

Hilti X-GN Nails

Submission Folder

Sample Submission and Approval Form	2'-3
Product Information	4'-%%
Technical Information	%&'-1*
Government Letter Building Department	1+'-1,
Country of Origin	1-
Job Reference	&\$'-&1

Customer Hotline

Hong Kong 8228 8118

Macau (Toll free) 00800- 8228 8118

Website

www.hilti.com.hk

SAMPLE SUBMISSION AND APPROVAL FORM

Contract Title: _____	Ref. No.: _____
	Date: _____
	Ref. No. of Previous Submission: _____
Contract No: _____	(1) _____
File Reference: _____	(2) _____

DETAILS OF SUBMISSION

To: Contract Manager's Representative Attention: _____
From: _____

The enclosed sample and catalogue* I certificate of origin* I technical data* I test report* 1 job reference* as described below have been checked for compliance with the Specifications and Drawings, and are submitted for approval.

1. **General Information**
 - a. Material Description X-GN nail
 - b. Location: _____

 - c. Specification Ref. Page: _____ Item: _____

 - d. Drawing Ref. No. _____

 - e. B.Q. Ref.No.: _____

 - f. Anticipated date of approval: _____

2. **Technical Information**

The submitted sample has been checked against the specification and drawings as listed below:-

Specification Requirements	Submitted Sample (State details against each item)
a. Brand Not specified	Hilti
b. Country of Origin Not specified	China
c. Manufacturer's Name & Address Not specified	Hilti (China Zhangjiang) Co
d. Factory's Name & Address(es) Not specified	Yongping Road South, Zhangjiang Development Zone, 524022 Zhangjiang, Guangdong Province, China
e. Supplier (with Applicator, if any) Not specified	Hilti (Hong Kong) Ltd

f.	Appearance Not specified	According to the sample submitted
g.	Color + Not specified	NIL
h.	Specification Not specified	Attached
i.	Manufacturer's Catalogue Not specified	Attached
j.	Test Report (Original/Certificated True Copy) Not specified	Attached
k.	Previous Job Reference Not specified	Attached
l.	Supplementary Information Not specified	NIL

For and on behalf of the Contractor

(Quality Control Manager)

CONTRACT MANAGER'S COMMENTS	
To:	
From:	Contract Manager's Representative: _____
On the basis of the sample and information given, the above sample submitted is:	
(1) *	Approved.
(2) *	Not approved because _____
Remarks: _____	

Approval does not alter the requirements of the Contract	
Contract Manager's Representative: _____	

Date: _____	

CC. _____

(* Delete if appropriate)
(+ For glass or vitreous mosaic tiles, the contractor is required to confirm the colour range(s) of the submitted sample, i.e. a) light and or medium; or b) dark)

Gas-driven fastening system GX 120

Step on the gas



Applications

- Versatile fastening tool for the drywall installation trade-no battery to charge
- Fastening to concrete, plastered masonry, sand-lime block, concrete block and steel

Advantages

- Ruggedly built, perfectly balanced, lightweight and reliable, high-performance fastening
- Gas-driven system-for complete independence from electric supplies and no need to ever charge batteries
- World's first ever gas gauge indicates how much gas is left at any time-avoids running out of gas unexpectedly
- Slim, streamlined design for easy access even in tight corners and narrow tracks
- Ergonomically designed, air-cushioned grip zone for high working comfort
- More efficient due to gas capacity of 750 fastenings and 40-nail magazine
- Easily adjustable tool nose with one level for optimum fastening quality
- Excellent performance at very low temperatures

Technical data

GX 120	
Fastenings per hour	1200
Power source	Gas can for 750 nails (supplied with the nails)
Power	96 J
Pin range	14 mm to 39 mm
Magazine capacity	40 nails (+3)
Weight	3.8 kg
Dimensions (L x W x H)	431 x 134 x 392 mm














HILTI LIFETIME SERVICE	2 Years NO COSTS	HILTI FLEET MANAGEMENT
Lifetime REPAIR COST LIMIT	Lifetime MANUFACTURERS WARRANTY	

