

Hilti KB3 Submission Folder

Sample Submission and Approval Form	2 - 3
Product Information	4
Technical Data	5
Method Statement	6
Test Reports according to BS5080	7 - 28
Government Letter	29 - 30
Country of Origin	31

Customer Hotline
Hong Kong 8228 8118
Macau (Toll free) 00800- 8228 8118

SAMPLE SUBMISSION AND APPROVAL FORM

Co	ontract Title:	Ref. No.:
		Date:
		Ref. No. of Previous Submission:
Co	ontract No:	(1)
Fil	e Reference:	(2)
DE	TAILS OF SUBMISSION	
То	Contract Manager's R	epresentative Attention:
Fr	om:	
des	e enclosed sample and catalogue* / cribed below have been checked for coroval.	certificate of origin* / technical data* / test report* / job reference* as compliance with the Specifications and Drawings, and are submitted for
1.	General Information a. Material Description	KB3 Expansion anchor
	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 chec	ked against the specification and drawings as listed below:-
	Specification Requirements	Submitted Sample (State details against each item)
	a. Brand Not specified b. Country of Origin Not specified c. Manufacturer's Name & Address Not specified	Hilti Liechtenstein Hilti Corporation, FL-9494 Principality of Liechtenstein
	d. Factory's Name & Address(es) Not specified	Hilti Aktiengesellschaft, Hilti AG, Feldkircherstrasse, FL-9494 Schaan, Liechtenstein
	e. Supplier (with Applicator, if any Not specified	Hilti (Hong Kong) Ltd

July 09

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	NIL
Supplementary Information Not specified	NIL
For and on behalf of the Contractor	1
(Quality Control Manager)	
(Quality Control Manager)	
CONTRACT MANAGER'S COMMENTS	
To: From: Contract Manager's Represent	tative:
On the basis of the sample and information given	
(1) * Approved. (2) * Not approved because	
	
Remarks:	
Remarks:	
Remarks: Approval does not alter the requirements of the C	Contract
Approval does not alter the requirements of the C	
Approval does not alter the requirements of the C	
Approval does not alter the requirements of the C	
Approval does not alter the requirements of the C Contract Manager's Representative: Date:	
Approval does not alter the requirements of the C Contract Manager's Representative:	
Approval does not alter the requirements of the C Contract Manager's Representative: Date:	

(* Delete ii 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)



KB3 Expansion Anchor

for marble fixing

Base material

■ Non-cracked concrete

Use

- For fastening marble granite and architectural features
- For fastening cladding works and facades, shopfronts and balustrades, window wall and steel works
- For fastening aluminum windows and Louvres

Material

■ A2 stainless steel

Approvals







Benefits

- Short embedment depth.
- Rounded end for easy installation
- Dog point impact section to prevent thread damage during installation.





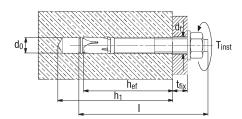


Technical data

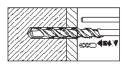
Recommended load, $F_{90}(kN)$: non-cracked concrete at 30N/mm², safety factor(γ)=3

Model	Model Recommended load		
KB3 304 SS ³ / ₈ " x 2 ¹ / ₄ "	Tensile Load, Nr∞	7.8 kN	
ND3 304 33 78 X 2 74	Shear Load, V∞	10.6 kN	

All the data applies to no edge distance, spacing and other influences



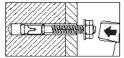
Installation procedures



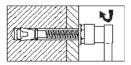
Drill hole with drill bit.



Blow out dust and fragments.



Install anchor.



Apply tightening torque.

KB3 programme

Drill bit			Min. hole depth,	Max. fasten thk.	Tighten.	Clear-	Width		****	
nom.	Anchor	Head	h1	tfix	torque	ance	across			
dia., d₀	length, I	mark	Standard	Standard	Tinst	hole, d _f	flats, Sw	Package	Order designation	Item no
(inch)	(mm)		(mm)	(mm)	(Nm)	(mm)	(inch)	(pcs)	•	

KB3: stud head (A2 stainless steel)

3/8"	61	В	50	5	27	11	^{9/} 16"	50	KB3 304 SS 3/8" x 21/4" 282542	

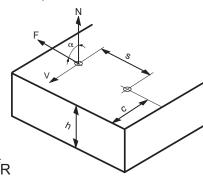


Hilti KB3 Expansion Anchor

Product Information

Recommended load F₃₀ in kN, non-cracked concrete f_{cc} ≥ 30 N/mm², *v*=3

Ancho	3/8"	
Tensile	0°	7.8
Combined	30°	8.7
Combined load	45°	9.2
load	60°	9.7
Shear	90°	10.6



