

(以此為準)



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

工程指示編號:	EI- 7086	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): 10.065kN  
 2)拉爆型號: HST3-R M12 需檢驗數量: 2  
 Pull out test load(kN): 13.49kN  
 (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

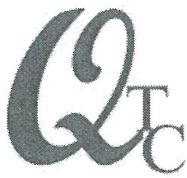
<input type="checkbox"/> 生產技術總監	<input type="checkbox"/> 連附件	<input type="checkbox"/> 技術部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 生產部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 採購部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 生產統籌部	<input type="checkbox"/> 連附件	<input 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

*發件人簽署:	<i>h</i>	*組別成員批核簽署:	<i>[Signature]</i>
傳遞編號:	/	項目經理簽署:	<i>[Signature]</i>

5/12/23



**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	<b>10.065 kN</b>

- 2.2 Model of specimen : **Hilti HST3-R M12**

Maintain period	Recommended Load	Test Load
2 minutes	6.7 kN	<b>13.49 kN</b>

**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.





## 5. Equipment

5.1 For the tensile proof loading of structural fixings, the following equipment shall be used:

- a. Hydraulic hand pump & cylinder
- b. Load cell
- c. Timing device
- d. Loading frame
- e. 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.

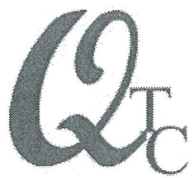
## 7. Acceptance criteria

- 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.

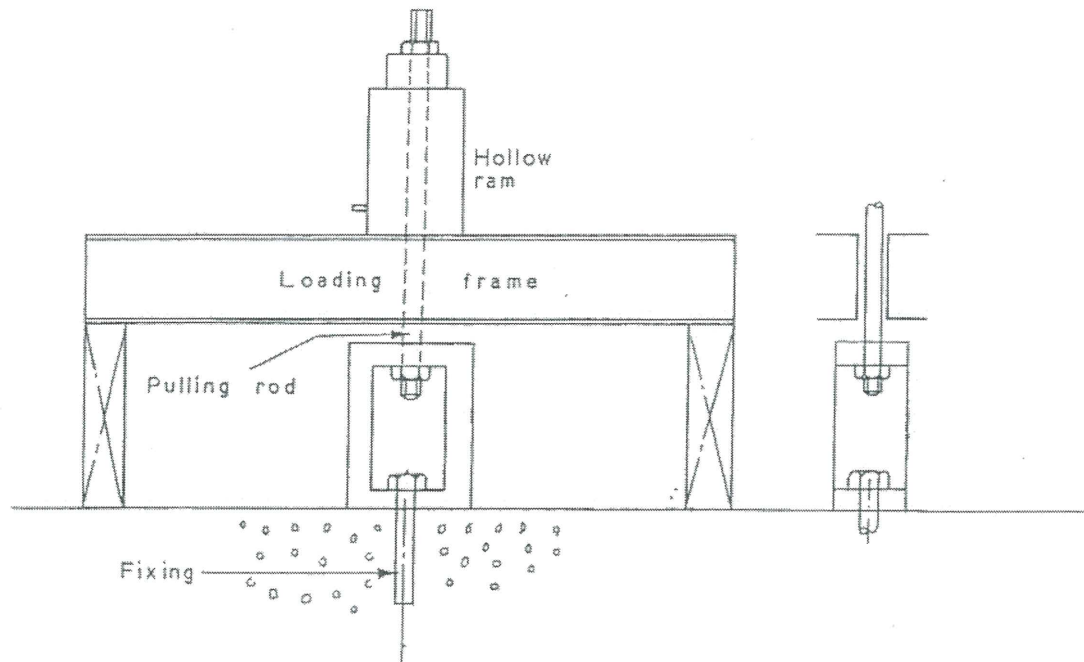
## 8. Record

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





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 DEAD AND IMPOSED LOADS 2011.
3. CODE OF PRACTICE FOR STRUCTURAL USE OF CONCRETE 2013.
4. CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.
5. CODE OF PRACTICE FOR STRUCTURAL USE OF GLASS 2018.
6. STRUCTURAL USE OF ALUMINIUM, BS 8116-1:1991. (WIND LOAD FACTOR OF 1.4 FOR ALUMINIUM DESIGN TO PMP APP5)
7. BUILDING (CONSTRUCTION) REGULATIONS CAP 123.
8. AP-37 CURTAIN WALL, WINDOW AND WINDOW WALL SYSTEM.
9. AP-110 PROTECTIVE BARRIERS.
10. AP-116 ALUMINIUM WINDOW.

