



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

工程指示編號:	EI- 8219	修改版本:	E
	HK- 1700		
工程編號:	J 861	工程名稱:	己連拿利
收件人:	生統	發件人:	細佬
工程項目:	後裝窗的模圖批核和 幕牆的模圖批核	日期:	17/09/2024

<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: 給技術部: 附頁是則師9月13日後裝窗的模圖批核和幕牆的模圖批核, ---後裝窗的興發模已批(看EI8331),請計算初步鋁料BM,注意趟摺門不用計算(圖號:J861-SD-IW-0023), 趟門和鋁窗要計算。 ---幕牆請畫鋁料模圖供興發開模
完成上列要求日期: 30/09/2024

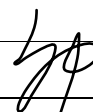
國內

<input type="checkbox"/> 生產技術總監	<input type="checkbox"/> 連附件	<input checked="" type="checkbox"/> 技術部	<input checked="" 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 type="checkbox"/> 採購部	<input 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: 傳遞編號: HK-1700	*組別成員批核簽署: 項目經理簽署:
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MEMBER : IW-01
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	689.4
Perimeter (mm)	635.6
Bounding Box - X (mm)	-45.9 to 46.1
Bounding Box - Y (mm)	-20.9 to 39.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	510937.3
Moments of inertia - Y (mm ⁴)	303324.6
Product of inertia - XY (mm ⁴)	-10921.6
Radius of gyration - X (mm)	27.2
Radius of gyration - Y (mm)	22.6
Principal moments along X-Y (mm ⁴)	511632.4 along [0.1 -1.0]
Principal moments along Y-X (mm ⁴)	511629.8 along [1.0 0.1]
Elastic Modulus - Zx (mm ²)	1 / y-max= 13060.8
Elastic Modulus - Zy (mm ²)	1 / x-max= 1941.2

MEMBER : IW-02
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	619.8
Perimeter (mm)	548.4
Bounding Box - X (mm)	-34.5 to 40.5
Bounding Box - Y (mm)	-37.6 to 32.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	465625.1
Moments of inertia - Y (mm ⁴)	208296.7
Product of inertia - XY (mm ⁴)	48388.3
Radius of gyration - X (mm)	27.4
Radius of gyration - Y (mm)	18.6
Principal moments along X-Y (mm ⁴)	189448.6 along [0.2 1.0]
Principal moments along Y-X (mm ⁴)	474771.2 along [-1.0 0.2]
Elastic Modulus - Zx (mm ²)	1 / y-max= 12400.0
Elastic Modulus - Zy (mm ²)	1 / x-max= 5141.1

MEMBER : IW-03
GRADE : 6063-T5
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	654.2
Perimeter (mm)	570.0
Bounding Box - X (mm)	-45.9 to 34.1
Bounding Box - Y (mm)	-25.1 to 32.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	141211.2
Moments of inertia - Y (mm ⁴)	487285.5
Product of inertia - XY (mm ⁴)	-32148.4
Radius of gyration - X (mm)	14.2
Radius of gyration - Y (mm)	27.2
Principal moments along X-Y (mm ⁴)	136211.6 along [1.0 -0.1]
Principal moments along Y-X (mm ⁴)	485728.0 along [0.1 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 4028.1
Elastic Modulus - Zy (mm ²)	1 / x-max= 11017.4

MEMBER : IW-04
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	365.2
Perimeter (mm)	336.9
Bounding Box - X (mm)	-38.3 to 31.7
Bounding Box - Y (mm)	-19.8 to 25.2
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	28930.0
Moments of inertia - Y (mm ⁴)	282522.0
Product of inertia - XY (mm ⁴)	23266.6
Radius of gyration - X (mm)	6.2
Radius of gyration - Y (mm)	27.1
Principal moments along X-Y (mm ⁴)	284312 along [1.0 0.1]
Principal moments along Y-X (mm ⁴)	280203.8 along [-0.1 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 1149.8
Elastic Modulus - Zy (mm ²)	1 / x-max= 7381.0

B.D. REF :

MEMBER : IW-05
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	404.9
Perimeter (mm)	355.8
Bounding Box - X (mm)	-46.2 to 33.8
Bounding Box - Y (mm)	-25.4 to 19.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	28930.4
Moments of inertia - Y (mm ⁴)	317514.2
Product of inertia - XY (mm ⁴)	-29207.9
Radius of gyration - X (mm)	8.5
Radius of gyration - Y (mm)	26.0
Principal moments along X-Y (mm ⁴)	24450.0 along [1.0 -0.1]
Principal moments along Y-X (mm ⁴)	320514.8 along [0.1 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 1157.1
Elastic Modulus - Zy (mm ²)	1 / x-max= 6676.5

MEMBER : IW-06
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	331.3
Perimeter (mm)	302.8
Bounding Box - X (mm)	-20.0 to 25.0
Bounding Box - Y (mm)	-39.8 to 30.2
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	250222.1
Moments of inertia - Y (mm ⁴)	28726.0
Product of inertia - XY (mm ⁴)	24636.1
Radius of gyration - X (mm)	27.5
Radius of gyration - Y (mm)	8.3
Principal moments along X-Y (mm ⁴)	25975.3 along [0.1 1.0]
Principal moments along Y-X (mm ⁴)	252972 along [-1.0 0.1]
Elastic Modulus - Zx (mm ²)	1 / y-max= 6261.7
Elastic Modulus - Zy (mm ²)	1 / x-max= 1189.6

MEMBER : IW-11
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	358.9
Perimeter (mm)	315.8
Bounding Box - X (mm)	-36.1 to 23.9
Bounding Box - Y (mm)	-25.7 to 19.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	29107.5
Moments of inertia - Y (mm ⁴)	140333.9
Product of inertia - XY (mm ⁴)	-20723.2
Radius of gyration - X (mm)	9.0
Radius of gyration - Y (mm)	20.2
Principal moments along X-Y (mm ⁴)	25571.9 along [1.0 -0.2]
Principal moments along Y-X (mm ⁴)	143321.5 along [0.2 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 1132.1
Elastic Modulus - Zy (mm ²)	1 / x-max= 4041.8

CLIENT : Pacific Century Premium Developments 盈科大衍地產發展

ARCHITECT : WONG TUNG & PARTNERS LIMITED ARCHITECTS & PLANNERS

MAIN CONTRACTOR : 顯利工程有限公司 HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER : SYW & ASSOCIATES LTD. 邵賢偉建築工程師

FACADE CONSULTANT:

NOTE :

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

LEGEND :

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

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

GLASS LEGEND
TG05---8mmHS LIGHT BLUE TINTED GLASS
EG01---8mmHS CLEAR GLASS +12A
+10=mmT CLEAR GLASS (GU)
BHS---8mmHS CLEAR GLASS

General comments:

- Subject to architectural/statutory compliance;
- material samples to be submitted separately for acceptance;
- exact dimension should be verified on site;

WONG TUNG & PARTNERS LTD.	
APPROVED	<input checked="" type="checkbox"/>
APPROVED AS NOTED	<input type="checkbox"/>
APPROVED AS NOTED & RESUBMIT	<input type="checkbox"/>
RESUBMIT	<input type="checkbox"/>
NO COMMENT	<input type="checkbox"/>
REFER OTHER CONSULTANT'S COMMENTS	<input type="checkbox"/>
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed By ALICE LEE	Date 13/9/2024

NO.	DATE	REVISED	BY
JOB NO. :		J-861	
PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG			
TITLE : DIE LIST FOR IN-SITU WINDOW			
DATE : 26-06-24		SCALE : 1:4 @A3	
DRAWN BY : IVAN		CHECKED BY :	
<p>MIDI ALUMINIUM FABRICATOR LTD. Units 6-8, Sunray Industrial Centre, 1/F 610 Cha Kwo Ling Road, Kowloon Tel:23489211-4 Fax:(852)27727666</p>			
DWG NO. : J861-SD-IW-0021		REV. :	

MEMBER : AW-01
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	373.4
Perimeter (mm)	342.8
Bounding Box - X (mm)	-32.3 to 32.3
Bounding Box - Y (mm)	-27.9 to 27.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	167802.5
Moments of inertia - Y (mm ⁴)	360174.0
Product of inertia - XY (mm ⁴)	-25981.0
Radius of gyration - X (mm)	21.1
Radius of gyration - Y (mm)	16.0
Principal moments along X-Y (mm ⁴)	47919.9 along [0.3 -1.0]
Principal moments along Y-X (mm ⁴)	176218.7 along [1.0 0.3]
Elastic Modulus - Zx (mm ²)	1 / y-max= 6005.9
Elastic Modulus - Zy (mm ²)	1 / x-max= 2935.0

MEMBER : AW-03
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	451.4
Perimeter (mm)	376.3
Bounding Box - X (mm)	-20.0 to 30.0
Bounding Box - Y (mm)	-28.6 to 27.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	43630.9
Moments of inertia - Y (mm ⁴)	126437.0
Product of inertia - XY (mm ⁴)	5581.1
Radius of gyration - X (mm)	10.2
Radius of gyration - Y (mm)	17.3
Principal moments along X-Y (mm ⁴)	43465.5 along [1.0 0.1]
Principal moments along Y-X (mm ⁴)	126812.4 along [-0.1 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 1534.3
Elastic Modulus - Zy (mm ²)	1 / x-max= 4518.6

MEMBER : AW-04
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	112.4
Perimeter (mm)	195.4
Bounding Box - X (mm)	-13.8 to 13.2
Bounding Box - Y (mm)	-10.8 to 9.7
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	6119.3
Moments of inertia - Y (mm ⁴)	10572.0
Product of inertia - XY (mm ⁴)	-539.3
Radius of gyration - X (mm)	7.4
Radius of gyration - Y (mm)	9.7
Principal moments along X-Y (mm ⁴)	6057.0 along [1.0 -0.1]
Principal moments along Y-X (mm ⁴)	10634.2 along [0.1 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 562.7
Elastic Modulus - Zy (mm ²)	1 / x-max= 765.9

MEMBER : AW-07
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	350.8
Perimeter (mm)	288.5
Bounding Box - X (mm)	-25.1 to 24.9
Bounding Box - Y (mm)	-32.4 to 32.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	131493.0
Moments of inertia - Y (mm ⁴)	60239.6
Product of inertia - XY (mm ⁴)	123227.9
Radius of gyration - X (mm)	18.9
Radius of gyration - Y (mm)	16.5
Principal moments along X-Y (mm ⁴)	37451.5 along [0.6 0.8]
Principal moments along Y-X (mm ⁴)	218587.5 along [-0.8 0.6]
Elastic Modulus - Zx (mm ²)	1 / y-max= 3041.1
Elastic Modulus - Zy (mm ²)	1 / x-max= 3568.4

MEMBER : AW-12
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	477.3
Perimeter (mm)	414.3
Bounding Box - X (mm)	-37.6 to 32.4
Bounding Box - Y (mm)	-33.9 to 31.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	101185.5
Moments of inertia - Y (mm ⁴)	308928.0
Product of inertia - XY (mm ⁴)	32071.0
Radius of gyration - X (mm)	14.6
Radius of gyration - Y (mm)	26.5
Principal moments along X-Y (mm ⁴)	29719.6 along [1.0 0.1]
Principal moments along Y-X (mm ⁴)	382404.7 along [-0.1 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 2880.7
Elastic Modulus - Zy (mm ²)	1 / x-max= 10329.4

MEMBER : AW-14
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	918.2
Perimeter (mm)	569.9
Bounding Box - X (mm)	-46.9 to 33.1
Bounding Box - Y (mm)	-40.3 to 40.7
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	259872.7
Moments of inertia - Y (mm ⁴)	716670.5
Product of inertia - XY (mm ⁴)	62684.4
Radius of gyration - X (mm)	16.8
Radius of gyration - Y (mm)	28.0
Principal moments along X-Y (mm ⁴)	259666.3 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	716818.8 along [0.0 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 6382.2
Elastic Modulus - Zy (mm ²)	1 / x-max= 15281.4