Ordering

Order designation	Package content	Item No.
GX 120 gas-driven fastening tool with 40-nail magazine	Supplied in an impact-resistant plastic toolbox with attachable support leg, tool support, nail punch set, ear protectors, safety glasses, cleaning cloth and operating instruction manual.	00274638

Accessories

Order designation		GX 120	Item No.
GX-120 tool case Type 39		■	00274005 ★
GX 120 tool nose X-120 TN		■	00039535 ★
GX 120 plug holder (Platon) X-120 PHP		■	00039540 ★
GX 120 plug holder (Delta) X-120 PHD		■	00039545 ★
GX 120 washer holder X-120 WH		■	00039619
GX 120 nail punch set X-120 NP set		■	00039552 ★
GX 120 tool support X-120 TS		■	00039548 ★
GX 120 40 nail magazine X-120 GM 40		■	00039546 ★
GX 120 20 nail magazine X-120 GM 20		■	00388798 ★
GX 120 support leg X-120 SL		■	00039550 ★
R 23.5 (0.8 mm) washer		■	03437589

6

Fastener and gas can combo program



Package content: 750 pins and 1 gas can GC 21

Nail length (mm)	Suitable base materials	Order designation	Item no.
14	Steel	X-EGN 14MX Combo	03445241
18	Hard concrete	X-GHP 18MX Combo	03445283
20	Hard concrete	X-GHP 20MX Combo	03471501
20	Concrete, block, masonry	X-GN 20MX Combo	03445284
27	Concrete, block, masonry	X-GN 27MX Combo	03445393
32	Concrete, block, masonry	X-GN 32MX Combo	03445396
39	Concrete, block, masonry	X-GN 39MX Combo	03445397



Package content: 750 pins, 750 R23.5(0.8mm) washer and 1 gas can GC 21

Washer holder X-120 WH is required to hold the washer

Nail length (mm)	Suitable base materials	Order designation	Item no.
20	Concrete, block, masonry	X-GN 20MX Mesh Combo	03465383
20	Hard concrete	X-GHP 20MX Mesh Combo	03472765



Gas can pack

Description	Package content	Order designation	Item no.
Gas can for 750 fastenings	1 gas can, 1 valve head	GC21	00038865 ★

	Brick plastered masonry	Sand lime stone	Concrete block	Standard concrete	Hard / precasted concrete	Steel
X-EGN steel nail Length: 14 mm						●
Special X-GHP nail Length: 18, 20 mm				●	●	
Special X-GN nail Length: 20, 27, 32, 39 mm	●	●	●	●		

GX 100 GAS System Fastener and gas can combo program

Package content: 750 pins (in strips of 10), 1 gas can, 1 valve head

Nail length (mm)	Suitable base materials	Order designation	Item no.
14	Steel	X-EGN 14MX Combo	03440232
18	Hard concrete	X-GHP 18MX Combo	03440403
20	Concrete, block, sand limestone	X-GN 20MX Combo	03440404
27	Concrete, block, sand limestone	X-GN 27MX Combo	03440405
32	Concrete, block, sand limestone	X-GN 32MX Combo	03440406
39	Concrete, block, sand limestone	X-GN 39MX Combo	03440407

Mesh Nail combo program



Package content: 750 pins, 750 R23.5 (0.8mm) washer and 1 gas can GC 11






Nail length (mm)	Suitable base materials	Order designation	Item no.
20	Concrete, block, masonry	X-GN 20 MX Mesh Combo	03440410



Gas can pack

Description	Package content	Order designation	Item no.
Gas can for 750 fastenings	1 gas can, 1 valve head	GC11	00387624 ★

Accessories

		GX 100	
Order designation			Item No.
40 nail magazine X-GM40		■	00378586 ★
Support leg Attachable for better tool stability X-100 SL		■	00378587 ★
Tool nose X-100 TN		■	00378588 ★
Washer holder X-WH 100 m		■	00284483 ★
R 36 (0.6 mm) washer (pack of 500) R 36 0.6		■	00284534 ★

Gas-driven fastening system GX 120-ME

Easy to use and dependable



Applications

- Fastening jobs of many kinds in the electrical and mechanical trades
- Fastening to concrete, plastered masonry, sand-lime block, concrete block and steel

