



工程指示 / 要求簡箋 ENGINEER INSTRUCTIONS(E.I.)

工程指示編號:	EI-5780	修改版本:	-
	AKK1		
工程編號:	J 856	工程名稱:	天榮站
收件人:	Maggie Lor	發件人:	Lai Sik Hung
工程項目:	提供T-Bolts & Hilti Channel的Pull Out Test Method Statement - Curtain Wall (QTC Lab)	日期:	27/02/2023

<input type="checkbox"/> 原合約工程包	<input type="checkbox"/> 原合約工程加 / 減賬 QT-	<input type="checkbox"/> 新工程報價 QT-
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信件批核號碼/圖紙參考編號:	批核模具圖紙編號:
客戶指示附件:	管理內部批簽署:

<input type="checkbox"/> 初步鋁料 B.M.	<input type="checkbox"/> 加工拆圖, 然後生產	<input type="checkbox"/> 尺寸表
<input type="checkbox"/> 正式鋁料 B.M.	<input type="checkbox"/> 技術上資料/指示	<input type="checkbox"/> 報價
<input type="checkbox"/> 配件 B.M.	<input type="checkbox"/> 樣辦或貨品說明書	<input type="checkbox"/> 分判合約
<input type="checkbox"/> 其他:		

內容:
提供T-Bolts & Hilti Channel的Pull Out Test Method Statement

完成上列要求日期: 06/03/2023

國內

<input type="checkbox"/> 生產技術總監	<input type="checkbox"/> 連附件	<input type="checkbox"/> 技術部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 生產部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 採購部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 生產統籌部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 報關組	<input type="checkbox"/> 連附件
<input type="checkbox"/> 質檢部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 會計部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 機械設計部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 香港辦	<input type="checkbox"/> 連附件	<input type="checkbox"/> 其他:			

<input type="checkbox"/> 行政部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 會計部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 統籌部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 工程部	<input type="checkbox"/> 連附件
<input checked="" type="checkbox"/> 採購部	<input checked="" type="checkbox"/> 連附件	<input type="checkbox"/> QS部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 地盤管理	<input type="checkbox"/> 連附件	<input type="checkbox"/> 維修部	<input type="checkbox"/> 連附件

*發件人簽署:		*組別成員批核簽署:	
傳遞編號:		項目經理簽署:	



01 MAR 2019

Date rec'd	Action	Copy	File
Kelvin Lam			
Stephen Chiu			
K S Lau			
Kevin Lam			
C.W. Wu			
Ricky Leung			
Ernest Chan			
Kelvin Chan			
Teddy Siu			
Douglas Tsang			
Julian Yeung			
Larry Lam			
Chau Ka Ki			
Project Team			

YOUR REF 來函檔號：
 OUR REF 本署檔號： **BD 3/7601/09(Pt.VII)**
 FAX 圖文傳真： **2973 0561**
 TEL 電話： **3104 2583**
 www.bd.gov.hk

LAU Chi-kin
 22nd Floor,
 Sun Hung Kai Centre,
 30 Harbour Road,
 Wanchai, Hong Kong

25 February 2019

cc. Robert Sang
 AP
 Michael Kwok
 Kelvin Lam
 Robert Lam

OK Lan
 5/2

231

Dear Sir,

**Property Development above LRT Terminus,
 TSWTL23, Area 33, Tin Shui Wai, N.T. -
 TSWTL 23**

I refer to your application dated received on 28 December 2018 for approval of proposals in respect of Superstructure – Curtain Wall.

2. Your submission of plans has been checked under the curtailed check system announced in Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers ADM-19. On this basis, I am satisfied that your submission is fundamentally acceptable and may be approved.

3. You are reminded that the curtailed check system covers only the fundamental issues of a building proposal. Although non-fundamental issues will not be raised as reasons for disapproving a submission, I expect that all contraventions of the Buildings Ordinance and its subsidiary legislation are rectified as and when they are discovered and in any event, before completion of the works is certified. In this connection, I ask you to note that the Building Authority attaches great importance to the proper assumption of duties and responsibilities by authorized persons and registered structural engineers.

4. In accordance with the provisions of regulation 30(1) of the Building (Administration) Regulations, this is to notify that the above - mentioned plans submitted with your application dated received on 28 December 2018 are hereby approved. One set of the said plans, on which I have signified my approval, is enclosed. Your client has been sent a copy of this letter but I would request that you ensure that the contents are understood by him.

5. This approval should not be deemed to confer any title to land or to act as a waiver of any term in any lease or licence. This approval does **NOT** authorize the commencement or the carrying out of any works shown in the approved plans. Section 14(2) of the Buildings Ordinance refers.

c.c. **MTR Corporation Limited**
MTR Headquarters Building,
19/F, Telford Plaza,
Kowloon Bay, Kowloon

AP - LIANG Ronald
15/F., North Tower,
World Finance Centre,
Harbour City, Tsim Sha Tsui,
Kowloon.