MEMBER : AW-15
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	886.6
Perimeter (mm)	551.0
Bounding Box - X (mm)	-40.5 to 40.5
Bounding Box - Y (mm)	-37.8 to 37.8
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	681381.3
Moments of inertia - Y (mm ⁴)	257272.2
Product of inertia - XY (mm ⁴)	0.0
Radius of gyration - X (mm)	27.8
Radius of gyration - Y (mm)	17.0
Principal moments along X-Y (mm ⁴)	257272.2 along [0.0 1.0]
Principal moments along Y-X (mm ⁴)	681381.3 along [-1.0 0.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 18020.8
Elastic Modulus - Zy (mm ²)	1 / x-max= 6363.6

MEMBER : AW-20
GRADE : 6063-T6
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	525.1
Perimeter (mm)	460.9
Bounding Box - X (mm)	-29.2 to 40.8
Bounding Box - Y (mm)	-28.5 to 27.5
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	47083.6
Moments of inertia - Y (mm ⁴)	299115.8
Product of inertia - XY (mm ⁴)	9394.7
Radius of gyration - X (mm)	9.5
Radius of gyration - Y (mm)	23.9
Principal moments along X-Y (mm ⁴)	46734.8 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	300167.5 along [0.0 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 1633.0
Elastic Modulus - Zy (mm ²)	1 / x-max= 7348.4

MEMBER : AW-22
GRADE : 6063-T5
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	160.4
Perimeter (mm)	275.4
Bounding Box - X (mm)	-22.6 to 24.4
Bounding Box - Y (mm)	-11.3 to 9.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	9095.4
Moments of inertia - Y (mm ⁴)	41827.2
Product of inertia - XY (mm ⁴)	2007.3
Radius of gyration - X (mm)	7.5
Radius of gyration - Y (mm)	14.1
Principal moments along X-Y (mm ⁴)	8972.8 along [1.0 0.1]
Principal moments along Y-X (mm ⁴)	41949.9 along [-0.1 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 685.6
Elastic Modulus - Zy (mm ²)	1 / x-max= 1711.9

MEMBER : AW-23
GRADE : 6063-T5
FINISH : PVF2 3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	381.8
Perimeter (mm)	232.5
Bounding Box - X (mm)	-35.1 to 34.9
Bounding Box - Y (mm)	-34.6 to 35.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	163132.2
Moments of inertia - Y (mm ⁴)	293102.8
Product of inertia - XY (mm ⁴)	178400.5
Radius of gyration - X (mm)	20.6
Radius of gyration - Y (mm)	23.1
Principal moments along X-Y (mm ⁴)	3493.8 along [0.7 0.7]
Principal moments along Y-X (mm ⁴)	364741.2 along [-0.7 0.7]
Elastic Modulus - Zx (mm ²)	1 / y-max= 4611.6
Elastic Modulus - Zy (mm ²)	1 / x-max= 5850.9

B.D. REF :

CLIENT : Pacific Century Premium Developments 盈科大衍地產發展

ARCHITECT : WONG TUNG & PARTNERS LIMITED ARCHITECTS & PLANNERS

MAIN CONTRACTOR : 顯利工程有限公司 HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER : SYW & ASSOCIATES LTD. 邵賢偉建築工程師

FACADE CONSULTANT:

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
4. GLASS LEGEND
TG05---8mmHS LIGHT BLUE TINTED GLASS
EG01---8mmHS CLEAR GLASS +12A
+10=mmT CLEAR GLASS (IGU)
BHS---8mmHS CLEAR GLASS

WONG TUNG & PARTNERS LTD.
APPROVED
APPROVED AS NOTED
APPROVED AS NOTED & RESUBMIT
RESUBMIT
NO COMMENT
REFER OTHER CONSULTANT'S COMMENTS
Reviewed By ALICE LEE Date 13/9/2024

NO.	DATE	REVISED	BY

JOB NO. : J-861
PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : DIE LIST FOR IN-SITU WINDOW

DATE : 26-06-24 SCALE : 1:4 @A3

DRAWN BY : IVAN CHECKED BY :

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

DWG NO. : J861-SD-IW-0022 REV. :

MEMBER : AE33
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	499.2
Perimeter (mm) :	700.7
Bounding Box - X (mm) :	-40.6 to 39.4
Bounding Box - Y (mm) :	-28.7 to 21.3
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	13113.8
Moments of inertia - Y (mm ⁴) :	52110.7
Product of inertia - XY (mm ⁴) :	-3593.7
Radius of gyration - X (mm) :	13.7
Radius of gyration - Y (mm) :	22.3
Principal moments along X-Y (mm ⁴) :	12340.8 along [1.0 -0.1]
Principal moments along Y-X (mm ⁴) :	52870.7 along [0.1 1.0]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 3389.6
Elastic Modulus - 2y (mm ²) :	1 / x-max= 1203.9

MEMBER : AE34
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	464.4
Perimeter (mm) :	509.5
Bounding Box - X (mm) :	-35.0 to 35.0
Bounding Box - Y (mm) :	-14.5 to 15.2
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	33191.4
Moments of inertia - Y (mm ⁴) :	225430.6
Product of inertia - XY (mm ⁴) :	0.1
Radius of gyration - X (mm) :	8.5
Radius of gyration - Y (mm) :	22.2
Principal moments along X-Y (mm ⁴) :	13191.4 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	225430.6 along [0.0 1.0]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 2188.0
Elastic Modulus - 2y (mm ²) :	1 / x-max= 4462.8

MEMBER : AE36
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	541.0
Perimeter (mm) :	570.5
Bounding Box - X (mm) :	-39.8 to 30.2
Bounding Box - Y (mm) :	-20.3 to 33.7
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	100263.9
Moments of inertia - Y (mm ⁴) :	357140.6
Product of inertia - XY (mm ⁴) :	-4301.9
Radius of gyration - X (mm) :	14.0
Radius of gyration - Y (mm) :	28.7
Principal moments along X-Y (mm ⁴) :	91081.4 along [1.0 0.2]
Principal moments along Y-X (mm ⁴) :	372343.2 along [-0.2 1.0]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 3157.8
Elastic Modulus - 2y (mm ²) :	1 / x-max= 981.5

MEMBER : AE38
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	66.3
Perimeter (mm) :	96.3
Bounding Box - X (mm) :	-2.4 to 5.1
Bounding Box - Y (mm) :	-14.8 to 14.2
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	4792.7
Moments of inertia - Y (mm ⁴) :	317.4
Product of inertia - XY (mm ⁴) :	-426.2
Radius of gyration - X (mm) :	8.5
Radius of gyration - Y (mm) :	2.2
Principal moments along X-Y (mm ⁴) :	4814.4 along [1.0 -0.1]
Principal moments along Y-X (mm ⁴) :	255.7 along [0.1 1.0]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 320.8
Elastic Modulus - 2y (mm ²) :	1 / x-max= 61.8

B.D. REF :

MEMBER : AE39
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	742.7
Perimeter (mm) :	723.6
Bounding Box - X (mm) :	-40.4 to 39.6
Bounding Box - Y (mm) :	-22.0 to 38.0
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	134845.5
Moments of inertia - Y (mm ⁴) :	538496.7
Product of inertia - XY (mm ⁴) :	-45211.1
Radius of gyration - X (mm) :	13.5
Radius of gyration - Y (mm) :	26.9
Principal moments along X-Y (mm ⁴) :	128191.5 along [1.0 0.1]
Principal moments along Y-X (mm ⁴) :	545150.8 along [-0.1 1.0]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 3571.0
Elastic Modulus - 2y (mm ²) :	1 / x-max= 3328.3

MEMBER : AE40
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	217.0
Perimeter (mm) :	234.5
Bounding Box - X (mm) :	-24.6 to 25.0
Bounding Box - Y (mm) :	-9.3 to 9.1
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	6299.6
Moments of inertia - Y (mm ⁴) :	56220.4
Product of inertia - XY (mm ⁴) :	364.3
Radius of gyration - X (mm) :	5.4
Radius of gyration - Y (mm) :	16.1
Principal moments along X-Y (mm ⁴) :	6298.9 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	56223.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 974.2
Elastic Modulus - 2y (mm ²) :	1 / x-max= 2245.3

MEMBER : AE41
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	115.2
Perimeter (mm) :	145.1
Bounding Box - X (mm) :	-10.5 to 15.5
Bounding Box - Y (mm) :	-13.9 to 7.4
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	5251.9
Moments of inertia - Y (mm ⁴) :	6305.6
Product of inertia - XY (mm ⁴) :	1841.0
Radius of gyration - X (mm) :	6.8
Radius of gyration - Y (mm) :	6.8
Principal moments along X-Y (mm ⁴) :	4387.0 along [0.9 0.4]
Principal moments along Y-X (mm ⁴) :	9170.5 along [-0.4 0.9]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 378.6
Elastic Modulus - 2y (mm ²) :	1 / x-max= 334.7

MEMBER : AE43
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	115.3
Perimeter (mm) :	147.8
Bounding Box - X (mm) :	-9.5 to 9.2
Bounding Box - Y (mm) :	-10.0 to 10.8
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	5844.9
Moments of inertia - Y (mm ⁴) :	3559.4
Product of inertia - XY (mm ⁴) :	38.9
Radius of gyration - X (mm) :	7.2
Radius of gyration - Y (mm) :	5.8
Principal moments along X-Y (mm ⁴) :	5845.5 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	3558.8 along [0.0 1.0]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 551.5
Elastic Modulus - 2y (mm ²) :	1 / x-max= 335.9

CLIENT : Pacific Century Premium Developments
盈科大行地產發展

ARCHITECT : WONG TUNG & PARTNERS LIMITED ARCHITECTS & PLANNERS

MAIN CONTRACTOR : 顯利工程有限公司 HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER : SYW & ASSOCIATES LTD. 邵賢偉建築工程師

FACADE CONSULTANT :

MEMBER : AE45
GRADE : 6063-T5
FINISH : PVF2
3-COATING

REGIONS

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	97.4
Perimeter (mm) :	120.5
Bounding Box - X (mm) :	-12.0 to 5.0
Bounding Box - Y (mm) :	-10.4 to 13.6
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	5373.8
Moments of inertia - Y (mm ⁴) :	1971.0
Product of inertia - XY (mm ⁴) :	-1311.4
Radius of gyration - X (mm) :	7.4
Radius of gyration - Y (mm) :	4.5
Principal moments along X-Y (mm ⁴) :	3800.5 along [0.9 -0.3]
Principal moments along Y-X (mm ⁴) :	1542.2 along [0.3 0.9]
Elastic Modulus - 2x (mm ²) :	1 / y-max= 366.5
Elastic Modulus - 2y (mm ²) :	1 / x-max= 184.9

MEMBER : AE40 (repeated)

MEMBER : AE41 (repeated)

MEMBER : AE43 (repeated)

NOTE :

- ALL DIMENSIONS ARE IN MM.
- ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
- ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND :

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

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

4. GLASS LEGEND
TG05---8mmH LIGHT BLUE TINTED GLASS
EG01---8mmH CLEAR GLASS +12A
+10mmT CLEAR GLASS (IGU)
BHS---8mmH CLEAR GLASS

WONG TUNG & PARTNERS LTD.

APPROVED	<input checked="" type="checkbox"/>
APPROVED AS NOTED	<input type="checkbox"/>
APPROVED AS NOTED & RESUBMIT	<input type="checkbox"/>
RESUBMIT	<input type="checkbox"/>
NO COMMENT	<input type="checkbox"/>
REFER OTHER CONSULTANT'S COMMENTS	<input type="checkbox"/>

Reviewed By ALICE LEE Date 13/9/2024

Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.

