

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

工程指示編號:	EI- 5836	修改版本:	-
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Anchor Bolt的Pull Out Test Method Statement - Glass & Alum Cladding (QTC Lab)	日期:	13/03/2023

<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Anchor Bolt的Pull Out Test Method Statement - Glass & Alum Cladding (QTC Lab) Hilti HST3-R M8 Hilti HST3-R M10
完成上列要求日期: 16/03/2023

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:	

GENERAL NOTES FOR TOWER CURTAIN WALL (TOWER 1,2,3) (3/F-R/F)

- 1. DESIGN CODES:**
- BUILDING (CONSTRUCTION) REGULATIONS, HONG KONG.
 - CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011, HONG KONG.
 - CODE OF PRACTICE FOR THE STRUCTURAL USE OF CONCRETE 2013, HONG KONG.
 - CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2004.
 - CODE OF PRACTICE FOR DEAD AND IMPOSED LOADS 2011.
 - BS 8118 - THE STRUCTURAL USE OF ALUMINIUM, PART 1 - 1991. (WIND LOAD FACTOR COMPLY TO PNAP APP-53)
 - CODE OF PRACTICE FOR STRUCTURAL USE OF GLASS 2018.
 - STRUCTURAL DESIGN FOR OF STAINLESS STEEL, THE STEEL CONSTRUCTION INSTITUTE PUBLICATION P291 (PUBLISHED 2002).

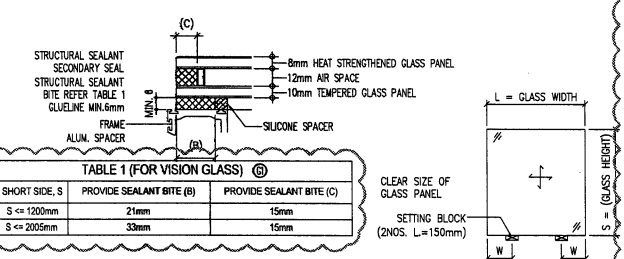
- 2. DESIGN LOADS:**
- WIND LOAD (TOPOGRAPHIC FACTOR $S_a = 1$):
HEIGHT ABOVE GROUND LEVEL = 151.8 - 5.91 = 145.89m
BASIC WIND LOAD: 3.05 kPa (BELOW 150m) FOR TOWER
DESIGN WIND LOAD ($C_p = +1.0/-1.4$): $3.05 \times (C_p = +1.0/-1.4) = +3.05/-4.27$ kPa (FOR CURTAIN WALL)
DESIGN WIND LOAD ($C_p = -2.2$): $3.05 \times (C_p = -2.2) = -6.71$ kPa (FOR EDGE OF ROOF)
 - IMPOSED LOAD: (FOR PROTECTIVE BARRIER)
HORIZONTAL IMPOSED LOAD SHALL BE COMPLIED WITH CODE OF PRACTICE FOR DEAD & IMPOSED LOADS 2011.
FOR AREAS (WHERE CONGREGATION OF PEOPLE IS NOT EXPECTED):
1) LIVE LOAD TO BE APPLIED AT A HEIGHT OF 1.1m ABOVE F.F.L. = 0.75 kN/m²
2) UNIFORMLY DISTRIBUTED LOAD TO BE APPLIED ON THE INFILL BETWEEN FLOOR AND TOP RAIL = 1.0 kPa
3) CONCENTRATED LOAD TO BE APPLIED ON ANY PART OF THE INFILL BETWEEN FLOOR AND TOP RAIL = 0.5 kN
 - DEAD LOAD:
GLASS WEIGHT: 26 kN/m²
STEEL WEIGHT: 77 kN/m²
ALUMINIUM WEIGHT: 27.2 kN/m²

