



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

工程指示編號:	EI- 726	修改版本:	-
	HK- /		
工程編號:	J 859	工程名稱:	啟德6551
收件人:	maggie	發件人:	nero
工程項目:	J859工程地盤驗拉爆(M10&M12)	日期:	05/12/2023

<input type="checkbox"/> 原合約工程包	<input type="checkbox"/> 原合約工程加 / 減脹 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: 請安排人員到地盤驗拉爆, 檢驗日期及時間請與地盤管理聯絡和安排
 1)拉爆型號: HST3-R M10 需檢驗數量: 5 (其中1粒待定)
 Pull out test load(kN): 7.5kN
 2)拉爆型號: HST3-R M12 需檢驗數量: 2
 Pull out test load(kN): 10.5kN
 (詳細檢驗位置見附件1)
 *備註: 驗拉爆位置及數量由SHK RSE決定, 因此分佈不同座數、樓層, 因此需安排約6次到地盤檢驗。
 完成上列要求日期: ASAP

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:			

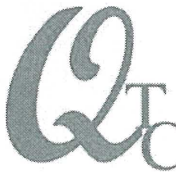
香港

<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 checked="" type="checkbox"/> 地盤管理	<input checked="" type="checkbox"/> 連附件	<input type="checkbox"/> 維修部	<input type="checkbox"/> 連附件

To: 橋

*發件人簽署:	<i>m</i>	*組別成員批核簽署:	
傳遞編號:	/	項目經理簽署:	<i>m</i> 5/12/23

附件2



Qualitech Testing & Consultancy Limited

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METHOD STATEMENT

Tensile Proof Load Test on Structural Fixings in Concrete and Masonry

(In-house Method BD-SF-TPL)

Customer : Sanfield Engineering Construction Ltd (Main Contractor) / Midi Aluminium Fabricator Ltd

Project : N.K.I.L. 6551, Kai Tak Area 4c Site 3, Kai Tak, Kowloon

1. Introduction

- 1.1 This method statement described the procedure for conducting test under axial tensile force on structural fixings installed in concrete or masonry used in building and civil engineering.
- 1.2 The method statement was made reference to BS 5080 : Part 1 : 1993.

2. Specimen information (Provided by customer)

2.1 Model of specimen : Hilti HST3-R M10

Maintain period	Recommended Load	Test Load
2 minutes	5.0 kN	7.5 kN

2.2 Model of specimen : Hilti HST3-R M12

Maintain period	Recommended Load	Test Load
2 minutes	6.7 kN	10.05 kN

3. Sampling

- 3.1 The specimen shall be randomly selected at least 1% or 5 numbers, whichever is more, for each type and size of the fixings by the customer.

4. Test Requirement

4.1 Test load

The test load shall be minimum equal to 1.5 times of the recommended tensile load or specified by the customer.

4.2 Maintain period

The test load will be maintained for at least 2 minutes, or other time period as specified by the customer.





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5. Equipment

- 5.1 For the tensile proof loading of structural fixings, the following equipment shall be used:
- Hydraulic hand pump & cylinder
 - Load cell
 - Timing device
 - Loading frame
 - Pulling rod, coupler, adaptor or fixture for assembling to the fixing

6. Procedure

- 6.1 Ensure that the fixings to be tested are as specified on the job or by the customer, including type, model & size of specimen, test location and installation details e.g. hole diameter & embedder length.
- 6.2 Check visually the test specimen and surrounding base material without any damage.
- 6.3 Select suitable loading device according to the test load provided by the customer, the type / diameter of the specimen and the environmental condition.
- 6.4 Set up the apparatus according to the diagram. Ensure that the alignment of the whole test set up is such that the tensile force is applied along the axis of the test specimen.
- 6.5 Initially a force sufficient to take up any slack in the apparatus and attachment shall be applied.
- 6.6 Without re-setting the load cell, increase the load steadily to reach the required test load in 2 to 3 increments. Applied force at each increment shall be recorded.
- 6.7 The test load shall be maintained for required time e.g. 2 minutes.
- 6.8 If failure has not taken place, release the load.
- 6.9 Detach the test apparatus and examine the test specimen and surrounding base material for any damage. Damage of test specimen or surrounding base material shall be recorded as a failure.
- 6.10 If failure observed during the test e.g. damage of test specimen or surrounding base material, or movement of fixing at least 5mm, test may be terminated. Mode of failure and maximum sustained load shall be recorded.