NO.	DATE	REVISED	BY
JOB NO. : J-861			
PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG			
TITLE : DIE LIST FOR IN-SITU WINDOW			
DATE : 26-06-24	SCALE : 1:4 @A3		
DRAWN BY : IVAN	CHECKED BY :		
DWG NO. : J861-SD-IW-0023 REV. :			

MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)2727666

PROPERTIES

MEMBER : SD-01
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	761.306
Perimeter (mm)	499.539
Bounding Box - X (mm)	-65.844 to 36.291
Bounding Box - Y (mm)	-20.1480 to 23.2520
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	47017.5152
Moments of inertia - Y (mm ⁴)	1754053.5521
Product of inertia - XY (mm ⁴)	-47296.1029
Radius of gyration - X (mm)	7.8584
Radius of gyration - Y (mm)	47.9976
Principal moments along X-Y (mm ⁴)	46927.9879 along [1.0000 0.0075]
Principal moments along Y-X (mm ⁴)	1754098.9704 along [-0.0075 1.0000]
Elastic Modulus - Zx (mm ²)	1 / y-max= 1937.2224
Elastic Modulus - Zy (mm ²)	1 / x-max= 2296.6143

PROPERTIES

MEMBER : SD-02
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1715.5
Perimeter (mm)	1189.6
Bounding Box - X (mm)	-77.0 to 61.9
Bounding Box - Y (mm)	-76.9 to 51.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	176337.6
Moments of inertia - Y (mm ⁴)	3068580.3
Product of inertia - XY (mm ⁴)	-55957.5
Radius of gyration - X (mm)	32.2
Radius of gyration - Y (mm)	42.3
Principal moments along X-Y (mm ⁴)	157398.8 along [0.9 -0.4]
Principal moments along Y-X (mm ⁴)	3278056.1 along [0.4 0.9]
Elastic Modulus - Zx (mm ²)	1 / y-max= 23191.8
Elastic Modulus - Zy (mm ²)	1 / x-max= 3942.6

PROPERTIES

MEMBER : SD-03
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1276.1
Perimeter (mm)	1504.2
Bounding Box - X (mm)	-71.9 to 70.1
Bounding Box - Y (mm)	-44.6 to 79.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	321897.4
Moments of inertia - Y (mm ⁴)	3317192.1
Product of inertia - XY (mm ⁴)	-55957.5
Radius of gyration - X (mm)	37.6
Radius of gyration - Y (mm)	38.2
Principal moments along X-Y (mm ⁴)	1215114.4 along [0.7 0.7]
Principal moments along Y-X (mm ⁴)	532065.1 along [-0.7 0.7]
Elastic Modulus - Zx (mm ²)	1 / y-max= 40557.8
Elastic Modulus - Zy (mm ²)	1 / x-max= 4156.5

PROPERTIES

MEMBER : SD-04
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	720.676
Perimeter (mm)	582.4042
Bounding Box - X (mm)	-45.1630 to 37.4370
Bounding Box - Y (mm)	-23.3560 to 35.0437
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	440411.9169
Moments of inertia - Y (mm ⁴)	31436.8021
Product of inertia - XY (mm ⁴)	778.0084
Radius of gyration - X (mm)	24.7213
Radius of gyration - Y (mm)	20.8885
Principal moments along X-Y (mm ⁴)	472068.1373 along [0.9025 0.4307]
Principal moments along Y-X (mm ⁴)	277290.5817 along [-0.4307 0.9025]
Elastic Modulus - Zx (mm ²)	1 / y-max= 12547.4997
Elastic Modulus - Zy (mm ²)	1 / x-max= 6917.7192

PROPERTIES

MEMBER : SD-05
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	843.2682
Perimeter (mm)	647.3552
Bounding Box - X (mm)	-44.2492 to 36.2508
Bounding Box - Y (mm)	-33.0795 to 39.9205
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	589200.2697
Moments of inertia - Y (mm ⁴)	608542.7265
Product of inertia - XY (mm ⁴)	-46494.1534
Radius of gyration - X (mm)	26.4331
Radius of gyration - Y (mm)	27.2453
Principal moments along X-Y (mm ⁴)	569673.1299 along [0.8938 0.4484]
Principal moments along Y-X (mm ⁴)	601869.4194 along [-0.4484 0.8938]
Elastic Modulus - Zx (mm ²)	1 / y-max= 12159.3374
Elastic Modulus - Zy (mm ²)	1 / x-max= 1882.5940

PROPERTIES

MEMBER : SD-06
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	485.0154
Perimeter (mm)	458.1533
Bounding Box - X (mm)	-15.1369 to 38.6601
Bounding Box - Y (mm)	-39.8639 to 28.1361
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	222280.8428
Moments of inertia - Y (mm ⁴)	101841.2166
Product of inertia - XY (mm ⁴)	-14071.8610
Radius of gyration - X (mm)	21.4079
Radius of gyration - Y (mm)	14.4766
Principal moments along X-Y (mm ⁴)	224392.791 along [0.9915 -0.1301]
Principal moments along Y-X (mm ⁴)	98631.8903 along [0.1301 0.9915]
Elastic Modulus - Zx (mm ²)	1 / y-max= 5753.982
Elastic Modulus - Zy (mm ²)	1 / x-max= 2638.8633

PROPERTIES

MEMBER : SD-07
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	871.4
Perimeter (mm)	704.1
Bounding Box - X (mm)	-33.8 to 26.2
Bounding Box - Y (mm)	-37.9 to 44.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	332257.5
Moments of inertia - Y (mm ⁴)	439634.5
Product of inertia - XY (mm ⁴)	67293.843
Radius of gyration - X (mm)	19.5
Radius of gyration - Y (mm)	22.5
Principal moments along X-Y (mm ⁴)	289722.0 along [0.8 -0.5]
Principal moments along Y-X (mm ⁴)	481203.0 along [0.5 0.9]
Elastic Modulus - Zx (mm ²)	1 / y-max= 7437.2
Elastic Modulus - Zy (mm ²)	1 / x-max= 13011.8

PROPERTIES

MEMBER : SD-08
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	180.5
Perimeter (mm)	108.5
Bounding Box - X (mm)	-9.4 to 10.6
Bounding Box - Y (mm)	-17.7 to 6.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	5139.7
Moments of inertia - Y (mm ⁴)	7458.0
Product of inertia - XY (mm ⁴)	281.3
Radius of gyration - X (mm)	5.3
Radius of gyration - Y (mm)	6.4
Principal moments along X-Y (mm ⁴)	5184.4 along [0.8 0.6]
Principal moments along Y-X (mm ⁴)	6363.3 along [-0.6 0.8]
Elastic Modulus - Zx (mm ²)	1 / y-max= 286.1
Elastic Modulus - Zy (mm ²)	1 / x-max= 697.8

PROPERTIES

MEMBER : SD-09
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	79.0
Perimeter (mm)	76.0
Bounding Box - X (mm)	-8.2 to 4.8
Bounding Box - Y (mm)	-13.7 to 6.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	2418.0
Moments of inertia - Y (mm ⁴)	1386.1
Product of inertia - XY (mm ⁴)	-114.8
Radius of gyration - X (mm)	5.5
Radius of gyration - Y (mm)	5.5
Principal moments along X-Y (mm ⁴)	647.8 along [0.5 -0.8]
Principal moments along Y-X (mm ⁴)	3108.3 along [0.8 0.5]
Elastic Modulus - Zx (mm ²)	1 / y-max= 176.8
Elastic Modulus - Zy (mm ²)	1 / x-max= 185.5

PROPERTIES

MEMBER : SD-10
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	268.4
Perimeter (mm)	117.6
Bounding Box - X (mm)	-15.7 to 4.3
Bounding Box - Y (mm)	-19.4 to 14.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	22076.9
Moments of inertia - Y (mm ⁴)	3334.4
Product of inertia - XY (mm ⁴)	-4150.1
Radius of gyration - X (mm)	16.3
Radius of gyration - Y (mm)	4.9
Principal moments along X-Y (mm ⁴)	2481.4 along [0.2 -1.0]
Principal moments along Y-X (mm ⁴)	22955.0 along [1.0 0.2]
Elastic Modulus - Zx (mm ²)	1 / y-max= 115.9
Elastic Modulus - Zy (mm ²)	1 / x-max= 212.2

PROPERTIES

MEMBER : SD-11
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	116.4294
Perimeter (mm)	83.2417
Bounding Box - X (mm)	-7.6645 to 11.3355
Bounding Box - Y (mm)	-14.7978 to 5.2425
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	2814.7570
Moments of inertia - Y (mm ⁴)	4438.0743
Product of inertia - XY (mm ⁴)	1987.0993
Radius of gyration - X (mm)	4.9189
Radius of gyration - Y (mm)	6.1740
Principal moments along X-Y (mm ⁴)	1478.9423 along [0.8301 0.5718]
Principal moments along Y-X (mm ⁴)	5772.8930 along [-0.5576 0.8301]
Elastic Modulus - Zx (mm ²)	1 / y-max= 190.793
Elastic Modulus - Zy (mm ²)	1 / x-max= 391.5190

PROPERTIES

MEMBER : SD-12
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	286.9227
Perimeter (mm)	213.4504
Bounding Box - X (mm)	-4.0031 to 8.9969
Bounding Box - Y (mm)	-36.6737 to 36.3263
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	12231.1641
Moments of inertia - Y (mm ⁴)	384.2522
Product of inertia - XY (mm ⁴)	-12336.2692
Radius of gyration - X (mm)	20.6760
Radius of gyration - Y (mm)	1.6763
Principal moments along X-Y (mm ⁴)	123482.8613 along [0.9948 -0.1018]
Principal moments along Y-X (mm ⁴)	2612.5549 along [0.1018 0.9948]
Elastic Modulus - Zx (mm ²)	1 / y-max= 326.9106
Elastic Modulus - Zy (mm ²)	1 / x-max= 429.5075

PROPERTIES

MEMBER : SD-13
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	261.9166
Perimeter (mm)	240.1841
Bounding Box - X (mm)	-7.1369 to 9.8631
Bounding Box - Y (mm)	-30.0000 to 30.0000
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	78746.1890
Moments of inertia - Y (mm ⁴)	4873.3542
Product of inertia - XY (mm ⁴)	0.0000
Radius of gyration - X (mm)	11.2011
Radius of gyration - Y (mm)	4.2660
Principal moments along X-Y (mm ⁴)	4673.3542 along [0.0000 -1.0000]
Principal moments along Y-X (mm ⁴)	78746.1890 along [1.0000 0.0000]
Elastic Modulus - Zx (mm ²)	1 / y-max= 2624.8063
Elastic Modulus - Zy (mm ²)	1 / x-max= 473.8217

PROPERTIES

MEMBER : SD-14
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	213.1026
Perimeter (mm)	264.8463
Bounding Box - X (mm)	-36.5041 to 34.4959
Bounding Box - Y (mm)	-42.1765 to 29.3235
Centroid - X (mm)	0.0000
Centroid - Y (mm)	0.0000
Moments of inertia - X (mm ⁴)	1658.4832
Moments of inertia - Y (mm ⁴)	154006.1950
Product of inertia - XY (mm ⁴)	-22991.2268
Radius of gyration - X (mm)	8.8169
Radius of gyration - Y (mm)	26.8827
Principal moments along X-Y (mm ⁴)	12947.3714 along [0.9874 0.1581]
Principal moments along Y-X (mm ⁴)	153633.3108 along [-0.1581 0.9874]
Elastic Modulus - Zx (mm ²)	1 / y-max= 564.9215
Elastic Modulus - Zy (mm ²)	1 / x-max= 3999.7113

PROPERTIES

MEMBER : SD-15
GRADE : 6063-T6
FINISH : PVF2 3-COATING

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	186.9
Perimeter (mm)	265.9
Bounding Box - X (mm)	-35.9 to 37.1
Bounding Box - Y (mm)	-16.8 to 3.8
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of inertia - X (mm ⁴)	4032.3
Moments of inertia - Y (mm ⁴)	12567.5
Product of inertia - XY (mm ⁴)	-3615.1
Radius of gyration - X (mm)	4.5
Radius of gyration - Y (mm)	25.3
Principal moments along X-Y (mm ⁴)	3916.8 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	12567.5 along [0.0 1.0]
Elastic Modulus - Zx (mm ²)	1 / y-max= 238.2
Elastic Modulus - Zy (mm ²)	1 / x-max= 3387.0

B.D. REF :

CLIENT : Pacific Century Premium Developments 盈科大行地產發展

ARCHITECT : WONG TUNG & PARTNERS LIMITED ARCHITECTS & PLANNERS

MAIN CONTRACTOR : 顯利工程有限公司 HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER : SYW & ASSOCIATES LTD. 邵賢偉建築工程師

FACADE CONSULTANT:

NOTE :

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

LEGEND :

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

- F.F.L. --- FINISHED FLOOR LEVEL
- S.F.L. --- STRUCTURAL FLOOR LEVEL
- ⊖ --- REVERSED DETAIL

4. GLASS LEGEND
T05---8mmHS LIGHT BLUE TINTED GLASS
EG01---8mmHS CLEAR GLASS +12A
+10=mmT CLEAR GLASS (GG)
8HS---8mmHS CLEAR GLASS

NO.	DATE	REVISED	BY

JOB NO. : J-861

PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : DIE LIST FOR IN-SITU WINDOW

DATE : 26-06-24 SCALE : 1:4 @A3

DRAWN BY : IVAN CHECKED BY :

WONG TUNG & PARTNERS LTD. APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT RESUBMIT NO COMMENT REFER OTHER CONSULTANT'S COMMENTS

Reviewed by ALICE LEE Date 13/9/2024

Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.