Advantages

- Ruggedly built, perfectly balanced, lightweight and reliable, high-performance fastening tool
- First ever gas gauge-no surprise due to empty gas can
- Gas-driven-system-for complete independence from electric supplies. No battery to charge
- Slim, streamlined design for optimum accessibility
- Trouble-free starting, even at temperatures below freezing

Technical data

GX 120-ME	
Power source	Gas can for 750 nails (supplied with the nails)
Contact pressure	120 N
Length	431 mm
Magazine capacity	20 nails
Weight	3.8 kg











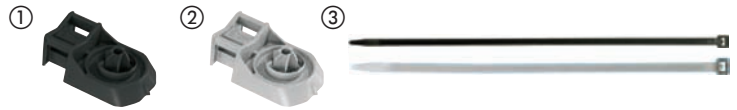
HILTI LIFETIME SERVICE	2 Years NO COSTS	HILTI FLEET MANAGEMENT
Lifetime REPAIR COST LIMIT	Lifetime MANUFACTURERS WARRANTY	

Ordering

Order designation	Package content	Item No.
GX 120-ME gas actuated tool kit	GX 120-ME tool in an impact-resistant plastic toolbox with attachable support leg, nail punch set, tool support, ear plugs, safety glasses, cleaning cloth and operating instruction manual.	00274898 ★

Accessories

Order designation	GX 120-ME	Item No.
GX 120-ME tool case Type 39		■ 00274005 ★
GX 120-ME tool nose X-120-ME TN		■ 00039536
GX 120-ME magnetic washer holder X-120 WH		■ 00039619
GX 120-ME nail punch set X-NP set		■ 00039552 ★
GX 120-ME tool support X-120 TS		■ 00039548 ★
GX 120-ME 40 nail magazine X-120 GM 40		■ 00039546 ★
GX 120-ME 20 nail magazine X-120 GM 20		■ 00388798 ★
GX 120-ME support leg X-120 SL		■ 0039550 ★



Cable tie fastener

Description	Max wide (mm)	Package content	Ordering designation	Item no.
Cable tie fastener 100X-ECT UV MX	9	100	X-ECT UV MX	① 00285710 ★
Cable tie fastener 100X-ECT FR MX	9	100	X-ECT FR MX	② 00285711 ★
Cable tie fastener X-ECT...			X-ECT...	③ 00000000 ★

Cable clamps



Permits simple cable retrofitting and tightening

Description	Tankage cable Ø 6 (mm)	Tankage cable Ø 8 (mm)	Package content	Order designation	Item no.
Cable clamps	4	2	100	X-EKB 4 MX	00285712
Cable clamps	8	5	100	X-EKB 8 MX	00285713 ★
Cable clamps	16	10	50	X-EKB 16 MX	00285714 ★
Cable clamps	4	2	100	X-EKB FR 4 MX	00285715 ★
Cable clamps	8	5	100	X-EKB FR 8 MX	00285716 ★
Cable clamps	16	10	50	X-EKB FR 16 MX	00285717 ★

Universal washer for trunking and junction boxes



Innovative fastener design prevents cracked trunking and junction boxes.

Description	Package content	Order designation	Item no.
Universal washer	250	X-ET MX	00285718

Snap-in conduit clip



Fasten closed clip on: simple and clean fastening solution for metric electrical pipes with Ø 16 - 40 mm.

Description	Pie Ø (mm)	Package content	Order designation	Item no.
Snap-in conduit clip	16	100	X-EKS 16 MX	00285719
Snap-in conduit clip	20	100	X-EKS 20 MX	00285720
Snap-in conduit clip	25	100	X-EKS 25 MX	00285721
Snap-in conduit clip	32	100	X-EKS 32 MX	00285722
Snap-in conduit clip	40	100	X-EKS 40 MX	00285723 ★

Closed snap-in conduit clip



Description	Pie Ø (mm)	Package content	Order designation	Item no.
Closed Snap-in conduit clip	16	100	X-EKSC 16 MX	00274083 ★
Closed Snap-in conduit clip	20	100	X-EKSC 20 MX	00274086 ★
Closed Snap-in conduit clip	25	100	X-EKSC 25 MX	00274087 ★