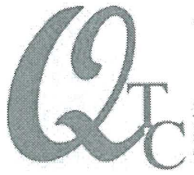
7. Acceptance criteria

- 7.1 Fixings can be said to have satisfied the proof test if test specimen did not show any signs of separation, plastic deformation or deleterious effect.
- 7.2 Recovery of the deformation after removal of all loads should be at least 80% of the total deformation at the maximum test load.

8. Record

- 8.1 The test results shall be recorded in a standard form for the record to the customer.





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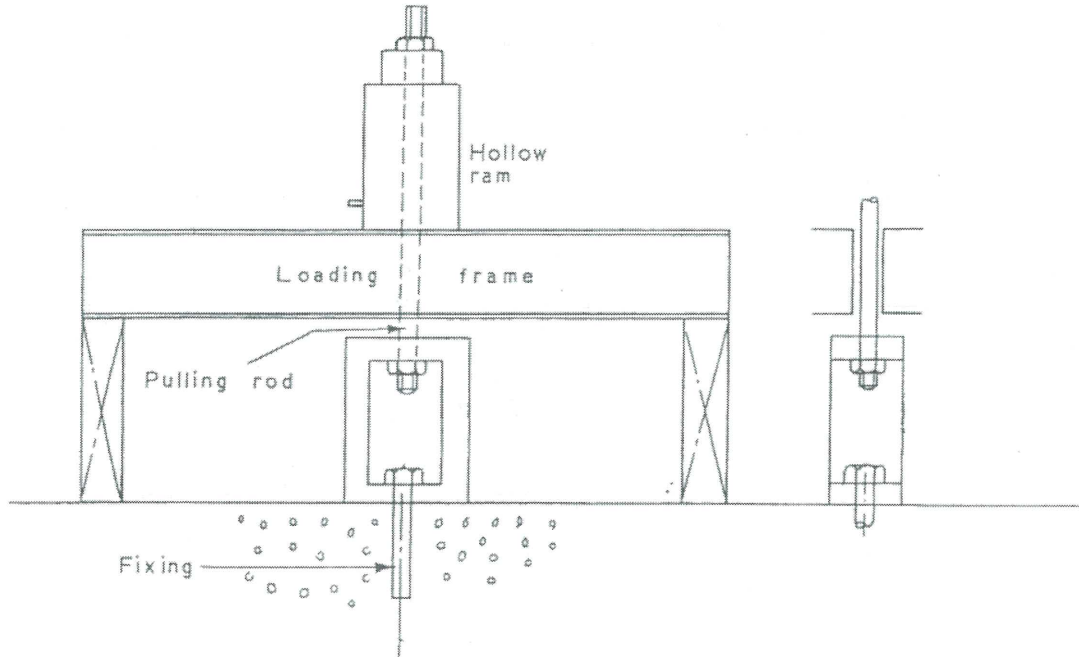
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9. Typical set-up of the tensile proof load test on structural fixing (anchor bolt)



-END-



GENERAL NOTES FOR IN-SITU ALUM. WINDOW

CODES AND STANDARDS

1. CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2004.
2. CODE OF PRACTICE FOR DRAIN AND IMPROVED DRAINS 2011.
3. CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.
4. CODE OF PRACTICE FOR THE STRUCTURAL USE OF GLASS 2018.
5. CODE OF PRACTICE FOR ALUMINIUM BS 8118-1:1991. (WIND LOAD FACTOR OF 1.4 FOR ALUMINIUM DESIGN TO PMP APPS)
6. BUILDING (CONSTRUCTION) REGULATIONS CAP 123.
7. BUILDING (CONSTRUCTION) REGULATIONS CAP 123.
8. APPROXIMATE PROTECTIVE BARRIERS AND WINDOW WALL SYSTEM.
9. APPROXIMATE PROTECTIVE BARRIERS AND WINDOW WALL SYSTEM.

