



美特鋁質有限公司

MIDI ALUMINIUM FABRICATOR LTD.



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

工程指示編號:	EI- 4171	修改版本:	A
	HK- 0496		
工程編號:	J 859	工程名稱:	NKJL 6551
收件人:	生料	發件人:	bear lam
工程項目:	佛沙窗鋁型材機頭料樣板	日期:	28/03/2022

<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-
---------------------------------	------------------------------------------	------------------------------------

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 checked="" type="checkbox"/> 樣辦或貨品說明書	<input type="checkbox"/> 分判合約
<input type="checkbox"/> 其他:		

內容:
請提供附件中的鋁型材, 每款一支25mm 長, 送香港5/F bear 收, 供上型材樣板用, 不用加工, 只需開料, 可以是其他地盤的顏色或毛料。

完成上列要求日期: 04/01/2022

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 checked="" type="checkbox"/> 生產部	<input checked="" 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"/> 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: bear Lam	*組別成員批核簽署
傳遞編號:	項目經理簽署: Wan

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	403.3
Perimeter (mm)	382.8
Bounding Box - X (mm)	-33.3 to 31.7
Bounding Box - Y (mm)	-38.7 to 31.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	29734.6
Moments of Inertia - Y (mm ⁴)	99794.2
Product of Inertia - XY (mm ⁴)	-35402.6
Radius of gyration - X (mm)	29.1
Radius of gyration - Y (mm)	18.4
Principal moments along X-Y (mm ⁴)	30004.6 along (1.0 -0.3)
Principal moments along Y-X (mm ⁴)	99006.1 along (0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 9235.1
Elastic Modulus - Yy (mm ²)	1 / I x-max= 2994.3

J856 CKHK16240 X86003

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	525.4
Perimeter (mm)	461.7
Bounding Box - X (mm)	-26.5 to 27.5
Bounding Box - Y (mm)	-29.2 to 40.8
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	299781.1
Moments of Inertia - Y (mm ⁴)	47075.7
Product of Inertia - XY (mm ⁴)	-9401.2
Radius of gyration - X (mm)	23.9
Radius of gyration - Y (mm)	9.5
Principal moments along X-Y (mm ⁴)	300132.6 along (1.0 0.0)
Principal moments along Y-X (mm ⁴)	46724.2 along (0.0 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 1343.4
Elastic Modulus - Yy (mm ²)	1 / I x-max= 1652.6

J859 CKHK16831 X86198

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	424.8
Perimeter (mm)	366.3
Bounding Box - X (mm)	-31.8 to 33.2
Bounding Box - Y (mm)	-31.6 to 38.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	33003.2
Moments of Inertia - Y (mm ⁴)	87855.3
Product of Inertia - XY (mm ⁴)	-32708.7
Radius of gyration - X (mm)	26.9
Radius of gyration - Y (mm)	15.2
Principal moments along X-Y (mm ⁴)	380187.4 along (1.0 -0.3)
Principal moments along Y-X (mm ⁴)	83761.2 along (0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 6036.8
Elastic Modulus - Yy (mm ²)	1 / I x-max= 2444.1

J856 CKHK16246 X86009

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	290.8
Perimeter (mm)	342.8
Bounding Box - X (mm)	-16.2 to 23.8
Bounding Box - Y (mm)	-29.2 to 40.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	21416.7
Moments of Inertia - Y (mm ⁴)	18235.2
Product of Inertia - XY (mm ⁴)	19168.9
Radius of gyration - X (mm)	24.3
Radius of gyration - Y (mm)	7.9
Principal moments along X-Y (mm ⁴)	215994.2 along (1.0 0.1)
Principal moments along Y-X (mm ⁴)	17362.8 along (0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 5297.4
Elastic Modulus - Yy (mm ²)	1 / I x-max= 699.0

J856 CKHK16246 X86010

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	386.0
Perimeter (mm)	283.3
Bounding Box - X (mm)	-23.6 to 16.4
Bounding Box - Y (mm)	-39.4 to 30.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	220251.8
Moments of Inertia - Y (mm ⁴)	20475.3
Product of Inertia - XY (mm ⁴)	-24543.9
Radius of gyration - X (mm)	26.7
Radius of gyration - Y (mm)	8.2
Principal moments along X-Y (mm ⁴)	223242.0 along (1.0 0.1)
Principal moments along Y-X (mm ⁴)	17502.9 along (-0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 5265.5
Elastic Modulus - Yy (mm ²)	1 / I x-max= 867.0

J856 CKHK16244 X86007

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	441.9
Perimeter (mm)	412.5
Bounding Box - X (mm)	-31.7 to 38.3
Bounding Box - Y (mm)	-30.9 to 65.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	94327.4
Moments of Inertia - Y (mm ⁴)	360548.5
Product of Inertia - XY (mm ⁴)	-31655.5
Radius of gyration - X (mm)	14.5
Radius of gyration - Y (mm)	28.6
Principal moments along X-Y (mm ⁴)	84252.6 along (1.0 0.1)
Principal moments along Y-X (mm ⁴)	386254.4 along (-0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 2788.2
Elastic Modulus - Yy (mm ²)	1 / I x-max= 559.6

J856 CKHK16246 X86009

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	1129.7
Perimeter (mm)	569.3
Bounding Box - X (mm)	-36.3 to 38.7
Bounding Box - Y (mm)	-36.3 to 38.7
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	847266.8
Moments of Inertia - Y (mm ⁴)	847333.3
Product of Inertia - XY (mm ⁴)	4716.9
Radius of gyration - X (mm)	27.4
Radius of gyration - Y (mm)	27.4
Principal moments along X-Y (mm ⁴)	847266.8 along (0.7 0.7)
Principal moments along Y-X (mm ⁴)	847333.3 along (-0.7 0.7)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 21342.1
Elastic Modulus - Yy (mm ²)	1 / I x-max= 21342.1

J856 CKHK16246 X86009

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	373.3
Perimeter (mm)	342.8
Bounding Box - X (mm)	-27.9 to 32.7
Bounding Box - Y (mm)	-27.9 to 22.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	167622.5
Moments of Inertia - Y (mm ⁴)	86012.0
Product of Inertia - XY (mm ⁴)	-15989.0
Radius of gyration - X (mm)	21.1
Radius of gyration - Y (mm)	14.0
Principal moments along X-Y (mm ⁴)	167622.5 along (1.0 -0.3)
Principal moments along Y-X (mm ⁴)	87591.9 along (0.3 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 6058.8
Elastic Modulus - Yy (mm ²)	1 / I x-max= 2836.6

J856 CKHK16247 X86010

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	424.4
Perimeter (mm)	378.8
Bounding Box - X (mm)	-28.6 to 27.4
Bounding Box - Y (mm)	-20.0 to 30.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	128416.7
Moments of Inertia - Y (mm ⁴)	43534.9
Product of Inertia - XY (mm ⁴)	-24543.9
Radius of gyration - X (mm)	17.3
Radius of gyration - Y (mm)	10.2
Principal moments along X-Y (mm ⁴)	126795.0 along (1.0 -0.1)
Principal moments along Y-X (mm ⁴)	43456.6 along (0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 4216.9
Elastic Modulus - Yy (mm ²)	1 / I x-max= 1534.6