- 3. ALUMINIUM ALLOY:**
- ALUMINIUM SHEET:
ALL ALUMINIUM SHEET TO BE ALLOY 3003-H14 TO ALUMINIUM AND ALUMINIUM ALLOYS - SHEET, STRIP AND PLATE, BS EN 485-2:2006 & ALUMINIUM AND ALUMINIUM ALLOYS CHEMICAL COMPOSITION AND FORM OF WROUGHT PRODUCTS, BS EN 573-3:2009.
0.2% PROOF (YIELD) STRENGTH = 125 MPa
MINIMUM ULTIMATE TENSILE STRESS = 145 MPa
MODULUS OF ELASTICITY (E) = 70000 MPa
 - ALUMINIUM EXTRUSION: IN ACCORDANCE WITH DESIGN CODE BS 8118-1:1991, COMPLY TO ALUMINIUM AND ALUMINIUM ALLOYS, EXTRUDED ROD/BAR, TUBE AND PROFILES, BS EN 755-2:2006 & ALUMINIUM AND ALUMINIUM ALLOYS CHEMICAL COMPOSITION AND FORM OF WROUGHT PRODUCTS, BS EN 573-3:2009.
MODULUS OF ELASTICITY (E) = 70000 MPa
- | ALLOY NAME: | 6063-T5 | 6063-T6 | 6061-T6 |
|--|-----------------------------------|-----------------------------------|-----------------------------------|
| MINIMUM 0.2% PROOF STRENGTH: | $f_{0.2} = 110$ N/mm ² | $f_{0.2} = 160$ N/mm ² | $f_{0.2} = 240$ N/mm ² |
| LIMITING STRESS FOR BENDING AND OVERALL YIELDING: | $P_o = 110$ N/mm ² | $P_o = 170$ N/mm ² | $P_o = 240$ N/mm ² |
| LIMITING STRESS FOR LOCAL CAPACITY OF THE SECTION IN TENSION OR COMPRESSION: | $P_o = 130$ N/mm ² | $P_o = 175$ N/mm ² | $P_o = 260$ N/mm ² |
| LIMITING STRESS IN SHEAR: | $P_{sv} = 85$ N/mm ² | $P_{sv} = 85$ N/mm ² | $P_{sv} = 145$ N/mm ² |
| LIMITING STRESS IN BEARING: | $P_{bs} = 130$ N/mm ² | $P_{bs} = 175$ N/mm ² | $P_{bs} = 260$ N/mm ² |

- 4. STRUCTURAL MILD STEEL AND FINISH:**
- ALL MILD STEEL SHALL BE GRADE S275 (CLASS 1) TO CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011 AND COMPLY TO BS EN 10025:2004 (FOR JO) & BS EN 10210-1:2006 (FOR J0H).
 - SURFACE TREATMENT SHALL BE HOT-DIP GALVANIZED COMPLIED WITH BS EN ISO 1461:2009.
(MIN. THICKNESS = 85 MICRONS)
FOR THICKNESS t : $1 \leq t \leq 16$ mm (GRADE S275)
YOUNG'S MODULUS = 205,000 N/mm²
DENSITY = 77 kN/m³
YIELD STRENGTH = 275 N/mm²
TENSILE STRENGTH = 275 N/mm²
BENDING STRENGTH = 275 N/mm²
SHEAR STRENGTH = 158.8 N/mm²
- 5. GLASS:**
- GLASS USED TO BE:
1) IGU GLASS (8mm THICK HEAT STRENGTHENED GLASS + 12mm THICK AIR + 10mm THICK TEMPERED GLASS)
2) IGU GLASS (8mm THICK HEAT STRENGTHENED GLASS + 12mm THICK AIR + 12mm THICK TEMPERED GLASS)
3) 10mm THICK HEAT STRENGTHENED GLASS
4) 12mm THICK HEAT STRENGTHENED GLASS
 - DESIGN OF GLASS SHALL COMPLY TO BS 6262:2005.
-ALLOWABLE BENDING STRENGTH (TEMPERED) = 80 N/mm² (FOR CLEAR GLASS)
-ALLOWABLE BENDING STRENGTH (HEAT STRENGTHENED) = 40 N/mm² (FOR CLEAR GLASS)
-YOUNG'S MODULUS = 70,000 N/mm²
 - GLASS MATERIALS SHALL COMPLY TO BS 952:1995.
 - RESIDUAL SURFACE COMPRESSION FOR TEMPERED GLASS TO BE NOT LESS THAN 69 MPa.
 - RESIDUAL SURFACE COMPRESSION FOR HEAT STRENGTHENED GLASS TO BETWEEN 24 AND 52 MPa.
 - FULLY TEMPERED GLASS TO BE 100% HEAT SOAK TESTED IN ACCORDANCE WITH BS EN 14179-1:2016 & COMPLIED WITH PNAP APP-37.

