGR		1 pc	305448 <sup>1)</sup>
Protective cap X-SGF		1 pc	304416
Washer holder X-5-460-WH23/36 packed		1 pc	373331 <sup>1)</sup>
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

<sup>1)</sup> 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

## Powder-actuated tool DX 351



### APPLICATIONS

- Quick and convenient for fastening applications such as drywall track attachment, electrical, plumbing and HVAC installation work
- 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



Fleet Management

### 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, 1s <sup>1)</sup>	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

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



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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









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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

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

## Accessories for DX 351

Ordering designation		Sales pack quantity	Item number
Fastener guide X-FG8ME351		1 pc	362174 <sup>1)</sup>
Piston X-P8S-351 packed		1 pc	406929
Protective cap X-SGF		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

<sup>1)</sup> 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



# 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



Fleet Management



## 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 <sup>1)</sup>	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

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



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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












Order Now



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

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







## Accessories for DX 2

Ordering designation		Sales pack quantity	Item number
<b>Piston DX 2 kit</b> 1 x piston 2/DNI, 1 x spring clip DX 2		1 pc	2103082
<b>Spares pack DX 2 packed</b> 2x spring clip, 2x ball, 1x piston lock		1 pc	2094647
<b>Fastener guide X-2-F8 packed</b>		1 pc	2094644 <sup>1)</sup>
<b>Baseplate X-2-S packed</b>		1 pc	2094645 <sup>1)</sup>
<b>Piston guide DX 2 packed</b>		1 pc	2094646 <sup>1)</sup>
<b>Stabilizer plate X-2-STAB packed</b>		1 pc	2094648 <sup>1)</sup>
<b>Pole Tool X-PT 7ft for DX 2</b>		1 pc	3579451
<b>Receptacle X-PT 2</b>		1 pc	2094657
<b>Cleaning kit DX 2</b> 3x metal cleaning brush, 1x black cleaning cloth		1 pc	2097040

<sup>1)</sup> 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
<b>Pipe X-PT 1ft</b>		1 pc	254685
<b>Pipe X-PT 3ft</b>		1 pc	254684
<b>Grip section X-PT assy</b>		1 pc	254687
<b>Tool bag X-PT CT</b>		1 pc	388152
<b>Spray 66ml</b>		1 pc	308976
<b>Safety glasses PP EY-CA NCH clear</b>		1 pc	2065449 <sup>1)</sup>

<sup>1)</sup> 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

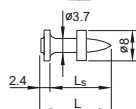


# X-CR Stainless steel nail for fastening to steel

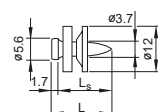
## Product data

### Dimensions

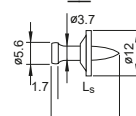
X-CR \_\_ P8



X-CR 14 D12



X-CR \_\_ S12



### Material specifications

Nail shank:	CR-500 (CrNiMo alloy) $f_u \geq 1800 \text{ N/mm}^2$
Steel washers:	X2CrNiMo 18143
Plastic washers:	polyethylene

### Recommended fastening tools

DX 6 F8, DX 5 F8, DX 460 F8, DX 450

- See fastener program in the next pages.
- For more details, please refer to the chapter **Accessories and consumables compatibility** in the Direct Fastening Technology Manual (DFTM).

## Approvals

DIBt (Germany):

X-CR 14 P8

fastening of glas facades with DX 450 (125%)

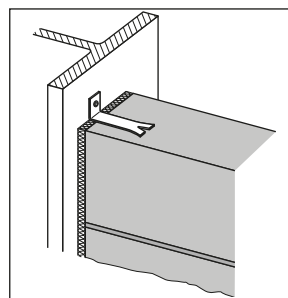
ABS, LR:

