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- 7386 /24	**修改版本:**	-
	HK- 0363 /24		
工程編號:	J 857	**工程名稱:**	啟德6552
收件人:	生統	**發件人:**	Nero
工程項目:	提供J857工程項目鋁料料頭	**日期:**	04/03/2024

☐ 原合約工程包	☐ 原合約工程加 / 減賬 QT-	☐ 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:**

☐ 初步鋁料 B.M.	☐ 加工拆圖，然後生產	☐ 尺寸表
☐ 正式鋁料 B.M.	☐ 技術上資料／指示	☐ 報價
☐ 配件 B.M.	☐ 樣辦或貨品說明書	☐ 分判合約
☐ 其他:		

內容:

煩請工廠提供J857工程以下項目鋁料料頭(長度: 30mm)
(包括: 預製窗、後裝窗、FD門、趟門、百葉、幕牆單元件、欄河)
請工廠盡量提供，並送香港寫字樓。

另附上附件資料供廠參考。

完成上列要求日期: 13/03/2024

國內

☐ 生產技術總監	☐ 連附件	☐ 技術部	☐ 連附件	☐ 生產部	☐ 連附件
☐ 採購部	☐ 連附件	☑ 生產統籌部	☑ 連附件	☐ 報關組	☐ 連附件
☐ 質檢部	☐ 連附件	☐ 會計部	☐ 連附件	☐ 機械設計部	☐ 連附件
☐ 香港辦	☐ 連附件	☐ 其他:			

香港

☐ 行政部	☐ 連附件	☐ 會計部	☐ 連附件	☐ 統籌部	☐ 連附件	☐ 工程部	☐ 連附件
☐ 採購部	☐ 連附件	☐ QS部	☐ 連附件	☐ 地盤管理	☐ 連附件	☐ 維修部	☐ 連附件

*發件人簽署：	*組別成員批核簽署：
傳遞編號： Mr 0363 /24	項目經理簽署： 4/3/24

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

Our ref. MC/41030/857

9th February 2022

E Man Construction Co. Ltd.
29/F, AIA Tower, 183 Electric Road,
North Point, Hong Kong

By Email & Hand

Attn.: Mr. Adam Wong

Dear Sir,

Re: Design, Supply & Installation of Curtain Wall, Windows, Cladding and Glass Door for Residential Towers for Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Material Submission of Aluminium Extrusion Sample for Precast Window

Regarding the captioned project, we would like to submit 1 set of Aluminium Extrusion (Xingfa) sample for Precast Window for your comment and approval.

Remark:
1) 1 set of Aluminium Extrusion (Xingfa) sample will be delivered to Mr. Dante Lai directly.
(九龍城區承豐道啟德 6552 地盤 (維港一號對面)，黎旨軒先生 收，TEL：9866 7084)
2) The drawings of Section Properties for Precast Aluminium Window are attached.
(Drawing No: J857-PW-0004, J857-PW-0005)

Should you have any query, please don't hesitate to liaise with us for information.

Thank you for your kind attention.

Yours faithfully,
MIDI ALUMINIUM FABRICATOR LTD.

Francis Mau
Managing Director

Encl - 4 page(s)

cc. E Man - Mr. Daniel Chan / Mr. Dante Lai (w/e) (Email Only)

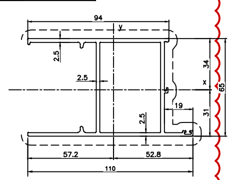
FM/MT/HWS/YC/yl

九龍荼果嶺道610號生利工業中心1樓6-8號
Units 6-8, 1st Floor, Sunray Industrial Centre, 610 Cha Kwo Ling Road, Kln.
TEL. (電話) : 2348 9211 FAX. (傳真) : 2772 7666 E-mail Address (電郵) : midi@midiltd.com.hk.

ISO 9001 : 2015
Certificate No.: CC 1795

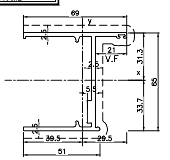
PROPERTIES | PROPERTIES | PROPERTIES | PROPERTIES | PROPERTIES

MODEL NO.: A1
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



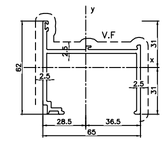
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	832.9094
Perimeter (mm) :	677.2994
Bounding Box - X (mm):	-57.1904 to 52.8096
Bounding Box - Y (mm):	-31.0396 to 33.9604
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	600301.6549
Moments of inertia - Y (mm^4) :	670737.9595
Product of inertia - XY (mm^4) :	60892.4309
Radii of gyration - X (mm) :	26.8464
Radii of gyration - Y (mm) :	28.3777
Principal moments along X-Y (mm^4) :	565349.3760 along [0.8666 -0.4991]
Principal moments along Y-X (mm^4) :	705690.2385 along [0.4991 0.8666]
Elastic Modulus - Zx (mm^3):	I / y-max= 17676.5031
Elastic Modulus - Zy (mm^3):	J / x-max= 11728.1575

MODEL NO.: A2
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



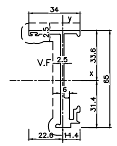
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	514.1
Perimeter (mm) :	393.1
Bounding Box - X (mm):	-36.6 to 32.4
Bounding Box - Y (mm):	-33.8 to 31.2
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm^4) :	371303.8
Moments of inertia - Y (mm^4) :	134092.8
Product of inertia - XY (mm^4) :	25062.1
Radii of gyration - X (mm) :	26.9
Radii of gyration - Y (mm) :	16.2
Principal moments along X-Y (mm^4) :	131473.8 along [0.1 1.0]
Principal moments along Y-X (mm^4) :	373922.8 along [-1.0 0.1]
Elastic Modulus - Zx (mm^3):	I / y-max= 11001.4
Elastic Modulus - Zy (mm^3):	J / x-max= 3661.6

MODEL NO.: A3
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



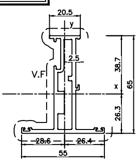
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	436.9452
Perimeter (mm) :	384.9001
Bounding Box - X (mm):	-28.4798 to 36.5202
Bounding Box - Y (mm):	-31.0373 to 30.9627
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	114067.7722
Moments of inertia - Y (mm^4) :	299934.9716
Product of inertia - XY (mm^4) :	-13245.5745
Radii of gyration - X (mm) :	16.1573
Radii of gyration - Y (mm) :	26.1999
Principal moments along X-Y (mm^4) :	113128.5899 along [0.9975 -0.0707]
Principal moments along Y-X (mm^4) :	300874.1539 along [0.0707 0.9975]
Elastic Modulus - Zx (mm^3):	I / y-max= 3675.1778
Elastic Modulus - Zy (mm^3):	J / x-max= 8212.8409

MODEL NO.: A4
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



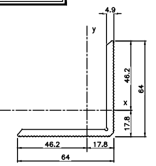
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	354.9265
Perimeter (mm) :	254.6950
Bounding Box - X (mm):	-22.6121 to 11.3879
Bounding Box - Y (mm):	-31.4019 to 33.5981
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	201199.4445
Moments of inertia - Y (mm^4) :	14207.2813
Product of inertia - XY (mm^4) :	-24777.4007
Radii of gyration - X (mm) :	23.8092
Radii of gyration - Y (mm) :	6.3268
Principal moments along X-Y (mm^4) :	10979.8556 along [0.1292 -0.9916]
Principal moments along Y-X (mm^4) :	204426.8702 along [0.9916 0.1292]
Elastic Modulus - Zx (mm^3):	I / y-max= 5988.4259
Elastic Modulus - Zy (mm^3):	J / x-max= 628.3041

MODEL NO.:A5
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



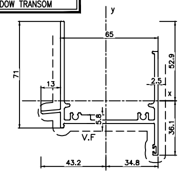
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	549.5192
Perimeter (mm) :	444.4979
Bounding Box - X (mm):	-28.5860 to 26.4140
Bounding Box - Y (mm):	-26.3221 to 38.6779
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	248401.1638
Moments of inertia - Y (mm^4) :	45429.1443
Product of inertia - XY (mm^4) :	10442.3289
Radii of gyration - X (mm) :	21.2611
Radii of gyration - Y (mm) :	9.0923
Principal moments along X-Y (mm^4) :	44893.3309 along [0.0512 0.9987]
Principal moments along Y-X (mm^4) :	248936.9772 along [-0.9987 0.0512]
Elastic Modulus - Zx (mm^3):	I / y-max= 6422.3030
Elastic Modulus - Zy (mm^3):	J / x-max= 1589.2112

MODEL NO.:A26
GRADE 6063-T6
FINISH: MILL
ANGLE



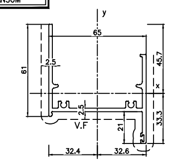
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	556.7909
Perimeter (mm) :	266.5827
Bounding Box - X (mm):	-46.2267 to 17.8002
Bounding Box - Y (mm):	-17.8005 to 46.2264
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	213892.2434
Moments of inertia - Y (mm^4) :	213886.9037
Product of inertia - XY (mm^4) :	129906.7180
Radii of gyration - X (mm) :	19.5998
Radii of gyration - Y (mm) :	19.5995
Principal moments along X-Y (mm^4) :	83982.8556 along [0.7071 0.7071]
Principal moments along Y-X (mm^4) :	343796.2915 along [-0.7071 0.7071]
Elastic Modulus - Zx (mm^3):	I / y-max= 4627.0557
Elastic Modulus - Zy (mm^3):	J / x-max= 4626.9089

MODEL NO.:A7
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



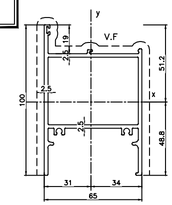
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	600.1136
Perimeter (mm) :	482.8432
Bounding Box - X (mm):	-43.1791 to 34.8227
Bounding Box - Y (mm):	-36.0871 to 52.9129
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	235526.4395
Moments of inertia - Y (mm^4) :	460613.3299
Product of inertia - XY (mm^4) :	-92284.6515
Radii of gyration - X (mm) :	19.8108
Radii of gyration - Y (mm) :	27.7046
Principal moments along X-Y (mm^4) :	202527.8496 along [0.9416 -0.3367]
Principal moments along Y-X (mm^4) :	493611.9197 along [0.3367 0.9416]
Elastic Modulus - Zx (mm^3):	I / y-max= 4451.2102
Elastic Modulus - Zy (mm^3):	J / x-max= 10667.5119

MODEL NO.: A8
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



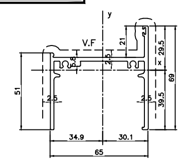
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	503.4702
Perimeter (mm) :	418.9117
Bounding Box - X (mm):	-32.3582 to 32.6418
Bounding Box - Y (mm):	-33.2872 to 45.7128
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	149183.0188
Moments of inertia - Y (mm^4) :	370695.3988
Product of inertia - XY (mm^4) :	-88320.0784
Radii of gyration - X (mm) :	17.2136
Radii of gyration - Y (mm) :	27.1345
Principal moments along X-Y (mm^4) :	118279.8843 along [0.9439 -0.3303]
Principal moments along Y-X (mm^4) :	401598.5532 along [0.3303 0.9439]
Elastic Modulus - Zx (mm^3):	I / y-max= 3263.4851
Elastic Modulus - Zy (mm^3):	J / x-max= 11356.4672

MODEL NO.: A9
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



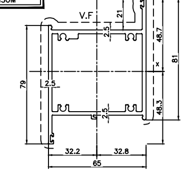
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	819.9524
Perimeter (mm) :	669.0766
Bounding Box - X (mm):	-30.9837 to 34.0163
Bounding Box - Y (mm):	-48.7917 to 51.2083
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	565535.5060
Moments of inertia - Y (mm^4) :	571230.6479
Product of inertia - XY (mm^4) :	-60380.0561
Radii of gyration - X (mm) :	26.2625
Radii of gyration - Y (mm) :	26.3944
Principal moments along X-Y (mm^4) :	507935.9113 along [0.7236 -0.6903]
Principal moments along Y-X (mm^4) :	628830.2426 along [0.6903 0.7236]
Elastic Modulus - Zx (mm^3):	I / y-max= 11043.8153
Elastic Modulus - Zy (mm^3):	J / x-max= 16792.8330

MODEL NO.:A10
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



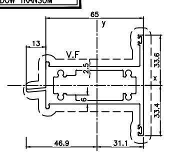
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	526.2664
Perimeter (mm) :	418.6250
Bounding Box - X (mm):	-34.7718 to 30.2282
Bounding Box - Y (mm):	-36.7262 to 32.2738
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	134390.8653
Moments of inertia - Y (mm^4) :	374638.1757
Product of inertia - XY (mm^4) :	29172.3338
Radii of gyration - X (mm) :	15.9802
Radii of gyration - Y (mm) :	26.6811
Principal moments along X-Y (mm^4) :	130899.3208 along [0.9929 0.1188]
Principal moments along Y-X (mm^4) :	378129.7202 along [-0.1188 0.9929]
Elastic Modulus - Zx (mm^3):	I / y-max= 3659.2664
Elastic Modulus - Zy (mm^3):	J / x-max= 10774.2039

MODEL NO.:A11
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



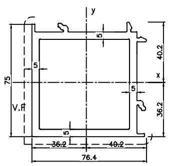
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	794.0991
Perimeter (mm) :	648.0083
Bounding Box - X (mm):	-32.2307 to 32.7693
Bounding Box - Y (mm):	-48.2938 to 48.7062
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	519637.1586
Moments of inertia - Y (mm^4) :	518803.4788
Product of inertia - XY (mm^4) :	98878.8564
Radii of gyration - X (mm) :	25.5807
Radii of gyration - Y (mm) :	25.5602
Principal moments along X-Y (mm^4) :	420340.5837 along [0.7056 0.7086]
Principal moments along Y-X (mm^4) :	618100.0537 along [-0.7086 0.7056]
Elastic Modulus - Zx (mm^3):	I / y-max= 10668.8190
Elastic Modulus - Zy (mm^3):	J / x-max= 15832.0105

MODEL NO.: A12
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



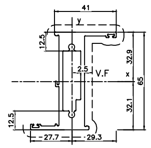
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	809.0664
Perimeter (mm) :	495.9388
Bounding Box - X (mm):	-46.9056 to 31.0983
Bounding Box - Y (mm):	-33.4029 to 33.5971
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	118929.5800
Moments of inertia - Y (mm^4) :	512684.5915
Product of inertia - XY (mm^4) :	3196.2352
Radii of gyration - X (mm) :	12.1242
Radii of gyration - Y (mm) :	25.1729
Principal moments along X-Y (mm^4) :	118903.6368 along [1.0000 0.0081]
Principal moments along Y-X (mm^4) :	512710.5346 along [-0.0081 1.0000]
Elastic Modulus - Zx (mm^3):	I / y-max= 3539.8735
Elastic Modulus - Zy (mm^3):	J / x-max= 10930.1471

MODEL NO.: A13
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



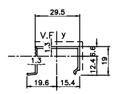
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	1398.5989
Perimeter (mm) :	591.9072
Bounding Box - X (mm):	-36.1916 to 40.2084
Bounding Box - Y (mm):	-36.1922 to 40.2078
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	1019535.0696
Moments of inertia - Y (mm^4) :	1019515.7176
Product of inertia - XY (mm^4) :	-16192.4093
Radii of gyration - X (mm) :	26.9994
Radii of gyration - Y (mm) :	26.9992
Principal moments along X-Y (mm^4) :	1003332.9814 along [0.7069 -0.7073]
Principal moments along Y-X (mm^4) :	1035717.8057 along [0.7073 0.7069]
Elastic Modulus - Zx (mm^3):	I / y-max= 25356.6776
Elastic Modulus - Zy (mm^3):	J / x-max= 25355.7963

MODEL NO.:A14
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



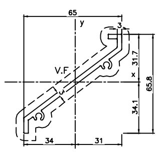
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	740.3045
Perimeter (mm) :	401.5934
Bounding Box - X (mm):	-27.7452 to 29.2548
Bounding Box - Y (mm):	-32.1007 to 32.8993
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	428187.6273
Moments of inertia - Y (mm^4) :	60685.3597
Product of inertia - XY (mm^4) :	52029.4024
Radii of gyration - X (mm) :	24.0498
Radii of gyration - Y (mm) :	9.0539
Principal moments along X-Y (mm^4) :	53461.2651 along [0.1375 0.9905]
Principal moments along Y-X (mm^4) :	435411.7219 along [-0.9905 0.1375]
Elastic Modulus - Zx (mm^3):	I / y-max= 13015.1076
Elastic Modulus - Zy (mm^3):	J / x-max= 2074.3760

MODEL NO.:A15
GRADE 6063-T5
FINISH: PVF2-3COATING (A15)
ALUM. GLAZING BEAD



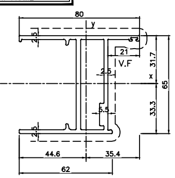
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	88.0837
Perimeter (mm) :	143.4548
Bounding Box - X (mm):	-19.6184 to 15.3816
Bounding Box - Y (mm):	-12.4205 to 6.5795
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	3749.4999
Moments of inertia - Y (mm^4) :	12939.2244
Product of inertia - XY (mm^4) :	1053.1706
Radii of gyration - X (mm) :	6.5244
Radii of gyration - Y (mm) :	12.1201
Principal moments along X-Y (mm^4) :	3630.3482 along [0.9937 0.1124]
Principal moments along Y-X (mm^4) :	13058.3761 along [-0.1124 0.9937]
Elastic Modulus - Zx (mm^3):	I / y-max= 301.8788
Elastic Modulus - Zy (mm^3):	J / x-max= 659.5446

MODEL NO.:A16
GRADE 6063-T6
FINISH: PVF2-3COATING (A16)
ALUM. LOUVER



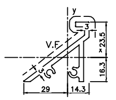
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	340.7780
Perimeter (mm) :	244.3922
Bounding Box - X (mm):	-34.0279 to 30.9721
Bounding Box - Y (mm):	-34.0621 to 31.6952
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	115723.1598
Moments of inertia - Y (mm^4) :	158022.1313
Product of inertia - XY (mm^4) :	132765.9402
Radii of gyration - X (mm) :	18.4278
Radii of gyration - Y (mm) :	21.5339
Principal moments along X-Y (mm^4) :	2432.7124 along [0.7607 0.6491]
Principal moments along Y-X (mm^4) :	271312.5787 along [-0.6491 0.7607]
Elastic Modulus - Zx (mm^3):	I / y-max= 3397.4161
Elastic Modulus - Zy (mm^3):	J / x-max= 4843.9034

MODEL NO.:A17
GRADE 6063-T6
FINISH: PVF2-3COATING (A17)
ALUM. WINDOW FRAME



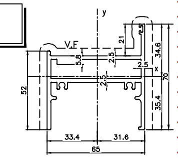
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	748.7
Perimeter (mm) :	551.3
Bounding Box - X (mm):	-42.2 to 37.8
Bounding Box - Y (mm):	-33.3 to 31.7
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm^4) :	478989.3
Moments of inertia - Y (mm^4) :	228298.2
Product of inertia - XY (mm^4) :	27776.5
Radii of gyration - X (mm) :	25.3
Radii of gyration - Y (mm) :	17.5
Principal moments along X-Y (mm^4) :	225257.4 along [0.1 1.0]
Principal moments along Y-X (mm^4) :	482030.0 along [-1.0 0.1]
Elastic Modulus - Zx (mm^3):	I / y-max= 14365.1
Elastic Modulus - Zy (mm^3):	J / x-max= 5407.7

MODEL NO.:
GRADE 6063-T6
FINISH: PVF2-3COATING (A18)
ALUM. WINDOW TRANSOM



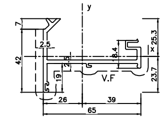
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	321.7328
Perimeter (mm) :	227.5289
Bounding Box - X (mm):	-28.9744 to 14.3268
Bounding Box - Y (mm):	-16.2784 to 23.4790
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	40906.3128
Moments of inertia - Y (mm^4) :	44495.5595
Product of inertia - XY (mm^4) :	25449.4038
Radii of gyration - X (mm) :	11.2758
Radii of gyration - Y (mm) :	11.7601
Principal moments along X-Y (mm^4) :	17188.3348 along [0.7316 0.6818]
Principal moments along Y-X (mm^4) :	68213.5374 along [-0.6818 0.7316]
Elastic Modulus - Zx (mm^3):	I / y-max= 1742.2540
Elastic Modulus - Zy (mm^3):	J / x-max= 1535.6834

MODEL NO.:A19
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



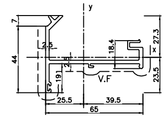
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	702.8985
Perimeter (mm) :	542.3126
Bounding Box - X (mm):	-33.4169 to 31.5831
Bounding Box - Y (mm):	-35.3606 to 34.6394
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	147867.3038
Moments of inertia - Y (mm^4) :	437140.5492
Product of inertia - XY (mm^4) :	25497.5195
Radii of gyration - X (mm) :	14.5041
Radii of gyration - Y (mm) :	24.9381
Principal moments along X-Y (mm^4) :	145637.0611 along [0.9962 0.0871]
Principal moments along Y-X (mm^4) :	439370.7918 along [-0.0871 0.9962]
Elastic Modulus - Zx (mm^3):	I / y-max= 4181.7006
Elastic Modulus - Zy (mm^3):	J / x-max= 13081.4157