DESIGN WIND LOAD

CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2004.

VERTICAL SURFACE	
HEIGHT ABOVE GROUND LEVEL	<100m
BASIC WIND PRESSURE	2.86kPa
TOPOGRAPHY FACTOR (K _z)	1.00
WIND EXPOSURE FACTOR (K _z)	1.00
DESIGN WIND PRESSURE	+2.86/-4.00kPa

IMPOSED LOAD ON PROTECTIVE BARRIERS (FOR DOMESTIC USE)

LINE LOADS TO BE APPLIED AT A HEIGHT OF 1.1m ABOVE THE FLOOR LEVEL	TO BE APPLIED ON PART OF THE INTELL BETWEEN FLOOR AND TOP RAIL	TO BE APPLIED ON PART OF THE INTELL BETWEEN FLOOR AND TOP RAIL
UNIFORM LOAD (kN/m)	1.0	0.5
AREAS WHERE CONCENTRATION OF PEOPLE IS NOT EXPECTED		

STEEL

ALL STRUCTURAL STEEL SECTIONS SHALL BE OF GRADE S275 OR CLASS 1 RELIABLE STRUCTURAL STEEL AND COMPLY WITH BS EN 10210-1 FOR HOLLOW SECTIONS AND BS EN 10025 FOR OTHER SECTIONS.

ALL STRUCTURAL STEEL TO BE HOT-DIP GALVANIZED TO BS EN ISO 1461 WITH MIN. 85μm COATING THICKNESS.

ALL CUT/WELDED AREAS IN GALVANIZED STEEL TO BE MADE GOOD BY AT LEAST TWO COATS OF ZINC RICH PRIMER TO BS 4552.

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GLASS

ALL GLASS PANELS SHALL BE COMPLIED WITH BS 822 AND DESIGN TO CODE OF PRACTICE FOR STRUCTURAL USE OF GLASS 2018.

IMPACT TEST TO BE COMPLIED WITH BS EN 12600 (CLASS 1)

DENSITY 28kN/m³

YOUNG'S MODULUS 70,000kPa

ULTIMATE DESIGN STRENGTH OF GLASS

HEAT TREATED GLASS(HS) 50MPa

TEMPERED GLASS(TP) 50MPa

ALL TAPERED GLASS SHALL COMPLY WITH HEAT SOAK TEST REQUIREMENT IN ACCORDANCE WITH PMP APP 37-2022.

HEAT SOAK PROCESS CONFORMING TO BS EN 14179-1:2016 AND COMPLYING WITH CODE OF PRACTICE FOR STRUCTURAL USE OF GLASS 2018 SHOULD BE CARRIED OUT.

C1-8mmthk P662/52/52/52 ON CLEAR GLASS (C1) + 12mm AIR GAP + 10mmTP THK CLEAR GLASS (C1,U)

C2-8mmthk P662/52/52/52 ON CLEAR GLASS (C2) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C2,U)

C3-8mmthk P662/52/52/52 ON CLEAR GLASS (C3) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C3,U)

C4-8mmthk P662/52/52/52 ON CLEAR GLASS (C4) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C4,U)

C5-8mmthk P662/52/52/52 ON CLEAR GLASS (C5) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C5,U)

C6-8mmthk P662/52/52/52 ON CLEAR GLASS (C6) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C6,U)

C7-8mmthk P662/52/52/52 ON CLEAR GLASS (C7) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C7,U)

C8-8mmthk P662/52/52/52 ON CLEAR GLASS (C8) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C8,U)

C9-8mmthk P662/52/52/52 ON CLEAR GLASS (C9) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C9,U)

C10-8mmthk P662/52/52/52 ON CLEAR GLASS (C10) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C10,U)

C11-8mmthk P662/52/52/52 ON CLEAR GLASS (C11) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C11,U)

C12-8mmthk P662/52/52/52 ON CLEAR GLASS (C12) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C12,U)

C13-8mmthk P662/52/52/52 ON CLEAR GLASS (C13) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C13,U)