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)2727666

DWG NO. : J861-SD-IW-0024 REV. :

PROPERTIES	
MEMBER : AC-01	MEMBER : AC-02
GRADE : 6063-T5	GRADE : 6063-T5
FINISH : PVF2 3-COATING	FINISH : CHROMATE

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	189.3
Perimeter (mm)	313.7
Bounding Box - X (mm)	-38.7 to 38.8
Bounding Box - Y (mm)	-28.9 to 11.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	32330.2
Moments of Inertia - Y (mm ⁴)	187077.7
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	13.1
Radii of gyration - Y (mm)	31.4
Principal moments along X-Y (mm ⁴)	32330.2 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	187077.7 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 1117.3
Elastic Modulus - 2y (mm ²)	1 / x-max= 487.6

PROPERTIES	
MEMBER : AC-03	MEMBER : AA-01 (20x20x3mm THK. ALUM. ANGLE)
GRADE : 6063-T5	GRADE : 6063-T6
FINISH : CHROMATE	FINISH : CHROMATE

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	260.3
Perimeter (mm)	190.3
Bounding Box - X (mm)	-37.5 to 37.5
Bounding Box - Y (mm)	-4.8 to 7.7
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	804.8
Moments of Inertia - Y (mm ⁴)	143880.4
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	1.8
Radii of gyration - Y (mm)	25.5
Principal moments along X-Y (mm ⁴)	804.8 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	143880.4 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 104.2
Elastic Modulus - 2y (mm ²)	1 / x-max= 381.7

PROPERTIES	
MEMBER : AA-02 (40x26x3mm THK. ALUM. ANGLE)	MEMBER : AA-03 (75x75x6mm THK. ALUM. ANGLE)
GRADE : 6063-T5	GRADE : 6063-T5
FINISH : CHROMATE	FINISH : CHROMATE

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	189.0
Perimeter (mm)	132.0
Bounding Box - X (mm)	-13.2 to 26.8
Bounding Box - Y (mm)	-6.2 to 19.8
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	10535.6
Moments of Inertia - Y (mm ⁴)	31045.8
Product of Inertia - XY (mm ⁴)	-12058.2
Radii of gyration - X (mm)	7.5
Radii of gyration - Y (mm)	12.8
Principal moments along X-Y (mm ⁴)	6887.6 along [0.9 -0.4]
Principal moments along Y-X (mm ⁴)	35433.5 along [0.4 0.9]
Elastic Modulus - 2x (mm ²)	1 / y-max= 533.3
Elastic Modulus - 2y (mm ²)	1 / x-max= 1160.4

PROPERTIES	
MEMBER : AH-01 (142x50x5mm THK. ALUM. R.H.S.)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : 6063-T6	GRADE : 6063-T6
FINISH : PVF2 3-COATING	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1820.0
Perimeter (mm)	728.0
Bounding Box - X (mm)	-71.0 to 71.0
Bounding Box - Y (mm)	-25.0 to 25.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	775166.7
Moments of Inertia - Y (mm ⁴)	426306.7
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	20.8
Radii of gyration - Y (mm)	23.3
Principal moments along X-Y (mm ⁴)	484.4
Principal moments along Y-X (mm ⁴)	775166.7 along [1.0 0.0]
Principal moments along X-X (mm ⁴)	426306.7 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 3308.7
Elastic Modulus - 2y (mm ²)	1 / x-max= 6095.6

PROPERTIES	
MEMBER : GA-01 (100x65x8mm THK. G.M.S. ANGLE)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : S275J0	GRADE : 6063-T6
FINISH : -	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1267.6
Perimeter (mm)	321.6
Bounding Box - X (mm)	-32.8 to 67.2
Bounding Box - Y (mm)	-15.6 to 49.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	423324.8
Moments of Inertia - Y (mm ⁴)	127050.9
Product of Inertia - XY (mm ⁴)	-422517.4
Radii of gyration - X (mm)	18.3
Radii of gyration - Y (mm)	11.7
Principal moments along X-Y (mm ⁴)	248560.8 along [0.9 -0.4]
Principal moments along Y-X (mm ⁴)	1444821.6 along [0.4 0.9]
Elastic Modulus - 2x (mm ²)	1 / y-max= 8501.0
Elastic Modulus - 2y (mm ²)	1 / x-max= 18887.2

PROPERTIES	
MEMBER : AH-01 (142x50x5mm THK. ALUM. R.H.S.)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : 6063-T6	GRADE : 6063-T6
FINISH : PVF2 3-COATING	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1044.0
Perimeter (mm)	498.0
Bounding Box - X (mm)	-60.0 to 60.0
Bounding Box - Y (mm)	-30.0 to 30.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	664092.0
Moments of Inertia - Y (mm ⁴)	1933052.0
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	25.2
Radii of gyration - Y (mm)	43.5
Principal moments along X-Y (mm ⁴)	664092.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	1933052.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 27138.4
Elastic Modulus - 2y (mm ²)	1 / x-max= 32884.2

PROPERTIES	
MEMBER : AH-01 (142x50x5mm THK. ALUM. R.H.S.)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : 6063-T6	GRADE : 6063-T6
FINISH : PVF2 3-COATING	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1044.0
Perimeter (mm)	498.0
Bounding Box - X (mm)	-60.0 to 60.0
Bounding Box - Y (mm)	-30.0 to 30.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	664092.0
Moments of Inertia - Y (mm ⁴)	1933052.0
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	25.2
Radii of gyration - Y (mm)	43.5
Principal moments along X-Y (mm ⁴)	664092.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	1933052.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 27138.4
Elastic Modulus - 2y (mm ²)	1 / x-max= 32884.2

PROPERTIES	
MEMBER : GA-01 (100x65x8mm THK. G.M.S. ANGLE)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : S275J0	GRADE : 6063-T6
FINISH : -	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1044.0
Perimeter (mm)	498.0
Bounding Box - X (mm)	-60.0 to 60.0
Bounding Box - Y (mm)	-30.0 to 30.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	664092.0
Moments of Inertia - Y (mm ⁴)	1933052.0
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	25.2
Radii of gyration - Y (mm)	43.5
Principal moments along X-Y (mm ⁴)	664092.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	1933052.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 27138.4
Elastic Modulus - 2y (mm ²)	1 / x-max= 32884.2

PROPERTIES	
MEMBER : GA-01 (100x65x8mm THK. G.M.S. ANGLE)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : S275J0	GRADE : 6063-T6
FINISH : -	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1044.0
Perimeter (mm)	498.0
Bounding Box - X (mm)	-60.0 to 60.0
Bounding Box - Y (mm)	-30.0 to 30.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	664092.0
Moments of Inertia - Y (mm ⁴)	1933052.0
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	25.2
Radii of gyration - Y (mm)	43.5
Principal moments along X-Y (mm ⁴)	664092.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	1933052.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 27138.4
Elastic Modulus - 2y (mm ²)	1 / x-max= 32884.2

PROPERTIES	
MEMBER : GA-01 (100x65x8mm THK. G.M.S. ANGLE)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : S275J0	GRADE : 6063-T6
FINISH : -	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1044.0
Perimeter (mm)	498.0
Bounding Box - X (mm)	-60.0 to 60.0
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Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	664092.0
Moments of Inertia - Y (mm ⁴)	1933052.0
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	25.2
Radii of gyration - Y (mm)	43.5
Principal moments along X-Y (mm ⁴)	664092.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	1933052.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 27138.4
Elastic Modulus - 2y (mm ²)	1 / x-max= 32884.2

PROPERTIES	
MEMBER : GA-01 (100x65x8mm THK. G.M.S. ANGLE)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : S275J0	GRADE : 6063-T6
FINISH : -	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1044.0
Perimeter (mm)	498.0
Bounding Box - X (mm)	-60.0 to 60.0
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Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	664092.0
Moments of Inertia - Y (mm ⁴)	1933052.0
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	25.2
Radii of gyration - Y (mm)	43.5
Principal moments along X-Y (mm ⁴)	664092.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	1933052.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 27138.4
Elastic Modulus - 2y (mm ²)	1 / x-max= 32884.2

PROPERTIES	
MEMBER : GA-01 (100x65x8mm THK. G.M.S. ANGLE)	MEMBER : AH-02 (150x60x3mm THK. ALUM. R.H.S.)
GRADE : S275J0	GRADE : 6063-T6
FINISH : -	FINISH : PVF2 3-COATING

REGIONS	
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1044.0
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Bounding Box - X (mm)	-60.0 to 60.0
Bounding Box - Y (mm)	-30.0 to 30.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	664092.0
Moments of Inertia - Y (mm ⁴)	1933052.0
Product of Inertia - XY (mm ⁴)	0.0
Radii of gyration - X (mm)	25.2
Radii of gyration - Y (mm)	43.5
Principal moments along X-Y (mm ⁴)	664092.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴)	1933052.0 along [0.0 1.0]
Elastic Modulus - 2x (mm ²)	1 / y-max= 27138.4
Elastic Modulus - 2y (mm ²)	1 / x-max= 32884.2

WONG TUNG & PARTNERS LTD.	
APPROVED	<input checked="" type="checkbox"/>
APPROVED AS NOTED	<input type="checkbox"/>
APPROVED AS NOTED & RESUBMIT	<input type="checkbox"/>
RESUBMIT	<input type="checkbox"/>
NO COMMENT	<input type="checkbox"/>
REFER OTHER CONSULTANT'S COMMENTS	<input type="checkbox"/>
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed by ALICE LEE	Date 13/9/2024

B.D. REF :

CLIENT :
Pacific Century
Premium Developments
盈科大衍地產發展

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER :
SYW & ASSOCIATES LTD.
STRUCTURAL ENGINEERS & ARCHITECTS
邵賢偉建築工程師

FACADE CONSULTANT:

NOTE :
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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
4. GLASS LEGEND
TG05---8mmHS LIGHT BLUE TINTED GLASS
EG01---8mmHS CLEAR GLASS +12A
+10=mmT CLEAR GLASS (IGU)
BHS---8mmHS CLEAR GLASS

NO.	DATE	REVISED	BY

JOB NO. : J-861
PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : DIE LIST FOR IN-SITU WINDOW

DATE : 26-06-24 SCALE : 1:4 @A3

DRAWN BY : IVAN CHECKED BY :

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

DWG NO. : J861-SD-IW-0025 REV. :