MODEL NO.:A20
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



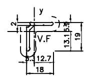
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	342.2438
Perimeter (mm) :	321.6410
Bounding Box - X (mm):	-26.0230 to 38.9770
Bounding Box - Y (mm):	-23.6923 to 25.3077
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	33972.2089
Moments of inertia - Y (mm^4) :	198643.1063
Product of inertia - XY (mm^4) :	-4205.3535
Radii of gyration - X (mm) :	9.9631
Radii of gyration - Y (mm) :	24.0918
Principal moments along X-Y (mm^4) :	33864.8828 along [0.9997 -0.0255]
Principal moments along Y-X (mm^4) :	198750.4324 along [0.0255 0.9997]
Elastic Modulus - Zx (mm^3):	I / y-max= 1342.3662
Elastic Modulus - Zy (mm^3):	J / x-max= 5096.4221

MODEL NO.:A21
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



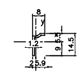
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	337.6438
Perimeter (mm) :	317.6410
Bounding Box - X (mm):	-25.5077 to 39.4923
Bounding Box - Y (mm):	-23.4661 to 25.5339
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	33122.5305
Moments of inertia - Y (mm^4) :	191969.3583
Product of inertia - XY (mm^4) :	-6855.1863
Radii of gyration - X (mm) :	9.9045
Radii of gyration - Y (mm) :	23.8444
Principal moments along X-Y (mm^4) :	32827.2374 along [0.9991 -0.0430]
Principal moments along Y-X (mm^4) :	192264.6515 along [0.0430 0.9991]
Elastic Modulus - Zx (mm^3):	I / y-max= 1297.1965
Elastic Modulus - Zy (mm^3):	J / x-max= 4860.9287

MODEL NO.:A22
GRADE 6063-T5
FINISH: PVF2-3COATING
ALUM. WINDOW ANGLE



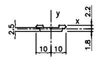
MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	68.4872
Perimeter (mm) :	70.6043
Bounding Box - X (mm):	-5.2559 to 12.7443
Bounding Box - Y (mm):	-13.0538 to 5.9462
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	2363.7508
Moments of inertia - Y (mm^4) :	1945.1696
Product of inertia - XY (mm^4) :	1408.7871
Radii of gyration - X (mm) :	5.8748
Radii of gyration - Y (mm) :	5.3293
Principal moments along X-Y (mm^4) :	730.2119 along [0.6531 0.7573]
Principal moments along Y-X (mm^4) :	3578.7087 along [-0.7573 0.6531]
Elastic Modulus - Zx (mm^3):	I / y-max= 181.0772
Elastic Modulus - Zy (mm^3):	J / x-max= 152.6303

MODEL NO.:A23
GRADE 6063-T5
FINISH: MILL
ALUM. WINDOW ANGLE



MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	24.6251
Perimeter (mm) :	42.7355
Bounding Box - X (mm):	-2.0555 to 5.9445
Bounding Box - Y (mm):	-8.9596 to 5.5404
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	482.2178
Moments of inertia - Y (mm^4) :	123.8644
Product of inertia - XY (mm^4) :	162.5326
Radii of gyration - X (mm) :	4.4252
Radii of gyration - Y (mm) :	2.2428
Principal moments along X-Y (mm^4) :	61.1296 along [0.3601 0.9329]
Principal moments along Y-X (mm^4) :	544.9525 along [-0.9329 0.3601]
Elastic Modulus - Zx (mm^3):	I / y-max= 53.8214
Elastic Modulus - Zy (mm^3):	J / x-max= 20.8367

MODEL NO.:A24
GRADE 6063-T5
FINISH: MILL
ALUM. BAR



MASS PROPERTIES (UNIT)	VALUES
Area (mm^2) :	52.1507
Perimeter (mm) :	48.3805
Bounding Box - X (mm):	-10.0000 to 10.0000
Bounding Box - Y (mm):	-1.7922 to 2.2078
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm^4) :	60.3780
Moments of inertia - Y (mm^4) :	1602.0296
Product of inertia - XY (mm^4) :	0.0000
Radii of gyration - X (mm) :	1.0760
Radii of gyration - Y (mm) :	5.5425
Principal moments along X-Y (mm^4) :	60.3780 along [1.0000 0.0000]
Principal moments along Y-X (mm^4) :	1602.0296 along [0.0000 1.0000]
Elastic Modulus - Zx (mm^3):	I / y-max= 27.3477
Elastic Modulus - Zy (mm^3):	J / x-max= 160.2030

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. /R -- Reversed Detail

X1 / X001 — DETAIL MARK NO. / REFER SHEET NO.

V.F — — — — — —

NO.	DATE	REVISED	BY
C	29.10.2021	BY ARCHITECT COMMENT	AN
B	22.10.2021	BY ARCHITECT COMMENT	AN
A	04.10.2021	BY ARCHITECT COMMENT	AN
-	30.08.2021	BY ARCHITECT COMMENT	AN

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
CMA C M WONG & ASSOCIATES LTD

FACADE CONSULTANT :
Inhabit Inhabit Group Hong Kong
http://www.inhabitgroup.com

MAIN CONTRACTOR :
裕民建築有限公司

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

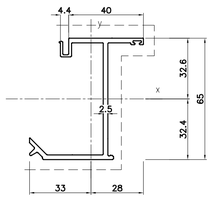
PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES FOR PRECAST ALUM. WINDOW

JOB NO. : J-857	
DRAWN BY : Asing	DATE : 2021-08-30
CHKD BY :	SCALE A1: A3: 1:3
DWG. NO. : J857-PW-0004	REV. : C

PROPERTIES

MODEL NO.: A25
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	401.9426
Perimeter (mm) :	356.9526
Bounding Box - X (mm):	-32.9628 to 28.0372
Bounding Box - Y (mm):	-32.4260 to 32.5740
Centroid - X (mm) :	0.0000
Centroid - Y (mm) :	0.0000
Moments of inertia - X (mm⁴) :	275207.7591
Moments of inertia - Y (mm⁴) :	77460.4231
Product of inertia - XY (mm⁴) :	-62252.0058
Radii of gyration - X (mm) :	26.1667
Radii of gyration - Y (mm) :	13.8822
Principal moments along X-Y (mm⁴) :	293172.9308 along [0.9608 -0.2773]
Principal moments along Y-X (mm⁴) :	59495.2514 along [0.2773 0.9608]
Elastic Modulus - Zx (mm³):	I / y-max= 8448.7052
Elastic Modulus - Zy (mm³):	J / x-max= 2349.9359

B.D. REF :

F.S.D. REF :

Note :

1. All dimensions are in mm.
2. All elevations are viewed from outside.
3. All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :

1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. (/R) -- Reversed Detail

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

V.F

NO.	DATE	REVISED	BY
-	22.10.2021	BY ARCHITECT COMMENT	AN

CLIENT :

MARBLE EDGE INVESTMENT LTD.

ARCHITECT :

RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :

CMA C M WONG & ASSOCIATES LTD
TEL: (852) 2522 1068
E-mail:

FACADE CONSULTANT :

Inhabit Inhabit Group Hong Kong
http://www.inhabitgroup.com

MAIN CONTRACTOR :

裕民建築有限公司

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

PROJECT :

PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :

SECTION PROPERTIES FOR PRECAST ALUM. WINDOW

JOB NO. : J-857

DRAWN BY : Asing | DATE : 22/10/2021

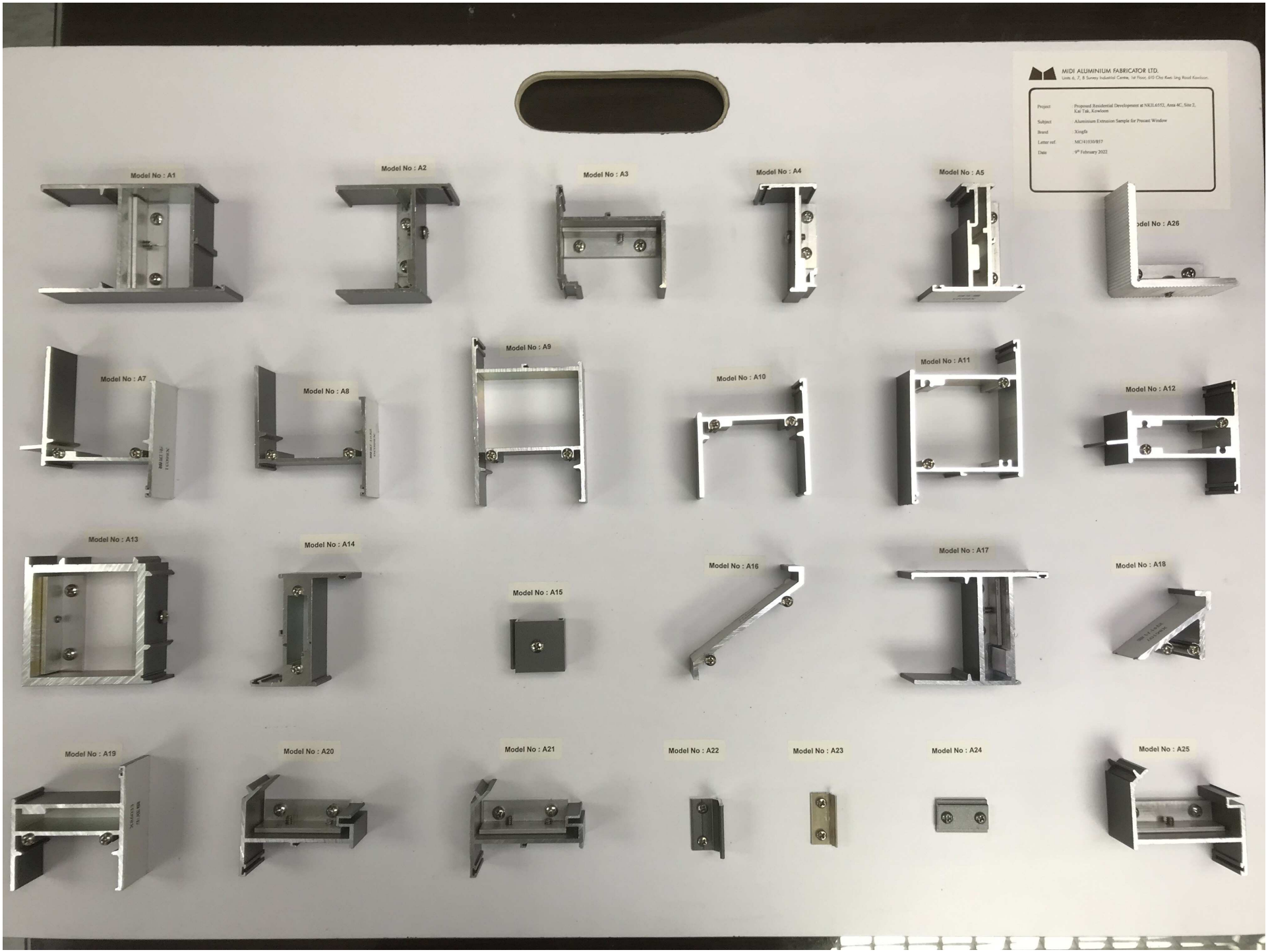
CHKD BY : | SCALE A1: A3: 1:3

DWG. NO. : **J857-PW-0005** | REV. : -

MIDI ALUMINIUM FABRICATOR LTD.

Units 6, 7, 8 Sunray Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon.

Project	: Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject	: Aluminium Extrusion Sample for Precast Window
Brand	: Xingfa
Letter ref.	: MC/41030/857
Date	: 9th February 2022


MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunray Industrial Centre, 1st Floor, 6/G Cha Kwo Ling Road Kowloon.
Project : Proposed Residential Development at NKIL 6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject : Aluminium Extrusion Sample for Procast Window
Brand : Xingfa
Letter ref. : MC/41030/857
Date : 9th February 2022
Model No : A1
Model No : A2
Model No : A3
Model No : A4
Model No : A5
Model No : A26
Model No : A7
Model No : A8
Model No : A9
Model No : A10
Model No : A11
Model No : A12
Model No : A13
Model No : A14
Model No : A15
Model No : A16
Model No : A17
Model No : A18
Model No : A19
Model No : A20
Model No : A21
Model No : A22
Model No : A23
Model No : A24
Model No : A25

美 特 鋁 質 有 限 公 司
MIDI ALUMINIUM FABRICATOR LTD.

Our ref. MC/41164/857

31st March 2022

E Man Construction Co. Ltd.
29/F, AIA Tower, 183 Electric Road,
North Point, Hong Kong

By Email & Hand

Attn.: Mr. Adam Wong

Dear Sir,

Re: Design, Supply & Installation of Curtain Wall, Windows, Cladding and Glass Door for Residential Towers for Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Material Submission of Aluminium Extrusion Sample for Curtain Wall

Regarding the captioned project, we would like to submit 1 set of Aluminium Extrusion (Xingfa) sample for Curtain Wall for your comment and approval.

Remark:
1) 1 set of Aluminium Extrusion (Xingfa) sample will be delivered to Mr. Dante Lai directly. (九龍城區承豐道啟德 6552 地盤 (維港一號對面)，黎旨軒先生 收，TEL：9866 7084)
2) The drawing of Section Properties for Curtain Wall is attached. (Dwg No: SD-SP-0005-1)

Should you have any query, please don't hesitate to liaise with us for information.

Thank you for your kind attention.

Yours faithfully,
MIDI ALUMINIUM FABRICATOR LTD.

Marco Tam
Director

Encl - 3 page(s)

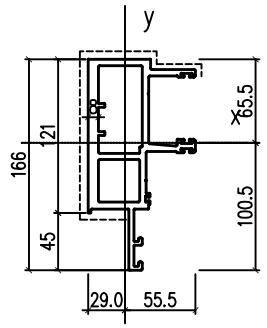
cc. E Man - Mr. Daniel Chan / Mr. Dante Lai (w/e) (Email Only)

FM/MT/HWS/YC/yl

九龍荼果嶺道610號生利工業中心1樓6-8號
Units 6-8, 1st Floor, Sunray Industrial Centre, 610 Cha Kwo Ling Road, Kln.
TEL. (電話) : 2348 9211 FAX. (傳真) : 2772 7666 E-mail Address (電郵) : midi@midiltd.com.hk.

ISO 9001 : 2015
Certificate No.: CC 1795

M1 X86047



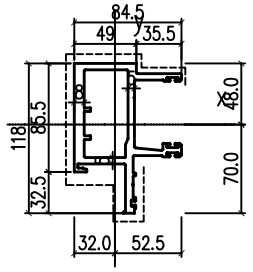
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. MALE MULLION (AL03)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2773.4
Perimeter (mm) :	1034.6
Bounding Box – X (mm):	-28.9 to 55.6
Bounding Box – Y (mm):	-100.3 to 65.7
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	5277145.5
Moments of inertia – Y (mm⁴) :	1439681.3
Product of inertia – XY (mm⁴) :	-129790.7
Radii of gyration – X (mm) :	43.6
Radii of gyration – Y (mm) :	22.8
Principal moments along X-Y (mm⁴) :	5281530.3 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	1435296.5 along [0.0 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 52621.7
Elastic Modulus – Zy (mm³):	J / x-max= 25875.8

M2 X86048



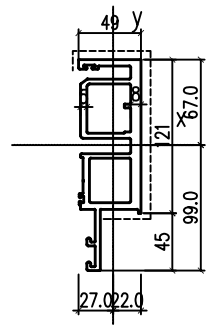
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. MALE MULLION (AL03A)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2119.8
Perimeter (mm) :	796.1
Bounding Box – X (mm):	-32.2 to 52.3
Bounding Box – Y (mm):	-70.0 to 48.0
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	2215208.2
Moments of inertia – Y (mm⁴) :	1223371.7
Product of inertia – XY (mm⁴) :	167654.2
Radii of gyration – X (mm) :	32.3
Radii of gyration – Y (mm) :	24.0
Principal moments along X-Y (mm⁴) :	2242780.9 along [1.0 0.2]
Principal moments along Y-X (mm⁴) :	1195798.0 along [-0.2 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 31656.8
Elastic Modulus – Zy (mm³):	J / x-max= 23381.7

M3 X86049



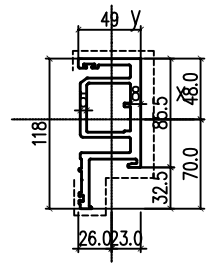
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. FEMALE MULLION (AL04)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2481.3
Perimeter (mm) :	942.3
Bounding Box – X (mm):	-27.2 to 21.8
Bounding Box – Y (mm):	-98.8 to 67.2
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	4902834.6
Moments of inertia – Y (mm⁴) :	696762.5
Product of inertia – XY (mm⁴) :	-304465.4
Radii of gyration – X (mm) :	44.5
Radii of gyration – Y (mm) :	16.8
Principal moments along X-Y (mm⁴) :	4924759.6 along [1.0 -0.1]
Principal moments along Y-X (mm⁴) :	674837.4 along [0.1 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 49003.6
Elastic Modulus – Zy (mm³):	J / x-max= 25638.8

M4 X86050



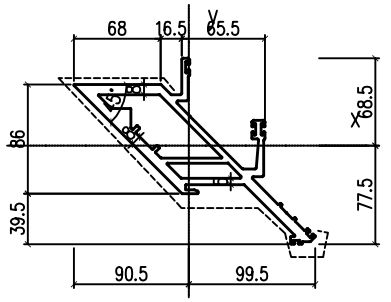
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. FEMALE MULLION (AL04A)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1859.1
Perimeter (mm) :	701.6
Bounding Box – X (mm):	-26.0 to 23.0
Bounding Box – Y (mm):	-70.2 to 47.8
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	1920205.5
Moments of inertia – Y (mm⁴) :	565157.2
Product of inertia – XY (mm⁴) :	-254099.1
Radii of gyration – X (mm) :	32.1
Radii of gyration – Y (mm) :	17.4
Principal moments along X-Y (mm⁴) :	1960287.1 along [1.0 -0.2]
Principal moments along Y-X (mm⁴) :	519075.5 along [0.2 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 27352.5
Elastic Modulus – Zy (mm³):	J / x-max= 21738.3

M7 X86051



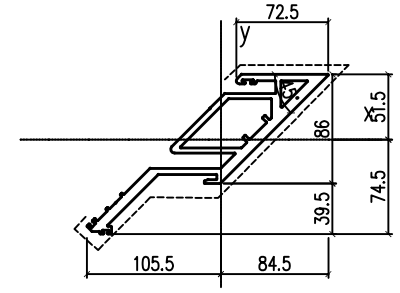
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. OUTER CORNER MALE MULLION (AL07)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3583.5
Perimeter (mm) :	1170.5
Bounding Box – X (mm):	-90.6 to 99.6
Bounding Box – Y (mm):	-77.6 to 68.7
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	4361519.1
Moments of inertia – Y (mm⁴) :	8366925.2
Product of inertia – XY (mm⁴) :	4655680.7
Radii of gyration – X (mm) :	34.9
Radii of gyration – Y (mm) :	48.3
Principal moments along X-Y (mm⁴) :	1296086.8 along [0.8 -0.5]
Principal moments along Y-X (mm⁴) :	11432357.5 along [0.5 0.8]
Elastic Modulus – Zx (mm³):	I / y-max= 56189.6
Elastic Modulus – Zy (mm³):	J / x-max= 84019.1

M8 X86052



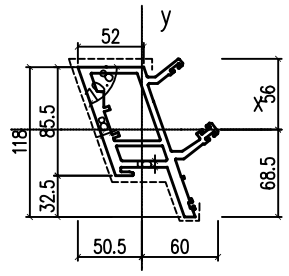
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. OUTER CORNER FEMALE MULLION (AL08)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2930.6
Perimeter (mm) :	1014.5
Bounding Box – X (mm):	-105.5 to 84.7
Bounding Box – Y (mm):	-74.3 to 51.4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	3563130.5
Moments of inertia – Y (mm⁴) :	6988499.4
Product of inertia – XY (mm⁴) :	-4388249.5
Radii of gyration – X (mm) :	34.9
Radii of gyration – Y (mm) :	48.8
Principal moments along X-Y (mm⁴) :	585186.4 along [0.8 0.6]
Principal moments along Y-X (mm⁴) :	9986443.5 along [-0.6 0.8]
Elastic Modulus – Zx (mm³):	I / y-max= 47636.2
Elastic Modulus – Zy (mm³):	J / x-max= 66245.4

M9 X86053



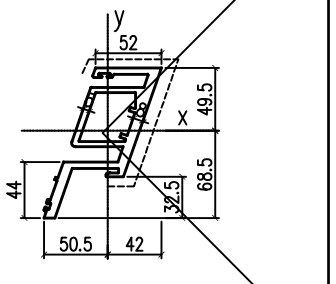
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. MALE MULLION (AL86)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2495.1
Perimeter (mm) :	903.4
Bounding Box – X (mm):	-50.5 to 60.0
Bounding Box – Y (mm):	-68.6 to 55.8
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	2574786.6
Moments of inertia – Y (mm⁴) :	1932970.6
Product of inertia – XY (mm⁴) :	1083244.5
Radii of gyration – X (mm) :	32.1
Radii of gyration – Y (mm) :	27.8
Principal moments along X-Y (mm⁴) :	3383657.6 along [0.8 0.6]
Principal moments along Y-X (mm⁴) :	1124099.6 along [-0.6 0.8]
Elastic Modulus – Zx (mm³):	I / y-max= 37526.6
Elastic Modulus – Zy (mm³):	J / x-max= 32219.5