Recommended load for specific application : $F_{rec} = F_{30} \cdot f_B \cdot f_A \cdot f_R$

Influence of concrete strength fB

$$f_B = 1 + 0.01 \cdot (1 - \frac{\alpha}{90})(f_{CC}, act - 30) [20 \le f_{CC}, act \le 40]$$

No increase of loading capacity when in concrete of higher strength

Influence of anchor spacing and edge distance fA, fR

		Spacing Reduction Factor (f _A)	Edge Reduction	on Factor (f _R)
		Tension	Tension (f _{RN})	Shear (f _{RV})
	40	0.62		
Ε	45	0.66	0.70	0.49
(mm)	50	0.70	0.73	0.55
) jce	55	0.74	0.76	0.60
Distance	60	0.77	0.80	0.66
	65	0.81	0.83	0.71
Edge	70	0.85	0.86	0.77
/ Ec	75	0.89	0.89	0.82
	80	0.92	0.93	0.88
Spacing	85	0.96	0.96	0.93
l g	90	1.00	0.99	0.99
	95		1.00	1.00

Influence of anchor spacing and edge distances, f_A, f_R

Formula:

$$s_{min} = 0.9h_{nom}$$
, $s_{cr} = 2.2h_{nom}$

$$f_A = 0.31 \frac{s}{h_{nom}} + 0.32$$

A minimum distance of a \geq 2 s_{Cr} must exist between groups of anchors to exclude any influence

Formula:

$$c_{min} = 1.1 h_{nom}, c_{cr} = 2.2 h_{nom}$$

$$f_{RN} = 0.27 \frac{c}{h_{nom}} + 0.4$$

Formula:

$$c_{min}$$
 = 1.1 h_{nom} , c_{cr} = 2.2 h_{nom}

$$f_{RN} = 0.45 \frac{c}{h_{nom}}$$

The following applies to combined loading f_R = f_RN - (f_RN - f_RV) $\frac{\alpha}{90}$

If the edge distance is less than c_{cr} reinforcement which can take up 0.25 times the anchor load must be provided between the component edge and the anchor .

Page 5 July 09



SETTING OPERATION

Hilti KB3 Expansion Anchor

Versions : KB3 Accessories : NIL

Reference : Product Information



Setting Operation:	
Drill the hole with drill bit	
2. Blow out dust and fragments	2
3. Install anchor	
4. Apply appropriate tightening torque	



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

TEST REPORT

HILTI (Hong Kong) Ltd

17/F., Tower 6, China Hong Kong City, 33 Canton Road, TST., Hong Kong.

Tensile Load Test on Anchor Bolt

KB3 SS304 3/8"

BS5080 : Part 1 : 1993 : Cl. 7.1

Date Tested: 07 Apr 09

ETL Ref. No.: 407/2009

Reported by:

TSANG, Kin On / PANG, Ting Ping.

Assistant Engineer

Approved by

MONG, Sang Ming

Assistant Technical Manager

Report Issue Date: 17 Apr 09 Page 1 of 3 Report No.: FDA90424
Page 7 July 09



東 業 徳 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
 E-mail
 : etl@ets-testconsult.com

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



TEST REPORT

Tensile Load Test on Anchor Bolt

Customer : Hilti (Hong Kong) Ltd Report No. : FDA90424

Address : 17/F, Tower 6, China HK City, 33 Canton Road, TST Test Date : 07-Apr-09

Project :- Report Date : 17-Apr-09

Test Location : ETL's Laboratory Page No. : 2 of 3

Anchor Type * : KB3 SS304 3/8" Test Method : BS 5080:Part 1:1993 Cl 7.1

Amb.Temperature : 23°C

Load (kN)	Dial Gauge Reading (mm)								
Load (kiv)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5				
0.0	0.00	0.00	0.00	0.00	0.00				
3.0	0.00	0.00	0.00	0.00	0.00				
6.0	0.00	0.00	0.00	0.00	0.01				
9.0	0.00	0.00	0.01	0,00	0.01				
12.0	0.01	0.01	0.02	0.01	0.02				
15.0	0.03	0,02	0.04	0.03	0.03				
18.0	0.05	0.04	0.08	0.04	0.04				
21.0	0.10	0.07	0.12	0.09	0.10				
24.0	0.32	0.26	0.34	0.29	0.21				
27.0	=	_	-	<u> </u>	-				
30.0		_	-		-				
33.0	-		***	_	-				
36.0	-	-	-	-	-				
39.0	-	_	_		-				
42.0	•	_	-	-					
45.0	-	-	-	_	_				
48.0	-	-	_	-	-				
51.0	-	-	_	-	-				
ailure Load (kN)	24.3	24.9	24.4	24.7	25.2				
ailure Mode	F4	F4	F4	F4	F4				
verage Failure Load (kN)			24.70						
Standard Deviation (kN)			0.37						