M1 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING	M2 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING	M3 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING	M4 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING	AF1 --- ALUMINIUM FEATURE GRADE --- 6063 T6	COATING --- PVF2 COATING																																																																																																																																																																
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Zy (mm³):</td><td>J / x-max= 66562.8</td></tr> </tbody> </table>		MASS PROPERTIES (UNIT)	VALUES	Area (mm ²):	3186.5	Perimeter (mm):	1041.6	Bounding Box - X (mm):	-54.8 to 45.2	Bounding Box - Y (mm):	-104.9 to 65.1	Centroid - X (mm):	0.0	Centroid - Y (mm):	0.0	Moments of inertia - X (mm ⁴):	8659318.2	Moments of inertia - Y (mm ⁴):	3644931.7	Product of inertia - XY (mm ⁴):	1171049.6	Radii of gyration - X (mm):	52.1	Radii of gyration - Y (mm):	33.8	Principal moments along X-Y (mm ⁴):	8919321.3 along [1.0 0.2]	Principal moments along Y-X (mm ⁴):	3384928.7 along [-0.2 1.0]	Elastic Modulus - Zx (mm ³):	1 / y-max= 82512.4	Elastic Modulus - Zy (mm ³):	J / x-max= 66562.8	<table border="1"> <thead> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> </thead> <tbody> <tr><td>Area (mm²):</td><td>2735.1</td></tr> <tr><td>Perimeter (mm):</td><td>1186.3</td></tr> <tr><td>Bounding Box - X (mm):</td><td>-50.0 to 50.0</td></tr> <tr><td>Bounding Box - Y (mm):</td><td>-92.0 to 78.0</td></tr> <tr><td>Centroid - 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X (mm):	-18.7 to 23.8	Bounding Box - Y (mm):	-40.4 to 33.6	Centroid - X (mm):	0.0	Centroid - Y (mm):	0.0	Moments of inertia - X (mm ⁴):	238168.4	Moments of inertia - Y (mm ⁴):	99864.3	Product of inertia - XY (mm ⁴):	110828.7	Radii of gyration - X (mm):	20.1	Radii of gyration - Y (mm):	13.0	Principal moments along X-Y (mm ⁴):	299649.5 along [0.9 0.5]	Principal moments along Y-X (mm ⁴):	38383.2 along [-0.5 0.9]	Elastic Modulus - Zx (mm ³):	1 / y-max= 5893.8	Elastic Modulus - Zy (mm ³):	J / x-max= 4189.2	<table border="1"> <thead> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> </thead> <tbody> <tr><td>Area (mm²):</td><td>593.8</td></tr> <tr><td>Perimeter (mm):</td><td>394.3</td></tr> <tr><td>Bounding Box - X (mm):</td><td>-25.8 to 16.7</td></tr> <tr><td>Bounding Box - Y (mm):</td><td>-40.4 to 33.6</td></tr> <tr><td>Centroid - X (mm):</td><td>0.0</td></tr> <tr><td>Centroid - Y (mm):</td><td>0.0</td></tr> <tr><td>Moments of inertia - X (mm⁴):</td><td>238333.8</td></tr> <tr><td>Moments of inertia - 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General comments:
- Structural matter refer to SYW's comment;
- material samples to be submitted separately for acceptance;
- exact dimension should be verified on site;

B.D. REF :

WONG TUNG & PARTNERS LTD.
APPROVED
APPROVED AS NOTED
APPROVED AS NOTED & RESUBMIT
RESUBMIT
NO COMMENT

REFER OTHER CONSULTANT'S COMMENTS
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited.
The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.

Reviewed By: **Alice Lee** Date: **12/9/2024**

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER :
SYW | SYW & ASSOCIATES LTD.
REGISTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

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

NO.	DATE	REVISED	BY

JOB NO. : J-861
PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : SECTION PROPERTIES FOR CURTAIN WALL

DATE : 18-Jun.-24 SCALE : 1:2(A1)
DRAWN BY : Asing CHECKED BY :
美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cho Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)2727666
DWG NO. : J861-SD-CW-0006 REV. : -

C1 --- ALUMINIUM CAP GRADE --- 6063 T6	COATING --- PVF2 COATING	C2 --- ALUMINIUM CAP GRADE --- 6063 T6	COATING --- PVF2 COATING	C3 --- ALUMINIUM CAP GRADE --- 6063 T6	COATING --- PVF2 COATING	C4 --- ALUMINIUM CAP GRADE --- 6063 T5	COATING --- PVF2 COATING	C5 --- ALUMINIUM ADAPTER GRADE --- 6063 T5	COATING --- ALODINE
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	302.5	Area (mm ²):	316.9	Area (mm ²):	294.4	Area (mm ²):	161.9	Area (mm ²):	316.9
Perimeter (mm):	197.4	Perimeter (mm):	212.8	Perimeter (mm):	197.8	Perimeter (mm):	268.1	Perimeter (mm):	225.3
Bounding Box - X (mm):	-12.6 to 29.9	Bounding Box - X (mm):	-14.9 to 30.6	Bounding Box - X (mm):	-12.5 to 25.5	Bounding Box - X (mm):	-50.0 to 50.0	Bounding Box - X (mm):	-34.2 to 34.2
Bounding Box - Y (mm):	-12.2 to 23.8	Bounding Box - Y (mm):	-13.1 to 22.9	Bounding Box - Y (mm):	-14.0 to 22.0	Bounding Box - Y (mm):	-9.3 to 2.4	Bounding Box - Y (mm):	-11.3 to 20.2
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	44740.1	Moments of inertia - X (mm ⁴):	49958.6	Moments of inertia - X (mm ⁴):	46679.1	Moments of inertia - X (mm ⁴):	1373.5	Moments of inertia - X (mm ⁴):	26270.2
Moments of inertia - Y (mm ⁴):	50258.8	Moments of inertia - Y (mm ⁴):	53041.6	Moments of inertia - Y (mm ⁴):	30781.3	Moments of inertia - Y (mm ⁴):	130860.2	Moments of inertia - Y (mm ⁴):	163836.0
Product of inertia - XY (mm ⁴):	26947.9	Product of inertia - XY (mm ⁴):	30688.4	Product of inertia - XY (mm ⁴):	21973.3	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	12.2	Radii of gyration - X (mm):	12.6	Radii of gyration - X (mm):	12.6	Radii of gyration - X (mm):	2.9	Radii of gyration - X (mm):	9.1
Radii of gyration - Y (mm):	12.9	Radii of gyration - Y (mm):	12.9	Radii of gyration - Y (mm):	10.2	Radii of gyration - Y (mm):	28.4	Radii of gyration - Y (mm):	22.7
Principal moments along X-Y (mm ⁴):	20410.7 along [0.7 -0.7]	Principal moments along X-Y (mm ⁴):	20773.0 along [0.7 -0.7]	Principal moments along X-Y (mm ⁴):	62097.2 along [0.8 0.6]	Principal moments along X-Y (mm ⁴):	1373.5 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	26270.2 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	74588.2 along [0.7 0.7]	Principal moments along Y-X (mm ⁴):	82227.2 along [0.7 0.7]	Principal moments along Y-X (mm ⁴):	15363.3 along [-0.6 0.8]	Principal moments along Y-X (mm ⁴):	130860.2 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	163836.0 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	1 / y-max= 1882.6	Elastic Modulus - Zx (mm ³):	1 / y-max= 2182.2	Elastic Modulus - Zx (mm ³):	1 / y-max= 2121.1	Elastic Modulus - Zx (mm ³):	1 / y-max= 147.9	Elastic Modulus - Zx (mm ³):	1 / y-max= 1302.4
Elastic Modulus - Zy (mm ³):	J / x-max= 1678.9	Elastic Modulus - Zy (mm ³):	J / x-max= 1734.5	Elastic Modulus - Zy (mm ³):	J / x-max= 1206.0	Elastic Modulus - Zy (mm ³):	J / x-max= 2617.2	Elastic Modulus - Zy (mm ³):	J / x-max= 4788.5

C6 --- ALUMINIUM CAP GRADE --- 6063 T5	COATING --- PVF2 COATING	C7 --- ALUMINIUM CAP GRADE --- 6063 T5	COATING --- PVF2 COATING	C8 --- ALUMINIUM ADAPTER GRADE --- 6063 T5	COATING --- ALODINE	C9 --- ALUMINIUM CAP GRADE --- 6063 T5	COATING --- PVF2 COATING	C10 --- ALUMINIUM ADAPTER GRADE --- 6063 T5	COATING --- ALODINE
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	128.4	Area (mm ²):	233.5	Area (mm ²):	370.0	Area (mm ²):	185.5	Area (mm ²):	250.0
Perimeter (mm):	188.5	Perimeter (mm):	386.7	Perimeter (mm):	263.3	Perimeter (mm):	306.7	Perimeter (mm):	183.3
Bounding Box - X (mm):	-43.2 to 44.4	Bounding Box - X (mm):	-57.0 to 57.0	Bounding Box - X (mm):	-55.8 to 55.8	Bounding Box - X (mm):	-37.0 to 37.0	Bounding Box - X (mm):	-35.8 to 35.8
Bounding Box - Y (mm):	-0.8 to 3.1	Bounding Box - Y (mm):	-30.9 to 9.1	Bounding Box - Y (mm):	-4.7 to 7.8	Bounding Box - Y (mm):	-28.7 to 11.3	Bounding Box - Y (mm):	-4.8 to 7.7
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	51.1	Moments of inertia - X (mm ⁴):	36231.0	Moments of inertia - X (mm ⁴):	892.7	Moments of inertia - X (mm ⁴):	31859.5	Moments of inertia - X (mm ⁴):	796.1
Moments of inertia - Y (mm ⁴):	87707.3	Moments of inertia - Y (mm ⁴):	455483.8	Moments of inertia - Y (mm ⁴):	439284.8	Moments of inertia - Y (mm ⁴):	168443.3	Moments of inertia - Y (mm ⁴):	125825.5
Product of inertia - XY (mm ⁴):	113.7	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	0.6	Radii of gyration - X (mm):	12.5	Radii of gyration - X (mm):	1.6	Radii of gyration - X (mm):	13.1	Radii of gyration - X (mm):	1.8
Radii of gyration - Y (mm):	26.1	Radii of gyration - Y (mm):	44.2	Radii of gyration - Y (mm):	34.5	Radii of gyration - Y (mm):	30.1	Radii of gyration - Y (mm):	22.4
Principal moments along X-Y (mm ⁴):	50.9 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	36231.0 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	892.7 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	31859.5 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	796.1 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	87707.5 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	455483.8 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	439284.8 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	168443.3 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	125825.5 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	1 / y-max= 16.4	Elastic Modulus - Zx (mm ³):	1 / y-max= 1172.5	Elastic Modulus - Zx (mm ³):	1 / y-max= 114.4	Elastic Modulus - Zx (mm ³):	1 / y-max= 1110.1	Elastic Modulus - Zx (mm ³):	1 / y-max= 103.2
Elastic Modulus - Zy (mm ³):	J / x-max= 1974.9	Elastic Modulus - Zy (mm ³):	J / x-max= 7990.9	Elastic Modulus - Zy (mm ³):	J / x-max= 7872.5	Elastic Modulus - Zy (mm ³):	J / x-max= 4552.5	Elastic Modulus - Zy (mm ³):	J / x-max= 3514.7

C11 --- ALUMINIUM CAP GRADE --- 6063 T5	COATING --- PVF2 COATING	C12 --- ALUMINIUM ADAPTER GRADE --- 6063 T5	COATING --- ALODINE	C13 --- ALUMINIUM GRILLE GRADE --- 6063 T5	COATING --- PVF2 COATING
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	219.1	Area (mm ²):	334.0	Area (mm ²):	214.0
Perimeter (mm):	362.7	Perimeter (mm):	239.3	Perimeter (mm):	156.5
Bounding Box - X (mm):	-51.0 to 51.0	Bounding Box - X (mm):	-49.8 to 49.8	Bounding Box - X (mm):	-17.5 to 17.5
Bounding Box - Y (mm):	-30.3 to 9.7	Bounding Box - Y (mm):	-4.7 to 7.8	Bounding Box - Y (mm):	-5.0 to 5.0
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	35120.4	Moments of inertia - X (mm ⁴):	864.3	Moments of inertia - X (mm ⁴):	2565.4
Moments of inertia - Y (mm ⁴):	351500.9	Moments of inertia - Y (mm ⁴):	318537.3	Moments of inertia - Y (mm ⁴):	29205.1
Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	12.7	Radii of gyration - X (mm):	1.6	Radii of gyration - X (mm):	3.5
Radii of gyration - Y (mm):	40.0	Radii of gyration - Y (mm):	30.9	Radii of gyration - Y (mm):	11.7
Principal moments along X-Y (mm ⁴):	35120.4 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	864.3 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	2565.4 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	351500.9 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	318537.3 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	29205.1 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	1 / y-max= 1157.5	Elastic Modulus - Zx (mm ³):	1 / y-max= 111.0	Elastic Modulus - Zx (mm ³):	1 / y-max= 513.2
Elastic Modulus - Zy (mm ³):	J / x-max= 6892.2	Elastic Modulus - Zy (mm ³):	J / x-max= 6396.3	Elastic Modulus - Zy (mm ³):	J / x-max= 1668.9

B.D. REF :

WONG TUNG & PARTNERS LTD.