M10 X86054



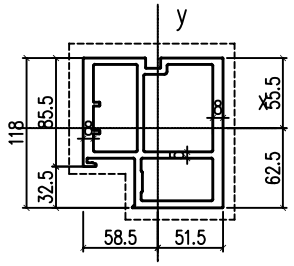
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. FEMALE MULLION (AL85)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2123
Perimeter (mm) :	753
Bounding Box – X (mm):	-50 to 42
Bounding Box – Y (mm):	-69 to 49
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	2281509
Moments of inertia – Y (mm⁴) :	1287529
Product of inertia – XY (mm⁴) :	-1175056
Radii of gyration – X (mm) :	33
Radii of gyration – Y (mm) :	25
Principal moments along X-Y (mm⁴) :	3060354 along [1 -1]
Principal moments along Y-X (mm⁴) :	508684 along [1 1]
Elastic Modulus – Zx (mm³):	I / y-max= 33239
Elastic Modulus – Zy (mm³):	J / x-max= 25813

M13 X86055



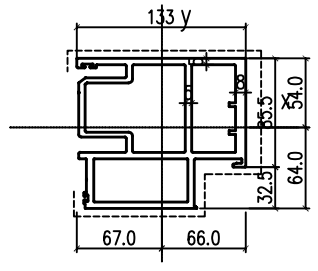
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. INTERMEDIATE MULLION (AL65)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3508.2
Perimeter (mm) :	1144.9
Bounding Box – X (mm):	-58.6 to 51.4
Bounding Box – Y (mm):	-62.7 to 55.3
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	4989216.5
Moments of inertia – Y (mm⁴) :	5178964.5
Product of inertia – XY (mm⁴) :	925385.1
Radii of gyration – X (mm) :	37.7
Radii of gyration – Y (mm) :	38.4
Principal moments along X-Y (mm⁴) :	4153854.7 along [0.7 -0.7]
Principal moments along Y-X (mm⁴) :	6014326.3 along [0.7 0.7]
Elastic Modulus – Zx (mm³):	I / y-max= 79592.5
Elastic Modulus – Zy (mm³):	J / x-max= 88351.7

M16 X86058



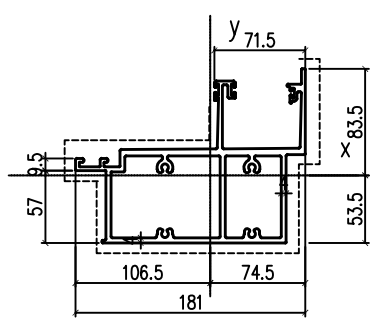
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. FEMALE MULLION (AL68)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3747.1
Perimeter (mm) :	1435.8
Bounding Box – X (mm):	-67.0 to 66.0
Bounding Box – Y (mm):	-63.8 to 54.2
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	5463720.4
Moments of inertia – Y (mm⁴) :	7175685.5
Product of inertia – XY (mm⁴) :	-829822.2
Radii of gyration – X (mm) :	38.2
Radii of gyration – Y (mm) :	43.8
Principal moments along X-Y (mm⁴) :	5127515.5 along [0.9 0.4]
Principal moments along Y-X (mm⁴) :	7511890.4 along [-0.4 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 85693.9
Elastic Modulus – Zy (mm³):	J / x-max= 107163.2

T2 X86060



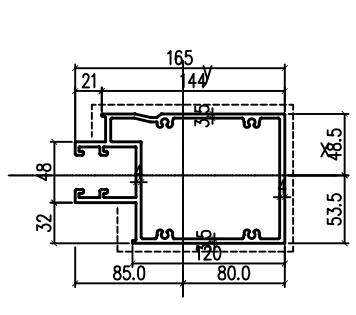
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. GUTTER STACK JOINT (AL12)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3175.1
Perimeter (mm) :	1563.3
Bounding Box – X (mm):	-106.3 to 74.7
Bounding Box – Y (mm):	-53.3 to 83.7
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	4356986.8
Moments of inertia – Y (mm⁴) :	8192586.5
Product of inertia – XY (mm⁴) :	-1648832.9
Radii of gyration – X (mm) :	37.0
Radii of gyration – Y (mm) :	50.8
Principal moments along X-Y (mm⁴) :	3745635.4 along [0.9 0.3]
Principal moments along Y-X (mm⁴) :	8803937.9 along [-0.3 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 52034.3
Elastic Modulus – Zy (mm³):	J / x-max= 77092.4

T3 X86061



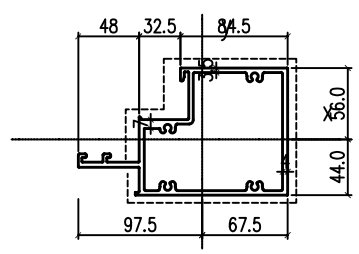
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL13)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2392.4
Perimeter (mm) :	1257.0
Bounding Box – X (mm):	-85.0 to 80.0
Bounding Box – Y (mm):	-53.6 to 48.4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	3420463.6
Moments of inertia – Y (mm⁴) :	6976517.5
Product of inertia – XY (mm⁴) :	430357.5
Radii of gyration – X (mm) :	37.8
Radii of gyration – Y (mm) :	54.0
Principal moments along X-Y (mm⁴) :	3389122.5 along [1.0 -0.1]
Principal moments along Y-X (mm⁴) :	7027858.6 along [0.1 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 63797.2
Elastic Modulus – Zy (mm³):	J / x-max= 82035.2

T4 X86062



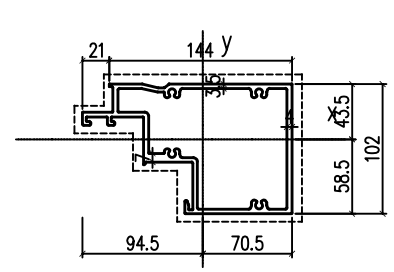
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL15)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2103.9
Perimeter (mm) :	1086.3
Bounding Box – X (mm):	-97.7 to 67.3
Bounding Box – Y (mm):	-43.9 to 56.1
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	2607312.2
Moments of inertia – Y (mm⁴) :	4957127.8
Product of inertia – XY (mm⁴) :	-846210.7
Radii of gyration – X (mm) :	35.2
Radii of gyration – Y (mm) :	48.5
Principal moments along X-Y (mm⁴) :	2334297.1 along [1.0 0.3]
Principal moments along Y-X (mm⁴) :	5230142.9 along [-0.3 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 46497.7
Elastic Modulus – Zy (mm³):	J / x-max= 50732.1

T5 X86063



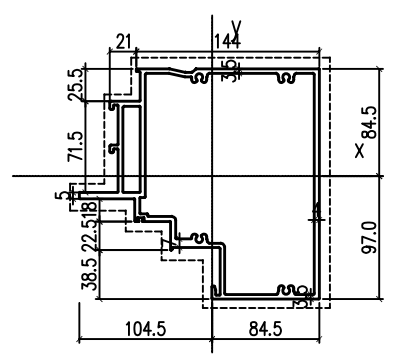
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL14)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2197.8
Perimeter (mm) :	1138.6
Bounding Box – X (mm):	-94.7 to 70.3
Bounding Box – Y (mm):	-58.6 to 43.4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	2873809.9
Moments of inertia – Y (mm⁴) :	5537173.8
Product of inertia – XY (mm⁴) :	1134971.8
Radii of gyration – X (mm) :	36.2
Radii of gyration – Y (mm) :	50.2
Principal moments along X-Y (mm⁴) :	2455766.8 along [0.9 -0.5]
Principal moments along Y-X (mm⁴) :	5955216.9 along [0.5 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 49047.8
Elastic Modulus – Zy (mm³):	J / x-max= 58494.4

T7 X86064



COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. TRANSOM (AL69)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3327.6
Perimeter (mm) :	1682.2
Bounding Box – X (mm):	-104.5 to 84.4
Bounding Box – Y (mm):	-96.8 to 84.4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	12155116.9
Moments of inertia – Y (mm⁴) :	12182219.1
Product of inertia – XY (mm⁴) :	1861523.3
Radii of gyration – X (mm) :	60.4
Radii of gyration – Y (mm) :	60.5
Principal moments along X-Y (mm⁴) :	10307095.4 along [0.7 -0.7]
Principal moments along Y-X (mm⁴) :	14030240.6 along [0.7 0.7]
Elastic Modulus – Zx (mm³):	I / y-max= 125587.2
Elastic Modulus – Zy (mm³):	J / x-max= 116587.3

B.D. REF :

F.S.D. REF :

Note :

1. All dimensions are in mm.
2. All elevations are viewed from outside.
3. All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :

1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. (R) -- Reversed Detail

X1 / X001 — DETAIL MARK NO. / REFER SHEET NO.

REV.	DATE	DESCRIPTION	BY
E	25.Nov.2021	GENERAL REVISION	
D	22.Nov.2021	GENERAL REVISION	
C	13.Nov.2021	GENERAL REVISION	
B	8.Nov.2021	GENERAL REVISION	
A	18.Oct.2021	GENERAL REVISION	

CLIENT :

MARBLE EDGE INVESTMENT LTD.

ARCHITECT :

RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :

C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :

裕民建築有限公司

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

PROJECT :

PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :

SECTION PROPERTIES (PAGE 1 OF 5)

JOB NO. : J–857

DRAWN BY : AN

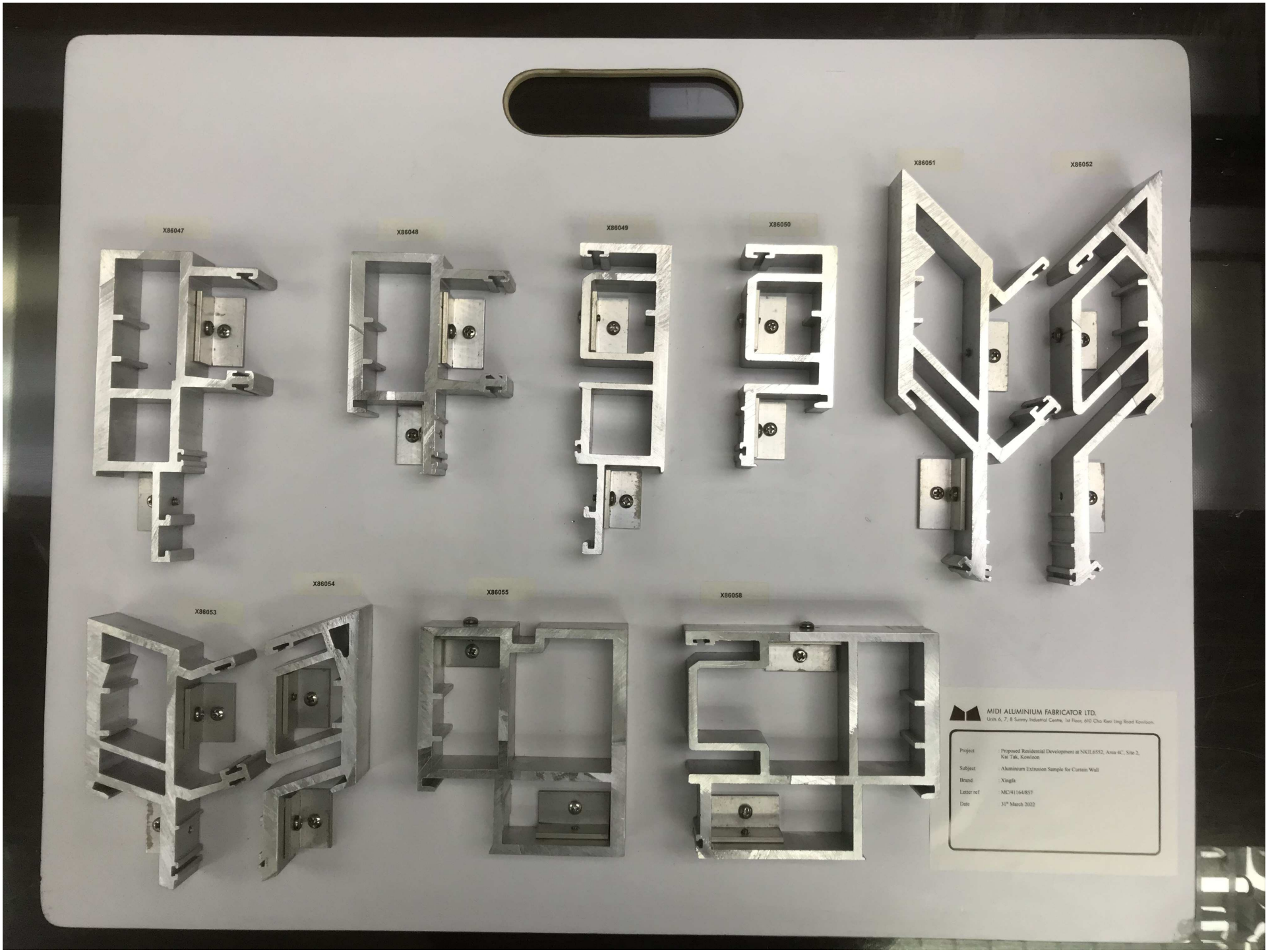
DATE : 18.Oct.2021

CHKD BY :

SCALE A1: 1:3 A3:

DWG. NO. : SD-SP-0005-1

REV. : –


X86047
X86048
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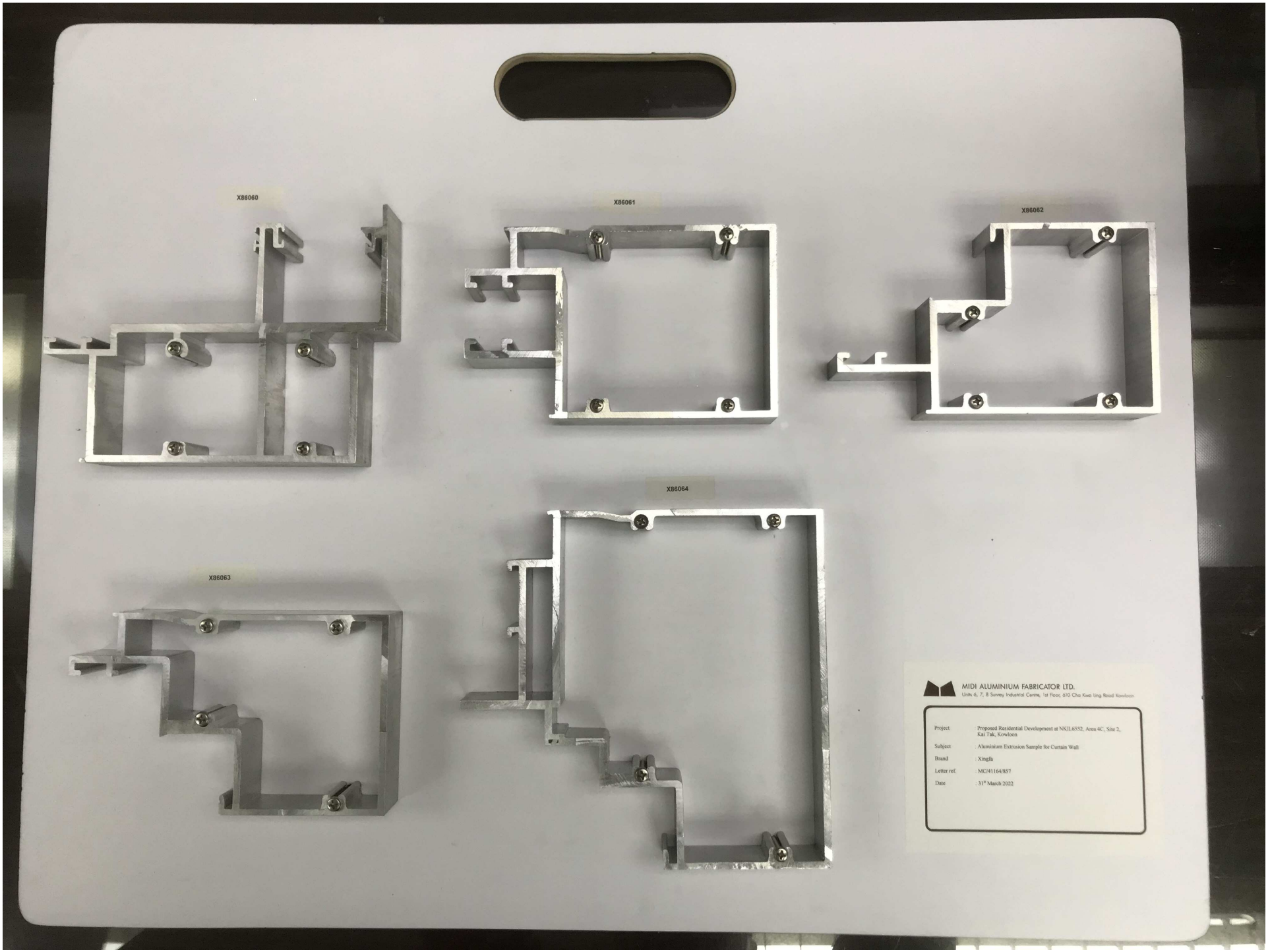
X86050
X86051
X86052
X86053
X86054
X86055
X86058
MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunrey Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon
Project : Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject : Aluminium Extrusion Sample for Curtain Wall
Brand : Xingfa
Letter ref : MC/41164/857
Date : 31st March 2022


X86060
X86061
X86062
X86064
X86063
MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunray Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon
Project : Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject : Aluminium Extrusion Sample for Curtain Wall
Brand : Xingfa
Letter ref. : MC/41164/857
Date : 31st March 2022

美 特 鋁 質 有 限 公 司
MIDI ALUMINIUM FABRICATOR LTD.

Our ref. MC/41174/857

4th April 2022

E Man Construction Co. Ltd.
29/F, AIA Tower, 183 Electric Road,
North Point, Hong Kong

By Email & Hand

Attn.: Mr. Adam Wong

Dear Sir,

Re: Design, Supply & Installation of Curtain Wall, Windows, Cladding and Glass Door for Residential Towers for Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Material Submission of Aluminium Extrusion Sample (Batch 2) for Curtain Wall

Regarding the captioned project, we would like to submit 2 pieces of Aluminium Extrusion (Xingfa) sample boards for Curtain Wall for your comment and approval.

Remark:
1) 2 pieces of Aluminium Extrusion (Xingfa) sample boards will be delivered to Mr. Dante Lai directly.(九龍城區承豐道啟德 6552 地盤 (維港一號對面)，黎旨軒先生收，TEL：9866 7084)
2) The drawing of Section Properties for Curtain Wall is attached. (Dwg No: SD-SP-0006-1)

Should you have any query, please don't hesitate to liaise with us for information.

Thank you for your kind attention.

Yours faithfully,
MIDI ALUMINIUM FABRICATOR LTD.

Francis Mau
Managing Director

Encl - 3 page(s)

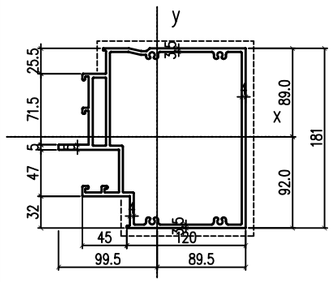
cc. E Man - Mr. Daniel Chan / Mr. Dante Lai (w/e) (Email Only)

FM/MT/HWS/YC/yl

九龍荼果嶺道610號生利工業中心1樓6-8號
Units 6-8, 1st Floor, Sunray Industrial Centre, 610 Cha Kwo Ling Road, Kln.
TEL.(電話) : 2348 9211 FAX.(傳真) : 2772 7666 E-mail Address(電郵) : midi@midiltd.com.hk.