A) Test Appratus Load Cell : Comp. Load cell YZC-219, 100kN (ET/930/10/01) S/N : 50603015

Load Cell Indicator : Load Indicator,XT1500 (ET/930/03/02) S/N: 1000090910

Cylinder: Hydraulic Cylinder RCH 121 (ET/903/14) S/N:-

Digital Dail Gauge: ET/430/19

B) Concrete Grade 30 ± 3 MPa
C) Anchor installed date 07-Apr-09

D) Failure Modes P = No sign of failure in anchor and/or structural member F1 = Failure of anchor or its accessories

F2 = Failure in structural member F3 = Pull out of anchor

F4 = Failure of structural member in a shear cone F5 = Failure by continuous displacement or decreasing load

F6 = Failure in structural member with crack radiates outward from anchor

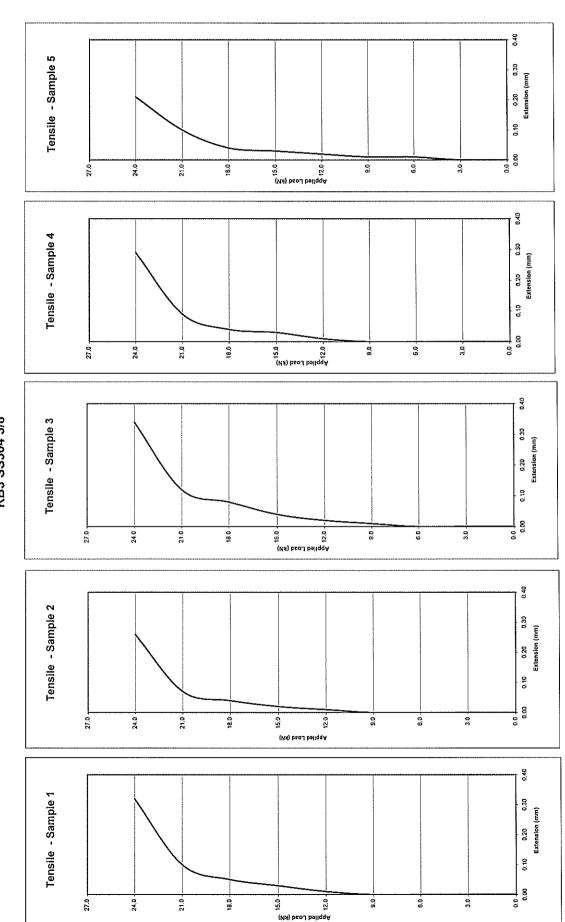
F7 = Other failure mode(s) : Anchor Breaking

E) Span width(mm) 400
F) Edge distance(mm) 200
G) Embeded Length(mm) 64

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This report shall not be reproduced unless with prior written approval from this laboratory.