APPROVED

APPROVED AS NOTED

APPROVED AS NOTED & RESUBMIT

RESUBMIT

NO COMMENT

REFER OTHER CONSULTANT'S COMMENTS

Reviewed By: **Alice** Date: **12/9/2024**

CLIENT : **MILLION BASE PROPERTIES LIMITED**

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

MAIN CONTRACTOR : **顯利工程有限公司 HIEN LEE ENGINEERING CO., LTD.**

STRUCTURAL ENGINEER : **SYW & ASSOCIATES LTD. CHARTERED ENGINEERS & AUTHORIZED PERSONS 邵賢偉建築工程師**

FACADE CONSULTANT :

- NOTE :
- ALL DIMENSIONS ARE IN mm.
 - ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 - ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND :

X1 --- DETAIL MARK NO.

X001 --- REFER SHEET NO.

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

NO.	DATE	REVISED	BY
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JOB NO. : J-861

PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : SECTION PROPERTIES FOR CURTAIN WALL

DATE : 18-Jun.-24 SCALE : 1:2(A1)

DRAWN BY : Asing CHECKED BY :

美特鋁質有限公司 MIDI ALUMINIUM FABRICATOR LTD.

Units 6-8, Sunray Industrial Centre, 1/F
610 Cho Kwo Ling Road, Kowloon
Tel: 23489211-4 Fax: (852) 2727666

DWG NO. : J861-SD-CW-0007 REV. : -

AH1 --- ALUMINIUM HOLLOW GRADE --- 6063 T6		COATING --- PVF2 COATING		AH2 --- ALUMINIUM HOLLOW GRADE --- 6063 T6		COATING --- PVF2 COATING		AH3 --- ALUMINIUM HOLLOW GRADE --- 6063 T6		COATING --- PVF2 COATING		AH4 --- ALUMINIUM HOLLOW GRADE --- 6063 T6		COATING --- PVF2 COATING		AH5 --- ALUMINIUM HOLLOW GRADE --- 6063 T6		COATING --- PVF2 COATING	
150x50x5mm THK. ALUM. R.H.S.				35x30x2mm THK. ALUM. R.H.S.				25x25x2mm THK. ALUM. S.H.S.				25x15x2mm THK. ALUM. S.H.S.				50x25x2mm THK. ALUM. S.H.S.			
MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES	
Area (mm ²):		1899.8		Area (mm ²):		354.0		Area (mm ²):		184.0		Area (mm ²):		144.0		Area (mm ²):		284.0	
Perimeter (mm):		758.8		Perimeter (mm):		236.0		Perimeter (mm):		184.0		Perimeter (mm):		144.0		Perimeter (mm):		284.0	
Bounding Box - X (mm):		-75.0 to 75.0		Bounding Box - X (mm):		-15.0 to 15.0		Bounding Box - X (mm):		-12.5 to 12.5		Bounding Box - X (mm):		-12.5 to 12.5		Bounding Box - X (mm):		-12.5 to 12.5	
Bounding Box - Y (mm):		-25.0 to 25.0		Bounding Box - Y (mm):		-17.5 to 17.5		Bounding Box - Y (mm):		-12.5 to 12.5		Bounding Box - Y (mm):		-7.5 to 7.5		Bounding Box - Y (mm):		-25.0 to 25.0	
Centroid - X (mm):		0.0		Centroid - X (mm):		0.0		Centroid - X (mm):		0.0		Centroid - X (mm):		0.0		Centroid - X (mm):		0.0	
Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0	
Moments of inertia - X (mm ⁴):		815714.1		Moments of inertia - X (mm ⁴):		58409.5		Moments of inertia - X (mm ⁴):		16345.3		Moments of inertia - X (mm ⁴):		4702.0		Moments of inertia - X (mm ⁴):		90078.7	
Moments of inertia - Y (mm ⁴):		4914797.8		Moments of inertia - Y (mm ⁴):		45342.0		Moments of inertia - Y (mm ⁴):		16345.3		Moments of inertia - Y (mm ⁴):		11042.0		Moments of inertia - Y (mm ⁴):		29603.6	
Product of inertia - XY (mm ⁴):		0.0		Product of inertia - XY (mm ⁴):		0.0		Product of inertia - XY (mm ⁴):		0.0		Product of inertia - XY (mm ⁴):		0.0		Product of inertia - XY (mm ⁴):		0.0	
Radii of gyration - X (mm):		20.7		Radii of gyration - X (mm):		12.8		Radii of gyration - X (mm):		9.4		Radii of gyration - X (mm):		5.7		Radii of gyration - X (mm):		17.8	
Radii of gyration - Y (mm):		50.9		Radii of gyration - Y (mm):		11.3		Radii of gyration - Y (mm):		9.4		Radii of gyration - Y (mm):		8.8		Radii of gyration - Y (mm):		10.2	
Principal moments along X-Y (mm ⁴):		815714.1 along [1.0 0.0]		Principal moments along X-Y (mm ⁴):		58409.5 along [1.0 0.0]		Principal moments along X-Y (mm ⁴):		16345.3 along [0.9 0.4]		Principal moments along X-Y (mm ⁴):		4702.0 along [1.0 0.0]		Principal moments along X-Y (mm ⁴):		90078.7 along [1.0 0.0]	
Principal moments along Y-X (mm ⁴):		4914797.8 along [0.0 1.0]		Principal moments along Y-X (mm ⁴):		45342.0 along [0.0 1.0]		Principal moments along Y-X (mm ⁴):		16345.3 along [-0.4 0.9]		Principal moments along Y-X (mm ⁴):		11042.0 along [0.0 1.0]		Principal moments along Y-X (mm ⁴):		29603.6 along [0.0 1.0]	
Elastic Modulus - Zx (mm ³):		I / y-max= 32628.6		Elastic Modulus - Zx (mm ³):		I / y-max= 3337.7		Elastic Modulus - Zx (mm ³):		I / y-max= 1307.6		Elastic Modulus - Zx (mm ³):		I / y-max= 626.9		Elastic Modulus - Zx (mm ³):		I / y-max= 3603.1	
Elastic Modulus - Zy (mm ³):		J / x-max= 65530.6		Elastic Modulus - Zy (mm ³):		J / x-max= 3022.8		Elastic Modulus - Zy (mm ³):		J / x-max= 1307.6		Elastic Modulus - Zy (mm ³):		J / x-max= 883.4		Elastic Modulus - Zy (mm ³):		J / x-max= 2368.3	

AH6 --- ALUMINIUM HOLLOW GRADE --- 6063 T6		COATING --- PVF2 COATING		AC1 --- ALUMINIUM CHANNEL GRADE --- 6063 T6		COATING --- ALODINE		AC2 --- ALUMINIUM CHANNEL GRADE --- 6063 T6		COATING --- ALODINE		AC3 --- ALUMINIUM CHANNEL GRADE --- 6063 T6		COATING --- ALODINE	
30x25x2mm THK. ALUM. R.H.S.															
MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES	
Area (mm ²):		204.0		Area (mm ²):		292.3		Area (mm ²):		356.8		Area (mm ²):		264.0	
Perimeter (mm):		204.0		Perimeter (mm):		199.4		Perimeter (mm):		242.4		Perimeter (mm):		182.0	
Bounding Box - X (mm):		-12.5 to 12.5		Bounding Box - X (mm):		-14.0 to 21.0		Bounding Box - X (mm):		-21.2 to 40.3		Bounding Box - X (mm):		-9.8 to 18.7	
Bounding Box - Y (mm):		-15.0 to 15.0		Bounding Box - Y (mm):		-17.0 to 17.0		Bounding Box - Y (mm):		-20.6 to 13.4		Bounding Box - Y (mm):		-18.5 to 18.5	
Centroid - X (mm):		0.0		Centroid - X (mm):		0.0		Centroid - X (mm):		0.0		Centroid - X (mm):		0.0	
Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0	
Moments of inertia - X (mm ⁴):		25492.0		Moments of inertia - X (mm ⁴):		45653.6		Moments of inertia - X (mm ⁴):		52895.4		Moments of inertia - X (mm ⁴):		56995.8	
Moments of inertia - Y (mm ⁴):		18997.0		Moments of inertia - Y (mm ⁴):		37925.0		Moments of inertia - Y (mm ⁴):		119642.9		Moments of inertia - Y (mm ⁴):		21436.9	
Product of inertia - XY (mm ⁴):		0.0		Product of inertia - XY (mm ⁴):		0.0		Product of inertia - XY (mm ⁴):		-34573.3		Product of inertia - XY (mm ⁴):		0.0	
Radii of gyration - X (mm):		11.2		Radii of gyration - X (mm):		12.5		Radii of gyration - X (mm):		12.2		Radii of gyration - X (mm):		14.7	
Radii of gyration - Y (mm):		9.7		Radii of gyration - Y (mm):		11.4		Radii of gyration - Y (mm):		18.3		Radii of gyration - Y (mm):		9.0	
Principal moments along X-Y (mm ⁴):		25492.0 along [1.0 0.0]		Principal moments along X-Y (mm ⁴):		45653.6 along [1.0 0.0]		Principal moments along X-Y (mm ⁴):		38215.8 along [0.9 0.4]		Principal moments along X-Y (mm ⁴):		56995.8 along [1.0 0.0]	
Principal moments along Y-X (mm ⁴):		18997.0 along [0.0 1.0]		Principal moments along Y-X (mm ⁴):		37925.0 along [0.0 1.0]		Principal moments along Y-X (mm ⁴):		134322.4 along [-0.4 0.9]		Principal moments along Y-X (mm ⁴):		21436.9 along [0.0 1.0]	
Elastic Modulus - Zx (mm ³):		I / y-max= 1699.5		Elastic Modulus - Zx (mm ³):		I / y-max= 2685.5		Elastic Modulus - Zx (mm ³):		I / y-max= 2570.8		Elastic Modulus - Zx (mm ³):		I / y-max= 3080.8	
Elastic Modulus - Zy (mm ³):		J / x-max= 1519.8		Elastic Modulus - Zy (mm ³):		J / x-max= 1805.7		Elastic Modulus - Zy (mm ³):		J / x-max= 2966.0		Elastic Modulus - Zy (mm ³):		J / x-max= 1143.8	

BK1 --- 200x125x15mm THK. ANGLE BRACKET GRADE --- 6061-T6		COATING --- ALODINE		BK2 --- 260x125x16mm THK. ANGLE BRACKET GRADE --- 6061-T6		COATING --- ALODINE		ALUM. BK1 --- 200x125x15mm THK. ANGLE BRACKET GRADE --- 6061-T6		COATING --- ALODINE	
MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES		MASS PROPERTIES (UNIT)		VALUES	
Area (mm ²):		4994.3		Area (mm ²):		6334.3		Area (mm ²):		5062.7	
Perimeter (mm):		730.2		Perimeter (mm):		848.6		Perimeter (mm):		777.4	
Bounding Box - X (mm):		-68.7 to 131.3		Bounding Box - X (mm):		-95.7 to 164.3		Bounding Box - X (mm):		-128.9 to 143.4	
Bounding Box - Y (mm):		-95.4 to 29.6		Bounding Box - Y (mm):		-98.5 to 26.5		Bounding Box - Y (mm):		-95.4 to 42.2	
Centroid - X (mm):		0.0		Centroid - X (mm):		0.0		Centroid - X (mm):		0.0	
Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0		Centroid - Y (mm):		0.0	
Moments of inertia - X (mm ⁴):		6131745.3		Moments of inertia - X (mm ⁴):		6872063.8		Moments of inertia - X (mm ⁴):		8589498.6	
Moments of inertia - Y (mm ⁴):		20555053.5		Moments of inertia - Y (mm ⁴):		44661583.1		Moments of inertia - Y (mm ⁴):		30139455.1	
Product of inertia - XY (mm ⁴):		-6481172.0		Product of inertia - XY (mm ⁴):		-9801120.5		Product of inertia - XY (mm ⁴):		-14097466.3	
Radii of gyration - X (mm):		35.0		Radii of gyration - X (mm):		32.9		Radii of gyration - X (mm):		41.2	
Radii of gyration - Y (mm):		64.2		Radii of gyration - Y (mm):		84.0		Radii of gyration - Y (mm):		77.2	
Principal moments along X-Y (mm ⁴):		3647341.1 along [0.9 0.4]		Principal moments along X-Y (mm ⁴):		4481290.7 along [1.0 0.2]		Principal moments along X-Y (mm ⁴):		1620781.8 along [0.9 0.4]	
Principal moments along Y-X (mm ⁴):		23039457.6 along [-0.4 0.9]		Principal moments along Y-X (mm ⁴):		47052356.2 along [-0.2 1.0]		Principal moments along Y-X (mm ⁴):		37108171.9 along [-0.4 0.9]	
Elastic Modulus - Zx (mm ³):		I / y-max= 64256.1		Elastic Modulus - Zx (mm ³):		I / y-max= 69741.6		Elastic Modulus - Zx (mm ³):		I / y-max= 90068.2	
Elastic Modulus - Zy (mm ³):		J / x-max= 156565.7		Elastic Modulus - Zy (mm ³):		J / x-max= 271848.3		Elastic Modulus - Zy (mm ³):		J / x-max= 210241.8	