ISO 9001 : 2015
Certificate No.: CC 1795

T8 X86065



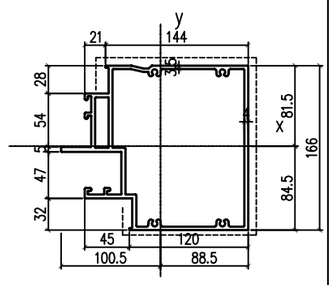
COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. TRANSOM (AL70)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3456.7
Perimeter (mm) :	1761.0
Bounding Box – X (mm):	-99.5 to 89.4
Bounding Box – Y (mm):	-92.0 to 89.2
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	137730534
Moments of inertia – Y (mm⁴) :	129785670
Product of inertia – XY (mm⁴) :	62844741
Radii of gyration – X (mm) :	63.1
Radii of gyration – Y (mm) :	61.3
Principal moments along X–Y (mm⁴) :	141171266 along [0.9 0.5]
Principal moments along Y–X (mm⁴) :	126324938 along [-0.5 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 1499657
Elastic Modulus – Zy (mm³):	J / x-max= 1304104

T10 X86067



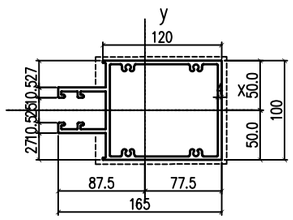
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. TRANSOM (AL72)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3264.3
Perimeter (mm) :	1684.8
Bounding Box – X (mm):	-100.3 to 88.6
Bounding Box – Y (mm):	-84.6 to 81.4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	110248248
Moments of inertia – Y (mm⁴) :	120418538
Product of inertia – XY (mm⁴) :	61460300
Radii of gyration – X (mm) :	58.1
Radii of gyration – Y (mm) :	60.7
Principal moments along X–Y (mm⁴) :	107356040 along [0.9 -0.4]
Principal moments along Y–X (mm⁴) :	123308747 along [0.4 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 1302769
Elastic Modulus – Zy (mm³):	J / x-max= 1201076

T11 X86068



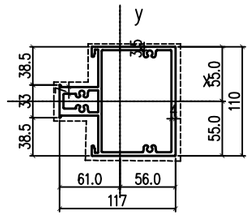
COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL106)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2297.6
Perimeter (mm) :	1202.3
Bounding Box – X (mm):	-87.5 to 77.5
Bounding Box – Y (mm):	-50.0 to 50.0
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	30884853
Moments of inertia – Y (mm⁴) :	65165521
Product of inertia – XY (mm⁴) :	1325
Radii of gyration – X (mm) :	36.7
Radii of gyration – Y (mm) :	53.3
Principal moments along X–Y (mm⁴) :	30884853 along [1.0 0.0]
Principal moments along Y–X (mm⁴) :	65165521 along [0.0 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 617688
Elastic Modulus – Zy (mm³):	J / x-max= 744832

T12 X86069



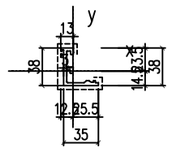
COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL107)

GRADE:

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2071.3
Perimeter (mm) :	1048.4
Bounding Box – X (mm):	-61.0 to 56.0
Bounding Box – Y (mm):	-55.0 to 55.0
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	27610110.3
Moments of inertia – Y (mm⁴) :	31608764.4
Product of inertia – XY (mm⁴) :	90.8
Radii of gyration – X (mm) :	36.5
Radii of gyration – Y (mm) :	39.1
Principal moments along X–Y (mm⁴) :	27610110.2 along [1.0 0.0]
Principal moments along Y–X (mm⁴) :	31608764.5 along [0.0 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 501991
Elastic Modulus – Zy (mm³):	J / x-max= 517873

X86071



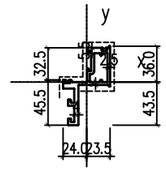
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. CAPPING (AL17)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	301
Perimeter (mm) :	203
Bounding Box – X (mm):	-12 to 26
Bounding Box – Y (mm):	-15 to 23
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	53340
Moments of inertia – Y (mm⁴) :	31288
Product of inertia – XY (mm⁴) :	23569
Radii of gyration – X (mm) :	13
Radii of gyration – Y (mm) :	10
Principal moments along X–Y (mm⁴) :	68334 along [1 1]
Principal moments along Y–X (mm⁴) :	16294 along [-1 1]
Elastic Modulus – Zx (mm³):	I / y-max= 2294
Elastic Modulus – Zy (mm³):	J / x-max= 1219

X86072



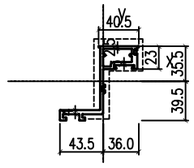
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. OPEANABLE WINDOW SASH (AL26)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	666.5
Perimeter (mm) :	427.5
Bounding Box – X (mm):	-24.0 to 23.5
Bounding Box – Y (mm):	-43.5 to 36.0
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	3336168
Moments of inertia – Y (mm⁴) :	1375891
Product of inertia – XY (mm⁴) :	-1145308.9
Radii of gyration – X (mm) :	21.9
Radii of gyration – Y (mm) :	14.1
Principal moments along X–Y (mm⁴) :	4117081 along [0.9 -0.5]
Principal moments along Y–X (mm⁴) :	594978 along [0.5 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 76675
Elastic Modulus – Zy (mm³):	J / x-max= 57359

X86073



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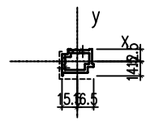
EXTRUSION MARK: EXTRUDED ALUM. OPEANABLE WINDOW SASH (AL31)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	717.7
Perimeter (mm) :	469.1
Bounding Box – X (mm):	-43.8 to 35.9
Bounding Box – Y (mm):	-39.5 to 35.5
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	5029892
Moments of inertia – Y (mm⁴) :	3328346
Product of inertia – XY (mm⁴) :	-3293875
Radii of gyration – X (mm) :	26.5
Radii of gyration – Y (mm) :	21.5
Principal moments along X–Y (mm⁴) :	7581190 along [0.8 -0.6]
Principal moments along Y–X (mm⁴) :	777049 along [0.6 0.8]
Elastic Modulus – Zx (mm³):	I / y-max= 12727.9
Elastic Modulus – Zy (mm³):	J / x-max= 7625.5

X86074



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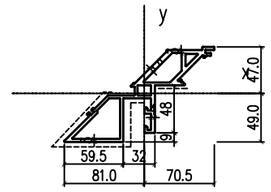
EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR (AL34)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	298.5
Perimeter (mm) :	197.8
Bounding Box – X (mm):	-15.6 to 16.6
Bounding Box – Y (mm):	-14.6 to 12.4
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	20029.7
Moments of inertia – Y (mm⁴) :	32666.4
Product of inertia – XY (mm⁴) :	-3344.2
Radii of gyration – X (mm) :	8.2
Radii of gyration – Y (mm) :	10.5
Principal moments along X–Y (mm⁴) :	19199.3 along [1.0 0.2]
Principal moments along Y–X (mm⁴) :	33496.8 along [-0.2 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 1373.7
Elastic Modulus – Zy (mm³):	J / x-max= 1964.8

X86075



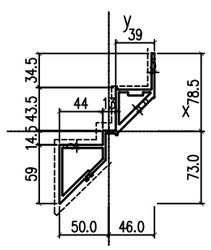
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUMINIUM OUTER CORNER EDGE PROTECTION (AL38)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1717.2
Perimeter (mm) :	942.8
Bounding Box – X (mm):	-80.9 to 70.6
Bounding Box – Y (mm):	-48.9 to 46.9
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1505582.2
Moments of inertia – Y (mm⁴) :	2361575.4
Product of inertia – XY (mm⁴) :	-1570201.3
Radii of gyration – X (mm) :	29.6
Radii of gyration – Y (mm) :	37.1
Principal moments along X–Y (mm⁴) :	306239.4 along [0.8 0.6]
Principal moments along Y–X (mm⁴) :	3561318.1 along [-0.6 0.8]
Elastic Modulus – Zx (mm³):	I / y-max= 30807.4
Elastic Modulus – Zy (mm³):	J / x-max= 29195.5

X86076



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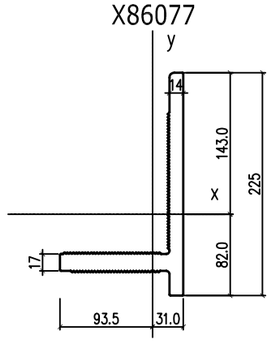
EXTRUSION MARK: EXTRUDED ALUMINIUM OUTER CORNER EDGE PROTECTION (AL39)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1274.2
Perimeter (mm) :	735.7
Bounding Box – X (mm):	-49.8 to 46.2
Bounding Box – Y (mm):	-72.9 to 78.6
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1803398.1
Moments of inertia – Y (mm⁴) :	1267372.4
Product of inertia – XY (mm⁴) :	-1366831.7
Radii of gyration – X (mm) :	37.6
Radii of gyration – Y (mm) :	31.5
Principal moments along X–Y (mm⁴) :	2928245.5 along [0.8 -0.6]
Principal moments along Y–X (mm⁴) :	142524.9 along [0.6 0.8]
Elastic Modulus – Zx (mm³):	I / y-max= 22954.7
Elastic Modulus – Zy (mm³):	J / x-max= 25469.9

X86077



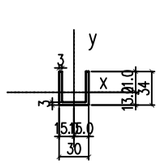
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. ANGLE BRACKET (AL45)

GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	5298.3
Perimeter (mm) :	809.2
Bounding Box – X (mm):	-93.4 to 31.1
Bounding Box – Y (mm):	-82.1 to 142.9
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	21264372.5
Moments of inertia – Y (mm⁴) :	6913805.6
Product of inertia – XY (mm⁴) :	-6130406.5
Radii of gyration – X (mm) :	63.4
Radii of gyration – Y (mm) :	36.1
Principal moments along X–Y (mm⁴) :	23526898.1 along [0.9 -0.3]
Principal moments along Y–X (mm⁴) :	4651580.0 along [0.3 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 146766.2
Elastic Modulus – Zy (mm³):	J / x-max= 74028.4

X86078



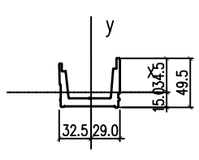
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. U-CHANNEL (FOR GLASS BARRIER) (AL49)

GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	275.8
Perimeter (mm) :	188.3
Bounding Box – X (mm):	-15.0 to 15.0
Bounding Box – Y (mm):	-12.9 to 21.1
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	32390.1
Moments of inertia – Y (mm⁴) :	40739.9
Product of inertia – XY (mm⁴) :	0.0
Radii of gyration – X (mm) :	10.8
Radii of gyration – Y (mm) :	12.2
Principal moments along X–Y (mm⁴) :	32390.1 along [1.0 0.0]
Principal moments along Y–X (mm⁴) :	40739.9 along [0.0 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 1538.1
Elastic Modulus – Zy (mm³):	J / x-max= 2716.0

X86079



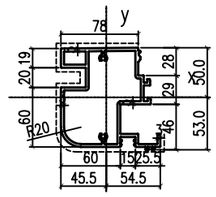
COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. GUTTER SLEEVE (AL58)

GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	955.5
Perimeter (mm) :	282.9
Bounding Box – X (mm):	-32.3 to 29.0
Bounding Box – Y (mm):	-15.1 to 34.3
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	147744.3
Moments of inertia – Y (mm⁴) :	480025.4
Product of inertia – XY (mm⁴) :	-28780.7
Radii of gyration – X (mm) :	12.4
Radii of gyration – Y (mm) :	22.4
Principal moments along X–Y (mm⁴) :	145288.8 along [1.0 0.1]
Principal moments along Y–X (mm⁴) :	482469.8 along [-0.1 1.0]
Elastic Modulus – Zx (mm³):	I / y-max= 4307.9
Elastic Modulus – Zy (mm³):	J / x-max= 14883.5

X86080



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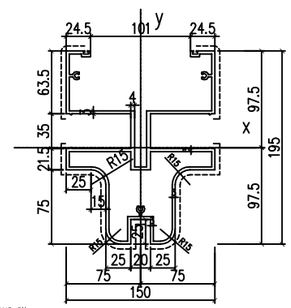
EXTRUSION MARK: ALUM. VERTICAL FEATURE (AL76A)

GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1580.0
Perimeter (mm) :	1058.7
Bounding Box – X (mm):	-45.8 to 54.7
Bounding Box – Y (mm):	-53.1 to 49.9
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	2037508.2
Moments of inertia – Y (mm⁴) :	1474973.8
Product of inertia – XY (mm⁴) :	320944.7
Radii of gyration – X (mm) :	35.9
Radii of gyration – Y (mm) :	30.6
Principal moments along X–Y (mm⁴) :	2182992.4 along [0.9 0.4]
Principal moments along Y–X (mm⁴) :	1329498.5 along [-0.4 0.9]
Elastic Modulus – Zx (mm³):	I / y-max= 38405.0
Elastic Modulus – Zy (mm³):	J / x-max= 26989.3

X86082



COLOUR:Silver

EXTRUSION MARK: ALUM. VERTICAL FEATURE (AL78)

GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3003
Perimeter (mm) :	1967
Bounding Box – X (mm):	-75 to 75
Bounding Box – Y (mm):	-97 to 98
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	3585698
Moments of inertia – Y (mm⁴) :	6420190
Product of inertia – XY (mm⁴) :	-304
Radii of gyration – X (mm) :	53
Radii of gyration – Y (mm) :	46
Principal moments along X–Y (mm⁴) :	3585698 along [1 0]
Principal moments along Y–X (mm⁴) :	6420190 along [0 1]
Elastic Modulus – Zx (mm³):	I / y-max= 57990
Elastic Modulus – Zy (mm³):	J / x-max= 85601

B.D. REF :

F.S.D. REF :

Note :

1. All dimensions are in mm.
2. All elevations are viewed from outside.
3. All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :

1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. /R -- Reversed Detail

X1 / X001 — DETAIL MARK NO. / REFER SHEET NO.

REV.	DATE	DESCRIPTION	BY
D	22.Nov.2021	GENERAL REVISION	
C	13.Nov.2021	GENERAL REVISION	
B	8.Nov.2021	GENERAL REVISION	
A	18.Oct.2021	GENERAL REVISION	

CLIENT :

MARBLE EDGE INVESTMENT LTD.

ARCHITECT :

RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :

C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :

裕民建築有限公司

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

PROJECT :

PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :

SECTION PROPERTIES (PAGE 2 OF 5)

JOB NO. : J-857

DRAWN BY : AN

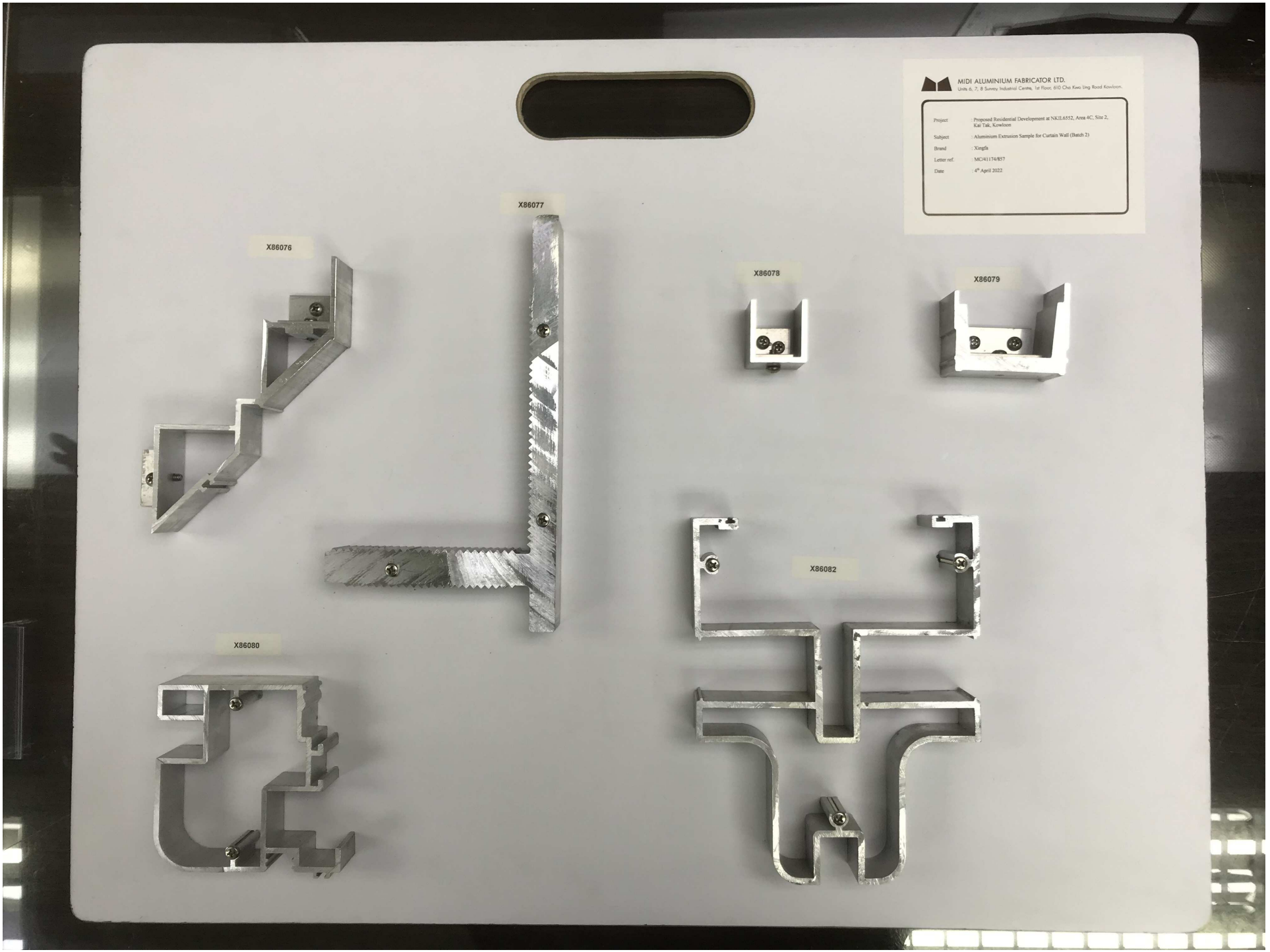
DATE : 18.Oct.2021

CHKD BY :

SCALE A1: 1:3
A3:

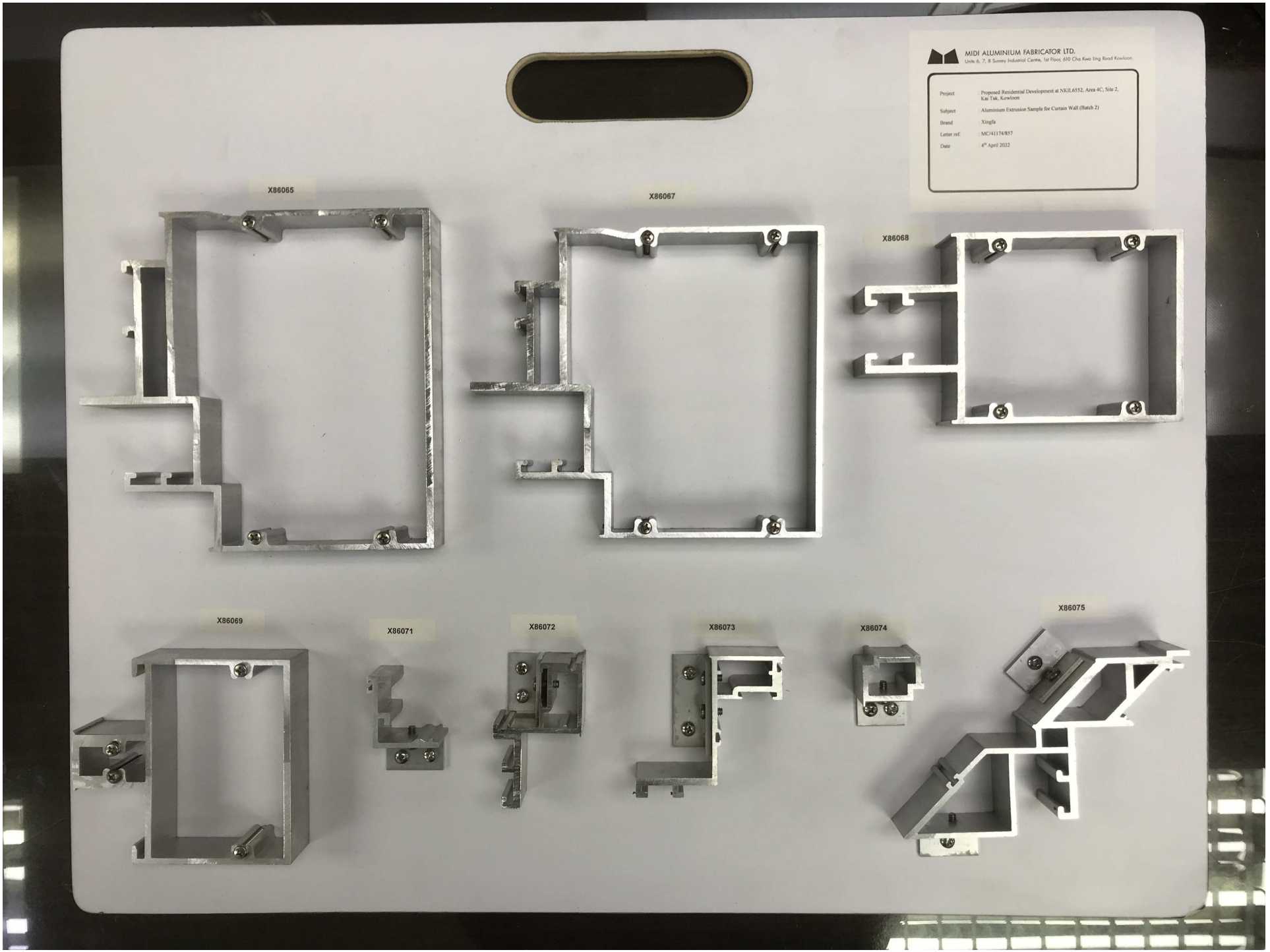
DWG. NO. : SD-SP-0006-1

REV. : –


MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunray Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon.
Project : Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject : Aluminium Extrusion Sample for Curtain Wall (Batch 2)
Brand : Xingfa
Letter ref. : MCJ41174/857
Date : 4th April 2022
X86076
X86077
X86078
X86079
X86080
X86082

MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunrey Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon.