J859 CKHK16832 X86199

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	446.9
Perimeter (mm)	392.7
Bounding Box - X (mm)	-35.8 to 24.2
Bounding Box - Y (mm)	-31.8 to 33.2
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	88137.8
Moments of Inertia - Y (mm ⁴)	197355.5
Product of Inertia - XY (mm ⁴)	-22088.6
Radius of gyration - X (mm)	14.8
Radius of gyration - Y (mm)	15.2
Principal moments along X-Y (mm ⁴)	80552.5 along (1.0 -0.3)
Principal moments along Y-X (mm ⁴)	202819.5 along (0.3 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 2203.1
Elastic Modulus - Yy (mm ²)	1 / I x-max= 5516.6

J856 CKHK16249 X86199

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	429.3
Perimeter (mm)	373.7
Bounding Box - X (mm)	-27.2 to 22.8
Bounding Box - Y (mm)	-11.1 to 31.9
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	88066.4
Moments of Inertia - Y (mm ⁴)	178130.4
Product of Inertia - XY (mm ⁴)	-24182.4
Radius of gyration - X (mm)	15.1
Radius of gyration - Y (mm)	20.4
Principal moments along X-Y (mm ⁴)	81222.5 along (1.0 0.3)
Principal moments along Y-X (mm ⁴)	184883.3 along (-0.3 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 2444.1
Elastic Modulus - Yy (mm ²)	1 / I x-max= 657.5

J856 CKHK16250 X86013

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	484.9
Perimeter (mm)	432.7
Bounding Box - X (mm)	-27.9 to 34.0
Bounding Box - Y (mm)	-31.0 to 34.0
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	161307.0
Moments of Inertia - Y (mm ⁴)	421904.4
Product of Inertia - XY (mm ⁴)	31068.1
Radius of gyration - X (mm)	25.8
Radius of gyration - Y (mm)	14.3
Principal moments along X-Y (mm ⁴)	88162.1 along (1.0 -0.1)
Principal moments along Y-X (mm ⁴)	420483.3 along (0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 2282.2
Elastic Modulus - Yy (mm ²)	1 / I x-max= 9776.8

J856 CKHK16251 X86014

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	865.8
Perimeter (mm)	551.1
Bounding Box - X (mm)	-40.3 to 40.7
Bounding Box - Y (mm)	-34.9 to 35.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	881770.0
Moments of Inertia - Y (mm ⁴)	325214.4
Product of Inertia - XY (mm ⁴)	-87845.0
Radius of gyration - X (mm)	27.7
Radius of gyration - Y (mm)	16.8
Principal moments along X-Y (mm ⁴)	236204.6 along (0.2 -1.0)
Principal moments along Y-X (mm ⁴)	898083.0 along (1.0 0.2)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 4216.9
Elastic Modulus - Yy (mm ²)	1 / I x-max= 6229.2

J859 CKHK17156 X86262

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	459.1
Perimeter (mm)	411.9
Bounding Box - X (mm)	-31.8 to 38.2
Bounding Box - Y (mm)	-31.4 to 33.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	88817.0
Moments of Inertia - Y (mm ⁴)	212214.9
Product of Inertia - XY (mm ⁴)	-21231.1
Radius of gyration - X (mm)	14.7
Radius of gyration - Y (mm)	18.7
Principal moments along X-Y (mm ⁴)	95781.1 along (1.0 0.1)
Principal moments along Y-X (mm ⁴)	368883.3 along (-0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 2203.1
Elastic Modulus - Yy (mm ²)	1 / I x-max= 9878.0

J856 CKHK16253 X86262

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

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	102.3
Perimeter (mm)	178.5
Bounding Box - X (mm)	-11.1 to 11.5
Bounding Box - Y (mm)	-10.7 to 9.9
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	5481.2
Moments of Inertia - Y (mm ⁴)	7128.9
Product of Inertia - XY (mm ⁴)	-233.6
Radius of gyration - X (mm)	7.3
Radius of gyration - Y (mm)	8.4
Principal moments along X-Y (mm ⁴)	5448.2 along (1.0 0.1)
Principal moments along Y-X (mm ⁴)	7182.9 along (-0.1 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 535.1
Elastic Modulus - Yy (mm ²)	1 / I x-max= 622.5

J859 CKHK16845 X86016

MEMBER : AW-16
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

MASS PROPERTIES (UNIT)	VALUES
Area (mm ²)	118.7
Perimeter (mm)	201.2
Bounding Box - X (mm)	-13.3 to 13.7
Bounding Box - Y (mm)	-11.3 to 10.7
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	7577.8
Moments of Inertia - Y (mm ⁴)	11188.4
Product of Inertia - XY (mm ⁴)	27.8
Radius of gyration - X (mm)	8.0
Radius of gyration - Y (mm)	10.1
Principal moments along X-Y (mm ⁴)	7577.8 along (1.0 0.0)
Principal moments along Y-X (mm ⁴)	12188.8 along (0.0 1.0)
Elastic Modulus - Xx (mm ²)	1 / I y-max= 692.2
Elastic Modulus - Yy (mm ²)	1 / I x-max= 860.7

J859 CKHK16844 X86201

B.D. REF :
.....

ARCHITECT :
WT WONG TUNG PARTNERS LIMITED
ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SUN HUNG KAI
ARCHITECTS AND ENGINEERS LTD.
SUN HUNG KAI CENTRE, WANCHAI, HONGKONG
TEL. 28278111 FAX. 2827884

FAÇADE CONSULTANT:
ALPHA CONSULTING LIMITED
Steel Structure & Façade Specialist

MAIN CONTRACTOR :
Sanfield Engineering Construction Ltd.

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

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

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

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

NO.	DATE	REVISED	BY

JOB NO. : J-859
PROJECT : PROPOSED RESIDENTIAL / COMMERCIAL DEVELOPMENT AT NKIL NO.6551 KAI TAK AREA 4C, SITE 3 KAI TAK, KOWLOON

TITLE : DIE LIST FOR ALUM. WINDOW (TOWER 1 - TOWER 9)