- 6. WELDING FOR STRUCTURAL STEEL:**
- ALL WELDING SHALL BE COMPLIED WITH BS EN 1011-1:2009.
 - ALL WELDS SHALL BE RECEIVED 2 COATS OF ZINC CHROMATE PRIMER TO BS 6852:2003.
 - ALL WELDING SHALL BE CARRIED OUT BY QUALIFIED WELDER, WELDER SHALL BE TESTED TO BS EN ISO 9606-1:2013.
 - ELECTRODES USED IN WELD SHALL BE GRADE E33 COMPLIED WITH BS EN ISO 2560:2009.
 - UNLESS OTHERWISE INDICATED, ALL WELDS SHALL BE 5mm THICK FILLET WELD ALL AROUND.
 - DESIGN WELD STRENGTH: $p_w = 220$ MPa.

- 7. SILICONE SEALANT, GASKET & SETTING BLOCK:**
- "DOW CORNING(R) STRUCTURAL SILICONE SEALANT TYPE 983" TO BE USED AS STRUCTURAL GLAZING SEALANT. (BD. REF. NO. BS-SS001)
ALLOWABLE DESIGN STRENGTH = 138kPa FOR WIND LOAD CHECKING ONLY.
 - ALL GASKET USED SHALL BE DENSE EXTRUDED NEOPRENE WITH A SHORE HARDNESS OF 70±5°.
 - SETTING BLOCKS SHALL BE DENSE EXTRUDED SILICONE WITH A SHORE HARDNESS OF 85±5°
OUTDIAMETER SHORE A, MIN. LENGTH OF 150mm & MIN. WIDTH CORRESPONDING TO THE GLASS THICKNESS & LOCATED AT GLASS QUARTER POINTS.



- 8. FASTENERS**
ALL FASTENERS, SCREWS, BOLTS & NUTS SHALL BE STAINLESS STEEL GRADE A4-70 COMPLYING WITH BS EN ISO 3506:2009.
- | PROPERTY | VALUE |
|-------------------------------------|-----------|
| MINIMUM YIELD STRENGTH, Y_{b0} | = 450 MPa |
| ULTIMATE TENSILE STRENGTH, U_{b0} | = 700 MPa |
| SHEAR STRENGTH, P_{b0} | = 311 MPa |
| TENSILE STRENGTH, P_{t0} | = 450 MPa |
| BEARING STRENGTH, P_{b0} | = 628 MPa |
- UNLESS OTHERWISE SPECIFIED, ALL SCREWS SHALL BE M5 AT 300 C/C GRADE A4-70 STAINLESS STEEL COMPLIED WITH BS EN ISO 3506:2009.

- 9. FIRE STOP AND THERMAL INSULATION:**
- THERMAL INSULATION SHALL BE "ROXUL CURTAINROCK 80 PRO" (THK=50mm, DENSITY=128kg/m³)
BD REF.: BD-D163
 - FIRE STOP SHALL BE "ROXUL ROCKSAFE" (THK=135mm, DENSITY=60kg/m³)
BD REF.: BD-F5011

- 10. ANCHOR BOLT (FOR ALUM. CAPPING & GLASS CLADDING ONLY)**
- ALL DRILL-IN ANCHOR BOLTS SHALL BE HILTI HST3-R AS SHOWN IN THE DRAWINGS, AND SHALL BE DESIGNED TO THE INSTALLATION OF DRILL-IN ANCHOR BOLTS SHALL BE STRICTLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION & RECOMMENDATION.
 - COVER-METER SHOULD BE APPLIED TO PREVENT ANCHOR BOLTS HIT THE EXISTING REINFORCEMENT BARS.

FOR CRACKED CONCRETE TABLE:

ANCHOR TYPE	MINIMUM SPACING (mm)	MINIMUM EDGE DISTANCE (mm)	EFFECTIVE ANCHORAGE LENGTH (mm) TO SOUND CONCRETE	RECOMMENDED LOAD (kN) FOR CRACKED CONCRETE INFLUENCING FACTOR FOR GRADE 600 CONCRETE = 1.55	TENSION TEST TENSION (kN)	TENSION TEST SHEAR (kN)	BD REF. NO.	MINIMUM BASE MATERIAL THICKNESS (mm)
HILTI HST3-R M8	35 (50)	40 (50)	47	2.8x1.55 = 4.34	5.2x1.55 = 8.06	6.57	BD-AF151	100
HILTI HST3-R M10	40 (55)	45 (60)	60	5x1.55 = 7.75	8.4x1.55 = 13.02	11.63	BD-AF149	120

INFLUENCING FACTOR FOR GRADE 600 CONCRETE = 1.55, TEST LOAD SHOULD BE 1.5xRECOMMENDED TENSION LOAD.