Project	: Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject	: Aluminium Extrusion Sample for Curtain Wall (Batch 2)
Brand	: Xingfa
Letter ref.	: MC/41174/857
Date	: 4th April 2022



美 特 鋁 質 有 限 公 司
MIDI ALUMINIUM FABRICATOR LTD.

Our ref. MC/41182/857 6th April 2022

E Man Construction Co. Ltd. By Email & Hand
29/F, AIA Tower, 183 Electric Road,
North Point, Hong Kong

Attn.: Mr. Adam Wong

Dear Sir,

Re: Design, Supply & Installation of Curtain Wall, Windows, Cladding and Glass Door for Residential Towers for Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Material Submission of Aluminium Extrusion Sample (Batch 3) for Curtain Wall

Regarding the captioned project, we would like to submit 1 set of Aluminium Extrusion (Xingfa) sample board for Curtain Wall for your comment and approval.

Remark:
1) 1 set of Aluminium Extrusion (Xingfa) sample will be delivered to Mr. Dante Lai directly. (九龍城區承豐道啟德 6552 地盤 (維港一號對面)，黎旨軒先生 收，TEL：9866 7084)
2) The drawing of Section Properties for Curtain Wall is attached. (Dwg No: SD-SP-0007-1)

Should you have any query, please don't hesitate to liaise with us for information.

Thank you for your kind attention.

Yours faithfully,
MIDI ALUMINIUM FABRICATOR LTD.

Francis Mau
Managing Director

Encl - 2 page(s)

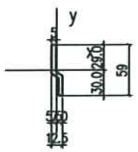
cc. E Man - Mr. Daniel Chan / Mr. Dante Lai (w/e) (Email Only)

FM/MT/HWS/YC/yl

九龍荼果嶺道610號生利工業中心1樓6-8號
Units 6-8, 1st Floor, Sunray Industrial Centre, 610 Cha Kwo Ling Road, Kln.
TEL. (電話) : 2348 9211 FAX. (傳真) : 2772 7666 E-mail Address (電郵) : midi@midiltd.com.hk.

ISO 9001 : 2015
Certificate No.: CC 1795

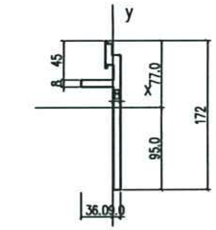
X86083



EXTRUSION MARK: EXTRUDED ALUM. BRACKET
GRADE: 6063-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	207.8
Perimeter (mm):	133.0
Bounding Box - X (mm):	-5.6 to 6.0
Bounding Box - Y (mm):	-29.0 to 29.0
Centroid - X (mm):	0.0000
Centroid - Y (mm):	0.0000
Moments of Inertia - X (mm⁴):	78850.5
Moments of Inertia - Y (mm⁴):	4040.3
Product of Inertia - XY (mm⁴):	15330.1
Radii of gyration - X (mm):	19.3
Radii of gyration - Y (mm):	3.9
Principal moments along X-Y (mm⁴):	80833.4 along [1.0 0.1]
Principal moments along Y-X (mm⁴):	1536.4 along [-0.1 1.0]
Elastic Modulus - Zx (mm³):	I / y-max 2691.3
Elastic Modulus - Zy (mm³):	J / x-max 693.3

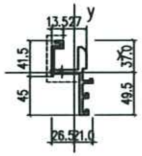
X86085



EXTRUSION MARK: EXTRUDED ALUM. BRACKET
GRADE: 6061-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	1707.7
Perimeter (mm):	454.8
Bounding Box - X (mm):	-36.1 to 8.8
Bounding Box - Y (mm):	-95.1 to 76.9
Centroid - X (mm):	0
Centroid - Y (mm):	0
Moments of Inertia - X (mm⁴):	3831345.4
Moments of Inertia - Y (mm⁴):	167324.1
Product of Inertia - XY (mm⁴):	308308.6
Radii of gyration - X (mm):	47.3
Radii of gyration - Y (mm):	9.9
Principal moments along X-Y (mm⁴):	3858087.5 along [1.0 0.1]
Principal moments along Y-X (mm⁴):	142872.0 along [-0.1 1.0]
Elastic Modulus - Zx (mm³):	I / y-max 41302.7
Elastic Modulus - Zy (mm³):	J / x-max 4830.9

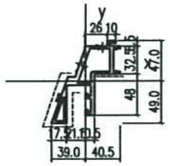
X86086



COLOUR:Dark Grey
EXTRUSION MARK: EXTRUDED ALUM. OPENABLE FRAME
GRADE: 6063-T5

MASS PROPERTIES (mm)	VALUES
Area (mm²):	855.3
Perimeter (mm):	398.0
Bounding Box - X (mm):	-26.4 to 21.1
Bounding Box - Y (mm):	-49.5 to 37.0
Centroid - X (mm):	0.0000
Centroid - Y (mm):	0.0000
Moments of Inertia - X (mm⁴):	424570.8
Moments of Inertia - Y (mm⁴):	160752.1
Product of Inertia - XY (mm⁴):	115988.6
Radii of gyration - X (mm):	22.3
Radii of gyration - Y (mm):	13.7
Principal moments along X-Y (mm⁴):	469529.8 along [0.9 0.4]
Principal moments along Y-X (mm⁴):	117395.0 along [-0.4 0.9]
Elastic Modulus - Zx (mm³):	I / y-max 8580.2
Elastic Modulus - Zy (mm³):	J / x-max 6053.7

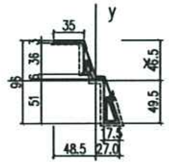
X86088



COLOUR:Dark Grey
EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR
GRADE: 6063-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	1301.8
Perimeter (mm):	881.8
Bounding Box - X (mm):	-39.0 to 40.5
Bounding Box - Y (mm):	-49.0 to 48.0
Centroid - X (mm):	0
Centroid - Y (mm):	0
Moments of Inertia - X (mm⁴):	807765.1
Moments of Inertia - Y (mm⁴):	954033.6
Product of Inertia - XY (mm⁴):	-469170.7
Radii of gyration - X (mm):	[illegible]
Radii of gyration - Y (mm):	[illegible]
Principal moments along X-Y (mm⁴):	1350514.8 along [0.8 -0.6]
Principal moments along Y-X (mm⁴):	220101.2 along [0.6 0.8]
Elastic Modulus - Zx (mm³):	I / y-max 16540.0
Elastic Modulus - Zy (mm³):	J / x-max 13730.3

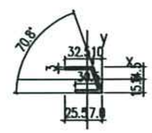
X86089



COLOUR:Dark Grey
EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR
GRADE: 6063-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	704.0
Perimeter (mm):	477.8
Bounding Box - X (mm):	-48.8 to 27.2
Bounding Box - Y (mm):	-49.4 to 46.3
Centroid - X (mm):	0.0000
Centroid - Y (mm):	0.0000
Moments of Inertia - X (mm⁴):	669255.8
Moments of Inertia - Y (mm⁴):	223350.2
Product of Inertia - XY (mm⁴):	342350.3
Radii of gyration - X (mm):	30.8
Radii of gyration - Y (mm):	17.8
Principal moments along X-Y (mm⁴):	811073.3 along [0.9 0.5]
Principal moments along Y-X (mm⁴):	36808.5 along [-0.5 0.9]
Elastic Modulus - Zx (mm³):	I / y-max 13380.5
Elastic Modulus - Zy (mm³):	J / x-max 4571.7

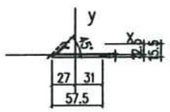
X86090



EXTRUSION MARK: EXTRUDED ALUM. U-CHANNEL (FOR GLASS BARRIER)
GRADE: 6063-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	205.1
Perimeter (mm):	181.0
Bounding Box - X (mm):	-25.7 to 14.0
Bounding Box - Y (mm):	-15.4 to 14.6
Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0
Moments of Inertia - X (mm⁴):	30137.3
Moments of Inertia - Y (mm⁴):	30027.5
Product of Inertia - XY (mm⁴):	15414.0
Radii of gyration - X (mm):	12.0
Radii of gyration - Y (mm):	11.1
Principal moments along X-Y (mm⁴):	51153.3 along [0.7 0.7]
Principal moments along Y-X (mm⁴):	10011.4 along [-0.8 0.7]
Elastic Modulus - Zx (mm³):	I / y-max 2478.1
Elastic Modulus - Zy (mm³):	J / x-max 1278.7

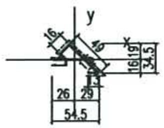
X86091



COLOUR:Dark Grey
EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR
GRADE: 6063-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	240
Perimeter (mm):	165
Bounding Box - X (mm):	-27 to 31
Bounding Box - Y (mm):	-3 to 12
Centroid - X (mm):	0
Centroid - Y (mm):	0
Moments of Inertia - X (mm⁴):	2347
Moments of Inertia - Y (mm⁴):	63572
Product of Inertia - XY (mm⁴):	3834
Radii of gyration - X (mm):	3
Radii of gyration - Y (mm):	16
Principal moments along X-Y (mm⁴):	2178 along [1 0]
Principal moments along Y-X (mm⁴):	63742 along [0 1]
Elastic Modulus - Zx (mm³):	I / y-max 188
Elastic Modulus - Zy (mm³):	J / x-max 2050

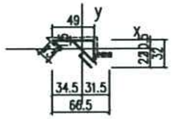
X86092



COLOUR:Dark Grey
EXTRUSION MARK: EXTRUDED ALUM. CAPPING
GRADE: 6063-T5

MASS PROPERTIES (mm)	VALUES
Area (mm²):	170
Perimeter (mm):	277
Bounding Box - X (mm):	-26 to 29
Bounding Box - Y (mm):	-16 to 19
Centroid - X (mm):	0
Centroid - Y (mm):	0
Moments of Inertia - X (mm⁴):	13270
Moments of Inertia - Y (mm⁴):	38025
Product of Inertia - XY (mm⁴):	14700
Radii of gyration - X (mm):	9
Radii of gyration - Y (mm):	15
Principal moments along X-Y (mm⁴):	9300 along [1 0]
Principal moments along Y-X (mm⁴):	40705 along [0 1]
Elastic Modulus - Zx (mm³):	I / y-max 700
Elastic Modulus - Zy (mm³):	J / x-max 1270

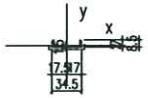
X86093



COLOUR:Dark Grey
EXTRUSION MARK: EXTRUDED ALUM. CAPPING
GRADE: 6063-T5

MASS PROPERTIES (mm)	VALUES
Area (mm²):	184
Perimeter (mm):	316
Bounding Box - X (mm):	-35 to 32
Bounding Box - Y (mm):	-22 to 10
Centroid - X (mm):	0
Centroid - Y (mm):	0
Moments of Inertia - X (mm⁴):	10133
Moments of Inertia - Y (mm⁴):	40005
Product of Inertia - XY (mm⁴):	10017
Radii of gyration - X (mm):	8
Radii of gyration - Y (mm):	16
Principal moments along X-Y (mm⁴):	9305 along [1 0]
Principal moments along Y-X (mm⁴):	50233 along [0 1]
Elastic Modulus - Zx (mm³):	I / y-max 741
Elastic Modulus - Zy (mm³):	J / x-max 1430

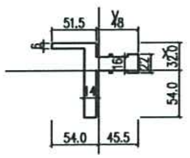
X86094



COLOUR:Silver
EXTRUSION MARK: EXTRUDED ALUM. CAPPING
GRADE: 6063-T5

MASS PROPERTIES (mm)	VALUES
Area (mm²):	71
Perimeter (mm):	100
Bounding Box - X (mm):	-17 to 17
Bounding Box - Y (mm):	-2 to 7
Centroid - X (mm):	0
Centroid - Y (mm):	0
Moments of Inertia - X (mm⁴):	308
Moments of Inertia - Y (mm⁴):	8472
Product of Inertia - XY (mm⁴):	2
Radii of gyration - X (mm):	2
Radii of gyration - Y (mm):	12
Principal moments along X-Y (mm⁴):	308 along [1 0]
Principal moments along Y-X (mm⁴):	8472 along [0 1]
Elastic Modulus - Zx (mm³):	I / y-max 45
Elastic Modulus - Zy (mm³):	J / x-max 545

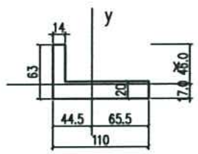
X86095



EXTRUSION MARK: EXTRUDED ALUM. CORNER HOOK-ON BRACKET
GRADE: 6061-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	2308.1
Perimeter (mm):	380.3
Bounding Box - X (mm):	-54.1 to 45.4
Bounding Box - Y (mm):	-54.1 to 31.9
Centroid - X (mm):	0.00
Centroid - Y (mm):	0.00
Moments of Inertia - X (mm⁴):	1155559.7
Moments of Inertia - Y (mm⁴):	1058871.0
Product of Inertia - XY (mm⁴):	-80322.0
Radii of gyration - X (mm):	22.5
Radii of gyration - Y (mm):	21.5
Principal moments along X-Y (mm⁴):	1177984.7 along [0.9 -0.4]
Principal moments along Y-X (mm⁴):	1035708.1 along [0.4 0.9]
Elastic Modulus - Zx (mm³):	[illegible]

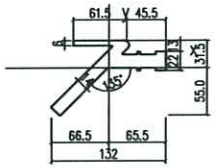
X86096



EXTRUSION MARK: EXTRUDED ALUM. ANGLE BRACKET
GRADE: 6061-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	2891.8
Perimeter (mm):	394.7
Bounding Box - X (mm):	-44.7 to 65.3
Bounding Box - Y (mm):	-18.8 to 48.2
Centroid - X (mm):	0
Centroid - Y (mm):	0
Moments of Inertia - X (mm⁴):	634838.8
Moments of Inertia - Y (mm⁴):	3314050.0
Product of Inertia - XY (mm⁴):	714477.0
Radii of gyration - X (mm):	15.1
Radii of gyration - Y (mm):	34.4
Principal moments along X-Y (mm⁴):	4083254.0 along [1.0 -0.2]
Principal moments along Y-X (mm⁴):	3484888.0 along [0.2 1.0]
Elastic Modulus - Zx (mm³):	[illegible]

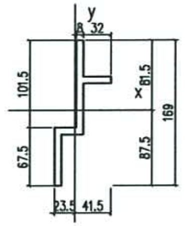
X86097



EXTRUSION MARK: EXTRUDED ALUM. CORNER HOOK-ON BRACKET
GRADE: 6061-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	2828.2
Perimeter (mm):	470.8
Bounding Box - X (mm):	-66.4 to 65.7
Bounding Box - Y (mm):	-55.0 to 37.7
Centroid - X (mm):	0.00
Centroid - Y (mm):	0.00
Moments of Inertia - X (mm⁴):	1354659.3
Moments of Inertia - Y (mm⁴):	3530054.6
Product of Inertia - XY (mm⁴):	-1343803.1
Radii of gyration - X (mm):	21.8
Radii of gyration - Y (mm):	34.7
Principal moments along X-Y (mm⁴):	714177.1 along [0.9 0.4]
Principal moments along Y-X (mm⁴):	4171132.8 along [-0.4 0.9]
Elastic Modulus - Zx (mm³):	I / y-max 24633.2

X86100



EXTRUSION MARK: EXTRUDED ALUM. BRACKET
GRADE: 6061-T6

MASS PROPERTIES (mm)	VALUES
Area (mm²):	1027.8
Perimeter (mm):	485.4
Bounding Box - X (mm):	-23.4 to 41.6
Bounding Box - Y (mm):	-87.6 to 81.4
Centroid - X (mm):	0.0000
Centroid - Y (mm):	0.0000
Moments of Inertia - X (mm⁴):	2080238.0
Moments of Inertia - Y (mm⁴):	432381.7
Product of Inertia - XY (mm⁴):	-449132.4
Radii of gyration - X (mm):	45.0
Radii of gyration - Y (mm):	19.8
Principal moments along X-Y (mm⁴):	2020800.2 along [1.0 -0.3]
Principal moments along Y-X (mm⁴):	178219.4 along [0.3 1.0]
Elastic Modulus - Zx (mm³):	I / y-max 41000.0

B.D. REF :
F.S.D. REF :

Note :
1. All dimensions are in mm.
2. All elevations are viewed from outside.
3. All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L. — Finished Floor Level
2. S.F.L. — Structural Floor Level
3. (R) — Reversed Detail

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

REV.	DATE	DESCRIPTION	BY
D	22.Nov.2021	GENERAL REVISION	
C	13.Nov.2021	GENERAL REVISION	
B	8.Nov.2021	GENERAL REVISION	
A	18.Oct.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

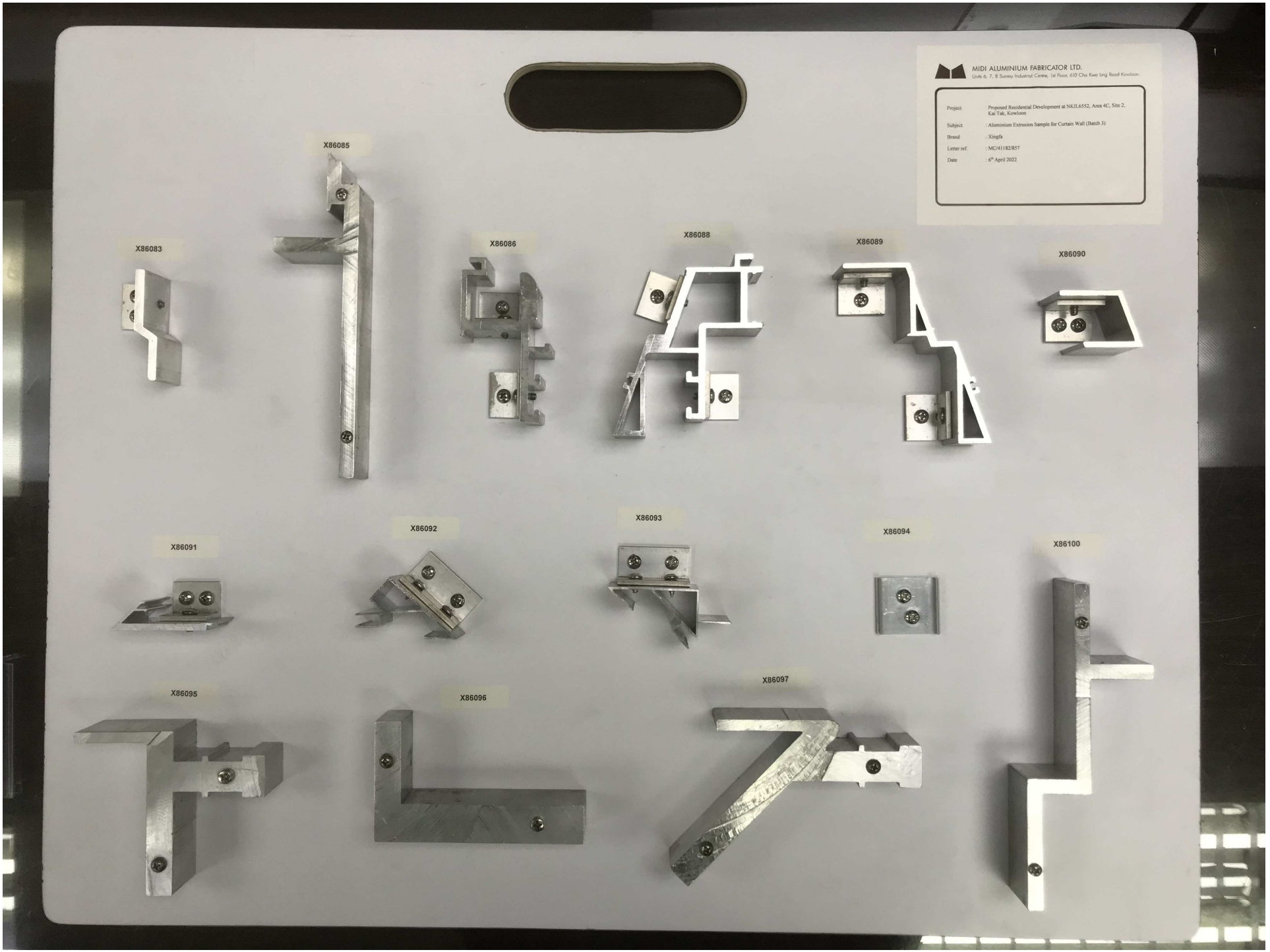
PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES
(PAGE 3 OF 5)

JOB NO. :	J-857	
DRAWN BY : AN	DATE : 18.Oct.2021	
CHKD BY :	SCALE A1: 1:3 A3:	
DWG. NO. :	SD-SP-0007-1	REV. : –

MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunray Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon.