B.D. REF :

WONG TUNG & PARTNERS LTD.	
APPROVED	<input checked="" type="checkbox"/>
APPROVED AS NOTED	<input type="checkbox"/>
APPROVED AS NOTED & RESUBMIT	<input type="checkbox"/>
RESUBMIT	<input type="checkbox"/>
NO COMMENT	<input type="checkbox"/>
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed By Alice	Date 12/9/2024

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

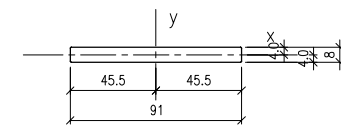
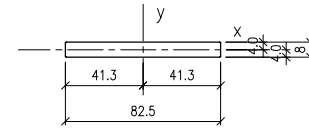
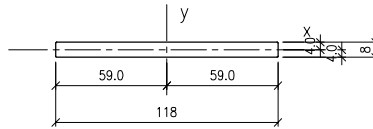
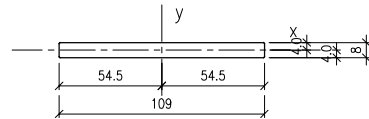
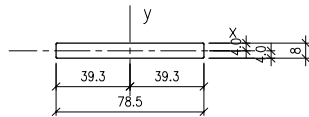
STRUCTURAL ENGINEER :
SYW & ASSOCIATES LTD.
REGISTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

FAÇADE CONSULTANT:

- NOTE :
- ALL DIMENSIONS ARE IN mm.
 - ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 - ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.
- LEGEND :
- X1 --- DETAIL MARK NO.
X001 --- REFER SHEET NO.
- F.F.L. --- FINISHED FLOOR LEVEL
 - S.F.L. --- STRUCTURAL FLOOR LEVEL
 - (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY
JOB NO. : J-861		PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG	
TITLE : SECTION PROPERTIES FOR CURTAIN WALL			
DATE : 18-Jun.-24	SCALE : 1:2(A1)	DRAWN BY : Asing	
CHECKED BY :		DWG NO. : J861-SD-CW-0008	
美特鋁質有限公司 MIDI ALUMINIUM FABRICATOR LTD. Units 6-8, Sunray Industrial Centre, 1/F 610 Cho Kwo Ling Road, Kowloon Tel:23489211-4 Fax:(852)27272666			
REV. : -			

AB1 --- 78.5x8mm ALUM. BAR SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB2 --- 109x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB3 --- 118x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB4 --- 82.5x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB5 --- 91x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE
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MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	627.8
Perimeter (mm):	172.1
Bounding Box - X (mm):	-39.3 to 39.3
Bounding Box - Y (mm):	-4.0 to 4.0
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	3346.1
Moments of inertia - Y (mm ⁴):	322162.4
Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	2.3
Radii of gyration - Y (mm):	22.7
Principal moments along X-Y (mm ⁴):	3346.1 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	322162.4 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 836.5
Elastic Modulus - Zy (mm ³):	J / x-max= 8208.0

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	871.8
Perimeter (mm):	233.1
Bounding Box - X (mm):	-54.5 to 54.5
Bounding Box - Y (mm):	-4.0 to 4.0
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	4647.4
Moments of inertia - Y (mm ⁴):	862717.9
Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	2.3
Radii of gyration - Y (mm):	31.5
Principal moments along X-Y (mm ⁴):	4647.4 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	862717.9 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 1161.9
Elastic Modulus - Zy (mm ³):	J / x-max= 15829.7

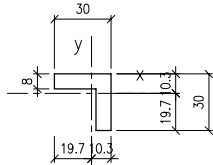
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	943.8
Perimeter (mm):	251.1
Bounding Box - X (mm):	-59.0 to 59.0
Bounding Box - Y (mm):	-4.0 to 4.0
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	5031.4
Moments of inertia - Y (mm ⁴):	1094610.5
Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	2.3
Radii of gyration - Y (mm):	34.1
Principal moments along X-Y (mm ⁴):	5031.4 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	1094610.5 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 1257.9
Elastic Modulus - Zy (mm ³):	J / x-max= 18552.7

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	659.8
Perimeter (mm):	180.1
Bounding Box - X (mm):	-41.3 to 41.3
Bounding Box - Y (mm):	-4.0 to 4.0
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	3516.8
Moments of inertia - Y (mm ⁴):	373980.6
Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	2.3
Radii of gyration - Y (mm):	23.8
Principal moments along X-Y (mm ⁴):	3516.8 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	373980.6 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 879.2
Elastic Modulus - Zy (mm ³):	J / x-max= 9066.2

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	727.5
Perimeter (mm):	197.1
Bounding Box - X (mm):	-45.5 to 45.5
Bounding Box - Y (mm):	-4.0 to 4.0
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	3877.7
Moments of inertia - Y (mm ⁴):	501276.8
Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	2.3
Radii of gyration - Y (mm):	26.3
Principal moments along X-Y (mm ⁴):	3877.7 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	501276.8 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 969.4
Elastic Modulus - Zy (mm ³):	J / x-max= 11021.9

A1 --- ALUMINIUM ANGLE GRADE --- 6063 T6	COATING --- ALODINE
---	---------------------

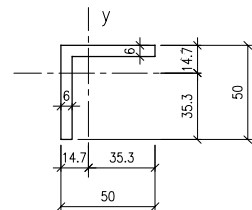
30 x 30 x 8 mm THK. ALUM. ANGLE BRACKET



MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	416.0
Perimeter (mm):	120.0
Bounding Box - X (mm):	-19.7 to 10.3
Bounding Box - Y (mm):	-19.7 to 10.3
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	31224.8
Moments of inertia - Y (mm ⁴):	31224.8
Product of inertia - XY (mm ⁴):	16753.9
Radii of gyration - X (mm):	8.7
Radii of gyration - Y (mm):	8.7
Principal moments along X-Y (mm ⁴):	14471.0 along [0.7 -0.7]
Principal moments along Y-X (mm ⁴):	47978.7 along [0.7 0.7]
Elastic Modulus - Zx (mm ³):	I / y-max= 1588.7
Elastic Modulus - Zy (mm ³):	J / x-max= 1588.7

A2 --- ALUMINIUM ANGLE GRADE --- 6063 T6	COATING --- ALODINE
---	---------------------

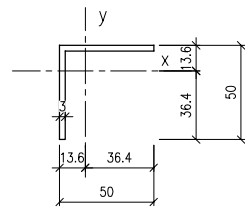
50 x 50 x 6 mm THK. ALUM. ANGLE BRACKET



MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	564.0
Perimeter (mm):	200.0
Bounding Box - X (mm):	-14.7 to 35.3
Bounding Box - Y (mm):	-35.3 to 14.7
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	131256.3
Moments of inertia - Y (mm ⁴):	131257.8
Product of inertia - XY (mm ⁴):	-77233.5
Radii of gyration - X (mm):	15.3
Radii of gyration - Y (mm):	15.3
Principal moments along X-Y (mm ⁴):	54023.5 along [0.7 0.7]
Principal moments along Y-X (mm ⁴):	208490.5 along [-0.7 0.7]
Elastic Modulus - Zx (mm ³):	I / y-max= 3718.5
Elastic Modulus - Zy (mm ³):	J / x-max= 3718.6

A3 --- ALUMINIUM ANGLE GRADE --- 6063 T6	COATING --- ALODINE
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50x50x3mm THK. ALUM. ANGLE



MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	291.0
Perimeter (mm):	200.0
Bounding Box - X (mm):	-13.6 to 36.4
Bounding Box - Y (mm):	-36.4 to 13.6
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	71492.6
Moments of inertia - Y (mm ⁴):	71493.4
Product of inertia - XY (mm ⁴):	-42699.4
Radii of gyration - X (mm):	15.7
Radii of gyration - Y (mm):	15.7
Principal moments along X-Y (mm ⁴):	28793.6 along [0.7 0.7]
Principal moments along Y-X (mm ⁴):	114192.4 along [-0.7 0.7]
Elastic Modulus - Zx (mm ³):	I / y-max= 1964.8
Elastic Modulus - Zy (mm ³):	J / x-max= 1964.8

B.D. REF :

WONG TUNG & PARTNERS LTD.
 APPROVED
 APPROVED AS NOTED
 APPROVED AS NOTED & RESUBMIT
 RESUBMIT
 NO COMMENT
 REFER OTHER CONSULTANT'S COMMENTS
 Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited.
 The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.
 Drawn By: **Alice** () Date: **12/9/2024**

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

MAIN CONTRACTOR :
顯利工程有限公司
 HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER :
SYW | **SYW & ASSOCIATES LTD.**
 CHARTERED ENGINEERS & AUTHORIZED PERSONS
 邵賢偉建築工程師

FACADE CONSULTANT:

- 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 :

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

NO.	DATE	REVISED	BY
-----	------	---------	----

JOB NO. : J-861
 PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : SECTION PROPERTIES FOR CURTAIN WALL

DATE : 18-Jun.-24 SCALE : 1:2(A1)

DRAWN BY : Asing CHECKED BY :

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)2727666

DWG NO. : J861-SD-CW-0009 REV. : -

A5 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A6 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A7 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A8 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A9 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	1381.0	Area (mm ²):	1229.6	Area (mm ²):	1147.2	Area (mm ²):	901.0	Area (mm ²):	1982.2
Perimeter (mm):	1206.9	Perimeter (mm):	1069.6	Perimeter (mm):	954.2	Perimeter (mm):	778.7	Perimeter (mm):	1087.3
Bounding Box - X (mm):	-83.0 to 67.0	Bounding Box - X (mm):	-84.3 to 65.7	Bounding Box - X (mm):	-23.6 to 40.4	Bounding Box - X (mm):	-8.0 to 16.0	Bounding Box - X (mm):	-50.3 to 51.7
Bounding Box - Y (mm):	-52.1 to 34.9	Bounding Box - Y (mm):	-25.2 to 39.8	Bounding Box - Y (mm):	-83.6 to 66.4	Bounding Box - Y (mm):	-74.3 to 75.7	Bounding Box - Y (mm):	-41.5 to 37.5
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	838402.9	Moments of inertia - X (mm ⁴):	277277.7	Moments of inertia - X (mm ⁴):	2755361.2	Moments of inertia - X (mm ⁴):	1924616.3	Moments of inertia - X (mm ⁴):	1269338.2
Moments of inertia - Y (mm ⁴):	3367347.3	Moments of inertia - Y (mm ⁴):	2968078.0	Moments of inertia - Y (mm ⁴):	269388.4	Moments of inertia - Y (mm ⁴):	37659.9	Moments of inertia - Y (mm ⁴):	1335921.3
Product of inertia - XY (mm ⁴):	498144.3	Product of inertia - XY (mm ⁴):	-409728.2	Product of inertia - XY (mm ⁴):	-434195.0	Product of inertia - XY (mm ⁴):	5893.4	Product of inertia - XY (mm ⁴):	366480.2
Radii of gyration - X (mm):	24.6	Radii of gyration - X (mm):	15.0	Radii of gyration - X (mm):	46.2	Radii of gyration - X (mm):	46.2	Radii of gyration - X (mm):	25.3
Radii of gyration - Y (mm):	49.4	Radii of gyration - Y (mm):	49.1	Radii of gyration - Y (mm):	15.3	Radii of gyration - Y (mm):	6.5	Radii of gyration - Y (mm):	26.0
Principal moments along X-Y (mm ⁴):	743817.5 along [1.0 -0.2]	Principal moments along X-Y (mm ⁴):	216271.5 along [1.0 0.1]	Principal moments along X-Y (mm ⁴):	2829014.6 along [1.0 -0.2]	Principal moments along X-Y (mm ⁴):	1924634.7 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	934640.5 along [0.7 -0.7]
Principal moments along Y-X (mm ⁴):	3461932.8 along [0.2 1.0]	Principal moments along Y-X (mm ⁴):	3029084.2 along [-0.1 1.0]	Principal moments along Y-X (mm ⁴):	195735.0 along [0.2 1.0]	Principal moments along Y-X (mm ⁴):	37641.5 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	1670619.0 along [0.7 0.7]
Elastic Modulus - Zx (mm ³):	I / y-max= 16102.9	Elastic Modulus - Zx (mm ³):	I / y-max= 6974.5	Elastic Modulus - Zx (mm ³):	I / y-max= 32944.4	Elastic Modulus - Zx (mm ³):	I / y-max= 25418.4	Elastic Modulus - Zx (mm ³):	I / y-max= 30582.1
Elastic Modulus - Zy (mm ³):	J / x-max= 40569.7	Elastic Modulus - Zy (mm ³):	J / x-max= 35215.5	Elastic Modulus - Zy (mm ³):	J / x-max= 6674.2	Elastic Modulus - Zy (mm ³):	J / x-max= 2353.0	Elastic Modulus - Zy (mm ³):	J / x-max= 25818.7