Page 8 July 09

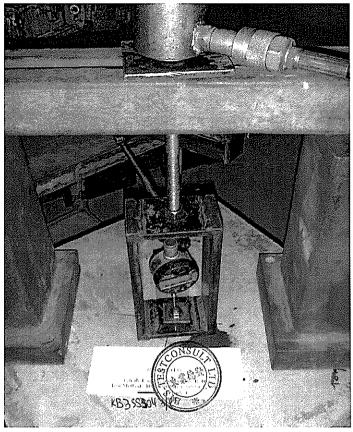
^{*} Information provided by customer

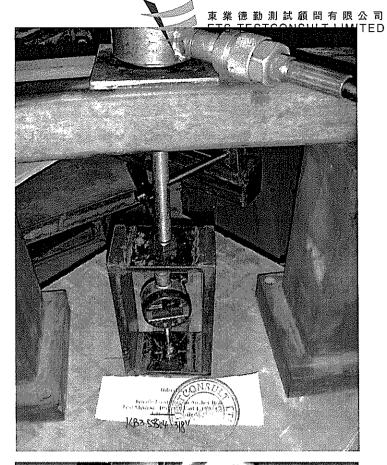


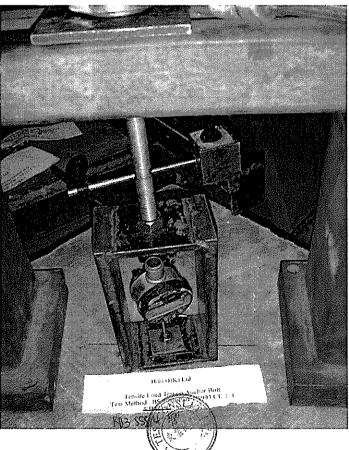


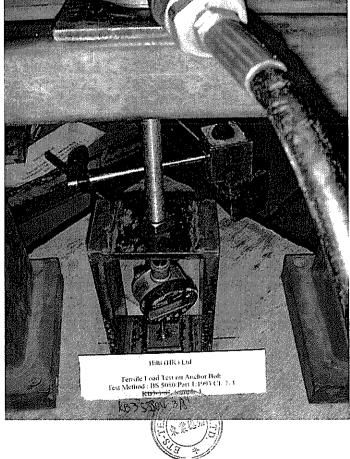
APPENDIX A

Photos of Set Up

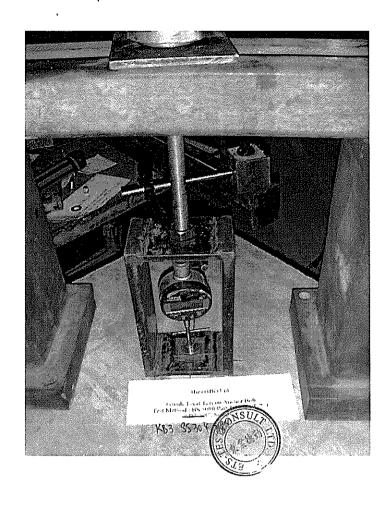








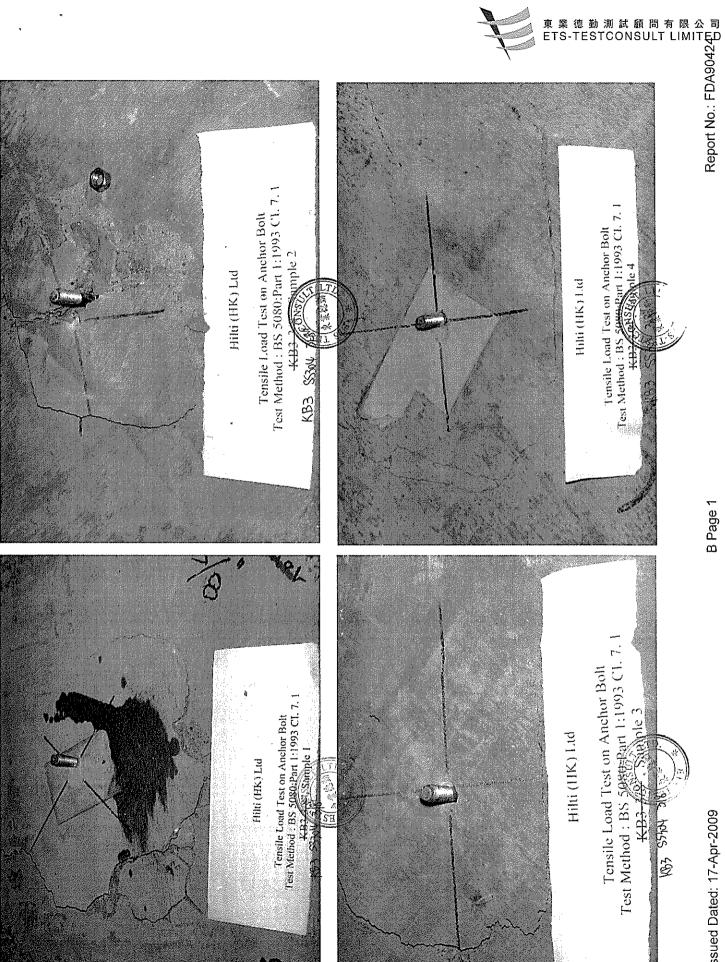






APPENDIX B

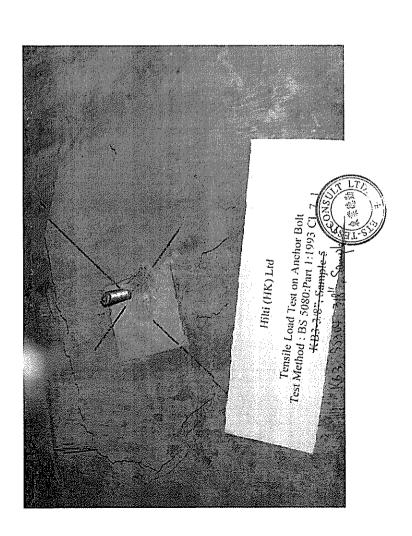
Photos of Failure Mode



July 09

Report Issued Dated: 17-Apr-2009





Page 15 July 09



APPENDIX C

Concrete Cube Compressive Strength



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

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



TEST REPORT

Concrete Cube Compressive Strength

Form C/CO/R/54/Issue 12 (1/2) [02/04]

Information Supplied by Customer

Laboratory Information

Customer

: Hilti (Hona Kona) Ltd

T S T, Hong Kong

Report No

: CCA91681

Address

17/F Tower 6, China Hong Kong City, 33 Canton Road.