Project	: Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject	: Aluminium Extrusion Sample for Curtain Wall (Batch 3)
Brand	: Xingfa
Letter ref.	: MC/41182/857
Date	: 6th April 2022



美 特 鋁 質 有 限 公 司
MIDI ALUMINIUM FABRICATOR LTD.

Our ref. MC/41278/857

19th May 2022

By Email & Hand

E Man Construction Co. Ltd.
29/F, AIA Tower, 183 Electric Road,
North Point, Hong Kong

Attn.: Mr. Adam Wong

Dear Sir,

Re: Design, Supply & Installation of Curtain Wall, Windows, Cladding and Glass Door for Residential Towers for Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Material Submission of Aluminium Extrusion Sample for Curtain Wall (Batch 4)

Regarding the captioned project, we would like to submit 1 set of Aluminium Extrusion (Xingfa) sample board for Curtain Wall for your comment and approval.

Remark:
1) 1 set of Aluminium Extrusion (Xingfa) sample will be delivered to Mr. Dante Lai directly. (九龍城區承豐道啟德 6552 地盤 (維港一號對面)，黎旨軒先生 收，TEL：9866 7084)
2) The drawing of Section Properties for Curtain Wall is attached. (Dwg No: SD-SP-0005-09)

Should you have any query, please don't hesitate to liaise with us for information.

Thank you for your kind attention.

Yours faithfully,
MIDI ALUMINIUM FABRICATOR LTD.

Francis Mau
Managing Director

Encl - 6 page(s)

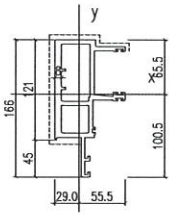
cc. E Man - Mr. Daniel Chan / Mr. Dante Lai (w/e) (Email Only)

FM/MT/HWS/JK/JW/yl

九龍茶果嶺道610號生利工業中心1樓6-8號
Units 6-8, 1st Floor, Sunray Industrial Centre, 610 Cha Kwo Ling Road, Kln.
TEL. (電話) : 2348 9211 FAX. (傳真) : 2772 7666 E-mail Address (電郵) : midi@midiltd.com.hk.

HKQAA 068
UKAS MANAGEMENT SYSTEMS
ISO 9001 : 2015
Certificate No: CC 1795

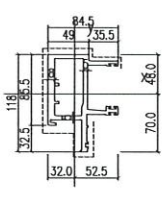
M1 X86047



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. MALE MULLION (AL01)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2773.4
Perimeter (mm) :	163.6
Bounding Box — X (mm):	-28.9 to 55.6
Bounding Box — Y (mm):	-100.3 to 85.7
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	5277140.5
Moments of Inertia — Y (mm⁴) :	1438681.3
Product of Inertia — XY (mm⁴) :	-1287981.7
Radii of gyration — X (mm) :	43.6
Radii of gyration — Y (mm) :	22.8
Principal moments along X-Y (mm⁴) :	5389130.3 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	1426294.5 along [0.0 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 52621.7
Elastic Modulus — Zy (mm³) :	I / x-max= 25675.8

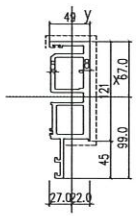
M2 X86048



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. MALE MULLION (AL02)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2118.8
Perimeter (mm) :	706.1
Bounding Box — X (mm):	-32.5 to 52.1
Bounding Box — Y (mm):	-70.0 to 48.0
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	2215208.2
Moments of Inertia — Y (mm⁴) :	1223371.7
Product of Inertia — XY (mm⁴) :	1670542
Radii of gyration — X (mm) :	32.3
Radii of gyration — Y (mm) :	24.0
Principal moments along X-Y (mm⁴) :	2742780.9 along [1.0 0.3]
Principal moments along Y-X (mm⁴) :	1185709.0 along [-0.3 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 37858.8
Elastic Modulus — Zy (mm³) :	I / x-max= 23381.7

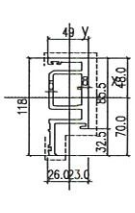
M3 X86049



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. FEMALE MULLION (AL04)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2481.3
Perimeter (mm) :	942.3
Bounding Box — X (mm):	-27.2 to 21.8
Bounding Box — Y (mm):	-98.8 to 97.2
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	6828534.8
Moments of Inertia — Y (mm⁴) :	696762.5
Product of Inertia — XY (mm⁴) :	-304405.4
Radii of gyration — X (mm) :	44.3
Radii of gyration — Y (mm) :	16.8
Principal moments along X-Y (mm⁴) :	6824759.8 along [1.0 -0.1]
Principal moments along Y-X (mm⁴) :	674837.4 along [0.1 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 49803.8
Elastic Modulus — Zy (mm³) :	I / x-max= 25638.6

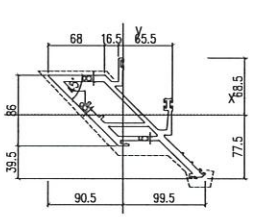
M4 X86050



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. FEMALE MULLION (AL05A)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1859.1
Perimeter (mm) :	701.8
Bounding Box — X (mm):	-26.0 to 23.0
Bounding Box — Y (mm):	-70.2 to 47.8
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	1930205.5
Moments of Inertia — Y (mm⁴) :	585157.2
Product of Inertia — XY (mm⁴) :	-254888.1
Radii of gyration — X (mm) :	32.1
Radii of gyration — Y (mm) :	17.4
Principal moments along X-Y (mm⁴) :	1900287.1 along [1.0 -0.2]
Principal moments along Y-X (mm⁴) :	518075.5 along [0.2 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 27332.5
Elastic Modulus — Zy (mm³) :	I / x-max= 21736.3

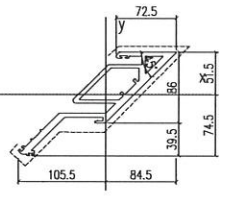
M7 X86051



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. OUTER CORNER MALE MULLION (AL07)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3983.5
Perimeter (mm) :	1139.5
Bounding Box — X (mm):	-83.6 to 88.6
Bounding Box — Y (mm):	-77.8 to 85.7
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	6385159.1
Moments of Inertia — Y (mm⁴) :	8388625.2
Product of Inertia — XY (mm⁴) :	6895000.7
Radii of gyration — X (mm) :	34.9
Radii of gyration — Y (mm) :	45.3
Principal moments along X-Y (mm⁴) :	13960868.8 along [0.8 -0.5]
Principal moments along Y-X (mm⁴) :	11432357.5 along [0.5 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 545188.8
Elastic Modulus — Zy (mm³) :	I / x-max= 84098.1

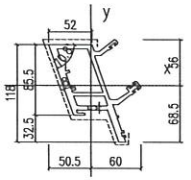
M8 X86052



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. OUTER CORNER FEMALE MULLION (AL08)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2530.8
Perimeter (mm) :	1014.5
Bounding Box — X (mm):	-105.5 to 84.7
Bounding Box — Y (mm):	-74.3 to 51.4
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	3963130.5
Moments of Inertia — Y (mm⁴) :	6888498.4
Product of Inertia — XY (mm⁴) :	-4388249.5
Radii of gyration — X (mm) :	34.9
Radii of gyration — Y (mm) :	46.8
Principal moments along X-Y (mm⁴) :	10010864 along [0.8 -0.6]
Principal moments along Y-X (mm⁴) :	9841643.5 along [-0.6 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 475368.2
Elastic Modulus — Zy (mm³) :	I / x-max= 88245.4

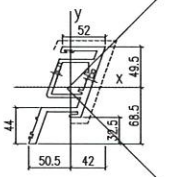
M9 X86053



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. MALE MULLION (AL09)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2495.1
Perimeter (mm) :	903.4
Bounding Box — X (mm):	-50.5 to 85.0
Bounding Box — Y (mm):	-68.8 to 55.8
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	2574786.6
Moments of Inertia — Y (mm⁴) :	1932970.8
Product of Inertia — XY (mm⁴) :	1982244.5
Radii of gyration — X (mm) :	32.1
Radii of gyration — Y (mm) :	27.8
Principal moments along X-Y (mm⁴) :	3903857.6 along [0.8 0.6]
Principal moments along Y-X (mm⁴) :	1124989.6 along [-0.6 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 37526.6
Elastic Modulus — Zy (mm³) :	I / x-max= 30219.5

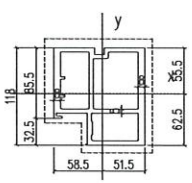
M10 X86054



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. FEMALE MULLION (AL10)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2123
Perimeter (mm) :	753
Bounding Box — X (mm):	-30 to 42
Bounding Box — Y (mm):	-69 to 48
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	2281539
Moments of Inertia — Y (mm⁴) :	1387529
Product of Inertia — XY (mm⁴) :	-1172058
Radii of gyration — X (mm) :	33
Radii of gyration — Y (mm) :	25
Principal moments along X-Y (mm⁴) :	3086784 along [1 -1]
Principal moments along Y-X (mm⁴) :	580984 along [1 1]
Elastic Modulus — Zx (mm³) :	I / y-max= 33230
Elastic Modulus — Zy (mm³) :	J / x-max= 25613

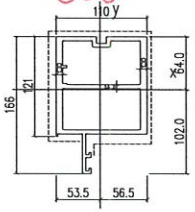
M13 X86055



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE MULLION (AL03)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3508.2
Perimeter (mm) :	1144.9
Bounding Box — X (mm):	-58.8 to 51.4
Bounding Box — Y (mm):	-82.7 to 55.3
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	4899216.5
Moments of Inertia — Y (mm⁴) :	1478964.5
Product of Inertia — XY (mm⁴) :	1053765.1
Radii of gyration — X (mm) :	37.7
Radii of gyration — Y (mm) :	20.4
Principal moments along X-Y (mm⁴) :	4153954.7 along [0.7 -0.7]
Principal moments along Y-X (mm⁴) :	1514236.3 along [0.7 0.7]
Elastic Modulus — Zx (mm³) :	I / y-max= 79082.5
Elastic Modulus — Zy (mm³) :	J / x-max= 66351.7

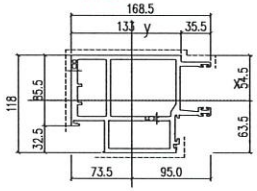
M14 X86056



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE MULLION (AL04A)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3854.2
Perimeter (mm) :	1307.3
Bounding Box — X (mm):	-53.1 to 58.7
Bounding Box — Y (mm):	-101.3 to 84.1
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	7162911.8
Moments of Inertia — Y (mm⁴) :	6114287.5
Product of Inertia — XY (mm⁴) :	-3910835.8
Radii of gyration — X (mm) :	43.1
Radii of gyration — Y (mm) :	40.9
Principal moments along X-Y (mm⁴) :	12629554.8 along [0.8 -0.5]
Principal moments along Y-X (mm⁴) :	2247845.4 along [0.5 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 70298.9
Elastic Modulus — Zy (mm³) :	J / x-max= 161545.8

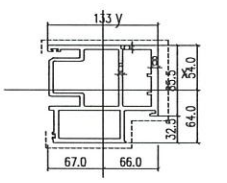
M15 X86057



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. MALE MULLION (AL14)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3889.6
Perimeter (mm) :	1457.0
Bounding Box — X (mm):	-73.3 to 95.2
Bounding Box — Y (mm):	-63.4 to 54.8
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	5884705.2
Moments of Inertia — Y (mm⁴) :	9852568.3
Product of Inertia — XY (mm⁴) :	6888958.9
Radii of gyration — X (mm) :	38.2
Radii of gyration — Y (mm) :	50.3
Principal moments along X-Y (mm⁴) :	15988048.8 along [1.0 -0.2]
Principal moments along Y-X (mm⁴) :	9857304.9 along [0.2 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 88778.1
Elastic Modulus — Zy (mm³) :	J / x-max= 163821.7

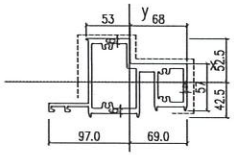
M16 X86058



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. FEMALE MULLION (AL16)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3742.1
Perimeter (mm) :	1435.8
Bounding Box — X (mm):	-67.8 to 68.0
Bounding Box — Y (mm):	-63.8 to 54.2
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	5463270.4
Moments of Inertia — Y (mm⁴) :	7179885.5
Product of Inertia — XY (mm⁴) :	-4298922.2
Radii of gyration — X (mm) :	38.2
Radii of gyration — Y (mm) :	43.8
Principal moments along X-Y (mm⁴) :	11279315.3 along [0.8 0.6]
Principal moments along Y-X (mm⁴) :	7511880.4 along [-0.6 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 85681.8
Elastic Modulus — Zy (mm³) :	J / x-max= 107163.2

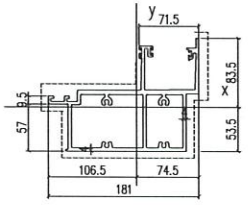
T1 X86059



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. SILL STACK JOINT (AL11)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2858.8
Perimeter (mm) :	1148.8
Bounding Box — X (mm):	-97.0 to 69.0
Bounding Box — Y (mm):	-42.5 to 52.5
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	2408018.9
Moments of Inertia — Y (mm⁴) :	5230910.7
Product of Inertia — XY (mm⁴) :	-1987164.7
Radii of gyration — X (mm) :	29.0
Radii of gyration — Y (mm) :	42.8
Principal moments along X-Y (mm⁴) :	5986212.9 along [1.0 0.1]
Principal moments along Y-X (mm⁴) :	5247467.7 along [-0.1 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 45827.2
Elastic Modulus — Zy (mm³) :	J / x-max= 53886.8

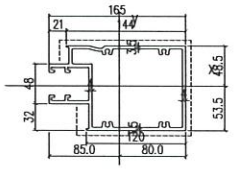
T2 X86060



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. GUTTER STACK JOINT (AL12)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3175.1
Perimeter (mm) :	1563.3
Bounding Box — X (mm):	-106.3 to 74.7
Bounding Box — Y (mm):	-53.3 to 83.7
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	4358988.8
Moments of Inertia — Y (mm⁴) :	8192586.5
Product of Inertia — XY (mm⁴) :	-1948832.8
Radii of gyration — X (mm) :	37.0
Radii of gyration — Y (mm) :	50.8
Principal moments along X-Y (mm⁴) :	10496826.4 along [0.8 0.3]
Principal moments along Y-X (mm⁴) :	6053637.3 along [-0.3 0.9]
Elastic Modulus — Zx (mm³) :	I / y-max= 52634.3
Elastic Modulus — Zy (mm³) :	J / x-max= 77082.4

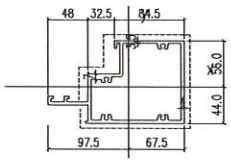
T3 X86061



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL13)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3282.4
Perimeter (mm) :	1257.0
Bounding Box — X (mm):	-85.0 to 80.0
Bounding Box — Y (mm):	-53.6 to 48.4
Centroid — X (mm) :	0.0000
Centroid — Y (mm) :	0.0000
Moments of Inertia — X (mm⁴) :	3424643.6
Moments of Inertia — Y (mm⁴) :	6878247.5
Product of Inertia — XY (mm⁴) :	4,353257.5
Radii of gyration — X (mm) :	32.3
Radii of gyration — Y (mm) :	45.8
Principal moments along X-Y (mm⁴) :	3389122.5 along [1.0 -0.1]
Principal moments along Y-X (mm⁴) :	7027808.8 along [0.1 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 63797.2
Elastic Modulus — Zy (mm³) :	I / x-max= 83035.2

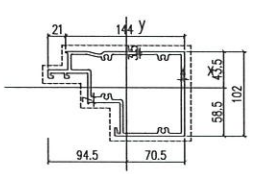
T4 X86062



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL15)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2103.9
Perimeter (mm) :	1086.1
Bounding Box — X (mm):	-87.7 to 67.3
Bounding Box — Y (mm):	-43.9 to 56.1
Centroid — X (mm) :	0.0000
Centroid — Y (mm) :	0.0000
Moments of Inertia — X (mm⁴) :	2007733.2
Moments of Inertia — Y (mm⁴) :	4957137.8
Product of Inertia — XY (mm⁴) :	-2450110.7
Radii of gyration — X (mm) :	30.9
Radii of gyration — Y (mm) :	48.5
Principal moments along X-Y (mm⁴) :	5734597.1 along [1.0 -0.3]
Principal moments along Y-X (mm⁴) :	1230142.9 along [0.3 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 40487.2
Elastic Modulus — Zy (mm³) :	J / x-max= 50738.1

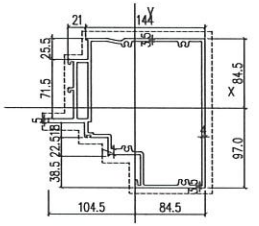
T5 X86063



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL16)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2197.8
Perimeter (mm) :	1139.0
Bounding Box — X (mm):	-84.7 to 70.3
Bounding Box — Y (mm):	-58.6 to 43.4
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	2873888.9
Moments of Inertia — Y (mm⁴) :	5537213.8
Product of Inertia — XY (mm⁴) :	3134071.8
Radii of gyration — X (mm) :	36.2
Radii of gyration — Y (mm) :	50.2
Principal moments along X-Y (mm⁴) :	9455786.8 along [0.8 -0.5]
Principal moments along Y-X (mm⁴) :	3955213.8 along [0.5 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 48047.8
Elastic Modulus — Zy (mm³) :	J / x-max= 58484.4

T7 X86064



COLOUR:Dark Grey
EXTRUSION MARK:EXTRUDED ALUM. TRANSOM (AL17)
GRADE: 6063-T6

MOSS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3327.8
Perimeter (mm) :	1662.2
Bounding Box — X (mm):	-104.5 to 84.4
Bounding Box — Y (mm):	-96.8 to 84.4
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	12155116.9
Moments of Inertia — Y (mm⁴) :	12162519.1
Product of Inertia — XY (mm⁴) :	10815523.3
Radii of gyration — X (mm) :	60.4
Radii of gyration — Y (mm) :	60.5
Principal moments along X-Y (mm⁴) :	16305988.4 along [0.7 -0.7]
Principal moments along Y-X (mm⁴) :	7480040.8 along [0.7 0.7]
Elastic Modulus — Zx (mm³) :	I / y-max= 125887.2
Elastic Modulus — Zy (mm³) :	J / x-max= 119287.3

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.--- Finished Floor Level
2. S.F.L.--- Structural Floor Level
3. /B --- Reversed Detail

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

REV.	DATE	DESCRIPTION	BY
E	25.Nov.2021	GENERAL REVISION	
D	22.Nov.2021	GENERAL REVISION	
C	13.Nov.2021	GENERAL REVISION	
B	8.Nov.2021	GENERAL REVISION	
A	18.Oct.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

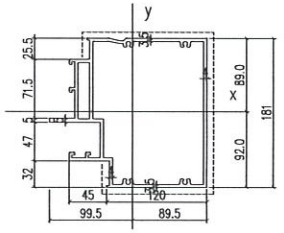
PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES (PAGE 1 OF 5)

JOB NO. :	J-857
DRAWN BY : AN	DATE : 18.Oct.2021
CHKD BY :	SCALE A1: 1:3 A3:
DWG. NO. : SD-SP-0005	REV. : –

T:\Jobs\J-857\3. Submission\1. Shop Drawing\3_Curtain Wall\20220416\2 TOWER 1~8,L SHOP DRAWINGS FOR CURTAIN WALL\04.16\1.TOWER 1~8,L SHOP DRAWINGS-NOTES, DETAIL2022-4-16.dwg

T8 X86065

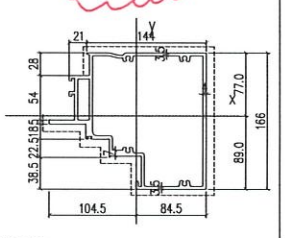


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. TRANSOM (AL72)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3498.7
Perimeter (mm) :	1781.0
Bounding Box – X (mm):	-99.5 to 89.4
Bounding Box – Y (mm):	-92.0 to 89.2
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	13773053.4
Moments of Inertia – Y (mm⁴) :	12978567.0
Product of Inertia – XY (mm⁴) :	8394447.1
Radii of gyration – X (mm) :	63.1
Radii of gyration – Y (mm) :	61.3
Principal moments along X-Y (mm⁴) :	14117536.6 along [0.8 0.5]
Principal moments along Y-X (mm⁴) :	12634483.8 along [-0.5 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 198995.7
Elastic Modulus – Zy (mm³) :	J / x-max= 130410.4

T9 X86066

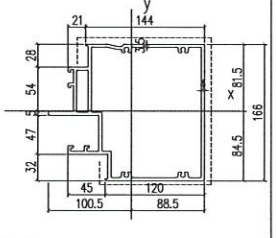


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. TRANSOM (AL72)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3181.1
Perimeter (mm) :	1576.5
Bounding Box – X (mm):	-104.5 to 84.3
Bounding Box – Y (mm):	-89.1 to 76.9
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	9853980.9
Moments of Inertia – Y (mm⁴) :	11390636.9
Product of Inertia – XY (mm⁴) :	6898270.3
Radii of gyration – X (mm) :	55.6
Radii of gyration – Y (mm) :	59.7
Principal moments along X-Y (mm⁴) :	18271743.6 along [0.8 -0.5]
Principal moments along Y-X (mm⁴) :	1296854.3 along [0.5 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 109307.7
Elastic Modulus – Zy (mm³) :	J / x-max= 108955.9