C14-8mmthk P662/52/52/52 ON CLEAR GLASS (C14) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C14,U)

C15-8mmthk P662/52/52/52 ON CLEAR GLASS (C15) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C15,U)

C16-8mmthk P662/52/52/52 ON CLEAR GLASS (C16) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C16,U)

C17-8mmthk P662/52/52/52 ON CLEAR GLASS (C17) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C17,U)

C18-8mmthk P662/52/52/52 ON CLEAR GLASS (C18) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C18,U)

C19-8mmthk P662/52/52/52 ON CLEAR GLASS (C19) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C19,U)

C20-8mmthk P662/52/52/52 ON CLEAR GLASS (C20) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C20,U)

C21-8mmthk P662/52/52/52 ON CLEAR GLASS (C21) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C21,U)

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C31-8mmthk P662/52/52/52 ON CLEAR GLASS (C31) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C31,U)

C32-8mmthk P662/52/52/52 ON CLEAR GLASS (C32) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C32,U)

C33-8mmthk P662/52/52/52 ON CLEAR GLASS (C33) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C33,U)

C34-8mmthk P662/52/52/52 ON CLEAR GLASS (C34) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C34,U)

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C36-8mmthk P662/52/52/52 ON CLEAR GLASS (C36) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C36,U)

C37-8mmthk P662/52/52/52 ON CLEAR GLASS (C37) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C37,U)

C38-8mmthk P662/52/52/52 ON CLEAR GLASS (C38) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C38,U)

C39-8mmthk P662/52/52/52 ON CLEAR GLASS (C39) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C39,U)

C40-8mmthk P662/52/52/52 ON CLEAR GLASS (C40) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C40,U)

C41-8mmthk P662/52/52/52 ON CLEAR GLASS (C41) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C41,U)

C42-8mmthk P662/52/52/52 ON CLEAR GLASS (C42) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C42,U)

C43-8mmthk P662/52/52/52 ON CLEAR GLASS (C43) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C43,U)

C44-8mmthk P662/52/52/52 ON CLEAR GLASS (C44) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C44,U)

C45-8mmthk P662/52/52/52 ON CLEAR GLASS (C45) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C45,U)

C46-8mmthk P662/52/52/52 ON CLEAR GLASS (C46) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C46,U)

C47-8mmthk P662/52/52/52 ON CLEAR GLASS (C47) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C47,U)

C48-8mmthk P662/52/52/52 ON CLEAR GLASS (C48) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C48,U)

C49-8mmthk P662/52/52/52 ON CLEAR GLASS (C49) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C49,U)

C50-8mmthk P662/52/52/52 ON CLEAR GLASS (C50) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C50,U)

C51-8mmthk P662/52/52/52 ON CLEAR GLASS (C51) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C51,U)

C52-8mmthk P662/52/52/52 ON CLEAR GLASS (C52) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C52,U)

C53-8mmthk P662/52/52/52 ON CLEAR GLASS (C53) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C53,U)

C54-8mmthk P662/52/52/52 ON CLEAR GLASS (C54) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C54,U)

C55-8mmthk P662/52/52/52 ON CLEAR GLASS (C55) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C55,U)

C56-8mmthk P662/52/52/52 ON CLEAR GLASS (C56) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C56,U)

C57-8mmthk P662/52/52/52 ON CLEAR GLASS (C57) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C57,U)

C58-8mmthk P662/52/52/52 ON CLEAR GLASS (C58) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C58,U)

C59-8mmthk P662/52/52/52 ON CLEAR GLASS (C59) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C59,U)

C60-8mmthk P662/52/52/52 ON CLEAR GLASS (C60) + 12mm AIR GAP + 8mmTP THK CLEAR GLASS (C60,U)

DRIVE PIN

DRIVE PIN TO BE "H" X "P" X 27 PR. DESIGN & INSTALLATION SHOULD BE COMPLIED WITH MANUFACTURER'S RECOMMENDATION RECOMMEND TABLE OR SHEAR LOAD=18kN MIN. EMBED DEPTH=25mm FACTOR OF SAFETY=1.40

WATERPROOFING COATING

ALL WATERPROOFING COATING SHALL BE (MATERIALS 540). AROUND WINDOW FRAME FOR 300mm MIN.