all types

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

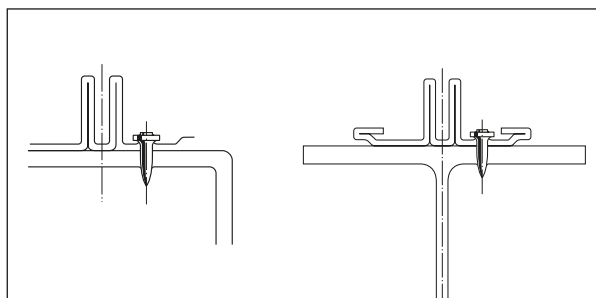
## Applications

### Examples



Wall ties

04/2021 L



Fastening of glass facades

www.hilti.group

## Performance data

### Recommended resistance under tension and shear load

#### Steel sheet fastening

Carbon steel sheet,  $f_u \geq 370 \text{ N/mm}^2$

Aluminium sheet,  $f_u \geq 210 \text{ N/mm}^2$

	X-CR __ P8		X-CR __ D12/S12			X-CR __ P8		X-CR __ D12/S12	
$t_f$ [mm]	$N_{rec}$ [kN]	$V_{rec}$ [kN]	$N_{rec}$ [kN]	$V_{rec}$ [kN]	$t_f$ [mm]	$N_{rec}$ [kN]	$V_{rec}$ [kN]	$N_{rec}$ [kN]	$V_{rec}$ [kN]
0.75	1.0	1.1	1.4	1.1	0.8	0.4	0.4	0.6	0.4
1.00	1.2	1.4	1.6	1.4	1.0	0.6	0.6	0.8	0.6
1.25	1.5	1.7	1.8	1.7	1.2	0.8	0.9	1.1	0.9
2.00	2.2	2.0	2.2	2.0	1.5	1.1	1.4	1.6	1.4
					2.0	1.6	1.7	1.9	1.7

- Recommended working loads valid for fastened materials as shown above.
- For intermediate sheet thicknesses, use recommended load for next smaller thickness.
- For stainless steel sheet, use same loads as for carbon steel sheet.
- Recommended loads include an overall safety factor applied to the characteristic strength.  
Static test:  $N_{rec} = N_{test,k} / 3.0$   $V_{rec} = V_{test,k} / 3.0$
- These recommended loads are appropriate for Eurocode 1 (or similar) wind loading designs.

#### Other applications\*

X-CR \_\_ P8 / X-CR 14 D12 / X-CR \_\_ S12

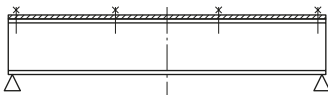
	X-CR __ P8	
$N_{rec}$ [kN]	$V_{rec}$ [kN]	$M_{rec}$ [Nm]
1.6	2.0	3.8

\* Fastened parts: thicker steel components (clips, brackets, etc.)

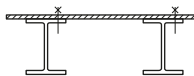
- Failure of fastened material is not considered in  $N_{rec}$  and  $V_{rec}$ .
- Loads valid for predominantly static loading.

#### Forces of constraint

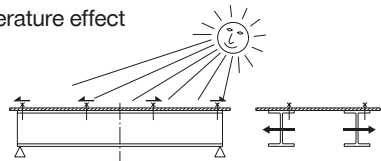
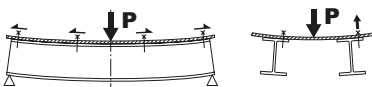
When fastening large pieces of steel or aluminium, the possibility of shear loadings from forces of constraint should be considered in the fastening design. Either allow for movement or avoid exceeding  $V_{rec}$ !



Deflection due to primary loading



Temperature effect



## Application recommendation

### Base material thickness

DX 450:  $t_{II} \geq 5.0 \text{ mm}$  <sup>1)</sup>

DX 6 F8, DX 5 F8, DX 460 F8:  $t_{II} \geq 6.0 \text{ mm}$

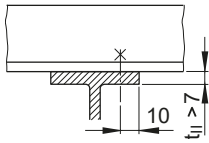
<sup>1)</sup>  $t_{II} \geq 4 \text{ mm}$  possible for specific types of hollow sections

### Fastened material thickness

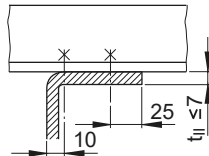
$t_1 \leq 12.0 \text{ mm}$  (details see fastener selection)

### Spacing and edge distances (mm)

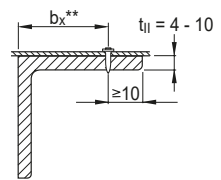
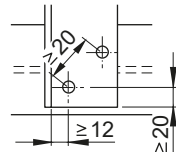
#### Rolled shapes



#### Cold formed shapes



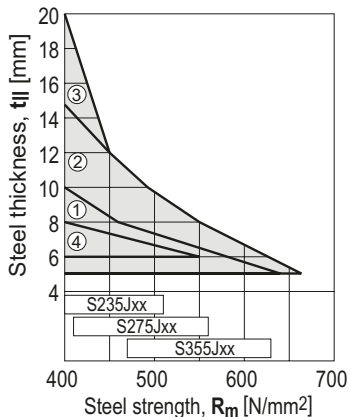
#### Fastened material



\*\* max. allowable  $b_x \leq 8 \times t_{II}$  (however, jobsite trails advisable)