DATE : 10-Nov-21 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

MEMBER : GRADE : FINISH :	MEMBER : GRADE : FINISH :	MEMBER : GRADE : FINISH :	MEMBER : GRADE : FINISH :																																																																																																																																	
MEMBER : AW-17 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>475.3</td></tr> <tr><td>Perimeter (mm)</td><td>413.7</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-37.7 to 32.3</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-33.9 to 31.1</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>191290.9</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>387545.1</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-32718.3</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>14.9</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>28.6</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>97890.0 along (0.0 0.3)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>391337.0 along (-0.1 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 2984.9</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 10292.4</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	475.3	Perimeter (mm)	413.7	Bounding Box - X (mm)	-37.7 to 32.3	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)	191290.9	Moments of inertia - Y (mm ⁴)	387545.1	Product of inertia - XY (mm ⁴)	-32718.3	Radius of gyration - X (mm)	14.9	Radius of gyration - Y (mm)	28.6	Principal moments along X-Y (mm ⁴)	97890.0 along (0.0 0.3)	Principal moments along X-Y (mm ⁴)	391337.0 along (-0.1 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 2984.9	Elastic Modulus - Zy (mm ²)	1 / x-max= 10292.4	MEMBER : AW-18 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>335.3</td></tr> <tr><td>Perimeter (mm)</td><td>324.5</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-25.6 to 25.4</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-26.9 to 43.1</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>118900.7</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>13815.4</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>5711.6</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>24.6</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>10.0</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>12640.2 along (0.0 1.0)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>22025.8 along (-1.0 0.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 5101.3</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 1327.4</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	335.3	Perimeter (mm)	324.5	Bounding Box - X (mm)	-25.6 to 25.4	Bounding Box - Y (mm)	-26.9 to 43.1	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	118900.7	Moments of inertia - Y (mm ⁴)	13815.4	Product of inertia - XY (mm ⁴)	5711.6	Radius of gyration - X (mm)	24.6	Radius of gyration - Y (mm)	10.0	Principal moments along X-Y (mm ⁴)	12640.2 along (0.0 1.0)	Principal moments along X-Y (mm ⁴)	22025.8 along (-1.0 0.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 5101.3	Elastic Modulus - Zy (mm ²)	1 / x-max= 1327.4	MEMBER : AW-19 GRADE : 6061-T6 FINISH : Chromate or Anodize  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>442.9</td></tr> <tr><td>Perimeter (mm)</td><td>360.0</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-17.6 to 47.4</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-26.9 to 47.4</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>184900.5</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>184900.5</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>110533.6</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>25.4</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>25.4</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>29843.2 along (0.7 0.3)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>14366.3 along (-0.7 0.3)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 3968.8</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 3968.8</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	442.9	Perimeter (mm)	360.0	Bounding Box - X (mm)	-17.6 to 47.4	Bounding Box - Y (mm)	-26.9 to 47.4	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	184900.5	Moments of inertia - Y (mm ⁴)	184900.5	Product of inertia - XY (mm ⁴)	110533.6	Radius of gyration - X (mm)	25.4	Radius of gyration - Y (mm)	25.4	Principal moments along X-Y (mm ⁴)	29843.2 along (0.7 0.3)	Principal moments along X-Y (mm ⁴)	14366.3 along (-0.7 0.3)	Elastic Modulus - Zx (mm ²)	1 / y-max= 3968.8	Elastic Modulus - Zy (mm ²)	1 / x-max= 3968.8	MEMBER : AW-20 GRADE : 6061-T6 FINISH : Chromate or Anodize  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>584.8</td></tr> <tr><td>Perimeter (mm)</td><td>360.0</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-17.9 to 47.1</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-17.9 to 47.1</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>232431.1</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>232431.1</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>138626.5</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>25.3</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>25.3</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>371096.6 along (0.7 0.3)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>53946.6 along (-0.7 0.3)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 4937.6</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 4937.6</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	584.8	Perimeter (mm)	360.0	Bounding Box - X (mm)	-17.9 to 47.1	Bounding Box - Y (mm)	-17.9 to 47.1	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	232431.1	Moments of inertia - Y (mm ⁴)	232431.1	Product of inertia - XY (mm ⁴)	138626.5	Radius of gyration - X (mm)	25.3	Radius of gyration - Y (mm)	25.3	Principal moments along X-Y (mm ⁴)	371096.6 along (0.7 0.3)	Principal moments along X-Y (mm ⁴)	53946.6 along (-0.7 0.3)	Elastic Modulus - Zx (mm ²)	1 / y-max= 4937.6	Elastic Modulus - Zy (mm ²)	1 / x-max= 4937.6	B.D. REF : ARCHITECT :  STRUCTURAL ENGINEER :  SUN HUNG KAI CENTRE, WANCHAI, HONGKONG TEL. 28278111 FAX. 28272884 FACADE CONSULTANT:  ALPHA CONSULTING LIMITED Steel Structure & Facade Specialist MAIN CONTRACTOR : Sanfield Engineering Construction Ltd. CLIENT :  SUN HUNG KAI REAL ESTATE AGENCY LTD. 42/F SUN HUNG KAI CENTRE, WANCHAI, HONGKONG NOTE : 1. ALL DIMENSIONS ARE IN mm. 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE. 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION. LEGEND : (X1) --- DETAIL MARK NO. (X001) --- REFER SHEET NO. 1. F.F.L. --- FINISHED FLOOR LEVEL 2. S.F.L. --- STRUCTURAL FLOOR LEVEL 3. (R) --- REVERSED DETAIL
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	475.3																																																																																																																																			
Perimeter (mm)	413.7																																																																																																																																			
Bounding Box - X (mm)	-37.7 to 32.3																																																																																																																																			
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)	191290.9																																																																																																																																			
Moments of inertia - Y (mm ⁴)	387545.1																																																																																																																																			
Product of inertia - XY (mm ⁴)	-32718.3																																																																																																																																			
Radius of gyration - X (mm)	14.9																																																																																																																																			
Radius of gyration - Y (mm)	28.6																																																																																																																																			
Principal moments along X-Y (mm ⁴)	97890.0 along (0.0 0.3)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	391337.0 along (-0.1 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 2984.9																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 10292.4																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	335.3																																																																																																																																			
Perimeter (mm)	324.5																																																																																																																																			
Bounding Box - X (mm)	-25.6 to 25.4																																																																																																																																			
Bounding Box - Y (mm)	-26.9 to 43.1																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	118900.7																																																																																																																																			
Moments of inertia - Y (mm ⁴)	13815.4																																																																																																																																			
Product of inertia - XY (mm ⁴)	5711.6																																																																																																																																			
Radius of gyration - X (mm)	24.6																																																																																																																																			
Radius of gyration - Y (mm)	10.0																																																																																																																																			
Principal moments along X-Y (mm ⁴)	12640.2 along (0.0 1.0)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	22025.8 along (-1.0 0.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 5101.3																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 1327.4																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	442.9																																																																																																																																			
Perimeter (mm)	360.0																																																																																																																																			
Bounding Box - X (mm)	-17.6 to 47.4																																																																																																																																			
Bounding Box - Y (mm)	-26.9 to 47.4																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	184900.5																																																																																																																																			
Moments of inertia - Y (mm ⁴)	184900.5																																																																																																																																			
Product of inertia - XY (mm ⁴)	110533.6																																																																																																																																			
Radius of gyration - X (mm)	25.4																																																																																																																																			
Radius of gyration - Y (mm)	25.4																																																																																																																																			
Principal moments along X-Y (mm ⁴)	29843.2 along (0.7 0.3)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	14366.3 along (-0.7 0.3)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 3968.8																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 3968.8																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	584.8																																																																																																																																			
Perimeter (mm)	360.0																																																																																																																																			
Bounding Box - X (mm)	-17.9 to 47.1																																																																																																																																			
Bounding Box - Y (mm)	-17.9 to 47.1																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	232431.1																																																																																																																																			
Moments of inertia - Y (mm ⁴)	232431.1																																																																																																																																			
Product of inertia - XY (mm ⁴)	138626.5																																																																																																																																			
Radius of gyration - X (mm)	25.3																																																																																																																																			
Radius of gyration - Y (mm)	25.3																																																																																																																																			