## DESIGN WIND LOAD

CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2004.

HEIGHT ABOVE GROUND LEVEL	VERTICAL SURFACE
BASIC WIND PRESSURE	<100m
TOPOGRAPHY FACTOR (S <sub>z</sub> )	2.86kPa
PRESSURE COEFFICIENT (C <sub>p</sub> )	1.00
DESIGN WIND PRESSURE	+1.0/-1.4
	+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.	UNIFORMLY APPLIED (kN/m)	CONCENTRATED LOAD DISTRIBUTED LOAD TO BE APPLIED ON THE INFILL BETWEEN FLOOR AND TOP RAIL (kPa)	TO BE APPLIED ON ANY PART OF THE INFILL BETWEEN FLOOR AND TOP RAIL (kN)
AREAS WHERE CONGREGATION OF PEOPLE IS NOT EXPECTED	0.75	1.0	0.5

## STEEL

ALL STRUCTURAL STEEL SECTIONS SHALL BE OF GRADE S275 JO CLASS 1 WELDABLE STRUCTURAL STEEL AND COMPLYING 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 85 μm COATING THICKNESS.

ALL CUT/WELDED AREAS IN GALVANIZED STEEL TO BE MAKE GOOD BY AT LEAST TWO COATS OF ZINC RICH PRIMER TO BS 452.

DENSITY	77kN/m <sup>3</sup>
YOUNG'S MODULUS	205,000MPa
YIELD STRENGTH	275MPa
MINIMUM TENSILE STRENGTH	430MPa
DESIGN TENSILE STRENGTH (1516mm)	275MPa
DESIGN TENSILE STRENGTH (1540mm)	265MPa

## ALUMINIUM PANEL

ALL ALUMINIUM PANEL TO BE GRADE 3004-H14 TO BS EN 485-2; 2008 AND BS EN 573-3:2009

DENSITY	27.2kN/m <sup>3</sup>
YOUNG'S MODULUS	70,000 N/mm <sup>2</sup>
0.2% PROOF STRESS	125 N/mm <sup>2</sup>
MINIMUM TENSILE STRENGTH	145 N/mm <sup>2</sup>
LIMITING BENDING STRENGTH	125 N/mm <sup>2</sup>
LIMITING TENSILE STRENGTH	135 N/mm <sup>2</sup>
LIMITING SHEAR STRENGTH	75 N/mm <sup>2</sup>

## ALUMINIUM EXTRUSION

UNLESS OTHERWISE STATED, ALL ALUMINIUM EXTRUSIONS SHALL BE GRADE 6063-15/6063-16/6061-T6 AND COMPLY WITH BS EN 755-2 AND BS EN 573-3.

DENSITY	27.2kN/m <sup>3</sup>		
YOUNG'S MODULUS	70,000MPa		
6063-16	6061-T6	6063-T5	
0.2% PROOF STRESS	170MPa	240MPa	110MPa
MINIMUM TENSILE STRENGTH	215MPa	260MPa	150MPa
LIMITING BENDING STRENGTH	180MPa	240MPa	110MPa
LIMITING TENSILE STRENGTH	175MPa	260MPa	130MPa
LIMITING SHEAR STRENGTH	95MPa	145MPa	65MPa

## FASTENERS/SCREWS

ALL STAINLESS STEEL SCREW AND BOLT SHALL BE GRADE A4-70 AND COMPLY WITH BS EN ISO 3506.

0.2% PROOF STRESS	450MPa
MINIMUM TENSILE STRENGTH	700MPa
DESIGN TENSILE STRENGTH	450MPa
DESIGN SHEAR STRENGTH	311MPa
DESIGN BEARING STRENGTH	828MPa

PROTECTION OF BI-METALLIC CORROSION (BITUMEN PAINT ETC.)

ALL EXPOSED SURFACE OF ALUM. EXTRUSION SHALL BE FINISHED WITH PVDF COATING @ 40 MICRONS

ALL SCREWS SHOULD BE M5 S.S. SCREW SPACING @300k/c MAX. UNLESS OTHERWISE STATED.