## Application limits

DX 6 F8, DX 5 F8, DX 460 F8, DX 450



- ① X-CR16 ( $t_1 \leq 3 \text{ mm}$ ) with DX 450 tool
- ② X-CR14 ( $t_1 \leq 2 \text{ mm}$ ) with DX 450 tool
- ③ X-CR14 ( $t_1 \leq 1 \text{ mm}$ ) with DX 450 tool
- ④ X-CR14 ( $t_1 \leq 1 \text{ mm}$ ) with DX 6, DX 5, DX 460 tool

DX 450: Steel thickness  $t_{II} \geq 5 \text{ mm}$

DX 6 F8, DX 5 F8, DX 460 F8:

Steel thickness  $t_{II} \geq 6 \text{ mm}$

## Corrosion information



- For fastenings exposed to weather or other corrosive conditions.
- Not for use in highly corrosive surroundings like swimming pools or highway tunnels.
- 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

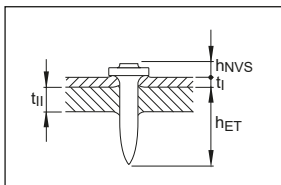
Base material		Cartridge color (tool power level)		
		Tool type: DX 6 F8	Tool type: DX 5 F8, DX 460 F8	Tool type: DX 450
		Cartridge type: 6.8/11 M	Cartridge type: 6.8/11 M	Cartridge type: 6.8/18 M
S235 to S355	$5 \leq t_{II} < 6$ mm			yellow ■ (1-3)
	$6 \leq t_{II} \leq 8$ mm	titanium ■ (6-8), black ■ (7-8)	red ■	red ■ (2-3)
	$8 \leq t_{II} \leq 22$ mm			red ■ (2.5-3)

- Tool power level adjustment by setting tests on site.
- Start tool energy selection with lowest recommended tool power level.
- Correct according requirement from chapter quality assurance.

## Quality assurance

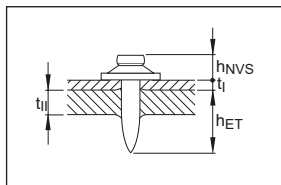
### Fastening inspection

X-CR\_\_ P8



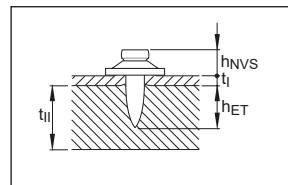
$h_{NVS} = 3.0-4.5$  mm

X-CR 14 D12



$h_{NVS} = 4-5$  mm

X-CR\_\_ S12



$h_{NVS} = 4-5$  mm

## Fastener program

### Fastening of steel sheets

Fixed material thickness $t_f$ [mm]			Fastener Designation	Item no.	$L_s$ [mm]	$h_{ET}$ [mm]	Tool
$\leq 1$	2	3					
		■	X-CR 16 P8	247356	16	$\geq 9$	DX 6 F8, DX 5 F8, DX 460 F8, DX 450
■			X-CR 14 D12	244601	14	$\geq 9$	DX 450
	■	■	X-CR 16 S12	298855	16	$\geq 9$	DX 450

### Fastening of wood or soft material

Fixed material thickness $t_f$ [mm]						Fastener Designation	Item no.	$L_s$ [mm]	$h_{ET}$ [mm]	Tool
$\leq 4$	5	6	8	9	11					
	■	■				X-CR 18 P8	247357	18	$\geq 9$	DX 6 F8, DX 5 F8, DX 460 F8, DX 450
			■	■		X-CR 21 P8	247358	21	$\geq 9$	DX 6 F8, DX 5 F8, DX 460 F8, DX 450
■	■					X-CR 18 S12	298856	18	$\geq 9$	DX 450
		■	■			X-CR 21 S12	298857	21	$\geq 9$	DX 450
				■	■	X-CR 24 S12	298858	24	$\geq 9$	DX 450

■ = recommended thickness  $L_s = h_{ET} + t_f$  for X-CR \_\_P8  
 $L_s = h_{ET} + t_f + 1$  for X-CR \_\_D12/S12



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

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

20 JUN 2005

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.



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

## 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 - 摘要

##### 釋義

"槍彈"(cartridge)指設計供工具用的能產生推進氣體的槍彈；

"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

承建商、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

##### 槍彈

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，包括其帽及環，其尺寸須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條的任何條文，即屬犯罪，可處罰款\$50000。

### Chapter 59 FACTORIES AND INDUSTRIAL UNDERTAKINGS ORDINANCE - ABSTRACT

#### Interpretation

"cartridge" (槍彈) 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.

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

4 June, 1997

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....

- 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. : 095/DF/SC/25

Subject : Country of Origin- Hilti X-CR Nails

Dear Sir / Madam,

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

Brand Name : Hilti

Model Name : Hilti X-CR 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](mailto:hksales@hilti.com).

Yours faithfully,



Spencer Cheung  
Head of Product Leadership Strategy

May 2025