Principal moments along X-Y (mm ⁴)	371096.6 along (0.7 0.3)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	53946.6 along (-0.7 0.3)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 4937.6																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 4937.6																																																																																																																																			
MEMBER : AW-21 GRADE : 6063-T5 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>97.3</td></tr> <tr><td>Perimeter (mm)</td><td>171.3</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-10.8 to 10.8</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-10.8 to 9.8</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>5078.5</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>5867.1</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-208.4</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>7.2</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>7.4</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>6024.8 along (1.0 0.2)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>5918.8 along (-0.2 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 468.6</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 563.4</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	97.3	Perimeter (mm)	171.3	Bounding Box - X (mm)	-10.8 to 10.8	Bounding Box - Y (mm)	-10.8 to 9.8	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	5078.5	Moments of inertia - Y (mm ⁴)	5867.1	Product of inertia - XY (mm ⁴)	-208.4	Radius of gyration - X (mm)	7.2	Radius of gyration - Y (mm)	7.4	Principal moments along X-Y (mm ⁴)	6024.8 along (1.0 0.2)	Principal moments along X-Y (mm ⁴)	5918.8 along (-0.2 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 468.6	Elastic Modulus - Zy (mm ²)	1 / x-max= 563.4	MEMBER : AW-22 GRADE : 6063-T5 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>112.4</td></tr> <tr><td>Perimeter (mm)</td><td>195.4</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-13.9 to 13.8</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-10.9 to 9.7</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>6117.1</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>10570.4</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-533.4</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>7.4</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>9.7</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>1024.1 along (1.0 0.1)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>10633.4 along (-0.1 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 562.4</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 165.4</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	112.4	Perimeter (mm)	195.4	Bounding Box - X (mm)	-13.9 to 13.8	Bounding Box - Y (mm)	-10.9 to 9.7	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	6117.1	Moments of inertia - Y (mm ⁴)	10570.4	Product of inertia - XY (mm ⁴)	-533.4	Radius of gyration - X (mm)	7.4	Radius of gyration - Y (mm)	9.7	Principal moments along X-Y (mm ⁴)	1024.1 along (1.0 0.1)	Principal moments along X-Y (mm ⁴)	10633.4 along (-0.1 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 562.4	Elastic Modulus - Zy (mm ²)	1 / x-max= 165.4	MEMBER : AW-23 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>130.84</td></tr> <tr><td>Perimeter (mm)</td><td>236.46</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-13.9 to 33.36</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-24.83 to 25.07</td></tr> <tr><td>Centroid - X (mm)</td><td>0.00</td></tr> <tr><td>Centroid - Y (mm)</td><td>0.00</td></tr> <tr><td>Moments of inertia - X (mm⁴)</td><td>90239.64</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>131492.97</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>159727.93</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>16.52</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>18.84</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>1024.1 along (0.77 -0.64)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>218587.49 along (0.64 0.77)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 3096.91</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 3941.11</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	130.84	Perimeter (mm)	236.46	Bounding Box - X (mm)	-13.9 to 33.36	Bounding Box - Y (mm)	-24.83 to 25.07	Centroid - X (mm)	0.00	Centroid - Y (mm)	0.00	Moments of inertia - X (mm ⁴)	90239.64	Moments of inertia - Y (mm ⁴)	131492.97	Product of inertia - XY (mm ⁴)	159727.93	Radius of gyration - X (mm)	16.52	Radius of gyration - Y (mm)	18.84	Principal moments along X-Y (mm ⁴)	1024.1 along (0.77 -0.64)	Principal moments along X-Y (mm ⁴)	218587.49 along (0.64 0.77)	Elastic Modulus - Zx (mm ²)	1 / y-max= 3096.91	Elastic Modulus - Zy (mm ²)	1 / x-max= 3941.11	MEMBER : AW-24 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>686.3</td></tr> <tr><td>Perimeter (mm)</td><td>600.6</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-36.9 to 23.1</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-40.2 to 40.8</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>258327.3</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>265698.4</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>42629.9</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>18.0</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>18.5</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>22922.6 along (1.0 0.2)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>266733.1 along (-0.2 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 5547.7</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 7162.6</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	686.3	Perimeter (mm)	600.6	Bounding Box - X (mm)	-36.9 to 23.1	Bounding Box - Y (mm)	-40.2 to 40.8	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	258327.3	Moments of inertia - Y (mm ⁴)	265698.4	Product of inertia - XY (mm ⁴)	42629.9	Radius of gyration - X (mm)	18.0	Radius of gyration - Y (mm)	18.5	Principal moments along X-Y (mm ⁴)	22922.6 along (1.0 0.2)	Principal moments along X-Y (mm ⁴)	266733.1 along (-0.2 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 5547.7	Elastic Modulus - Zy (mm ²)	1 / x-max= 7162.6	J856 CKHK16256 X86022 J859 CKHK17155 X86263 J859 CKHK16846 X86202 J859 CKHK16833 X86203 J859 CKHK16834 X86204
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	97.3																																																																																																																																			
Perimeter (mm)	171.3																																																																																																																																			
Bounding Box - X (mm)	-10.8 to 10.8																																																																																																																																			
Bounding Box - Y (mm)	-10.8 to 9.8																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	5078.5																																																																																																																																			
Moments of inertia - Y (mm ⁴)	5867.1																																																																																																																																			
Product of inertia - XY (mm ⁴)	-208.4																																																																																																																																			
Radius of gyration - X (mm)	7.2																																																																																																																																			
Radius of gyration - Y (mm)	7.4																																																																																																																																			
Principal moments along X-Y (mm ⁴)	6024.8 along (1.0 0.2)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	5918.8 along (-0.2 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 468.6																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 563.4																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	112.4																																																																																																																																			
Perimeter (mm)	195.4																																																																																																																																			
Bounding Box - X (mm)	-13.9 to 13.8																																																																																																																																			
Bounding Box - Y (mm)	-10.9 to 9.7																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	6117.1																																																																																																																																			
Moments of inertia - Y (mm ⁴)	10570.4																																																																																																																																			
Product of inertia - XY (mm ⁴)	-533.4																																																																																																																																			
Radius of gyration - X (mm)	7.4																																																																																																																																			
Radius of gyration - Y (mm)	9.7																																																																																																																																			
Principal moments along X-Y (mm ⁴)	1024.1 along (1.0 0.1)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	10633.4 along (-0.1 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 562.4																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 165.4																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	130.84																																																																																																																																			
Perimeter (mm)	236.46																																																																																																																																			
Bounding Box - X (mm)	-13.9 to 33.36																																																																																																																																			
Bounding Box - Y (mm)	-24.83 to 25.07																																																																																																																																			
Centroid - X (mm)	0.00																																																																																																																																			
Centroid - Y (mm)	0.00																																																																																																																																			
Moments of inertia - X (mm ⁴)	90239.64																																																																																																																																			
Moments of inertia - Y (mm ⁴)	131492.97																																																																																																																																			
Product of inertia - XY (mm ⁴)	159727.93																																																																																																																																			
Radius of gyration - X (mm)	16.52																																																																																																																																			
Radius of gyration - Y (mm)	18.84																																																																																																																																			
Principal moments along X-Y (mm ⁴)	1024.1 along (0.77 -0.64)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	218587.49 along (0.64 0.77)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 3096.91																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 3941.11																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	686.3																																																																																																																																			
Perimeter (mm)	600.6																																																																																																																																			
Bounding Box - X (mm)	-36.9 to 23.1																																																																																																																																			
Bounding Box - Y (mm)	-40.2 to 40.8																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	258327.3																																																																																																																																			
Moments of inertia - Y (mm ⁴)	265698.4																																																																																																																																			
Product of inertia - XY (mm ⁴)	42629.9																																																																																																																																			
Radius of gyration - X (mm)	18.0																																																																																																																																			