Metal conduit clip



Bracing rib guarantees high stability and excellent holding power

Description	Pie Ø (mm)	Package content	Order designation	Item no.
Metal conduit clip	7-8	100	X-FB 8 MX	00286797 ★
Metal conduit clip	10-11	100	X-FB 11 MX	00286798 ★
Metal conduit clip	15-16	100	X-FB 16 MX	00286799
Metal conduit clip	19-20	100	X-FB 20 MX	00286800
Metal conduit clip	21-22	100	X-FB 22 MX	00286801 ★
Metal conduit clip	24-25	100	X-FB 25 MX	00286802
Metal conduit clip	27-28	100	X-FB 28 MX	00286803 ★
Metal conduit clip	31-32	100	X-FB 32 MX	00286804
Metal conduit clip	39-40	100	X-FB 40 MX	00286805 ★

Double metal conduit clip



Description	Pie. Ø (mm)	Package content	Order designation	Item no.
Double metal conduit clip	15-16	100	X-DFB 16 MX	00273383 ★
Double metal conduit clip	19-20	100	X-DFB 20 MX	00273384 ★
Double metal conduit clip	21-22	100	X-DFB 22 MX	00273385 ★
Double metal conduit clip	24-25	100	X-DFB 25 MX	00273386 ★
Double metal conduit clip	27-28	100	X-DFB 28 MX	00273387 ★

Threaded rod hanger



Description	Package content	Order designation	Item no.
Threaded rod hanger	100	X-HS M4 MX	00273367 ★
Threaded rod hanger	100	X-HS M6 MX	00272073 ★
Threaded rod hanger	100	X-HS M8 MX	00273368

Ceiling clip



Description	Package content	Order designation	Item no.
Ceiling clip	100	X-CC MX	00228342

Stand off metal conduit clip



Description	Package content	Order designation	Item no.
Stand off metal conduit clip	200	X-EMTC 1/2" MX	00228335 ★
Stand off metal conduit clip	200	X-EMTC 3/4" MX	00228336 ★
Stand off metal conduit clip	200	X-EMTC 1" MX	00228337 ★
Stand off metal conduit clip	100	X-EMTC 1/2" MX	00228338 ★
Stand off metal conduit clip	100	X-EMTC 3/4" MX	00228339 ★
Stand off metal conduit clip	100	X-EMTC 1" MX	00228340 ★

Fastener and gas can combo program



Package content: 750 pins and 1 gas can GC 21

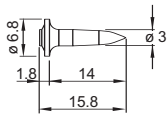
Nail length (mm)	Suitable base materials	Order designation	Item no.
14	Steel	X-EGN 14MX Combo	03445241
18	Hard concrete	X-GHP 18MX Combo	03445283
20	Hard concrete	X-GHP 20MX Combo	03471501
20	Concrete, block, masonry	X-GN 20MX Combo	03445284
27	Concrete, block, masonry	X-GN 27MX Combo	03445393
32	Concrete, block, masonry	X-GN 32MX Combo	03445396
39	Concrete, block, masonry	X-GN 39MX Combo	03445397