T10 X86067

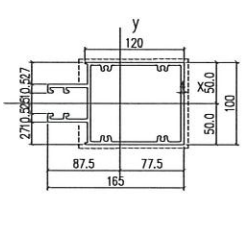


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. TRANSOM (AL72)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3284.3
Perimeter (mm) :	1664.8
Bounding Box – X (mm):	-100.3 to 89.6
Bounding Box – Y (mm):	-84.8 to 81.4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	11024824.8
Moments of Inertia – Y (mm⁴) :	13041453.8
Product of Inertia – XY (mm⁴) :	8148833.0
Radii of gyration – X (mm) :	58.1
Radii of gyration – Y (mm) :	63.7
Principal moments along X-Y (mm⁴) :	16725664.0 along [0.8 -0.6]
Principal moments along Y-X (mm⁴) :	13339974.2 along [0.6 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 130276.8
Elastic Modulus – Zy (mm³) :	J / x-max= 130157.8

T11 X86068

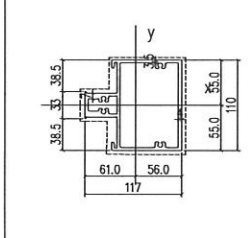


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL268)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2787.8
Perimeter (mm) :	1302.3
Bounding Box – X (mm):	-87.5 to 77.5
Bounding Box – Y (mm):	-50.0 to 50.0
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	3088485.3
Moments of Inertia – Y (mm⁴) :	6516952.1
Product of Inertia – XY (mm⁴) :	1315.5
Radii of gyration – X (mm) :	33.2
Radii of gyration – Y (mm) :	48.3
Principal moments along X-Y (mm⁴) :	3088485.3 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	6516952.1 along [0.0 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 61798.8
Elastic Modulus – Zy (mm³) :	J / x-max= 74483.2

T12 X86069

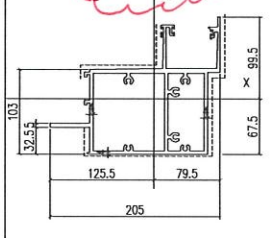


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. INTERMEDIATE TRANSOM (AL272)
GRADE:

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2571.3
Perimeter (mm) :	1648.4
Bounding Box – X (mm):	-61.0 to 56.0
Bounding Box – Y (mm):	-55.0 to 55.0
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	2761018.3
Moments of Inertia – Y (mm⁴) :	3180574.4
Product of Inertia – XY (mm⁴) :	90.8
Radii of gyration – X (mm) :	32.7
Radii of gyration – Y (mm) :	35.1
Principal moments along X-Y (mm⁴) :	2761018.2 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	3180574.5 along [0.0 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 50198.1
Elastic Modulus – Zy (mm³) :	J / x-max= 51787.3

T13 X86070

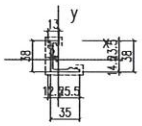


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. GUTTER STACK JOINT (AL105)
GRADE:

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3826.5
Perimeter (mm) :	1888.4
Bounding Box – X (mm):	-125.5 to 79.5
Bounding Box – Y (mm):	-67.5 to 99.7
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	6302053.3
Moments of Inertia – Y (mm⁴) :	11492291.5
Product of Inertia – XY (mm⁴) :	-2861742.7
Radii of gyration – X (mm) :	40.6
Radii of gyration – Y (mm) :	54.8
Principal moments along X-Y (mm⁴) :	6887977.2 along [0.9 0.5]
Principal moments along Y-X (mm⁴) :	11306867.5 along [-0.5 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 84238.9
Elastic Modulus – Zy (mm³) :	J / x-max= 91524.7

X86071

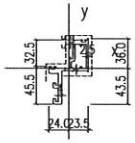


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. CAPPING (AL17)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	301
Perimeter (mm) :	203
Bounding Box – X (mm):	-12 to 28
Bounding Box – Y (mm):	-15 to 23
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	5334.0
Moments of Inertia – Y (mm⁴) :	31288
Product of Inertia – XY (mm⁴) :	23509
Radii of gyration – X (mm) :	13
Radii of gyration – Y (mm) :	10
Principal moments along X-Y (mm⁴) :	48334 along [1 1]
Principal moments along Y-X (mm⁴) :	18294 along [-1 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 2294
Elastic Modulus – Zy (mm³) :	J / x-max= 1219

X86072

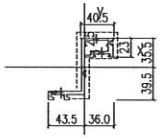


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. OPEANABLE WINDOW SASH (AL24)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	895.5
Perimeter (mm) :	427.5
Bounding Box – X (mm):	-24.0 to 23.5
Bounding Box – Y (mm):	-43.5 to 38.0
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	333614.8
Moments of Inertia – Y (mm⁴) :	137288.1
Product of Inertia – XY (mm⁴) :	-146398.5
Radii of gyration – X (mm) :	21.9
Radii of gyration – Y (mm) :	14.1
Principal moments along X-Y (mm⁴) :	411708.1 along [0.8 -0.5]
Principal moments along Y-X (mm⁴) :	59497.8 along [0.5 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 7607.5
Elastic Modulus – Zy (mm³) :	J / x-max= 5735.9

X86073

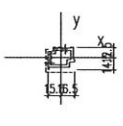


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. OPEANABLE WINDOW SASH (AL33)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	717.7
Perimeter (mm) :	488.1
Bounding Box – X (mm):	-13.8 to 35.9
Bounding Box – Y (mm):	-38.5 to 35.5
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	520989.2
Moments of Inertia – Y (mm⁴) :	332824.8
Product of Inertia – XY (mm⁴) :	-295307.5
Radii of gyration – X (mm) :	26.5
Radii of gyration – Y (mm) :	21.5
Principal moments along X-Y (mm⁴) :	758118.8 along [0.8 -0.6]
Principal moments along Y-X (mm⁴) :	77769.8 along [0.6 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 12727.9
Elastic Modulus – Zy (mm³) :	J / x-max= 9425.5

X86074

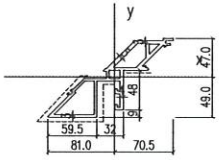


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR (AL34)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	298.5
Perimeter (mm) :	197.8
Bounding Box – X (mm):	-15.4 to 16.6
Bounding Box – Y (mm):	-14.6 to 12.4
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	28928.7
Moments of Inertia – Y (mm⁴) :	32666.4
Product of Inertia – XY (mm⁴) :	-3344.2
Radii of gyration – X (mm) :	9.8
Radii of gyration – Y (mm) :	10.5
Principal moments along X-Y (mm⁴) :	33190.3 along [1.0 0.2]
Principal moments along Y-X (mm⁴) :	28404.8 along [-0.2 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 1727.7
Elastic Modulus – Zy (mm³) :	J / x-max= 1966.6

X86075

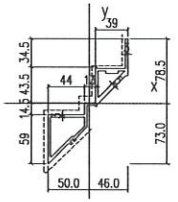


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUMINIUM OUTER CORNER EDGE PROTECTION (AL42)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1717.2
Perimeter (mm) :	842.8
Bounding Box – X (mm):	-80.2 to 70.6
Bounding Box – Y (mm):	-48.9 to 48.8
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	1102208.2
Moments of Inertia – Y (mm⁴) :	1261575.4
Product of Inertia – XY (mm⁴) :	-1070201.3
Radii of gyration – X (mm) :	25.8
Radii of gyration – Y (mm) :	27.1
Principal moments along X-Y (mm⁴) :	2062216.4 along [0.8 0.6]
Principal moments along Y-X (mm⁴) :	301319.1 along [-0.6 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 30897.4
Elastic Modulus – Zy (mm³) :	J / x-max= 29195.5

X86076

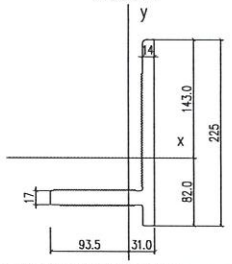


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUMINIUM OUTER CORNER EDGE PROTECTION (AL79)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1274.2
Perimeter (mm) :	735.7
Bounding Box – X (mm):	-48.8 to 48.2
Bounding Box – Y (mm):	-72.8 to 78.6
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	1803388.1
Moments of Inertia – Y (mm⁴) :	1267372.4
Product of Inertia – XY (mm⁴) :	-1308621.7
Radii of gyration – X (mm) :	37.8
Radii of gyration – Y (mm) :	31.5
Principal moments along X-Y (mm⁴) :	2838245.0 along [0.8 -0.6]
Principal moments along Y-X (mm⁴) :	1432549 along [0.6 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 27954.7
Elastic Modulus – Zy (mm³) :	J / x-max= 25488.9

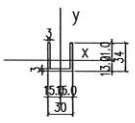
X86077



EXTRUSION MARK: EXTRUDED ALUM. ANGLE BRACKET (AL42)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	5298.3
Perimeter (mm) :	869.2
Bounding Box – X (mm):	-83.4 to 31.1
Bounding Box – Y (mm):	-82.1 to 142.9
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	21264372.5
Moments of Inertia – Y (mm⁴) :	6913505.6
Product of Inertia – XY (mm⁴) :	-8130458.5
Radii of gyration – X (mm) :	63.4
Radii of gyration – Y (mm) :	36.1
Principal moments along X-Y (mm⁴) :	23826588.1 along [0.9 -0.3]
Principal moments along Y-X (mm⁴) :	4851980.0 along [0.3 0.9]
Elastic Modulus – Zx (mm³) :	I / y-max= 148786.2
Elastic Modulus – Zy (mm³) :	J / x-max= 74208.4

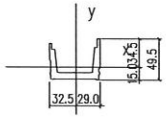
X86078



EXTRUSION MARK: EXTRUDED ALUM. U-CHANNEL (FOR GLASS BARRIER) (AL48)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	275.5
Perimeter (mm) :	108.1
Bounding Box – X (mm):	-15.0 to 15.0
Bounding Box – Y (mm):	-12.9 to 21.1
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	32300.1
Moments of Inertia – Y (mm⁴) :	4027.9
Product of Inertia – XY (mm⁴) :	0.0
Radii of gyration – X (mm) :	10.8
Radii of gyration – Y (mm) :	3.2
Principal moments along X-Y (mm⁴) :	32300.1 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	4027.9 along [0.0 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 1538.1
Elastic Modulus – Zy (mm³) :	J / x-max= 2711.0

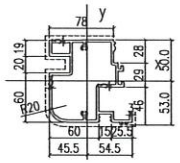
X86079



EXTRUSION MARK: EXTRUDED ALUM. GUTTER SLEEVE (AL53)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	955.5
Perimeter (mm) :	282.9
Bounding Box – X (mm):	-32.3 to 29.0
Bounding Box – Y (mm):	-15.1 to 34.3
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	147744.3
Moments of Inertia – Y (mm⁴) :	650025.4
Product of Inertia – XY (mm⁴) :	-285981.7
Radii of gyration – X (mm) :	12.4
Radii of gyration – Y (mm) :	22.4
Principal moments along X-Y (mm⁴) :	1142588.8 along [1.0 0.1]
Principal moments along Y-X (mm⁴) :	655480.8 along [-0.1 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 4307.9
Elastic Modulus – Zy (mm³) :	J / x-max= 14983.5

X86080

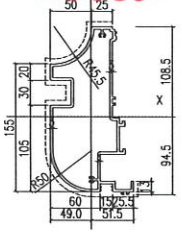


COLOUR:Silver

EXTRUSION MARK: ALUM. VERTICAL FEATURE (AL70A)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1580.0
Perimeter (mm) :	1052.7
Bounding Box – X (mm):	-45.6 to 54.7
Bounding Box – Y (mm):	-53.1 to 48.9
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	2527508.2
Moments of Inertia – Y (mm⁴) :	1479917.8
Product of Inertia – XY (mm⁴) :	2018447.7
Radii of gyration – X (mm) :	39.9
Radii of gyration – Y (mm) :	30.6
Principal moments along X-Y (mm⁴) :	3760982.4 along [0.8 0.6]
Principal moments along Y-X (mm⁴) :	1246488.8 along [-0.6 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 30402.0
Elastic Modulus – Zy (mm³) :	J / x-max= 26888.3

X86081

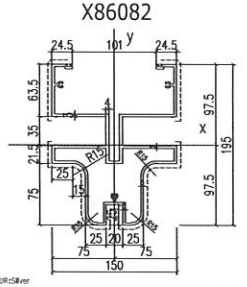


COLOUR:Dark Bronze

EXTRUSION MARK: ALUM. VERTICAL FEATURE (AL72)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2071.2
Perimeter (mm) :	1399.7
Bounding Box – X (mm):	-48.5 to 51.4
Bounding Box – Y (mm):	-94.4 to 108.6
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	8819238.9
Moments of Inertia – Y (mm⁴) :	1987108.8
Product of Inertia – XY (mm⁴) :	2780918.8
Radii of gyration – X (mm) :	64.5
Radii of gyration – Y (mm) :	30.3
Principal moments along X-Y (mm⁴) :	8632051.6 along [1.0 0.3]
Principal moments along Y-X (mm⁴) :	1985746.3 along [0.3 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 79398.4
Elastic Modulus – Zy (mm³) :	J / x-max= 36835.5

X86082



COLOUR:Silver

EXTRUSION MARK: ALUM. VERTICAL FEATURE (AL78)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3003
Perimeter (mm) :	1947
Bounding Box – X (mm):	-75 to 75
Bounding Box – Y (mm):	-97 to 98
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	8585698
Moments of Inertia – Y (mm⁴) :	6430190
Product of Inertia – XY (mm⁴) :	-304
Radii of gyration – X (mm) :	53
Radii of gyration – Y (mm) :	46
Principal moments along X-Y (mm⁴) :	8585688 along [1 0]
Principal moments along Y-X (mm⁴) :	6430190 along [0 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 87990
Elastic Modulus – Zy (mm³) :	J / x-max= 85601

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.— Finished Floor Level
2. S.F.L.— Structural Floor Level
3. (7/8) — Reversed Detail

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

REV.	DATE	DESCRIPTION	BY
D	22.Nov.2021	GENERAL REVISION	
C	13.Nov.2021	GENERAL REVISION	
B	8.Nov.2021	GENERAL REVISION	
A	18.Oct.2021	GENERAL REVISION	

CLIENT :

MARBLE EDGE INVESTMENT LTD.

ARCHITECT :

RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :

C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :

裕民建築有限公司

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

PROJECT :

PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

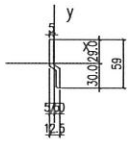
TITLE :

SECTION PROPERTIES (PAGE 2 OF 5)

JOB NO. :	J–857
DRAWN BY : AN	DATE : 18.Oct.2021
CHKD BY :	SCALE: A1: 1:3 A3:
DWG. NO. : SD-SP-0006	REV. : –

T:\Job\J-857\3 Submission\ 1 Shop Drawing\3_Curtain Wall\20220416\2 TOWER 1~8,1 SHOP DRAWINGS FOR CURTAIN WALL\04.16.1 TOWER 1~8,1 SHOP DRAWINGS-NOTES, DETAIL2022.4.16.dwg

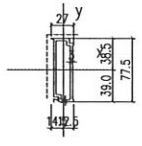
X86083



EXTRUSION MARK: EXTRUDED ALUM. BRACKET (AL76)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	297.9
Perimeter (mm) :	133.9
Bounding Box — X (mm):	-5.8 to 6.9
Bounding Box — Y (mm):	-29.9 to 28.0
Centroid — X (mm) :	0.0000
Centroid — Y (mm) :	0.0000
Moments of Inertia — X (mm⁴) :	79035.5
Moments of Inertia — Y (mm⁴) :	4548.3
Product of Inertia — XY (mm⁴) :	1533.1
Radii of gyration — X (mm) :	16.3
Radii of gyration — Y (mm) :	3.9
Principal moments along X-Y (mm⁴) :	80633.4 along [1.0 0.2]
Principal moments along Y-X (mm⁴) :	1536.4 along [-0.2 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 2981.3
Elastic Modulus — Zy (mm³) :	J / x-max= 663.3

X86084

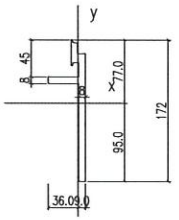


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR (AL86)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	576.8
Perimeter (mm) :	353.1
Bounding Box — X (mm):	-14.8 to 12.4
Bounding Box — Y (mm):	-38.8 to 38.5
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	374485.4
Moments of Inertia — Y (mm⁴) :	48107.8
Product of Inertia — XY (mm⁴) :	9573.5
Radii of gyration — X (mm) :	25.5
Radii of gyration — Y (mm) :	9.1
Principal moments along X-Y (mm⁴) :	376780.0 along [1.0 0.1]
Principal moments along Y-X (mm⁴) :	47827.3 along [-0.1 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 41352.7
Elastic Modulus — Zy (mm³) :	J / x-max= 3294.4

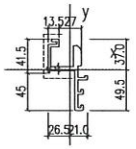
X86085



EXTRUSION MARK: EXTRUDED ALUM. BRACKET (AL81)
GRADE: 6061-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1757.7
Perimeter (mm) :	454.8
Bounding Box — X (mm):	-36.1 to 8.9
Bounding Box — Y (mm):	-85.1 to 76.9
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	3831245.4
Moments of Inertia — Y (mm⁴) :	162324.1
Product of Inertia — XY (mm⁴) :	308300.6
Radii of gyration — X (mm) :	47.3
Radii of gyration — Y (mm) :	9.8
Principal moments along X-Y (mm⁴) :	3858087.5 along [1.0 0.1]
Principal moments along Y-X (mm⁴) :	140272.0 along [-0.1 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 41352.7
Elastic Modulus — Zy (mm³) :	J / x-max= 4638.0

X86086

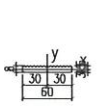


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. OPENABLE FRAME (AL82)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	859.3
Perimeter (mm) :	388.9
Bounding Box — X (mm):	-20.4 to 21.1
Bounding Box — Y (mm):	-48.5 to 37.0
Centroid — X (mm) :	0.0000
Centroid — Y (mm) :	0.0000
Moments of Inertia — X (mm⁴) :	634878.9
Moments of Inertia — Y (mm⁴) :	160757.1
Product of Inertia — XY (mm⁴) :	115888.8
Radii of gyration — X (mm) :	27.1
Radii of gyration — Y (mm) :	13.7
Principal moments along X-Y (mm⁴) :	685370.0 along [0.9 0.4]
Principal moments along Y-X (mm⁴) :	117295.0 along [-0.4 0.9]
Elastic Modulus — Zx (mm³) :	I / y-max= 8588.2
Elastic Modulus — Zy (mm³) :	J / x-max= 6083.7

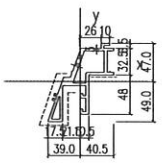
X86087



EXTRUSION MARK: EXTRUDED ALUM. WASHER (AL83)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	419
Perimeter (mm) :	157
Bounding Box — X (mm):	-30 to 30
Bounding Box — Y (mm):	-4 to 4
Centroid — X (mm) :	0.0000
Centroid — Y (mm) :	0.0000
Moments of Inertia — X (mm⁴) :	1778
Moments of Inertia — Y (mm⁴) :	155579
Product of Inertia — XY (mm⁴) :	0
Radii of gyration — X (mm) :	2
Radii of gyration — Y (mm) :	17
Principal moments along X-Y (mm⁴) :	1776 along [1 0]
Principal moments along Y-X (mm⁴) :	155579 along [0 1]
Elastic Modulus — Zx (mm³) :	I / y-max= 367
Elastic Modulus — Zy (mm³) :	J / x-max= 4186

X86088

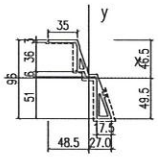


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR (AL87)
GRADE: 6063-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1291.5
Perimeter (mm) :	681.9
Bounding Box — X (mm):	-38.0 to 40.3
Bounding Box — Y (mm):	-48.3 to 46.9
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	887703.1
Moments of Inertia — Y (mm⁴) :	554003.0
Product of Inertia — XY (mm⁴) :	-469178.7
Radii of gyration — X (mm) :	26.3
Radii of gyration — Y (mm) :	20.8
Principal moments along X-Y (mm⁴) :	1225514.9 along [0.8 -0.5]
Principal moments along Y-X (mm⁴) :	216191.2 along [0.5 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 16249.0
Elastic Modulus — Zy (mm³) :	J / x-max= 13738.3

X86089

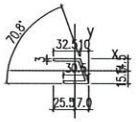


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR (AL78)
GRADE: 6063-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	704.9
Perimeter (mm) :	427.9
Bounding Box — X (mm):	-48.6 to 27.2
Bounding Box — Y (mm):	-49.4 to 46.3
Centroid — X (mm) :	0.0000
Centroid — Y (mm) :	0.0000
Moments of Inertia — X (mm⁴) :	660705.6
Moments of Inertia — Y (mm⁴) :	222080.2
Product of Inertia — XY (mm⁴) :	247998.3
Radii of gyration — X (mm) :	30.6
Radii of gyration — Y (mm) :	17.8
Principal moments along X-Y (mm⁴) :	851675.3 along [0.8 0.5]
Principal moments along Y-X (mm⁴) :	30980.5 along [-0.5 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 13380.5
Elastic Modulus — Zy (mm³) :	J / x-max= 4571.7