Radius of gyration - Y (mm)	18.5																																																																																																																																			
Principal moments along X-Y (mm ⁴)	22922.6 along (1.0 0.2)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	266733.1 along (-0.2 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 5547.7																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 7162.6																																																																																																																																			
MEMBER : AW-25 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>384.1</td></tr> <tr><td>Perimeter (mm)</td><td>272.9</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-34.9 to 34.9</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-34.6 to 35.4</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>167624.2</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>212692.7</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>182219.9</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>20.9</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>23.5</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>2662.0 along (0.7 0.3)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>376752.9 along (-0.7 0.7)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 4719.9</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 6067.3</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	384.1	Perimeter (mm)	272.9	Bounding Box - X (mm)	-34.9 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)	167624.2	Moments of inertia - Y (mm ⁴)	212692.7	Product of inertia - XY (mm ⁴)	182219.9	Radius of gyration - X (mm)	20.9	Radius of gyration - Y (mm)	23.5	Principal moments along X-Y (mm ⁴)	2662.0 along (0.7 0.3)	Principal moments along X-Y (mm ⁴)	376752.9 along (-0.7 0.7)	Elastic Modulus - Zx (mm ²)	1 / y-max= 4719.9	Elastic Modulus - Zy (mm ²)	1 / x-max= 6067.3	MEMBER : AW-26 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>916.4</td></tr> <tr><td>Perimeter (mm)</td><td>589.8</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-46.9 to 33.1</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-40.3 to 40.7</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>259842.4</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>216707.8</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-696.1</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>16.8</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>14.0</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>74981.9 along (1.0 0.0)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>216808.3 along (0.0 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 636.3</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 15292.1</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	916.4	Perimeter (mm)	589.8	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)	259842.4	Moments of inertia - Y (mm ⁴)	216707.8	Product of inertia - XY (mm ⁴)	-696.1	Radius of gyration - X (mm)	16.8	Radius of gyration - Y (mm)	14.0	Principal moments along X-Y (mm ⁴)	74981.9 along (1.0 0.0)	Principal moments along X-Y (mm ⁴)	216808.3 along (0.0 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 636.3	Elastic Modulus - Zy (mm ²)	1 / x-max= 15292.1	MEMBER : AW-27 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>896.5</td></tr> <tr><td>Perimeter (mm)</td><td>551.6</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-46.9 to 46.5</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-37.8 to 32.2</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>681305.5</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>237724.2</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>19.7</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>27.6</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>15.8</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>681305.5 along (1.0 0.0)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>237724.2 along (0.0 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 1819.0</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 636.3</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	896.5	Perimeter (mm)	551.6	Bounding Box - X (mm)	-46.9 to 46.5	Bounding Box - Y (mm)	-37.8 to 32.2	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	681305.5	Moments of inertia - Y (mm ⁴)	237724.2	Product of inertia - XY (mm ⁴)	19.7	Radius of gyration - X (mm)	27.6	Radius of gyration - Y (mm)	15.8	Principal moments along X-Y (mm ⁴)	681305.5 along (1.0 0.0)	Principal moments along X-Y (mm ⁴)	237724.2 along (0.0 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 1819.0	Elastic Modulus - Zy (mm ²)	1 / x-max= 636.3	MEMBER : AW-28 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>804.7</td></tr> <tr><td>Perimeter (mm)</td><td>470.9</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-40.5 to 40.5</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-27.4 to 22.6</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>303565.2</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>230008.1</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-9.8</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>18.4</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>15.8</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>303565.2 along (1.0 0.0)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>230008.1 along (0.0 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 1179.3</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 5678.2</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	804.7	Perimeter (mm)	470.9	Bounding Box - X (mm)	-40.5 to 40.5	Bounding Box - Y (mm)	-27.4 to 22.6	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	303565.2	Moments of inertia - Y (mm ⁴)	230008.1	Product of inertia - XY (mm ⁴)	-9.8	Radius of gyration - X (mm)	18.4	Radius of gyration - Y (mm)	15.8	Principal moments along X-Y (mm ⁴)	303565.2 along (1.0 0.0)	Principal moments along X-Y (mm ⁴)	230008.1 along (0.0 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 1179.3	Elastic Modulus - Zy (mm ²)	1 / x-max= 5678.2	J853 CKHK15862 X85958 J859 CKHK16842 X86205 J859 CKHK16843 X86206 J859 CKHK16835 X86207
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	384.1																																																																																																																																			
Perimeter (mm)	272.9																																																																																																																																			
Bounding Box - X (mm)	-34.9 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)	167624.2																																																																																																																																			
Moments of inertia - Y (mm ⁴)	212692.7																																																																																																																																			
Product of inertia - XY (mm ⁴)	182219.9																																																																																																																																			
Radius of gyration - X (mm)	20.9																																																																																																																																			
Radius of gyration - Y (mm)	23.5																																																																																																																																			
Principal moments along X-Y (mm ⁴)	2662.0 along (0.7 0.3)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	376752.9 along (-0.7 0.7)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 4719.9																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 6067.3																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	916.4																																																																																																																																			
Perimeter (mm)	589.8																																																																																																																																			
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)	259842.4																																																																																																																																			
Moments of inertia - Y (mm ⁴)	216707.8																																																																																																																																			
Product of inertia - XY (mm ⁴)	-696.1																																																																																																																																			
Radius of gyration - X (mm)	16.8																																																																																																																																			
Radius of gyration - Y (mm)	14.0																																																																																																																																			
Principal moments along X-Y (mm ⁴)	74981.9 along (1.0 0.0)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	216808.3 along (0.0 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 636.3																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 15292.1																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	896.5																																																																																																																																			
Perimeter (mm)	551.6																																																																																																																																			
Bounding Box - X (mm)	-46.9 to 46.5																																																																																																																																			
Bounding Box - Y (mm)	-37.8 to 32.2																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	681305.5																																																																																																																																			
Moments of inertia - Y (mm ⁴)	237724.2																																																																																																																																			
Product of inertia - XY (mm ⁴)	19.7																																																																																																																																			
Radius of gyration - X (mm)	27.6																																																																																																																																			
Radius of gyration - Y (mm)	15.8																																																																																																																																			
Principal moments along X-Y (mm ⁴)	681305.5 along (1.0 0.0)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	237724.2 along (0.0 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 1819.0																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 636.3																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	804.7																																																																																																																																			
Perimeter (mm)	470.9																																																																																																																																			
Bounding Box - X (mm)	-40.5 to 40.5																																																																																																																																			
Bounding Box - Y (mm)	-27.4 to 22.6																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	303565.2																																																																																																																																			
Moments of inertia - Y (mm ⁴)	230008.1																																																																																																																																			
Product of inertia - XY (mm ⁴)	-9.8																																																																																																																																			
Radius of gyration - X (mm)	18.4																																																																																																																																			
Radius of gyration - Y (mm)	15.8																																																																																																																																			
Principal moments along X-Y (mm ⁴)	303565.2 along (1.0 0.0)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	230008.1 along (0.0 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 1179.3																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 5678.2																																																																																																																																			