A10 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A11 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A12 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A13 --- ALUMINIUM DOOR FRAME GRADE --- 6063 T6	COATING --- PVF2 COATING	A14 --- ALUMINIUM GLAZING BEAD GRADE --- 6063 T6	COATING --- PVF2 COATING
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	106.2	Area (mm ²):	689.6	Area (mm ²):	67.9	Area (mm ²):	550.0	Area (mm ²):	135.7
Perimeter (mm):	121.9	Perimeter (mm):	586.6	Perimeter (mm):	54.8	Perimeter (mm):	475.9	Perimeter (mm):	224.9
Bounding Box - X (mm):	-8.6 to 14.3	Bounding Box - X (mm):	-50.1 to 56.9	Bounding Box - X (mm):	-7.4 to 5.4	Bounding Box - X (mm):	-30.9 to 28.1	Bounding Box - X (mm):	-19.9 to 44.1
Bounding Box - Y (mm):	-24.1 to 18.6	Bounding Box - Y (mm):	-26.1 to 25.9	Bounding Box - Y (mm):	-5.9 to 5.9	Bounding Box - Y (mm):	-16.8 to 17.2	Bounding Box - Y (mm):	-15.8 to 9.1
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	13594.8	Moments of inertia - X (mm ⁴):	228289.1	Moments of inertia - X (mm ⁴):	509.6	Moments of inertia - X (mm ⁴):	70045.3	Moments of inertia - X (mm ⁴):	8161.1
Moments of inertia - Y (mm ⁴):	7923.9	Moments of inertia - Y (mm ⁴):	640441.0	Moments of inertia - Y (mm ⁴):	1047.0	Moments of inertia - Y (mm ⁴):	184232.7	Moments of inertia - Y (mm ⁴):	53277.6
Product of inertia - XY (mm ⁴):	-8385.6	Product of inertia - XY (mm ⁴):	-227063.3	Product of inertia - XY (mm ⁴):	-333.3	Product of inertia - XY (mm ⁴):	-11032.0	Product of inertia - XY (mm ⁴):	-13854.1
Radii of gyration - X (mm):	11.3	Radii of gyration - X (mm):	18.2	Radii of gyration - X (mm):	2.7	Radii of gyration - X (mm):	11.3	Radii of gyration - X (mm):	7.8
Radii of gyration - Y (mm):	8.6	Radii of gyration - Y (mm):	30.5	Radii of gyration - Y (mm):	3.9	Radii of gyration - Y (mm):	18.3	Radii of gyration - Y (mm):	19.8
Principal moments along X-Y (mm ⁴):	19611.3 along [0.8 -0.6]	Principal moments along X-Y (mm ⁴):	127730.0 along [0.9 0.4]	Principal moments along X-Y (mm ⁴):	350.1 along [0.9 0.4]	Principal moments along X-Y (mm ⁴):	68989.2 along [1.0 0.1]	Principal moments along X-Y (mm ⁴):	4246.5 along [1.0 0.3]
Principal moments along Y-X (mm ⁴):	1907.4 along [0.6 0.8]	Principal moments along Y-X (mm ⁴):	741000.1 along [-0.4 0.9]	Principal moments along Y-X (mm ⁴):	1206.5 along [-0.4 0.9]	Principal moments along Y-X (mm ⁴):	185288.8 along [-0.1 1.0]	Principal moments along Y-X (mm ⁴):	57192.2 along [-0.3 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 563.3	Elastic Modulus - Zx (mm ³):	I / y-max= 8735.4	Elastic Modulus - Zx (mm ³):	I / y-max= 86.1	Elastic Modulus - Zx (mm ³):	I / y-max= 4073.5	Elastic Modulus - Zx (mm ³):	I / y-max= 517.8
Elastic Modulus - Zy (mm ³):	J / x-max= 553.3	Elastic Modulus - Zy (mm ³):	J / x-max= 11247.4	Elastic Modulus - Zy (mm ³):	J / x-max= 141.2	Elastic Modulus - Zy (mm ³):	J / x-max= 5957.5	Elastic Modulus - Zy (mm ³):	J / x-max= 1208.5

B.D. REF :

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	<input checked="" type="checkbox"/>
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed By Alice	Date 12/9/2024

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED ARCHITECTS & PLANNERS

MAIN CONTRACTOR :
顯利工程有限公司 HIEN LEE ENGINEERING CO., LTD.

STRUCTURAL ENGINEER :
SYW | SYW & ASSOCIATES LTD. 邵賢偉建築工程師

FACADE CONSULTANT:

NOTE :

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

LEGEND :

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

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

NO.	DATE	REVISED	BY

JOB NO. : J-861

PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : SECTION PROPERTIES FOR CURTAIN WALL

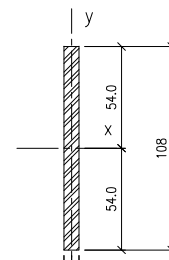
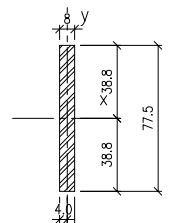
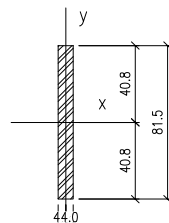
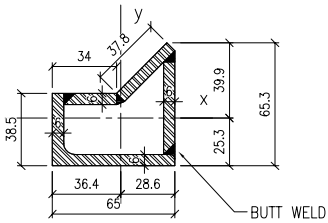
DATE : 18-Jun.-24 SCALE : 1:2(A1)

DRAWN BY : Asing CHECKED BY :

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)2727666

DWG NO. : J861-SD-CW-0010 REV. : -

S1 --- 65x65x6mm THK. G.M.S. BUILD-UP HOLLOW GRADE --- S275J0	COATING HOT-DIP GALVANIZED	S2 --- 81.5x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED	S3 --- 77.5x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED	S4 --- 108x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED	B.D. REF :
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WONG TUNG & PARTNERS LTD.

APPROVED	
APPROVED AS NOTED	✓
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	

Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the ones cited.
This approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.

Reviewed By: **Alice** () Date: **12/9/2024**

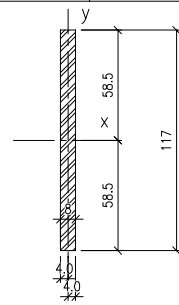
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	1312.6
Perimeter (mm) :	430.2
Bounding Box - X (mm):	-36.4 to 28.6
Bounding Box - Y (mm):	-25.3 to 39.9
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	470500.4
Moments of inertia - Y (mm ⁴) :	683320.0
Product of inertia - XY (mm ⁴) :	-169937.8
Radii of gyration - X (mm) :	18.9
Radii of gyration - Y (mm) :	22.8
Principal moments along X-Y (mm ⁴) :	376406.1 along [0.9 0.5]
Principal moments along Y-X (mm ⁴) :	777414.3 along [-0.5 0.9]
Elastic Modulus - Zx (mm ³):	I / y-max= 11789.2
Elastic Modulus - Zy (mm ³):	J / x-max= 18790.0

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	652.0
Perimeter (mm) :	179.0
Bounding Box - X (mm):	-4.0 to 4.0
Bounding Box - Y (mm):	-40.8 to 40.8
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	360895.6
Moments of inertia - Y (mm ⁴) :	3477.3
Product of inertia - XY (mm ⁴) :	0.0
Radii of gyration - X (mm) :	23.5
Radii of gyration - Y (mm) :	2.3
Principal moments along X-Y (mm ⁴) :	360895.6 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	3477.3 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 8856.3
Elastic Modulus - Zy (mm ³):	J / x-max= 869.3

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	620.0
Perimeter (mm) :	171.0
Bounding Box - X (mm):	-4.0 to 4.0
Bounding Box - Y (mm):	-38.8 to 38.8
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	310322.9
Moments of inertia - Y (mm ⁴) :	3306.6
Product of inertia - XY (mm ⁴) :	0.0
Radii of gyration - X (mm) :	22.4
Radii of gyration - Y (mm) :	2.3
Principal moments along X-Y (mm ⁴) :	310322.9 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	3306.6 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 8008.3
Elastic Modulus - Zy (mm ³):	J / x-max= 826.7

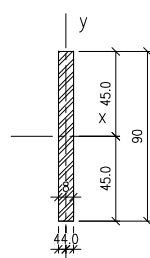
MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	864.0
Perimeter (mm) :	232.0
Bounding Box - X (mm):	-4.0 to 4.0
Bounding Box - Y (mm):	-54.0 to 54.0
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	839808.0
Moments of inertia - Y (mm ⁴) :	4608.0
Product of inertia - XY (mm ⁴) :	0.0
Radii of gyration - X (mm) :	31.2
Radii of gyration - Y (mm) :	2.3
Principal moments along X-Y (mm ⁴) :	839808.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	4608.0 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 15552.0
Elastic Modulus - Zy (mm ³):	J / x-max= 1152.0

S5 --- 117x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED
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MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	936.0
Perimeter (mm) :	250.0
Bounding Box - X (mm):	-4.0 to 4.0
Bounding Box - Y (mm):	-58.5 to 58.5
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	1067742.0
Moments of inertia - Y (mm ⁴) :	4992.1
Product of inertia - XY (mm ⁴) :	0.0
Radii of gyration - X (mm) :	33.8
Radii of gyration - Y (mm) :	2.3
Principal moments along X-Y (mm ⁴) :	1067742.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	4992.1 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 18252.0
Elastic Modulus - Zy (mm ³):	J / x-max= 1248.0

S6 --- 90x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED
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MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	720.0
Perimeter (mm) :	196.0
Bounding Box - X (mm):	-4.0 to 4.0
Bounding Box - Y (mm):	-45.0 to 45.0
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	486000.0
Moments of inertia - Y (mm ⁴) :	3840.0
Product of inertia - XY (mm ⁴) :	0.0
Radii of gyration - X (mm) :	26.0
Radii of gyration - Y (mm) :	2.3
Principal moments along X-Y (mm ⁴) :	486000.0 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	3840.0 along [0.0 1.0]
Elastic Modulus - Zx (mm ³):	I / y-max= 10800.0
Elastic Modulus - Zy (mm ³):	J / x-max= 960.0

CLIENT : **MILLION BASE PROPERTIES LIMITED**

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

MAIN CONTRACTOR : **顯利工程有限公司 HIEN LEE ENGINEERING CO., LTD.**

STRUCTURAL ENGINEER : **SYW & ASSOCIATES LTD. 邵賢偉建築工程師**

FACADE CONSULTANT:

NOTE :

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

LEGEND :

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

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

NO.	DATE	REVISED	BY

JOB NO. : J-861

PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : SECTION PROPERTIES FOR CURTAIN WALL

DATE : 18-Jun.-24 SCALE : 1:2(A1)

DRAWN BY : Asing CHECKED BY :

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DWG NO. : J861-SD-CW-0011 REV. : -