GX Drywall Fasteners X-EGN, X-GPH, X-GN

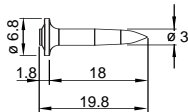
Product data

Dimensions

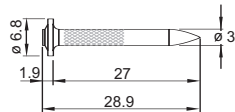
X-EGN 14



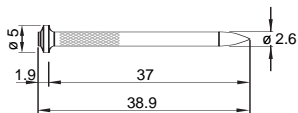
X-GHP 18



X-GN 20/27/32



X-GN 39



General information

Material specification

Carbon steel shank:	X-EGN	HRC 58
	X-GPH	HRC 58
	X-GN	HRC 53.5

Zinc coating: 2–8 μm

Fastening tool

GX 120, GX 120-ME

GX 100, GX 100 E

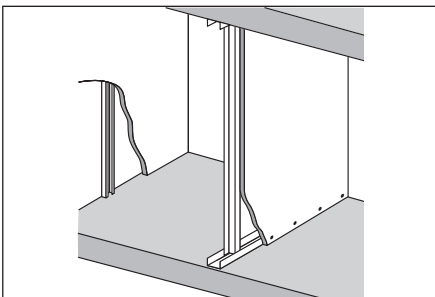
Approvals

ICC (USA): **X-GN 20/27/32, X-EGN 14**

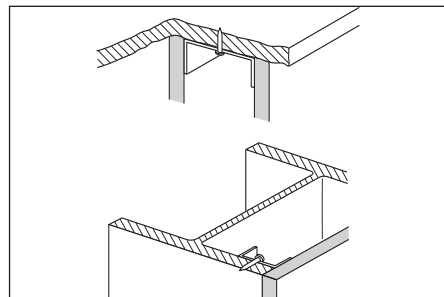
Note: Technical data presented in these approvals and design guidelines reflect specific local conditions and may differ from those published in this handbook.

Applications

Examples



Drywall tracks to concrete

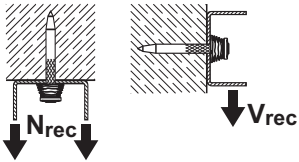


Drywall tracks to steel

Load data

Design data

Recommended loads



Concrete

$N_{rec} = V_{rec} = 400 \text{ N}$ for $h_{ET} \geq 27 \text{ mm}$
 300 N for $h_{ET} \geq 22 \text{ mm}$
 200 N for $h_{ET} \geq 18 \text{ mm}$
 100 N for $h_{ET} \geq 14 \text{ mm}$

Steel

$N_{rec} = V_{rec} = 400 \text{ N}$

Design conditions:

- Minimum 5 fastenings per fastened unit
- All visible failures must be replaced

Test data

Important note: Test data are for information only and can't be used for design. These data are examples and not representing the whole range of applications and load cases.

Design data for Hilti standard nails in concrete are based on a specific statistical evaluation method taken into consideration high variation coefficients. The evaluation procedure is described within section **Direct Fastening Technology** of this manual. For more detailed information please contact Hilti.

Load capacity of the nails:

Fastenings to concrete

Nail	Average Tensile failure load $N_{u,m}$ [kN]	Scatter %	Embedment depth h_{ET} [mm]	Concrete strength f_{cc} [N/mm ²]
X-GHP 20 MX	1.61	52.0	14.0	52.2
X-GN 27 MX	1.91	47.1	19.2	23.7

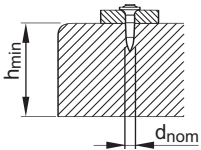
Fastenings to steel

Nail	Average Tensile failure load $N_{u,m}$ [kN]	Scatter %	Embedment depth h_{ET} [mm]	Steel thickness t_{II} [mm]	Steel strength f_u [N/mm ²]
X-EGN 14 MX	3.62	13.7	8.6	6	543

Application requirements

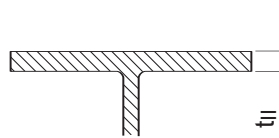
Thickness of base material

Concrete



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

Steel



$t_{II} \geq 4 \text{ mm}$

Thickness of fastened material

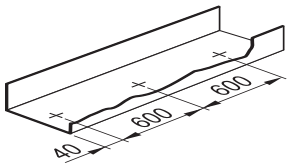
Wooden track: $t_I \leq 24 \text{ mm}$

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

Spacing and edge distances (mm)

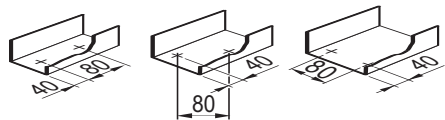
Spacing along track

(per U.S. Gypsum Handbook)

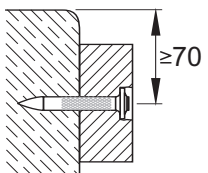


All track ends (cut-outs for doors),

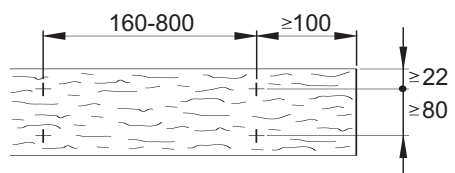
secure with 2 nails



Distance to edge of concrete /
sand lime masonry



Fastener spacings on wood:



Corrosion information

The intended use only comprises fastenings which are not directly exposed to external weather conditions or moist atmospheres. For further detailed information on corrosion see corresponding chapter in section **Direct Fastening Technology**.