MEMBER : AW-29 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>788.3</td></tr> <tr><td>Perimeter (mm)</td><td>468.8</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-24.9 to 25.1</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-40.9 to 40.1</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>223520.4</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>335661.1</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-6475.9</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>16.8</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>18.7</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>188243.3 along (1.0 0.3)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>349615.1 along (-0.3 0.9)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 4719.9</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 12192.0</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	788.3	Perimeter (mm)	468.8	Bounding Box - X (mm)	-24.9 to 25.1	Bounding Box - Y (mm)	-40.9 to 40.1	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	223520.4	Moments of inertia - Y (mm ⁴)	335661.1	Product of inertia - XY (mm ⁴)	-6475.9	Radius of gyration - X (mm)	16.8	Radius of gyration - Y (mm)	18.7	Principal moments along X-Y (mm ⁴)	188243.3 along (1.0 0.3)	Principal moments along X-Y (mm ⁴)	349615.1 along (-0.3 0.9)	Elastic Modulus - Zx (mm ²)	1 / y-max= 4719.9	Elastic Modulus - Zy (mm ²)	1 / x-max= 12192.0	MEMBER : AW-30 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>284.4</td></tr> <tr><td>Perimeter (mm)</td><td>276.1</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-25.1 to 25.9</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-18.0 to 33.0</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>93959.5</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>133616.1</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-2019.9</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>18.2</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>13.7</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>83930.5 along (1.0 0.0)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>32921.5 along (0.0 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 2436.3</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 1288.8</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	284.4	Perimeter (mm)	276.1	Bounding Box - X (mm)	-25.1 to 25.9	Bounding Box - Y (mm)	-18.0 to 33.0	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	93959.5	Moments of inertia - Y (mm ⁴)	133616.1	Product of inertia - XY (mm ⁴)	-2019.9	Radius of gyration - X (mm)	18.2	Radius of gyration - Y (mm)	13.7	Principal moments along X-Y (mm ⁴)	83930.5 along (1.0 0.0)	Principal moments along X-Y (mm ⁴)	32921.5 along (0.0 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 2436.3	Elastic Modulus - Zy (mm ²)	1 / x-max= 1288.8	MEMBER : AW-31 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>367.4</td></tr> <tr><td>Perimeter (mm)</td><td>276.1</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-25.1 to 33.2</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-22.2 to 27.8</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>161189.6</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>90356.1</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>-2307.8</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>20.9</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>15.7</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>83930.5 along (1.0 -0.3)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>62921.5 along (0.3 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 3206.2</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 2754.2</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	367.4	Perimeter (mm)	276.1	Bounding Box - X (mm)	-25.1 to 33.2	Bounding Box - Y (mm)	-22.2 to 27.8	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	161189.6	Moments of inertia - Y (mm ⁴)	90356.1	Product of inertia - XY (mm ⁴)	-2307.8	Radius of gyration - X (mm)	20.9	Radius of gyration - Y (mm)	15.7	Principal moments along X-Y (mm ⁴)	83930.5 along (1.0 -0.3)	Principal moments along X-Y (mm ⁴)	62921.5 along (0.3 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 3206.2	Elastic Modulus - Zy (mm ²)	1 / x-max= 2754.2	MEMBER : AW-32 GRADE : 6063-T6 FINISH : PVF2 3-COATING  REGION VALUES <table border="1"> <tr><th>MASS PROPERTIES (UNIT)</th><th>VALUES</th></tr> <tr><td>Area (mm²)</td><td>401.9</td></tr> <tr><td>Perimeter (mm)</td><td>372.5</td></tr> <tr><td>Bounding Box - X (mm)</td><td>-27.5 to 22.5</td></tr> <tr><td>Bounding Box - Y (mm)</td><td>-31.8 to 33.2</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>91223.3</td></tr> <tr><td>Moments of inertia - Y (mm⁴)</td><td>169193.3</td></tr> <tr><td>Product of inertia - XY (mm⁴)</td><td>22998.8</td></tr> <tr><td>Radius of gyration - X (mm)</td><td>15.1</td></tr> <tr><td>Radius of gyration - Y (mm)</td><td>13.5</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>84938.6 along (1.0 -0.3)</td></tr> <tr><td>Principal moments along X-Y (mm⁴)</td><td>179672.0 along (0.3 1.0)</td></tr> <tr><td>Elastic Modulus - Zx (mm²)</td><td>1 / y-max= 1179.3</td></tr> <tr><td>Elastic Modulus - Zy (mm²)</td><td>1 / x-max= 6149.7</td></tr> </table>	MASS PROPERTIES (UNIT)	VALUES	Area (mm ²)	401.9	Perimeter (mm)	372.5	Bounding Box - X (mm)	-27.5 to 22.5	Bounding Box - Y (mm)	-31.8 to 33.2	Centroid - X (mm)	0.0	Centroid - Y (mm)	0.0	Moments of inertia - X (mm ⁴)	91223.3	Moments of inertia - Y (mm ⁴)	169193.3	Product of inertia - XY (mm ⁴)	22998.8	Radius of gyration - X (mm)	15.1	Radius of gyration - Y (mm)	13.5	Principal moments along X-Y (mm ⁴)	84938.6 along (1.0 -0.3)	Principal moments along X-Y (mm ⁴)	179672.0 along (0.3 1.0)	Elastic Modulus - Zx (mm ²)	1 / y-max= 1179.3	Elastic Modulus - Zy (mm ²)	1 / x-max= 6149.7	J859 CKHK16836 X86208 J859 CKHK16837 X86209
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	788.3																																																																																																																																			
Perimeter (mm)	468.8																																																																																																																																			
Bounding Box - X (mm)	-24.9 to 25.1																																																																																																																																			
Bounding Box - Y (mm)	-40.9 to 40.1																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	223520.4																																																																																																																																			
Moments of inertia - Y (mm ⁴)	335661.1																																																																																																																																			
Product of inertia - XY (mm ⁴)	-6475.9																																																																																																																																			
Radius of gyration - X (mm)	16.8																																																																																																																																			
Radius of gyration - Y (mm)	18.7																																																																																																																																			
Principal moments along X-Y (mm ⁴)	188243.3 along (1.0 0.3)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	349615.1 along (-0.3 0.9)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 4719.9																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 12192.0																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	284.4																																																																																																																																			
Perimeter (mm)	276.1																																																																																																																																			
Bounding Box - X (mm)	-25.1 to 25.9																																																																																																																																			
Bounding Box - Y (mm)	-18.0 to 33.0																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	93959.5																																																																																																																																			
Moments of inertia - Y (mm ⁴)	133616.1																																																																																																																																			
Product of inertia - XY (mm ⁴)	-2019.9																																																																																																																																			
Radius of gyration - X (mm)	18.2																																																																																																																																			
Radius of gyration - Y (mm)	13.7																																																																																																																																			
Principal moments along X-Y (mm ⁴)	83930.5 along (1.0 0.0)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	32921.5 along (0.0 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 2436.3																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 1288.8																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	367.4																																																																																																																																			
Perimeter (mm)	276.1																																																																																																																																			
Bounding Box - X (mm)	-25.1 to 33.2																																																																																																																																			
Bounding Box - Y (mm)	-22.2 to 27.8																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	161189.6																																																																																																																																			
Moments of inertia - Y (mm ⁴)	90356.1																																																																																																																																			
Product of inertia - XY (mm ⁴)	-2307.8																																																																																																																																			
Radius of gyration - X (mm)	20.9																																																																																																																																			
Radius of gyration - Y (mm)	15.7																																																																																																																																			
Principal moments along X-Y (mm ⁴)	83930.5 along (1.0 -0.3)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	62921.5 along (0.3 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 3206.2																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 2754.2																																																																																																																																			
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																			
Area (mm ²)	401.9																																																																																																																																			
Perimeter (mm)	372.5																																																																																																																																			
Bounding Box - X (mm)	-27.5 to 22.5																																																																																																																																			
Bounding Box - Y (mm)	-31.8 to 33.2																																																																																																																																			
Centroid - X (mm)	0.0																																																																																																																																			
Centroid - Y (mm)	0.0																																																																																																																																			
Moments of inertia - X (mm ⁴)	91223.3																																																																																																																																			
Moments of inertia - Y (mm ⁴)	169193.3																																																																																																																																			
Product of inertia - XY (mm ⁴)	22998.8																																																																																																																																			
Radius of gyration - X (mm)	15.1																																																																																																																																			
Radius of gyration - Y (mm)	13.5																																																																																																																																			
Principal moments along X-Y (mm ⁴)	84938.6 along (1.0 -0.3)																																																																																																																																			
Principal moments along X-Y (mm ⁴)	179672.0 along (0.3 1.0)																																																																																																																																			
Elastic Modulus - Zx (mm ²)	1 / y-max= 1179.3																																																																																																																																			
Elastic Modulus - Zy (mm ²)	1 / x-max= 6149.7																																																																																																																																			