Page No

: 1 of 1

Report Date

: 23/04/2009

Contract No

Test Method

: CS1: 1990 Section 12

Project

Tensile and Shear Load on anchor (BS5080 Part 1:

(AMD 1201 & 1202)

1993 & BS5080 Part 2: 1986)

Test Procedure: TPM/017/O

Date Cast

: 04/04/2009

Date Received: 06/04/2009

Customer Ref No

: N/A

Date Tested

Description of : 100 mm nominal size cube

Age at Test

: 07/04/2009 : 3 davs

Sample

Concrete Grade: 30D/20

Sample Used : Concrete Block

Location

Lab Ref No	Cube Mark	Received Conditions ¹	Measured Dimensions L x W x H (mm)	Mass (kg) As Received	Density (kg/m ³) As Received	Maximum Load (kN)	Compressive Strength (MPa)	Test Condition & Failure Appearance	Expanded 3,4 Uncertainty
901X000781	1	N	100.2 x 100.6 x 101.0	2.365	2320	301.3	30.0	2,5,8	N/A
901X000782	2	N	100.1 X 100.1 X 100.7	2.347	2330	308.9	30.5	2,5,\$	N/A
901X000783	3	N	99.6 x 100.2 x 100.7	2.346	2330	312.3	31.0	2,5,8	N/A

Curing Conditions:

Curing Tank at 27±3°C(Laboratory curing from date received)

Volume Determination Method:

Determined by direct measurement method as described in CS1: 1990 Section 16 (AMD 1201, 1202).

Codes: 1

N = Normal, D = Damaged Edge, P = Poor Compacting, H = Honeycombing,

U = Undersize, O = Oversize, I = Out of Squareness (Irregular)

1 = Cubes received saturated, 2 = Cubes received surface wet, 3 = Cubes received surface dry,

4 = Cubes tested saturated, 5 = Cubes tested surface wet, 6 = Cubes tested surface dry.

S = Satisfactory failure, F(X) = Unsatisfactory failure (serial no.),

See CS1: 1990 Volume 2 Figure 6 for pictorial description and serial nos. of cube failure patterns.

The uncertainty was carried out at 95% confidence level with coverage factor, k=2

Sampling uncertainty is not included in this uncertainty calculation since this is a unit test of a single specimen Remarks: Automatic Cube Dimension and Weight Measurement X Manual Cube Dimension and Weight Measurement

Sampling, making and curing test cube are carried out by customer, information not available.

Time of adding water has not been given by customer, the exact age at tests not determined to C1.10.4 of CS1: 1990

Tested By

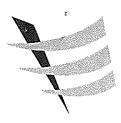
: WONG, Gee Sang

YEUNG, Siu Ki Kelvin

Approved By:

-CHOI, Kam Wah Wallace(Assistant Operations Manager) - \

YEUNG, Siu Ki Kelvin (Supervisor)



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 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, TST., Hong Kong.

Shear Load Test on Anchor Bolt

KB3 SS304 3/8"

BS5080 : Part 2 : 1986 : Cl. 7.2

Date Tested: 07 Apr 09

ETL Ref. No.: 407/2009

Reported by:

TSANG, Kin On / PANG, Ting Ping

Assistant Engineer

Approved by : ______ MONG, Sang Ming Assistant Technical Manager

C

Report Issue Date: 17 Apr 09

Page 1 of 3 Page 18 Report No.: FDA90439

July 09



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

TEST REPORT

Shear Load Test on Anchor Bolt

Customer : Hilti (Hong Kong) Ltd Report No. : FDA90439

Address : 17/F, Tower 6, China HK City, 33 Canton Road, TST Test Date : 07-Apr-09

Project :- Report Date : 17-Apr-09

Test Location : ETL's Laboratory Page No. : 2 of 3

Anchor Type * : KB3 SS304 3/8" Test Method : BS 5080;Part 2:1986 CI, 7,2

Amb.Temperature : 23°C

Lood (IM)	Dial Gauge Reading (mm)								
Load (kN)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5				
0.0	0.00	0.00	0.00	0.00	0.00				
3.5	0.01	0.00	0.00	0.02	0.04				
7.0	0.04	0.02	0.01	0.04	0.12				
10.5	0.14	0.08	0.05	0.13	0.20				
14.0	0.54	0.23	0.20	0.23	0.33				
17.5	1.33	0.49	0.42	0.34	0.47				
21.0	1.86	0.72	0.73	0.80	0.93				
24.5	2.55	1.25	1,53	1.90	2.07				
28.0	3.50	2.53	2.73	2.84	3.16				
31.5	4.81	4.90	4.48	4.23	4.44				
35.0	_	₩.	-	-	-				
38.5	_	•	-	-	-				
42.0	-	-	-	-	-				
45.5	-	_	-		-				
49.0	_	_	•	-	-				
52.5	-	-	_	-	_				
56.0	_	•	_	-	_				
59.5	-	-	_	-	-				
ailure Load (kN)	32.8	33.4	33.6	32.9	33.8				
ailure Mode	F7	F7	F7	F7	F7				
verage Failure Load (kN)			33.30						
Standard Deviation (kN)			0.44						