## ANCHOR BOLT

1. ALL ANCHOR BOLT SHALL BE ACCORDING TO MANUFACTURER'S TECHNICAL DATA.
2. INSTALLATION OF ANCHOR BOLT FOLLOW WITH MANUFACTURER'S RECOMMENDATION.
3. FACTOR OF SAFETY = 3

B.D. REF.	TYPE	MINIMUM CONCRETE THICKNESS (mm)	EFFECTIVE ANCHORAGE DEPTH (mm)	MINIMUM EDGE DISTANCE (mm)	MINIMUM SPACING (mm)	RECOMMENDED TENSILE FORCE (kN)	RECOMMENDED SHEAR FORCE (kN)	PULL-OUT TEST LOAD (kN)	CONCRETE FACTOR
BD-AF 149	"HILTI" HST-R M10 SAFETY ANCHOR BOLTS	120	60	45 (S80)	40 (C25)	5.0	8.4	1.50 x 5.0 = 7.50	10.005
BD-AF 149	"HILTI" HST-R M12 SAFETY ANCHOR BOLTS	140	70	55 (S110)	50 (C27)	6.7	12.2	1.50 x 6.7 = 10.05	15.49

## GLASS

ALL GLASS PANELS SHALL BE COMPLIED WITH BS 952 AND DESIGN TO CODE OF PRACTICE FOR STRUCTURAL USE OF GLASS 2018.

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

DENSITY	26kN/m <sup>3</sup>
YOUNG'S MODULUS	70,000MPa

ULTIMATE DESIGN STRENGTH OF GLASS

BENDING STRENGTH (SHORT TERM DURATION)

HEAT STRENGTHENED GLASS(HS)	40MPa
TEMPERED GLASS(TP)	80MPa

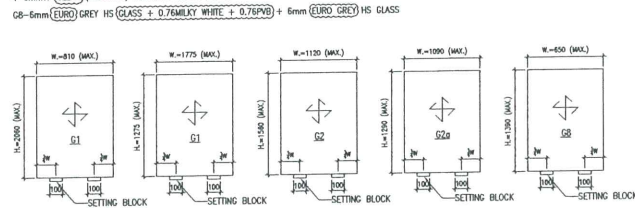
ALL TEMPERED GLASS SHALL COMPLY WITH HEAT SOAK TEST REQUIREMENT IN ACCORDANCE WITH PMP APP 37-2022. HEAT SOAK PROCESS CONFORMING TO BS EN 14179-1:2016 AND COMPLYING WITH CODE OF PRACTICE FOR STRUCTURAL USE OF GLASS 2018 SHOULD BE CARRIED OUT.

G1-8mmHS (P0632/ASA ON CLEAR F2) + 12mm AIR GAP + 10mmTP THK (CLEAR GLASS) (I.G.U.)

G2-8mmHS (P0632/ASA ON CLEAR F2) + 12mm AIR GAP + 8mmTP THK (CLEAR GLASS) (I.G.U.)

G3a-8mmHS (P0632/ASA ON CLEAR F2) + 12mm AIR GAP + 8mmTP (CLEAR GLASS) + 1.52PMB + 6mmTP (CLEAR) (PLANNING) FEATURED GLASS (I.G.U.)

G3b-6mm (EURO) GREY HS (GLASS + 0.76MLKY WHITE + 0.76PVB) + 6mm (EURO GREY) HS GLASS

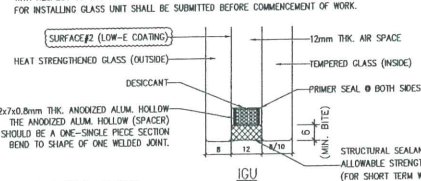


## TYPICAL GLASS DETAIL

FOR DOUBLE GLAZING GLASS UNIT (I.G.U.)

QUALITY ASSURANCE DOCUMENT SUCH AS TEST REPORT / CERTIFICATES INDICATING COMPLIES WITH ASTM E2190 OR EQUIVALENT WITH RESPECT TO THE SEAL PERFORMANCE.

FOR INSTALLING GLASS UNIT SHALL BE SUBMITTED BEFORE COMMENCEMENT OF WORK.



## STAINLESS STEEL

ALL STAINLESS STEEL SECTION BE OF GRADE 304 AND COMPLYING WITH BS EN 10088 PART 1-3 : 2005

DENSITY	8000kg/m <sup>3</sup>
MOODULES OF ELASTICITY	200,000 N/mm <sup>2</sup>
0.2% PROOF STRESS	200 N/mm <sup>2</sup>
TENSILE STRENGTH	530 N/mm <sup>2</sup>
DESIGN BENDING STRENGTH	200 N/mm <sup>2</sup>

## SEALANT, GASKET AND SETTING BLOCK

ALL STRUCTURAL SEALANT SHALL BE "DOWSIL 983" (BO-SS001), ALLOWABLE STRESS = 138kPa.