DELETE

DELETE

DELETE

NO.	DATE	REVISED	BY

JOB NO. : J-859

PROJECT : PROPOSED RESIDENTIAL / COMMERCIAL DEVELOPMENT AT NKIL NO.6551 KAI TAK AREA 4C, SITE 3 KAI TAK, KOWLOON

TITLE : DIE LIST FOR ALUM. WINDOW (TOWER 1 - TOWER 9)

DATE : 10-Nov-21 SCALE : 1:4 (A3)

DRAWN BY : IVAN CHECKED BY :


 MIDI ALUMINUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel:23489211-4 Fax:(852)27727666

DWG NO. : J859-SD-PW-0012 REV. : -

MEMBER : AW-33
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	572.8
Perimeter (mm)	472.8
Bounding Box - X (mm)	-55.2 to 44.8
Bounding Box - Y (mm)	-38.4 to 31.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	52793.2
Moments of Inertia - Y (mm ⁴)	39404.8
Product of Inertia - XY (mm ⁴)	-35421.5
Radius of gyration - X (mm)	30.4
Radius of gyration - Y (mm)	26.2
Principal moments along X-Y (mm ⁴)	53687.8 along (1.0 -0.2)
Principal moments along X-Y (mm ⁴)	36526.9 along (0.2 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 13731.3
Elastic Modulus - Zy (mm ³)	1 / y-max= 1143.4

J859 CKHK16838 X86210

MEMBER : AW-34
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	526.8
Perimeter (mm)	472.8
Bounding Box - X (mm)	-53.3 to 46.7
Bounding Box - Y (mm)	-27.6 to 22.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	49293.0
Moments of Inertia - Y (mm ⁴)	37025.2
Product of Inertia - XY (mm ⁴)	-27411.3
Radius of gyration - X (mm)	27.9
Radius of gyration - Y (mm)	26.5
Principal moments along X-Y (mm ⁴)	54687.8 along (1.0 0.3)
Principal moments along X-Y (mm ⁴)	31626.4 along (-0.3 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 9141.1
Elastic Modulus - Zy (mm ³)	1 / y-max= 4955.4

J859 CKHK16839 X86211

MEMBER : AW-35
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	624.8
Perimeter (mm)	543.7
Bounding Box - X (mm)	-37.6 to 32.4
Bounding Box - Y (mm)	-27.6 to 43.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	419294.1
Moments of Inertia - Y (mm ⁴)	557886.2
Product of Inertia - XY (mm ⁴)	-26133.7
Radius of gyration - X (mm)	29.9
Radius of gyration - Y (mm)	29.9
Principal moments along X-Y (mm ⁴)	486861.8 along (1.0 0.3)
Principal moments along X-Y (mm ⁴)	562665.9 along (-0.3 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7242.5
Elastic Modulus - Zy (mm ³)	1 / y-max= 14871.5

J859 CKHK16840 X86212

MEMBER : AW-36
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	578.8
Perimeter (mm)	543.7
Bounding Box - X (mm)	-27.1 to 22.9
Bounding Box - Y (mm)	-22.9 to 44.9
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	330448.1
Moments of Inertia - Y (mm ⁴)	262760.1
Product of Inertia - XY (mm ⁴)	-22085.7
Radius of gyration - X (mm)	26.0
Radius of gyration - Y (mm)	21.3
Principal moments along X-Y (mm ⁴)	348348.8 along (1.0 -0.3)
Principal moments along X-Y (mm ⁴)	259053.5 along (0.2 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7087.3
Elastic Modulus - Zy (mm ³)	1 / y-max= 9887.9

J859 CKHK16841 X86213

MEMBER : AW-37
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	644.4
Perimeter (mm)	527.7
Bounding Box - X (mm)	-46.3 to 33.7
Bounding Box - Y (mm)	-33.7 to 57.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	414135.0
Moments of Inertia - Y (mm ⁴)	582086.0
Product of Inertia - XY (mm ⁴)	-46926.0
Radius of gyration - X (mm)	26.3
Radius of gyration - Y (mm)	26.3
Principal moments along X-Y (mm ⁴)	412765.1 along (1.2 -0.1)
Principal moments along X-Y (mm ⁴)	585871.8 along (0.1 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7198.2
Elastic Modulus - Zy (mm ³)	1 / y-max= 11963.8

J859 CKHK17119 X86242

MEMBER : AW-38
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	608.6
Perimeter (mm)	527.7
Bounding Box - X (mm)	-36.1 to 23.9
Bounding Box - Y (mm)	-44.4 to 55.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	394577.9
Moments of Inertia - Y (mm ⁴)	582488.2
Product of Inertia - XY (mm ⁴)	-15045.5
Radius of gyration - X (mm)	25.7
Radius of gyration - Y (mm)	21.7
Principal moments along X-Y (mm ⁴)	392653.7 along (0.1 -1.0)
Principal moments along X-Y (mm ⁴)	586324.4 along (1.0 0.1)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7198.2
Elastic Modulus - Zy (mm ³)	1 / y-max= 11963.8

J859 CKHK17120 X86243

MEMBER : AW-39
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	608.6
Perimeter (mm)	541.7
Bounding Box - X (mm)	-33.2 to 36.8
Bounding Box - Y (mm)	-43.8 to 56.2
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	402534.6
Moments of Inertia - Y (mm ⁴)	581347.3
Product of Inertia - XY (mm ⁴)	-31523.5
Radius of gyration - X (mm)	25.7
Radius of gyration - Y (mm)	30.1
Principal moments along X-Y (mm ⁴)	317162.0 along (0.9 0.4)
Principal moments along X-Y (mm ⁴)	581518.8 along (-0.4 0.9)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7198.2
Elastic Modulus - Zy (mm ³)	1 / y-max= 14968.9

J859 CKHK17122 X86245

MEMBER : AW-40
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	534.1
Perimeter (mm)	510.3
Bounding Box - X (mm)	-33.1 to 36.9
Bounding Box - Y (mm)	-44.9 to 55.1
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	391377.1
Moments of Inertia - Y (mm ⁴)	529472.2
Product of Inertia - XY (mm ⁴)	-26555.4
Radius of gyration - X (mm)	26.1
Radius of gyration - Y (mm)	30.4
Principal moments along X-Y (mm ⁴)	367186.7 along (0.9 0.4)
Principal moments along X-Y (mm ⁴)	540652.7 along (-0.4 0.9)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7087.3
Elastic Modulus - Zy (mm ³)	1 / y-max= 14360.4