- 11. ALUMINIUM STUD BY DRAWN ARC STUD WELD**
ALUMINIUM STUD SHALL BE M6 GRADE 5754 AND DESIGNED TO BS 8118-1:1991.
DESIGN AND QUALITY ASSURANCE OF DRAWN ARC STUD WELD SHALL COMPLY WITH BS EN ISO 14555:2017.
ALUMINIUM STUD TYPE SHALL BE TREADED STUD (PT) AND COMPLY WITH BS EN ISO 13918:2018.
MINIMUM 0.2% PROOF STRENGTH: $f_{0.2} = 60$ N/mm²

- 12. CAST-IN CHANNEL (BD REF.: BD-AF132 & BD-AF134)**
- ALL CAST-IN CHANNEL USED TO BE "HILTI HAC-50, HAC-60 & HAC-70" CHANNEL TO CRACKED CONCRETE
 - THE INSTALLATION OF CHANNEL FIXING SHALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND LIMITATION INCLUDING CONCRETE GRADE, EDGE DISTANCE, ANCHOR SPACING ETC.
 - USED TO BE HBC-C 8.8-M16x50mm LONG WHICH COMPLY WITH BS 3692:1987
 - 2 NOS. OF M16 GRADE 8.8 F.T. BOLT SPACING REFER TO EMBED DETAIL (DWG. NO. BD-TCW-ED01)
 - HAC-70 W/ 2 NOS. M16 G.M.S. HBC-C T-BOLT (GR. 8.8)
 - BOTH 350mm, 450mm LENGTH OF HILTI CAST-IN CHANNEL WILL BE TESTED OF THE TEST LOAD.
 - METHOD STATEMENT OF TEST WILL BE SUBMITTED ONE WEEK BEFORE THE COMMENCEMENT OF THE CAST-IN CHANNEL.

CHANNEL TYPE	MIN. EDGE DIM. (a)	MIN. EDGE DIM. (b)	MIN. DEPTH DIM. (c)	RECOMMENDED LOAD FOR CHANNEL (kN)	TEST LOAD (kN) = RECOMMENDED LOAD x 1.5	BD REF. NO.	
HAC-50 W/ 2 NOS. M16 G.M.S. HBC-C T-BOLT (GR. 8.8)	50mm	75mm	125mm	TENSION: 16.2	SHEAR: 7.6	TENSION: 24.3	BD-AF134
HAC-60 W/ 2 NOS. M16 G.M.S. HBC-C T-BOLT (GR. 8.8)	75mm	100mm	170mm	TENSION: 26.7	SHEAR: 11.1	TENSION: 40.05	BD-AF132
HAC-70 W/ 2 NOS. M16 G.M.S. HBC-C T-BOLT (GR. 8.8)	75mm	100mm	200mm	TENSION: 34.0	SHEAR: 11.8	TENSION: 51.00	BD-AF134

- 13. G.M.S. CAST-IN EMBED:**
- CAST-IN EMBED BAR SHALL BE GRADE 500B TO COMPLIED WITH CS2-2012. SPECIFIED CHARACTERISTIC STRENGTH = 500 N/mm² (EMBED TYPE: EM03)
 - ALL CAST-IN PLATE SHALL BE GRADE S275 (CLASS 1) TO CODE OF PRACTICE FOR STRUCTURE USE OF STEEL 2011 AND COMPLY TO BS EN 10025:2004 (FOR JO) & BS EN 10210-1:2006 (FOR J0H). YIELD STRENGTH = 275 N/mm²
 - SURFACE TREATMENT SHALL BE HOT-DIP GALVANIZED COMPLIED WITH BS EN ISO 1461:2009. (MIN. THICKNESS = 85 MICRONS)
 - CAST-IN EMBED STEEL ROD (FOR EM09) SHALL BE GRADE S275 JO TO BE COMPLIED WITH BS EN 10025:2004.