A) Test Appratus Load Cell : Comp. Load cell Thames, 50 kN (ET/930/11/01) S/N: BS4607/0227183

Load Cell Indicator : Load indicator AD813 (ET/930/11/02) S/N:-

Cylinder: Hydraulic Cylinder RCH 202 (ET/903/13) S/N: C3696C

Digital Dail Gauge: ET/915/35

B) Concrete Grade 30 ± 3 MPa

C) Anchor installed date 07-Apr-09

D) Failure Modes P = No sign of failure in anchor and/or structural member F1 = Failure of anchor or its accessories

F2 = Failure in structural member F3 = Pull out of anchor

F4 = Failure of structural member in a shear cone F5 = Failure by continuous displacement or decreasing load

F6 = Failure in structural member with crack radiates outward from anchor

F7 = Other failure mode(s) : Anchor Breaking

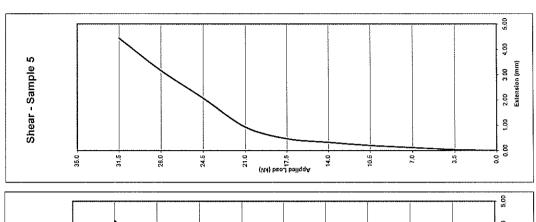
 E) Span width(mm)
 400

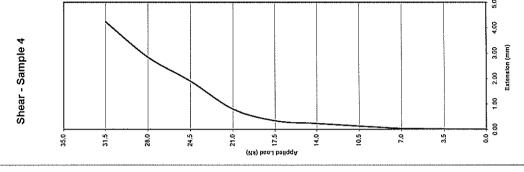
 F) Edge distance(mm)
 200

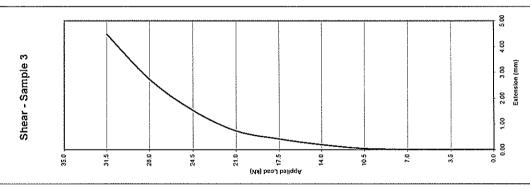
 G) Embeded Length(mm)
 89

Page 19 July 09

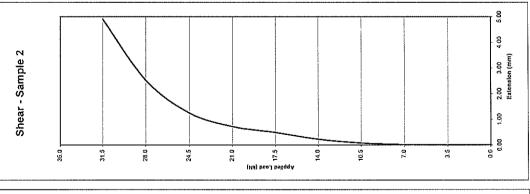
^{*} Information provided by customer

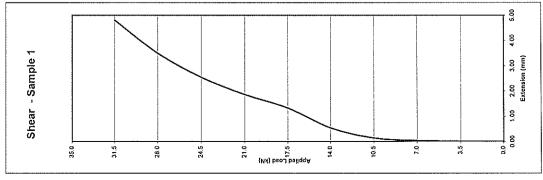






KB3 SS304 3/8"