ALL WEATHER SEALANT SHALL BE "DOWSIL 781".

ALL SETTING BLOCK SHALL BE SILICONE RUBBER WITH HARDNESS OF 85±5 SHORE A.

MINIMUM 100mm IN LENGTH AT 1/4 SPAN UNLESS OTHERWISE STATED

ALL GASKET SHALL BE SILICONE RUBBER WHEN IN CONTACT WITH SEALANT, WITH HARDNESS OF 65±5 SHORE A.

## ISOLATOR

PVC TAPE TO BE APPLIED BETWEEN DISSIMILAR METAL TO PREVENT BATTERY CORROSION TO P0484.

## CONCRETE

ALL CONCRETE STRUCTURES SHOWN IN THIS SUBMISSION ARE FOR INFORMATION ONLY.

CONCRETE STRENGTH SHALL BE 45MPa (M40)

Item	WINDOW MARK	GLAZING TYPE	TOP HUNG (THIS SIDE HUNG LEAD)	SASH WIDTH (mm)	SASH HEIGHT (mm)	4 BAR HEDGE TYPE	WEIGHT (kg)	LOADING (kg)	LOADING (kg)	LOADING (kg)	
1	W17-T1	G1	TH	717	2409	563	2255	72.67	120	96	
2	W18-T1	G1	TH	668	2409	512	2255	66.99	120	96	
3	W11-T1	G1	TH	717	2409	563	2255	72.67	120	96	
4	W12-T1	G1	TH	752	2409	598	2255	76.57	120	96	
5	W19-T2	G1	TH	752	2409	598	2255	76.57	120	96	
6	W16-T2	G1	TH	752	2409	598	2255	76.57	120	96	
7	W15-T2	G1	TH	727	2409	563	1878	62.96	120	96	
8	W5-T3	G1	TH	702	2409	548	2255	71.00	120	96	
9	W7-T3	G1	TH	752	2409	598	2255	76.57	120	96	
10	W10-T5	G1	TH	752	2409	598	2255	76.57	120	96	
11	W19-T5	G1	TH	702	2409	548	2255	71.00	120	96	
12	W16-T6	G1	TH	752	2409	598	2255	76.57	120	96	
13	W6-T7	G1	TH	702	2409	548	2255	71.00	120	96	
14	W7-T7	G1	TH	717	2409	563	2255	72.67	120	96	
15	W8-T7	G1	TH	752	2409	598	2255	76.57	120	96	
16	W12-T8	G1	TH	702	2409	548	2255	71.00	120	96	
17	W5-T8	G1	TH	702	2409	548	2255	71.00	120	96	
18	W18-T8	G1	TH	752	2409	598	2255	76.57	120	96	
19	W19-T8	G1	TH	717	2409	563	2255	72.67	120	96	
20	W11-T9	G1	TH	717	2409	563	2255	72.67	120	96	
21	W13-T9A	G2a	TH	2409	717	2409	563	2255	86.13	120	96
22	W15-T9A	G1	TH	627	2409	473	2255	63.64	120	96	
23	W16-T9A	G1	TH	787	2412	633	2258	80.58	120	96	

## DRIVE PIN

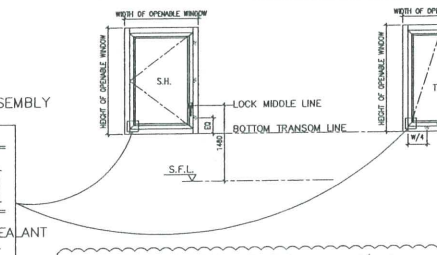
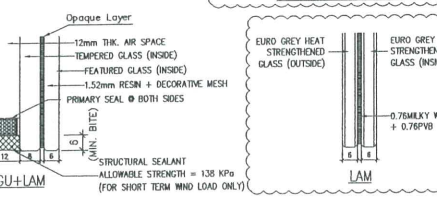
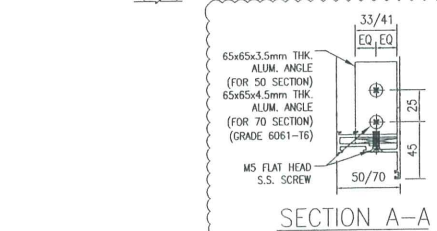
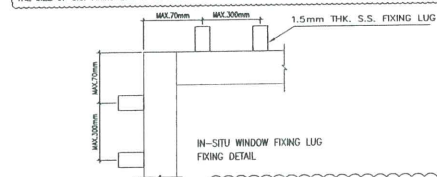
DRIVE PIN TO BE "HILTI" X-P 27 PB. DESIGN & INSTALLATION SHOULD BE COMPLIED WITH MANUFACTURER'S RECOMMENDATION RECOMMEND TENSILE OR SHEAR LOAD+1.6KN MIN. EMBED DEPTH=25mm FACTOR OF SAFETY=4.0