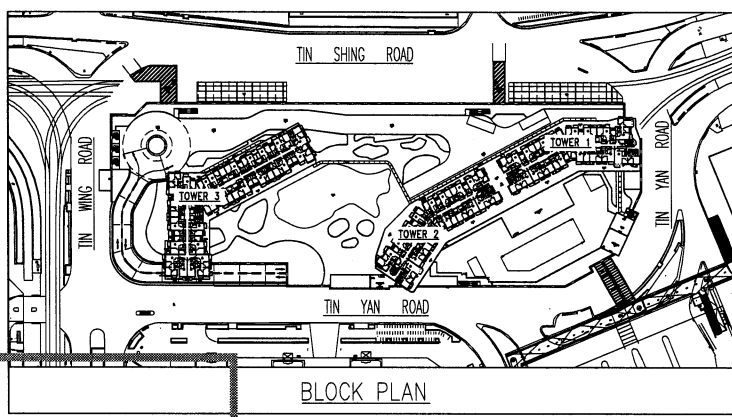
- 14. ISOLATION FOR METALS**
APPLIED A LAYER OF BITUMINOUS PAINT (COMPLY WITH BS 3416:1991) FOR PROTECTION AGAINST BI-METALLIC CORROSION FOR BARE ALUMINIUM/STEEL CONTACTED SURFACE & STEEL/CONCRETE INTERFACE.

- 15. OPENABLE WINDOW**
ALL OPENABLE WINDOW OF CURTAIN WALL ARE FOR INFORMATION ONLY AND SHOULD BE APPROVED UNDER CLOSED AND LOCKED CONDITION.

- 15a. CONCRETE GRADE (FOR INFORMATION ONLY)**
ALL R.C. STRUCTURE SHOWN IN THE SUBMISSION SHALL BE GRADE C45 COMPLY WITH CODE OF PRACTICE FOR THE STRUCTURAL USE OF CONCRETE, 2013 HONG KONG.

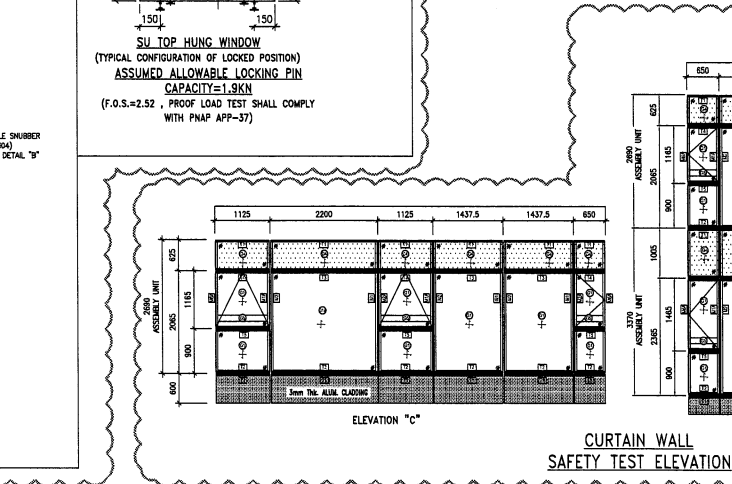
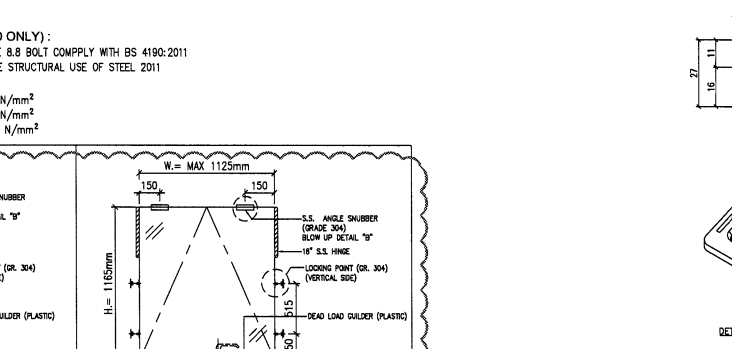
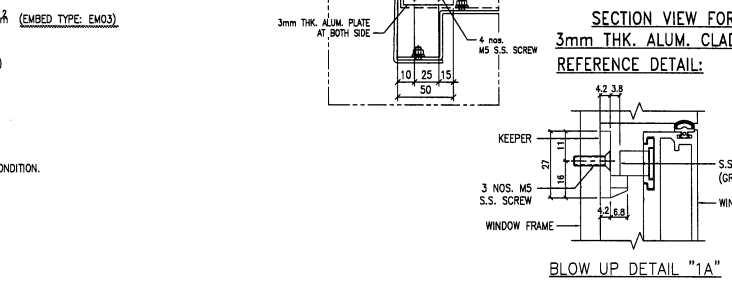
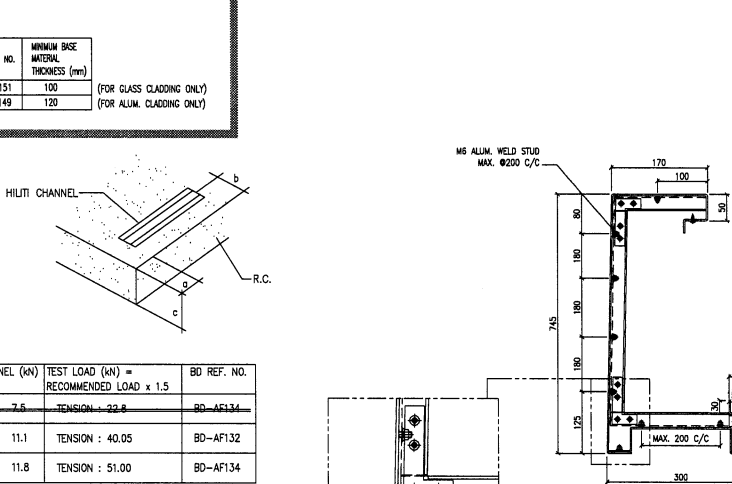
- 16. GBP APPROVAL DATE: 06/12/2018**
SUPERSTRUCTURE APPROVAL DATE: 11/07/2018