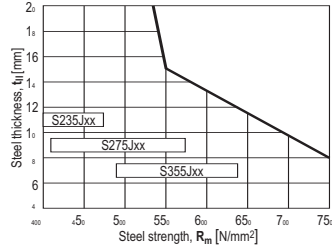
Recommended setting range

Concrete

No general restrictions existent.
Limitations are depending on application
and user requirements.

Working beyond the recommended
application range will lead to an increase of
the failure rate.

Steel



X-EGN 14

Fastener selection and system recommendation

Fastener selection

Fastening to concrete / sand lime masonry

	Application	Base material	 Increasing strength
X-GN 39	Wooden track ($t_f \leq 24$ mm)	Concrete/sand lime masonry	
X-GN 27	Metal track	Concrete/sand lime masonry	
X-GN 20	Metal track	Concrete/sand lime masonry	
X-GHP	Metal track	Concrete/sand lime masonry	

Fastening to steel

	Application
X-EGN 14	Metal track

System recommendation

	Item no.	L_s [mm]	L [mm]	d_{nom} [mm]
X-EGN 14 MX	340231	14	15.8	3.0
X-GHP 18 MX	340228	18	19.8	3.0
X-GN 20 MX	340232	19	20.9	3.0
X-GN 27 MX	340230	27	28.9	3.0
X-GN 32 MX	340233	32	33.9	3.0
X-GN 39 MX	340234	37	38.9	2.6

Tool and gas can

Designation

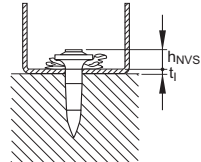
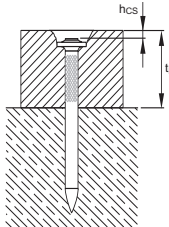
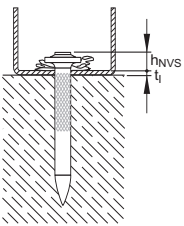
GX 120 / GX 120 ME	with gas can GC 22
GX 100 / GX 100 E	with gas can GC 11 and GC 12(for USA)

Fastening quality assurance

Fastening inspection

Fastening to concrete / sand lime masonry

Fastening to steel



X-GN/GHP: $h_{NVS} = 2-5$ mm

X-GN 39: $h_{NVS} = 2-3$ mm

X-EGN 14: $h_{NVS} = 4-7$ mm

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/



Attention: To whom it may concern

Date: 17 May 2010
Ref: 006/DX/AL/10

Subject: Hilti X-GN / X-EGN / X-GHP nails and GC21 / GC11 Gas Can

Dear Sir / Madam,

Enclosed please find the information of Hilti X-GN / X-EGN / X-GHP nails and GC21 / GC11 Gas Can.

Brand: Hilti
Model: X-GN / X-EGN / X-GHP nails and GC21 / GC11 Gas Can
Manufacturer: Hilti Corporation
Address of Manufacturer: FL-9494, Principality of Liechtenstein
Supplier: Hilti (Hong Kong) Ltd.
Address of Supplier: 701-704, 7/F, Tower A, Manulife Financial Center, 223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Product	Country of Origin	Name of Factory	Address of Factory
X-GN Nail	China	Hilti (China Zhangjiang) Co	Yongping Road South, Zhangjiang Development Zone, 524022 Zhangjiang, Guangdong Province, China
X-EGN / X-GHP Nail	Liechtenstein	Hilti Corporation	FL-9494, Principality of Liechtenstein
GC 21 / GC11 Gas Can	Germany	MoTip Dupli GmbH	Industriestrae 19, 74855 Hamersheim, Germany