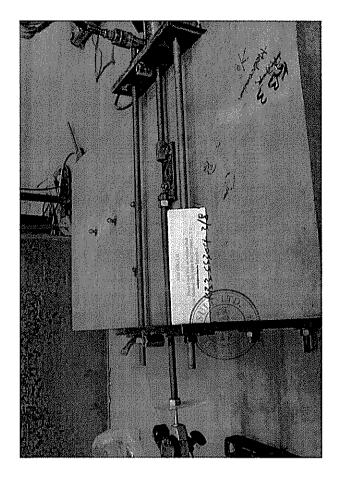


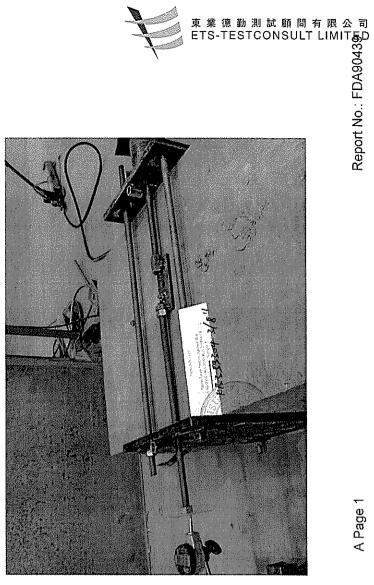
APPENDIX A

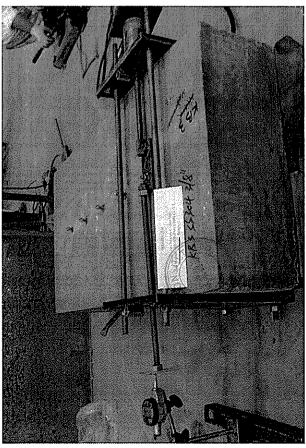
Photos of Set Up

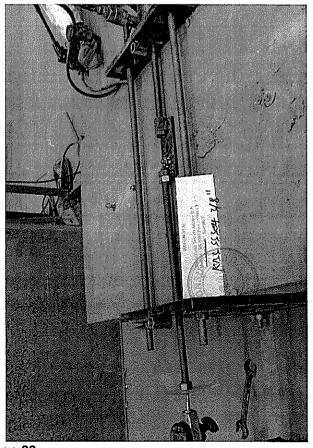
Page 21 July 09





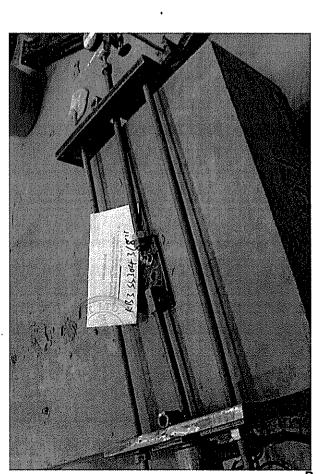






Page 22





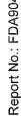


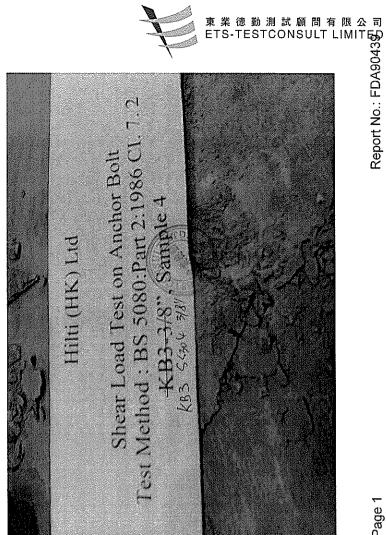
APPENDIX B

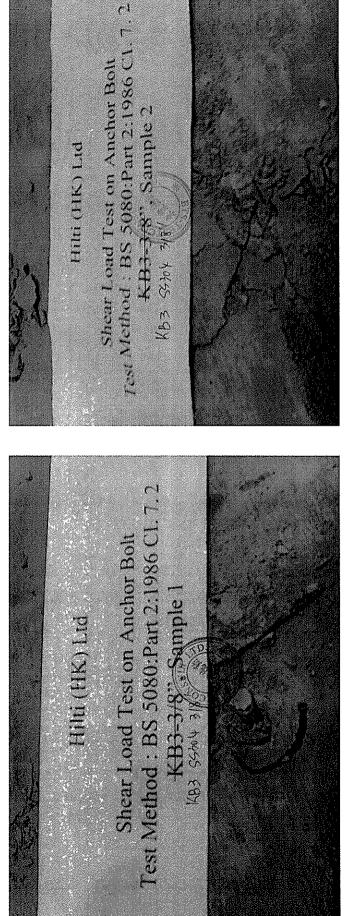
Photos of Failure Mode

Page 24 July 09







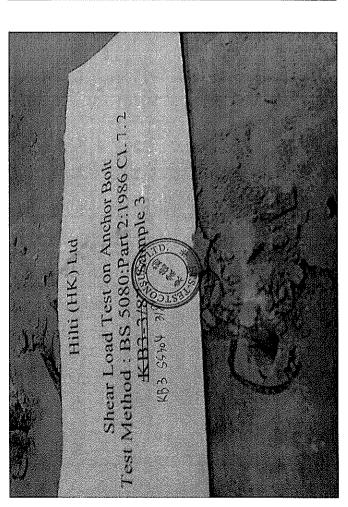


Shear I ead Test on Anchor Bolt

Hilli (TIK) Lid

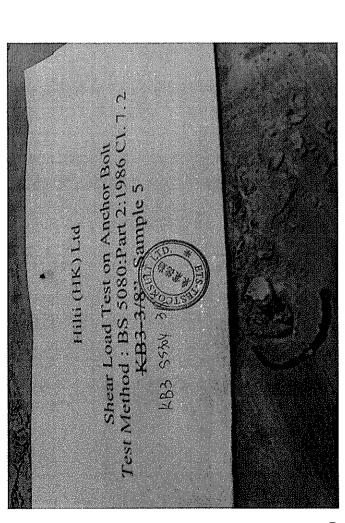
Sample 2

KB3 55,704 3/8"



B Page 1







APPENDIX C

Concrete Cube Compressive Strength



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

Concrete Cube Compressive Strength

Form C/CO/R/54/Issue 12 (1/2) [02/04]

Information Supplied by Customer

Laboratory Information

Customer

: Hilti (Hong Kong) Ltd

Report No

: CCA91681

Address

17/F Tower 6, China Hong Kong City, 33 Canton Road.