- 17. TOLERANCE OF FIXING BRACKET OF CURTAIN WALL SHALL BE ±15mm [HORIZONTAL DIRECTION : (PARALLEL / PERPENDICULAR TO CURTAIN WALL & VERTICAL DIRECTION)]**
- 18. STAINLESS STEEL:**
ALL STAINLESS STEEL TO BE GRADE 304 (1.4301) AND GRADE 316 (1.4401) TO BS EN 10088-1:2004.
YOUNG'S MODULUS = 200,000 N/mm²
DENSITY = 79 kN/m³
MIN. 0.2% PROOF STRENGTH = 210 N/mm² (FOR GRADE 304) / 220 N/mm² (FOR GRADE 316)
ULTIMATE TENSILE STRENGTH = 520 N/mm²
- 19. HOLDING DOWN BOLT (FOR EMBED ONLY):**
ALL HOLDING DOWN BOLT SHOULD BE GRADE 8.8 BOLT COMPLY WITH BS 4190:2011 AND DESIGN TO CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011
- | PROPERTY | VALUE |
|---------------------------|---|
| YOUNG'S MODULUS | 200,000 N/mm ² |
| DENSITY | 79 kN/m ³ |
| MIN. 0.2% PROOF STRENGTH | 210 N/mm ² (FOR GRADE 304) / 220 N/mm ² (FOR GRADE 316) |
| ULTIMATE TENSILE STRENGTH | 520 N/mm ² |
| SHEAR STRENGTH | 375 N/mm ² |
| TENSILE STRENGTH | 560 N/mm ² |
| BEARING STRENGTH | 1000 N/mm ² |



DRAWING LIST (FOR INFORMATION ONLY)