CO/SM

Yours sincerely,

(LI Kwok-leung)
 Chief Structural Engineer
 for Building Authority

Ref : BD 3/7601/09(Pt.VII)

Address : Property Development above LRT Terminus, TSWTL23, Area 33, Tin Shui Wai,
N.T. - TSWTL 23

Appendix VI to approval dated 25 February 2017

**Steel T Bolts with Cast-in Channels used for
Curtain Wall/ Cladding Works**

In giving this approval of plans, I hereby impose the following conditions under item 6 in section 17(1) of the Buildings Ordinance:

- (a) Strength tests on a representative number of assemblies of T bolts with cast-in channels should be carried out as directed by the Registered Structural Engineer to verify the performance and workmanship of the T bolts with cast-in channels. Sampling rate should be at least 1% or 5 numbers, whichever is more, of each type and size of the assemblies of T bolts with cast-in channels installed. The strength tests should be carried out by a recognized laboratory independent of the contractor.
- (b) Each representative assembly of T bolts with cast-in channels should be tested for tensile load by pull out test and/or shear load by shear load test as appropriate to demonstrate that its load carrying capacity is not less than 1.5 times the recommended load as specified by the manufacturer of the T bolts with cast-in channels. The tested assemblies of T bolts with cast-in channels should not show any signs of separation, plastic deformation or deleterious effect. The reports of the above-mentioned tests shall be endorsed by Registered Structural Engineer and kept on site for inspection by representatives of the Buildings Department.
- (c) A method statement on the anchor tests mentioned above is required to be submitted at least one week prior to the actual commencement of the T bolts with cast-in channels works.

2. The following conditions in respect of qualified supervision of works is imposed under item 6 in section 17(1) of the Buildings Ordinances:

- (a) Qualified site supervision of the T bolts with cast-in channels works, by experienced and competent persons as defined in (b) and (c), should be provided to ensure that the works are carried out in accordance with the plans approved and that the required standards are complied with.
- (b) The Registered Structural Engineer should assign a quality control supervisor to supervise the works, determine the necessary frequency of inspection by the quality control supervisor which should not be less than once a week, and devise inspection check lists. The minimum qualifications and experience of the quality control supervisor is to be the same as the Technically Competent

Person of grade T3, as stipulated in the Code of Practice for Site Supervision 2009.

- (c) The Registered General Building Contractor should assign a quality control co-ordinator to provide full time on site supervision of the works and devise inspection check lists. The minimum qualifications and experience of the quality control co-ordinator is to be the same as the Technically Competent Person of grade T1, as stipulated in the Code of Practice for Site Supervision 2009.
- (d) The names and qualifications of the supervisory personnel representing the Registered Structural Engineer and the Registered General Building Contractor respectively should be recorded in an inspection log book. The date, time, items inspected and inspection results should be clearly recorded in the log book. The log book should be kept on site for inspection by representatives of the Buildings Department.

3. Reference may be made to British Standard 5080: Parts 1 & 2 for the testing procedures including apparatus set-up, load application and results presentation.

4. Under Building (Administration) Regulation 10, a copy of mill certificates of the steel T bolts and cast-in channels used, is required to be submitted within 60 days of the delivery of the steel T bolts and cast-in channel to the site which should be appended with a statement signed by the Registered Structural Engineer to confirm that the requirements of chemical composition and mechanical properties appropriate to the type/grade of steel have been complied with.

BD REF: BD 3/7601/09 (P. VI)

B.D. AMENDMENT

Supersede (Carriain Walls)

Any works shown on these plans are Type II works under the Building (Stratification) Regulations.

NO.	DATE	DESCRIPTION	BY
C	01.03.2018	1st B.D. AMENDMENT	CF
B	24.02.2018	2nd B.D. AMENDMENT	KF
A	20.02.2018	3rd B.D. AMENDMENT	CF
-	14.02.2018	1st B.D. SUBMISSION	CF

SUN HUNG KAI
REAL ESTATE AGENCY LTD.

lwk&partners
ARCHITECTS

15/F, One One One Finance Centre, 118 Queen's Road East, Hong Kong
九龍中環皇后大道東118號金融匯中心15樓

ARUP

STRUCTURAL ENGINEER
SUN HUNG KAI
ARCHITECTS AND ENGINEERS LTD.

FAÇADE CONSULTANT
ALPHA CONSULTING LIMITED
Steel Structure & Façade Specialist

MAIN CONTRACTOR
YEE FAI CONSTRUCTION CO., LTD.

MANUFACTURER
美特鋁質有限公司
MIDI Aluminium Manufacture Ltd.
Units 6-8, Sunny Industrial Centre, 1/F
810 Cho Yee Road, Kowloon
K9238911-4 Fax: (852) 27727895

PROPOSED COMPREHENSIVE DEVELOPMENT AT LRT TIN WING STOP AT TIN SHUI WAI ON LOT NO. TSWTL23

DRAWING TITLE
TOWER CURTAIN WALL

SCALE	1:4 (A1)	DATE	2018-11-28
DRAWN BY	KF	CHECKED BY	CF
JOB NO.	J6371		

FOR SIGNATURE

REGISTERED ARCHITECT
REGISTERED STRUCTURAL ENGINEER
DRAWING NO.

REVISION	C
BD-TCW-D11	