FIXING LUG

THE SIZE OF S.S. FIXING LUG TO BE 1.5mm THK AND SPACING @300mm C/C MAX. UNLESS OTHERS STATED.

1.5mm THK S.S. FIXING LUG

IN-SITU WINDOW FINING LUG

MS FLAT HEAD S.S. SCREW

65x5x3.5mm THK ALUM. ANGLE (FOR 50 SECTION)

65x5x3.5mm THK ALUM. ANGLE (FOR 70 SECTION)

65x5x3.5mm THK ALUM. ANGLE (FOR 60&10-15)

EQ, EQ

50/70

SECTION A-A

GLASS (INSIDE)

GLASS (OUTSIDE)

0.2MMALY WHITE

+0.78P/B

LAM

HEAT STRENGTHENED GLASS (INSIDE)

HEAT STRENGTHENED GLASS (OUTSIDE)

12mm THK AIR SPACE

TEMPERED GLASS (INSIDE)

FEATHERED GLASS (INSIDE)

1.5mm RESIN + DECORATIVE MESH

PRIMARY SEAL @ BOTH SIDES

STRUCTURAL SEALANT

ALLOWABLE STRENGTH = 138 MPa

(FOR SHORT TERM WIND LOAD ONLY)

WIND OF ORIGINATE WIND

WIND OF ORIGINATE WIND

LOCK MIDDLE LINE

LOCK BOTTOM TRANSVERSE LINE

WIND OF ORIGINATE WIND

WIND OF ORIGINATE WIND

WIND OF ORIGINATE WIND

WIND OF ORIGINATE WIND

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WIND OF OR

附件1

啟德6551 (NKIL 6551)

Pull Out Test for Anchor Bolt (螺絲拉力測試) & Required Tightening Torque (螺母的扭矩測試)

Main Contractor: 新輝(建築管理)有限公司

Sub-contractor: 美特鋁質有限公司

座數	T1-T9.9A										Total
	T1-1 (W8/T1)		T8-1 (W2/T8)		T8-2 (W5/T8)		T9A-1 (W5A/T9A)		T9A-2 (W16/T9A)		
27/F									BT5	BT1A	8
								2	2		
								BB5	BBB2A		
								2	2		
26/F			BT2	BB2	BT2	BB2	BT1	BB1			12
			2	2	2	2	2	2			
25/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
23/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
22/F			BT2	BB2	BT2	BB2	BT1	BB1			12
			2	2	2	2	2	2			
21/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
20/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
19/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
18/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
17/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
16/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
15/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
12/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
11/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
10/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
9/F	BT1	BB3	BT2	BB2	BT2	BB2	BT1	BB1			16
	2	2	2	2	2	2	2	2			
8/F	BT1	BB3	BT2	BB2			BT1	BB1			12
	2	2	2	2			2	2			
7/F	BT1	BB3	BT2	BB2			BT1	BB1			12
	2	2	2	2			2	2			
6/F	BT1	BB3	BT2	BB2			BT1	BB1			12
	2	2	2	2			2	2			
5/F	BT1	BB3	BT2	BB2			BT1	BB1			12
	2	2	2	2			2	2			
3/F	BT1	BB3	BT2	BB2			BT1	BB1			12
	2	2	2	2			2	2			
2/F	BT1	BB3	BT2	BB2			BT1	BB1			12
	2	2	2	2			2	2			
Total	76		84		60		84		8		312

拉螺絲型號:	HIST3-R M10	HIST3-R M12
Total Anchor Bolt (T1-T9.9A)	312	2
Pull Out Test 需檢測數量 (1% / 5 nos)	5	2
驗收要求	7.5 kN	10.05 kN
檢測位置		
已檢測數量		

拉螺絲型號:	HIST3-R M10	HIST3-R M12
Total Anchor Bolt (T1-T9.9A)	312	2
Required Tightening Torque 需檢測數量 (100%)	312	2
驗收要求	45Nm	60Nm
已檢測數量		

Date: _____
Rev. _____

(其中1根待定)