## WATERPROOFING COATING

ALL WATERPROOFING COATING SHALL BE (MASTERSSEAL 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.



Item	WINDOW MARK	GLAZING TYPE	SASH WIDTH (mm)	SASH HEIGHT (mm)	Glass Width (mm)	Glass Height (mm)	WEIGHT (kg)	MAX LOADING (kg)	80% LOADING (kg)	
1	W17-T1	G1	717	2409	563	2255	72.67	120	96	
2	W18-T1	G1	668	2409	512	2255	66.99	120	96	
3	W11-T1	G1	717	2409	563	2255	72.67	120	96	
4	W12-T1	G1	752	2409	598	2255	76.57	120	96	
5	W19-T2	G1	752	2409	598	2255	76.57	120	96	
6	W16-T2	G1	752	2409	598	2255	76.57	120	96	
7	W15-T2	G1	727	2409	563	1878	62.96	120	96	
8	W5-T3	G1	702	2409	548	2255	71.00	120	96	
9	W7-T3	G1	752	2409	598	2255	76.57	120	96	
10	W10-T5	G1	752	2409	598	2255	76.57	120	96	
11	W19-T5	G1	702	2409	548	2255	71.00	120	96	
12	W16-T6	G1	752	2409	598	2255	76.57	120	96	
13	W6-T7	G1	702	2409	548	2255	71.00	120	96	
14	W7-T7	G1	717	2409	563	2255	72.67	120	96	
15	W8-T7	G1	752	2409	598	2255	76.57	120	96	
16	W12-T8	G1	702	2409	548	2255	71.00	120	96	
17	W5-T8	G1	702	2409	548	2255	71.00	120	96	
18	W18-T8	G1	752	2409	598	2255	76.57	120	96	
19	W19-T8	G1	717	2409	563	2255	72.67	120	96	
20	W11-T9	G1	717	2409	563	2255	72.67	120	96	
21	W13-T9A	G2a	2409	717	2409	563	2255	86.13	120	96
22	W15-T9A	G1	627	2409	473	2255	63.64	120	96	
23	W16-T9A	G1	787	2412	633	2258	80.58	120	96	

B.D. REF :

ARCHITECT : **WONG TUNG & PARTNERS LIMITED** ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER : **SUN HUNG KAI** ARCHITECTS AND ENGINEERS LTD.

SUN HUNG KAI CENTRE, WANCHAI, HONGKONG TEL: 28279111 FAX: 28272884

FAÇADE CONSULTANT : **ALPHA CONSULTING LIMITED** Steel Structure & Façade Specialist

MAIN CONTRACTOR : **Sanfield Engineering Construction Ltd.**

CLIENT : **SUN HUNG KAI** REAL ESTATE AGENCY LTD. 42/F SUN HUNG KAI CENTRE, WANCHAI, HONGKONG

NOTE :

1. ALL DIMENSIONS ARE IN mm.
2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND :

- X1 --- DETAIL MARK NO.
- X001 --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
2. S.F.L --- STRUCTURAL FLOOR LEVEL
3. (R) --- REVERSED DETAIL

C	21/04/2023	REVISION SUBJECT TO ALPHA COMMENT	YI
B	15/03/2023	REVISION SUBJECT TO ALPHA COMMENT	YI
A	3/11/2022	GENERAL REVISION	YI
NO.	DATE	REVISION	YI

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:	HST3-R M10	HST3-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	10.065 kN	13.49 kN
檢測位置		
已檢測數量		

拉螺絲型號:	HST3-R M10	HST3-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		