J859 CKHK16842 X86214

MEMBER : AW-41
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	106.8
Perimeter (mm)	164.1
Bounding Box - X (mm)	-11.3 to 11.3
Bounding Box - Y (mm)	-11.4 to 34.8
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	4468.3
Moments of Inertia - Y (mm ⁴)	7615.9
Product of Inertia - XY (mm ⁴)	0.0
Radius of gyration - X (mm)	6.4
Radius of gyration - Y (mm)	8.4
Principal moments along X-Y (mm ⁴)	4468.3 along (1.0 -0.2)
Principal moments along X-Y (mm ⁴)	7685.8 along (0.2 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 681.5
Elastic Modulus - Zy (mm ³)	1 / y-max= 681.5

J859 CKHK17121 X86244

MEMBER : AW-42
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	1482.0
Perimeter (mm)	657.7
Bounding Box - X (mm)	-31.0 to 31.0
Bounding Box - Y (mm)	-49.6 to 45.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	153378.3
Moments of Inertia - Y (mm ⁴)	576337.4
Product of Inertia - XY (mm ⁴)	0.0
Radius of gyration - X (mm)	32.2
Radius of gyration - Y (mm)	16.8
Principal moments along X-Y (mm ⁴)	153378.3 along (1.0 0.0)
Principal moments along X-Y (mm ⁴)	576337.4 along (0.0 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 3003.2
Elastic Modulus - Zy (mm ³)	1 / y-max= 18653.6

J856 CKHK16245 X86008

MEMBER : AW-43
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	624.8
Perimeter (mm)	543.7
Bounding Box - X (mm)	-37.6 to 32.4
Bounding Box - Y (mm)	-27.6 to 43.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	419294.1
Moments of Inertia - Y (mm ⁴)	557886.2
Product of Inertia - XY (mm ⁴)	-26133.7
Radius of gyration - X (mm)	29.9
Radius of gyration - Y (mm)	29.9
Principal moments along X-Y (mm ⁴)	486861.8 along (1.0 0.3)
Principal moments along X-Y (mm ⁴)	562665.9 along (-0.3 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7242.5
Elastic Modulus - Zy (mm ³)	1 / y-max= 14871.5

J859 CKHK16843 X86215

MEMBER : AW-44
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	578.8
Perimeter (mm)	543.7
Bounding Box - X (mm)	-27.1 to 22.9
Bounding Box - Y (mm)	-22.9 to 44.9
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	330448.1
Moments of Inertia - Y (mm ⁴)	262760.1
Product of Inertia - XY (mm ⁴)	-22085.7
Radius of gyration - X (mm)	26.0
Radius of gyration - Y (mm)	21.3
Principal moments along X-Y (mm ⁴)	348348.8 along (1.0 -0.3)
Principal moments along X-Y (mm ⁴)	259053.5 along (0.2 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7087.3
Elastic Modulus - Zy (mm ³)	1 / y-max= 9887.9

J859 CKHK16844 X86216

MEMBER : AW-29
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	572.8
Perimeter (mm)	472.8
Bounding Box - X (mm)	-55.2 to 44.8
Bounding Box - Y (mm)	-38.4 to 31.6
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	52793.2
Moments of Inertia - Y (mm ⁴)	39404.8
Product of Inertia - XY (mm ⁴)	-35421.5
Radius of gyration - X (mm)	30.4
Radius of gyration - Y (mm)	26.2
Principal moments along X-Y (mm ⁴)	53687.8 along (1.0 -0.2)
Principal moments along X-Y (mm ⁴)	36526.9 along (0.2 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 13731.3
Elastic Modulus - Zy (mm ³)	1 / y-max= 1143.4

J859 CKHK16838 X86210

MEMBER : AW-30
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	526.8
Perimeter (mm)	472.8
Bounding Box - X (mm)	-53.3 to 46.7
Bounding Box - Y (mm)	-27.6 to 22.4
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	49293.0
Moments of Inertia - Y (mm ⁴)	37025.2
Product of Inertia - XY (mm ⁴)	-27411.3
Radius of gyration - X (mm)	27.9
Radius of gyration - Y (mm)	26.5
Principal moments along X-Y (mm ⁴)	54687.8 along (1.0 0.3)
Principal moments along X-Y (mm ⁴)	31626.4 along (-0.3 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 9141.1
Elastic Modulus - Zy (mm ³)	1 / y-max= 4955.4

J859 CKHK16839 X86211

MEMBER : AW-31
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	624.8
Perimeter (mm)	543.7
Bounding Box - X (mm)	-37.6 to 32.4
Bounding Box - Y (mm)	-27.6 to 43.3
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	419294.1
Moments of Inertia - Y (mm ⁴)	557886.2
Product of Inertia - XY (mm ⁴)	-26133.7
Radius of gyration - X (mm)	29.9
Radius of gyration - Y (mm)	29.9
Principal moments along X-Y (mm ⁴)	486861.8 along (1.0 0.3)
Principal moments along X-Y (mm ⁴)	562665.9 along (-0.3 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7242.5
Elastic Modulus - Zy (mm ³)	1 / y-max= 14871.5

J859 CKHK16840 X86212

MEMBER : AW-32
GRADE : 6063-T6
FINISH : PVF2 3-COATING

PROPERTIES

REGIONS	VALUES
Area (mm ²)	578.8
Perimeter (mm)	543.7
Bounding Box - X (mm)	-27.1 to 22.9
Bounding Box - Y (mm)	-22.9 to 44.9
Centroid - X (mm)	0.0
Centroid - Y (mm)	0.0
Moments of Inertia - X (mm ⁴)	330448.1
Moments of Inertia - Y (mm ⁴)	262760.1
Product of Inertia - XY (mm ⁴)	-22085.7
Radius of gyration - X (mm)	26.0
Radius of gyration - Y (mm)	21.3
Principal moments along X-Y (mm ⁴)	348348.8 along (1.0 -0.3)
Principal moments along X-Y (mm ⁴)	259053.5 along (0.2 1.0)
Elastic Modulus - Zx (mm ³)	1 / y-max= 7087.3
Elastic Modulus - Zy (mm ³)	1 / y-max= 9887.9

J859 CKHK16841 X86213

B.D. REF :
.....

ARCHITECT :
WT WONG TUNG PARTNERS LIMITED
ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SUN HUNG KAI
ARCHITECTS AND ENGINEERS LTD.
SUN HUNG KAI CENTRE, WANCHAI, HONGKONG
TEL. 28278111 FAX. 28272884

FAÇADE CONSULTANT:
ALPHA CONSULTING LIMITED
Steel Structure & Façade Specialist

MAIN CONTRACTOR :
Sanfield Engineering Construction Ltd.

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

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

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

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

NO.	DATE	REVISED	BY

JOB NO. : J-859
PROJECT : PROPOSED RESIDENTIAL / COMMERCIAL DEVELOPMENT AT NKIL NO.6551 KAI TAK AREA 4C, SITE 3 KAI TAK, KOWLOON
TITLE : DIE LIST FOR ALUM. WINDOW (TOWER 1 - TOWER 9)

DATE : 10-Nov-21 SCALE : 1:4 (A3)
DRAWN BY : IVAN CHECKED BY :

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. : J859-SD-PW-001.3 REV. : -