Page No

1 of 1

T S T, Hong Kong

Report Date

: 23/04/2009

Contract No

: N/A

Test Method

: CS1: 1990 Section 12

Project

: Tensile and Shear Load on anchor (BS5080 Part 1:

1993 & BS5080 Part 2: 1986)

(AMD 1201 & 1202)

Date Cast

: 04/04/2009

Test Procedure: TPM/017/O

Customer

Date Received: 06/04/2009

Ref No

: N/A

Date Tested

: 07/04/2009

Description of : 100 mm nominal size cube

Age at Test

days

: 3

Sample

Concrete Grade: 30D/20

Sample Used : Concrete Block

Location

Lab Ref No	Cube Mark	Received Conditions ¹	Measured Dimensions L x W x H (mm)	Mass (kg) As Received	Density (kg/m²) As Received	Maximum Load (kN)	Compressive Strength (MPa)	Test Condition & Failure Appearance	Expanded 3,4 Uncertainty
901X000781	1	N	100.2 x 100.6 x 101.0	2,365	2320	301,3	30.0	2,5,8	N/A
901X000782	2	N	100.1 X 100.1 X 100.7	2.347	2330	308,9	30.5	2,5,8	N/A
901X000783	3	N	99.6 x 100.2 x 100.7	2.346	2330	312.3	31.0	2,5,8	N/A

Curing Conditions:

Curing Tank at 27±3°C(Laboratory curing from date received)

Volume Determination Method:

Determined by direct measurement method as described in CS1: 1990 Section 16 (AMD 1201, 1202).

Codes: 1

N = Normal, D = Damaged Edge, P = Poor Compacting, H = Honeycombing,

U = Undersize, O = Oversize, I = Out of Squareness (Irregular)

1 = Cubes received saturated, 2 = Cubes received surface wet, 3 = Cubes received surface dry, 2

4 = Cubes tested saturated, 5 = Cubes tested surface wet, 6 = Cubes tested surface dry,

S = Satisfactory failure, F(X) = Unsatisfactory failure (serial no.),

See CS1: 1990 Volume 2 Figure 6 for pictorial description and serial nos. of cube failure patterns.

The uncertainty was carried out at 95% confidence level with coverage factor, k=2

Sampling uncertainty is not included in this uncertainty calculation since this is a unit test of a single specimen Remarks: | Automatic Cube Dimension and Weight Measurement | X | Manual Cube Dimension and Weight Measurement

Sampling, making and curing test cube are carried out by customer, information not available.

Time of adding water has not been given by customer, the exact age at tests not determined to C1.10.4 of CS1: 1990

Tested By

: WONG, Gee Sang

YEUNG, Siu Ki Kelvia

Approved By:

CHOI, Kam Wah Wallace(Assistant Operations Manager) >

YEUNG, Siu Ki Kelvin (Supervisor)



 YOUR REF 來雨檔號:
 729-519

 OUR REF 本電檔號3) in BD/GR/SEG/PPA(G)

 FAX 圖文博傳:
 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.

- 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....



YOUR REF 来运精髓上

729-519

OUR REF 木異植(熱3) in BD/GR/SEG/PPA(G)

FAX 圖文傳輸:

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)

Da

Technical Secretary/Structural for Building Authority

tck/



Attn. : To whom it may concern

Date

: 11 Jun 2009

Ref.

: LE/360/TC/09

Subject

: Hilti KB3 Expansion Anchor

Dear Sirs / Madams,

Enclosed please find the information of Hilti KB3 Expansion Anchor.

Brand Name

: Hilti

Model Name

: Hilti KB3

Manufacturer

: Hilti Corporation

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

Supplier

: Hilti (Hong Kong) Ltd

Address of Supplier

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

Tsim Sha Tsui, Kowloon, Hong Kong.

Country of Origin

: Liechtenstein

Name of Factory

: Hilti Aktiengesellschaft

Address of Factory

: Hilti AG, Feldkircherstrasse, FL-9494 Schaan, Liechtenstein.

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

Yours sincerely,

Hilti (Hong Kong) Ltd.

Themas Chov

Marketing Manager