NO.	DRAWING No.	REV. No.	DRAWING TITLE	REFERENCE	SUBMITTED
1	BD-TCW-001	-	GENERAL NOTES FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
2	BD-TCW-SP01	A	SECTION PROPERTIES OF ALUMINIUM EXTRUSION	2nd B.D. AMENDMENT	●
3	BD-TCW-SP02	A	SECTION PROPERTIES OF ALUMINIUM EXTRUSION	2nd B.D. AMENDMENT	●
4	BD-TCW-SP03	A	SECTION PROPERTIES OF ALUMINIUM EXTRUSION	2nd B.D. AMENDMENT	●
5	BD-TCW-SP04	-	SECTION PROPERTIES OF ALUMINIUM EXTRUSION	NEW DRAWING	●
6	BD-TCW-SP05	-	SECTION PROPERTIES OF ALUMINIUM EXTRUSION	NEW DRAWING	●
7	BD-TCW-AP01	B	LOCATION PLAN FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
8	BD-TCW-ED01	C	CURTAIN WALL ELEVATION (TOWER 1)	3rd B.D. AMENDMENT	●
9	BD-TCW-ED02	C	CURTAIN WALL ELEVATION (TOWER 2)	3rd B.D. AMENDMENT	●
10	BD-TCW-ED03	C	CURTAIN WALL ELEVATION (TOWER 3)	3rd B.D. AMENDMENT	●
11	BD-TCW-ED04	C	CURTAIN WALL ELEVATION (TOWER 3)	3rd B.D. AMENDMENT	●
12	BD-TCW-ED04	-	CURTAIN WALL ELEVATION (TOWER 3)	NEW DRAWING	●
13	BD-TCW-ED01	-	CURTAIN WALL ELEVATION (TOWER 1)	NEW DRAWING	●
14	BD-TCW-ED02	-	CURTAIN WALL ELEVATION (TOWER 2)	NEW DRAWING	●
15	BD-TCW-002	B	TYPICAL DETAILS FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
16	BD-TCW-003	B	TYPICAL DETAILS FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
17	BD-TCW-004	A	TYPICAL DETAILS FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
18	BD-TCW-005	A	TYPICAL DETAILS FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
19	BD-TCW-011	-	TYPICAL DETAILS FOR TOWER CURTAIN WALL	NEW DRAWING	●
20	BD-TCW-012	C	TYPICAL DETAILS FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
21	BD-TCW-013	A	TYPICAL DETAILS FOR TOWER CURTAIN WALL	2nd B.D. AMENDMENT	●
22	BD-TCW-014	A	TYPICAL DETAILS FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
23	BD-TCW-015	-	TYPICAL DETAILS FOR TOWER CURTAIN WALL	NEW DRAWING	●
24	BD-TCW-EP01	A	EMBED LAYOUT PLAN FOR TOWER CURTAIN WALL	2nd B.D. AMENDMENT	●
25	BD-TCW-EP02	B	EMBED LAYOUT PLAN FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
26	BD-TCW-EP03	B	EMBED LAYOUT PLAN FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
27	BD-TCW-EP04	B	EMBED LAYOUT PLAN FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
28	BD-TCW-EP05	B	EMBED LAYOUT PLAN FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
29	BD-TCW-ES01	B	EMBED INSTALLATION DETAILS FOR TOWER CURTAIN WALL	3rd B.D. AMENDMENT	●
30	BD-TCW-ED01	A	EMBED DETAILS FOR TOWER CURTAIN WALL	2nd B.D. AMENDMENT	●
31	BD-TCW-ED02	A	EMBED DETAILS FOR TOWER CURTAIN WALL	2nd B.D. AMENDMENT	●



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

B.D. AMENDMENT

The works shown on these plans are Type II works.

Superstructure (Curtain Wall)

In respect of which consent is applied for the purpose of Part 3 of the Building (Administration) Regulations of the Building (Administration) Regulations.

REV	DESCRIPTION	DATE	BY
C	4th B.D. AMENDMENT	2022-10-31	CF
B	3rd B.D. AMENDMENT	2022-08-24	A
A	2nd B.D. AMENDMENT	2022-05-18	A
-	1st B.D. SUBMISSION	2018-11-18	-

CLIENT

SUN HUNG KAI REAL ESTATE AGENCY LTD.

ARCHITECT

lwk&partners architects

19/F, North Tower, World Finance Centre, Harbour City, Tsim Sha Tsui, Kowloon.
T: 852-2574 1633 F: 852-2572 4908 E: lwk@lwk.com
梁黃顯建築師(香港)事務所有限公司
九龍尖沙咀海濱城環球金融中心北座15樓

RSE:

ARUP

STRUCTURAL ENGINEER

SUN HUNG KAI ARCHITECTS AND ENGINEERS LTD.

FACADE CONSULTANT

ALPHA CONSULTING LIMITED
Steel Structure & Facade Specialist

MAIN CONTRACTOR

YEE FAI CONSTRUCTION CO., LTD.

MANUFACTURER

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)27727666

PROJECT

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

DRAWING TITLE

GENERAL NOTES FOR TOWER CURTAIN WALL

SCALE N.T.S. DATE 2018-11-18

DRAWN BY KF CHECKED BY JH

JOB NO. **J6371**

RSE (FOR SIGNATURE)

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DRAWING No. **BD-TCW-GN01** REVISION **C**