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

Yours sincerely,

Alan Lee
Product Manager

喜利得(香港)有限公司
Hilti (Hong Kong) Limited
701-704 | 7/F | Tower A
Manulife Financial Centre | 223 Wai Yip Street
Kwun Tong | Kowloon | Hong Kong
T +852 8228 8118 | F +852 2954 1751
www.hilti.com.hk

Job/Application Reference

28-Mar-11



<u>Ref No</u>	<u>Date</u>	<u>Project</u>	<u>Contractor</u>	<u>Consulting Engineer</u>	<u>Product</u>	<u>Application</u>
40835	09-10	Shangri-la and Traders HotelsSheraton and St. Regis Hotels (Parcel 5&6)	COMPANHIA DE MATERIAIS DE		Gas nail X-GN 20 MX	chicken mesh fixing
40878	09-10	Shangri-la and Traders HotelsSheraton and St. Regis Hotels (Parcel 5&6)	SITU-MINSANG ENGINEERING LTD		Gas nail X-GN 20 MX	channel fixing for drywall
40588	09-10	Shangri-la and Traders HotelsSheraton and St. Regis Hotels (Parcel 5&6)	Gammon Bldg Constr Ltd	(Macau)	Gas nail X-GN 20 MX	chicken mesh fixing
40595	09-10	Shangri-la and Traders HotelsSheraton and St. Regis Hotels (Parcel 5&6)	Gammon Bldg Constr Ltd	(Macau)	Gas nail X-GN 20 MX	chicken mesh fixing
40766	09-10	Galaxy Mega Resort	ROMA INTERNATIONAL ENGINEERING LTD		Gas nail X-GN 27 MX	channel fixing for drywall
40305	09-10	Lohas Park Phase 1 & Phase 2	WING YIP CEILING ENG CO		Gas nail X-GN 20 MX	fixing on gypsum panel
40822	09-10	Shangri-la and Traders HotelsSheraton and St. Regis Hotels (Parcel 5&6)	CIRCLE ENGINEERING COMPANY LTD		Gas nail X-GN 20 MX	chicken mesh fixing
40836	09-10	Shangri-la and Traders HotelsSheraton and St. Regis Hotels (Parcel 5&6)	COMPANHIA DE MATERIAIS DE		Gas nail X-GN 39 MX	chicken mesh fixing
40841	09-10	Shangri-la and Traders HotelsSheraton and St. Regis Hotels (Parcel 5&6)	CONSTRUCOES E OBRAS PUBLICAS		Gas nail X-GN 20 MX	channel fixing for drywall
40773	09-10	Galaxy Mega Resort	SHING TAI HONG ENGINEERING LIMITED		Gas nail X-GN 20 MX	chicken mesh fixing
40229	06-10	Galaxy Mega Resort	COMPANHIA DE ENGENHARIA KIN HOO		Gas nail X-GN 27 MX	chicken mesh fixing
40223	06-10	Galaxy Mega Resort	BOYA DECORATION AND ENGINEERING		Gas nail X-GN 20 MX	channel fixing for drywall
40224	06-10	Galaxy Mega Resort	BOYA DECORATION AND ENGINEERING		Gas nail X-GN 27 MX	channel fixing for drywall

Job/Application Reference

28-Mar-11



<u>Ref No</u>	<u>Date</u>	<u>Project</u>	<u>Contractor</u>	<u>Consulting Engineer</u>	<u>Product</u>	<u>Application</u>
40239	06-10	Galaxy Mega Resort	ROMA INTERNATIONAL ENGINEERING LTD		Gas nail X-GN 20 MX	channel fixing for drywall
40228	06-10	Galaxy Mega Resort	COMPANHIA DE ENGENHARIA KIN HOO		Gas nail X-GN 20 MX	chicken mesh fixing
40104	05-10	Galaxy Mega Resort	LUIS KWOK ENGENHARIA E CONSTRUCAO		Gas nail X-GN 20 MX	channel fixing for drywall
39946	03-10	Lohas Park Phase 1 & Phase 2	FOK MING KEE ENG CO		Gas nail X-GN 20 MX	suspension ceiling fixing
39947	03-10	Lohas Park Phase 1 & Phase 2	FOK MING KEE ENG CO		Gas nail X-GN 39 MX	suspension ceiling fixing