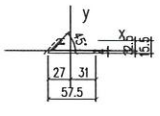
X86090



EXTRUSION MARK: EXTRUDED ALUM. U-CHANNEL (FOR GLASS BARRIER) (AL85)
GRADE: 6063-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	265.1
Perimeter (mm) :	181.0
Bounding Box — X (mm):	-25.7 to 16.9
Bounding Box — Y (mm):	-15.4 to 14.8
Centroid — X (mm) :	0.0
Centroid — Y (mm) :	0.0
Moments of Inertia — X (mm⁴) :	38137.3
Moments of Inertia — Y (mm⁴) :	32827.3
Product of Inertia — XY (mm⁴) :	15414.0
Radii of gyration — X (mm) :	17.9
Radii of gyration — Y (mm) :	11.1
Principal moments along X-Y (mm⁴) :	51133.3 along [0.8 0.6]
Principal moments along Y-X (mm⁴) :	19811.4 along [-0.6 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 2476.1
Elastic Modulus — Zy (mm³) :	J / x-max= 1276.7

X86091

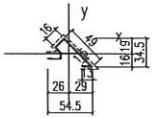


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR (AL91)
GRADE: 6063-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	248
Perimeter (mm) :	165
Bounding Box — X (mm):	-27 to 31
Bounding Box — Y (mm):	-3 to 12
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	2347
Moments of Inertia — Y (mm⁴) :	63072
Product of Inertia — XY (mm⁴) :	3324
Radii of gyration — X (mm) :	3
Radii of gyration — Y (mm) :	16
Principal moments along X-Y (mm⁴) :	2178 along [1 0]
Principal moments along Y-X (mm⁴) :	63242 along [0 1]
Elastic Modulus — Zx (mm³) :	I / y-max= 109
Elastic Modulus — Zy (mm³) :	J / x-max= 2058

X86092

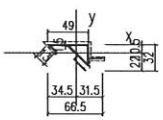


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. CAPPING (AL93)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	170
Perimeter (mm) :	277
Bounding Box — X (mm):	-28 to 29
Bounding Box — Y (mm):	-18 to 19
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	13278
Moments of Inertia — Y (mm⁴) :	38525
Product of Inertia — XY (mm⁴) :	16705
Radii of gyration — X (mm) :	9
Radii of gyration — Y (mm) :	15
Principal moments along X-Y (mm⁴) :	9285 along [1 0]
Principal moments along Y-X (mm⁴) :	42470 along [0 1]
Elastic Modulus — Zx (mm³) :	I / y-max= 708
Elastic Modulus — Zy (mm³) :	J / x-max= 1236

X86093

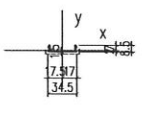


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. CAPPING (AL92)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	194
Perimeter (mm) :	316
Bounding Box — X (mm):	-33 to 32
Bounding Box — Y (mm):	-22 to 19
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	18133
Moments of Inertia — Y (mm⁴) :	49885
Product of Inertia — XY (mm⁴) :	18217
Radii of gyration — X (mm) :	9
Radii of gyration — Y (mm) :	16
Principal moments along X-Y (mm⁴) :	9285 along [1 0]
Principal moments along Y-X (mm⁴) :	58233 along [0 1]
Elastic Modulus — Zx (mm³) :	I / y-max= 741
Elastic Modulus — Zy (mm³) :	J / x-max= 1436

X86094

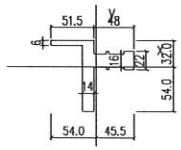


COLOUR:Silver

EXTRUSION MARK: EXTRUDED ALUM. CAPPING (AL93)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	71
Perimeter (mm) :	100
Bounding Box — X (mm):	-17 to 17
Bounding Box — Y (mm):	-2 to 7
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	308
Moments of Inertia — Y (mm⁴) :	9472
Product of Inertia — XY (mm⁴) :	2
Radii of gyration — X (mm) :	2
Radii of gyration — Y (mm) :	12
Principal moments along X-Y (mm⁴) :	308 along [1 0]
Principal moments along Y-X (mm⁴) :	9472 along [0 1]
Elastic Modulus — Zx (mm³) :	I / y-max= 45
Elastic Modulus — Zy (mm³) :	J / x-max= 345

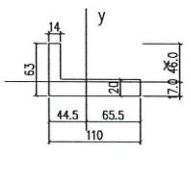
X86095



EXTRUSION MARK: EXTRUDED ALUM. CORNER HOOK-ON BRACKET (AL94)
GRADE: 6061-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2286.1
Perimeter (mm) :	380.3
Bounding Box — X (mm):	-54.1 to 45.4
Bounding Box — Y (mm):	-54.1 to 31.9
Centroid — X (mm) :	0.00
Centroid — Y (mm) :	0.00
Moments of Inertia — X (mm⁴) :	1155059.7
Moments of Inertia — Y (mm⁴) :	1022671.0
Product of Inertia — XY (mm⁴) :	-529521.0
Radii of gyration — X (mm) :	22.5
Radii of gyration — Y (mm) :	21.5
Principal moments along X-Y (mm⁴) :	1177984.7 along [0.9 -0.4]
Principal moments along Y-X (mm⁴) :	1030780.1 along [0.4 0.9]
Elastic Modulus — Zx (mm³) :	I / y-max= 21309.2
Elastic Modulus — Zy (mm³) :	J / x-max= 19459.2

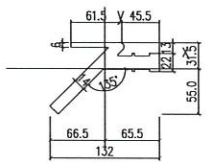
X86096



EXTRUSION MARK: EXTRUDED ALUM. ANGLE BRACKET (AL95)
GRADE: 6061-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2801.8
Perimeter (mm) :	344.7
Bounding Box — X (mm):	-44.7 to 65.3
Bounding Box — Y (mm):	-16.8 to 46.2
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	634832.8
Moments of Inertia — Y (mm⁴) :	3318510.0
Product of Inertia — XY (mm⁴) :	714477.0
Radii of gyration — X (mm) :	15.1
Radii of gyration — Y (mm) :	34.4
Principal moments along X-Y (mm⁴) :	4543540 along [1.0 -0.2]
Principal moments along Y-X (mm⁴) :	3404888.3 along [0.2 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 13721.0
Elastic Modulus — Zy (mm³) :	J / x-max= 5077.4

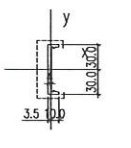
X86097



EXTRUSION MARK: EXTRUDED ALUM. CORNER HOOK-ON BRACKET (AL96)
GRADE: 6061-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2826.2
Perimeter (mm) :	478.8
Bounding Box — X (mm):	-66.4 to 65.7
Bounding Box — Y (mm):	-55.0 to 31.7
Centroid — X (mm) :	0.00
Centroid — Y (mm) :	0.00
Moments of Inertia — X (mm⁴) :	1354858.3
Moments of Inertia — Y (mm⁴) :	3530051.6
Product of Inertia — XY (mm⁴) :	-1343882.1
Radii of gyration — X (mm) :	21.5
Radii of gyration — Y (mm) :	34.7
Principal moments along X-Y (mm⁴) :	7141727.3 along [0.8 0.4]
Principal moments along Y-X (mm⁴) :	4171132.0 along [-0.4 0.8]
Elastic Modulus — Zx (mm³) :	I / y-max= 24033.2
Elastic Modulus — Zy (mm³) :	J / x-max= 53086.4

X86098

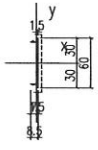


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. CAPPING (AL97)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	301.4
Perimeter (mm) :	188.5
Bounding Box — X (mm):	-3.3 to 8.8
Bounding Box — Y (mm):	-30.0 to 30.0
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	121096.7
Moments of Inertia — Y (mm⁴) :	2725.4
Product of Inertia — XY (mm⁴) :	0.0
Radii of gyration — X (mm) :	20.0
Radii of gyration — Y (mm) :	3.0
Principal moments along X-Y (mm⁴) :	121096.7 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	2725.4 along [0.0 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 4026.8
Elastic Modulus — Zy (mm³) :	J / x-max= 276.5

H132048

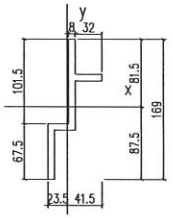


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. CAPPING (AL98)
GRADE: 6063-T5

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	111
Perimeter (mm) :	151
Bounding Box — X (mm):	-7 to 1
Bounding Box — Y (mm):	-30 to 30
Centroid — X (mm) :	0
Centroid — Y (mm) :	0
Moments of Inertia — X (mm⁴) :	38796
Moments of Inertia — Y (mm⁴) :	345
Product of Inertia — XY (mm⁴) :	-7
Radii of gyration — X (mm) :	19
Radii of gyration — Y (mm) :	2
Principal moments along X-Y (mm⁴) :	38796 along [1 0]
Principal moments along Y-X (mm⁴) :	343 along [0 1]
Elastic Modulus — Zx (mm³) :	I / y-max= 1292
Elastic Modulus — Zy (mm³) :	J / x-max= 45

X86100



EXTRUSION MARK: EXTRUDED ALUM. BRACKET (AL99)
GRADE: 6061-T6

MISS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1907.8
Perimeter (mm) :	695.6
Bounding Box — X (mm):	-33.4 to 41.8
Bounding Box — Y (mm):	-87.6 to 81.4
Centroid — X (mm) :	0.0000
Centroid — Y (mm) :	0.0000
Moments of Inertia — X (mm⁴) :	3988736.8
Moments of Inertia — Y (mm⁴) :	437389.7
Product of Inertia — XY (mm⁴) :	-949137.4
Radii of gyration — X (mm) :	45.0
Radii of gyration — Y (mm) :	15.0
Principal moments along X-Y (mm⁴) :	3929899.2 along [1.0 -0.3]
Principal moments along Y-X (mm⁴) :	1792118.4 along [0.3 1.0]
Elastic Modulus — Zx (mm³) :	I / y-max= 41868.8
Elastic Modulus — Zy (mm³) :	J / x-max= 10520.0

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.--- Finished Floor Level
2. S.F.L.--- Structural Floor Level
3. (7B) --- Reversed Detail

X1 ..... DETAIL MARK NO.
X001 ..... SHEET SHEET NO.

REV.	DATE	DESCRIPTION	BY
D	22.Nov.2021	GENERAL REVISION	
C	13.Nov.2021	GENERAL REVISION	
B	8.Nov.2021	GENERAL REVISION	
A	18.Oct.2021	GENERAL REVISION	

CLIENT :

MARBLE EDGE INVESTMENT LTD.

ARCHITECT :

RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :

C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :

裕民建築有限公司

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

PROJECT :

PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

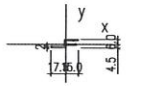
TITLE :

SECTION PROPERTIES (PAGE 3 OF 5)

JOB NO. :	J-857	
DRAWN BY : AN	DATE : 18.Oct.2021	
CHKD BY :	SCALE A1: 1:3 A3:	
DWG. NO. : SD-SP-0007		REV. : –

T:\Jobs\J-857\3 Submission\1 Shop Drawing\3_Curtain Wall\20220418 2 TOWER 1 - 8,1 SHOP DRAWINGS FOR CURTAIN WALL\04 18 1 TOWER 1 - 8,1 SHOP DRAWINGS-NOTES, DETAIL 2022.4.16.dwg

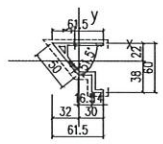
X86101



EXTRUSION MARK:EXTRUDED ALUM. ADAPTOR (AL1162)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	96.1
Perimeter (mm) :	108.1
Bounding Box – X (mm):	−17.8 to 15.2
Bounding Box – Y (mm):	−4.3 to 6.0
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	1084.6
Moments of Inertia – Y (mm⁴) :	4547.7
Product of Inertia – XY (mm⁴) :	−1724.7
Radii of gyration – X (mm) :	3.4
Radii of gyration – Y (mm) :	6.3
Principal moments along X-Y (mm⁴) :	584.9 along [1.0 0.1]
Principal moments along Y-X (mm⁴) :	5067.4 along [-0.1 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 182.9
Elastic Modulus – Zy (mm³) :	I / x-max= 321.7

X86102

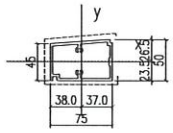


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. ADAPTOR (AL1161)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	595
Perimeter (mm) :	330
Bounding Box – X (mm):	−32 to 30
Bounding Box – Y (mm):	−36 to 22
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	229992
Moments of Inertia – Y (mm⁴) :	186720
Product of Inertia – XY (mm⁴) :	110190
Radii of gyration – X (mm) :	20
Radii of gyration – Y (mm) :	17
Principal moments along X-Y (mm⁴) :	312958 along [1 1]
Principal moments along Y-X (mm⁴) :	83213 along [-1 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 8032
Elastic Modulus – Zy (mm³) :	I / x-max= 5835

X86103

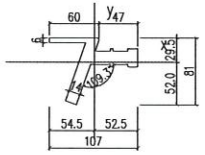


COLOUR:Dark Bronze

EXTRUSION MARK: ALUM.VERTICAL FEATURE (AL1312)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	855.8
Perimeter (mm) :	543.1
Bounding Box – X (mm):	−37.8 to 37.2
Bounding Box – Y (mm):	−23.5 to 26.5
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	281725.2
Moments of Inertia – Y (mm⁴) :	558119.9
Product of Inertia – XY (mm⁴) :	−213613.9
Radii of gyration – X (mm) :	18.7
Radii of gyration – Y (mm) :	26.3
Principal moments along X-Y (mm⁴) :	200081.3 along [1.0 0.1]
Principal moments along Y-X (mm⁴) :	556763.8 along [-0.1 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 10603.3
Elastic Modulus – Zy (mm³) :	I / x-max= 14794.6

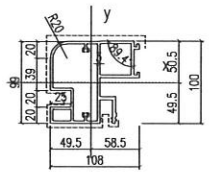
X86104



EXTRUSION MARK: EXTRUDED ALUM. HOOK (AL1131)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2385.8
Perimeter (mm) :	488.7
Bounding Box – X (mm):	−54.8 to 52.4
Bounding Box – Y (mm):	−51.8 to 29.3
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	867348.1
Moments of Inertia – Y (mm⁴) :	1586008.6
Product of Inertia – XY (mm⁴) :	−388424.6
Radii of gyration – X (mm) :	26.1
Radii of gyration – Y (mm) :	25.8
Principal moments along X-Y (mm⁴) :	854072.1 along [0.9 0.4]
Principal moments along Y-X (mm⁴) :	1788198.5 along [-0.4 0.9]
Elastic Modulus – Zx (mm³) :	I / y-max= 10868.9
Elastic Modulus – Zy (mm³) :	I / x-max= 29758.7

X86105

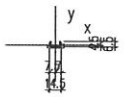


COLOUR:Silver

EXTRUSION MARK:ALUM. VERTICAL FEATURE (AL1124)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1784.9
Perimeter (mm) :	1188.6
Bounding Box – X (mm):	−49.3 to 58.5
Bounding Box – Y (mm):	−49.7 to 50.3
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	2113372.7
Moments of Inertia – Y (mm⁴) :	1889695.1
Product of Inertia – XY (mm⁴) :	−1039531.2
Radii of gyration – X (mm) :	34.4
Radii of gyration – Y (mm) :	31.8
Principal moments along X-Y (mm⁴) :	2480796.7 along [0.8 -0.6]
Principal moments along Y-X (mm⁴) :	1454471.1 along [0.6 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 42603.8
Elastic Modulus – Zy (mm³) :	I / x-max= 30536.3

D19450

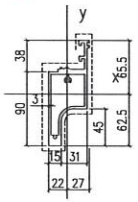


COLOUR:Dark Bronze/Silver

EXTRUSION MARK:EXTRUDED ALUM. CAPPING (AL1132)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	35
Perimeter (mm) :	32
Bounding Box – X (mm):	−7 to 7
Bounding Box – Y (mm):	−2 to 5
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	107
Moments of Inertia – Y (mm⁴) :	825
Product of Inertia – XY (mm⁴) :	1
Radii of gyration – X (mm) :	2
Radii of gyration – Y (mm) :	5
Principal moments along X-Y (mm⁴) :	107 along [1 0]
Principal moments along Y-X (mm⁴) :	825 along [0 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 33
Elastic Modulus – Zy (mm³) :	I / x-max= 112

X86107

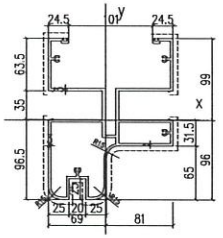


COLOUR:Dark Bronze

EXTRUSION MARK: EXTRUDED ALUM. HOOK (AL1133)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1174
Perimeter (mm) :	885
Bounding Box – X (mm):	−22 to 27
Bounding Box – Y (mm):	−63 to 85
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	1567349
Moments of Inertia – Y (mm⁴) :	334489
Product of Inertia – XY (mm⁴) :	−440999
Radii of gyration – X (mm) :	36
Radii of gyration – Y (mm) :	17
Principal moments along X-Y (mm⁴) :	1709484 along [1 0]
Principal moments along Y-X (mm⁴) :	191524 along [0 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 33821
Elastic Modulus – Zy (mm³) :	I / x-max= 17489

X86143

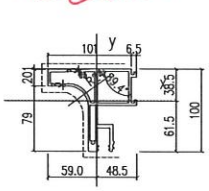


COLOUR:Silver

EXTRUSION MARK: ALUM. VERTICAL FEATURE (AL1314)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	3063
Perimeter (mm) :	2023
Bounding Box – X (mm):	−69 to 81
Bounding Box – Y (mm):	−96 to 99
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	8726959
Moments of Inertia – Y (mm⁴) :	7893005
Product of Inertia – XY (mm⁴) :	−4828799
Radii of gyration – X (mm) :	53
Radii of gyration – Y (mm) :	50
Principal moments along X-Y (mm⁴) :	10358851 along [1 -1]
Principal moments along Y-X (mm⁴) :	6261113 along [1 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 88333
Elastic Modulus – Zy (mm³) :	I / x-max= 94379

X86144

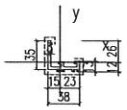


COLOUR:Dark Bronze

EXTRUSION MARK: ALUM. VERTICAL FEATURE (AL1316)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1582.5
Perimeter (mm) :	998.8
Bounding Box – X (mm):	−59.2 to 48.6
Bounding Box – Y (mm):	−81.4 to 38.6
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	1537902.5
Moments of Inertia – Y (mm⁴) :	1083902.5
Product of Inertia – XY (mm⁴) :	1413333.8
Radii of gyration – X (mm) :	33.0
Radii of gyration – Y (mm) :	26.9
Principal moments along X-Y (mm⁴) :	1842113.1 along [0.8 0.4]
Principal moments along Y-X (mm⁴) :	979052.2 along [-0.4 0.8]
Elastic Modulus – Zx (mm³) :	I / y-max= 23033.6
Elastic Modulus – Zy (mm³) :	I / x-max= 18311.6

X86110

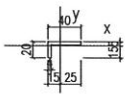


COLOUR:Dark Grey

EXTRUSION MARK: EXTRUDED ALUM. CAPPING (AL1316)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	315
Perimeter (mm) :	219
Bounding Box – X (mm):	−15 to 23
Bounding Box – Y (mm):	−12 to 28
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	32595
Moments of Inertia – Y (mm⁴) :	53511
Product of Inertia – XY (mm⁴) :	23808
Radii of gyration – X (mm) :	10
Radii of gyration – Y (mm) :	13
Principal moments along X-Y (mm⁴) :	17483 along [1 -1]
Principal moments along Y-X (mm⁴) :	68863 along [1 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 1258
Elastic Modulus – Zy (mm³) :	I / x-max= 2303

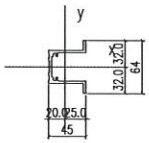
N614



EXTRUSION MARK:ALUM. ANGLE (AL1137)
GRADE: 6063-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	224
Perimeter (mm) :	128
Bounding Box – X (mm):	−15 to 25
Bounding Box – Y (mm):	−15 to 5
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	6150
Moments of Inertia – Y (mm⁴) :	30230
Product of Inertia – XY (mm⁴) :	−8229
Radii of gyration – X (mm) :	5
Radii of gyration – Y (mm) :	12
Principal moments along X-Y (mm⁴) :	4045 along [1 0]
Principal moments along Y-X (mm⁴) :	36334 along [0 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 406
Elastic Modulus – Zy (mm³) :	I / x-max= 1441

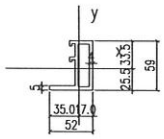
X86112



EXTRUSION MARK:EXTRUDED ALUM. BRACKET (AL1118)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	488.1
Perimeter (mm) :	314.3
Bounding Box – X (mm):	−20.0 to 25.0
Bounding Box – Y (mm):	−32.0 to 32.0
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of Inertia – X (mm⁴) :	1603432.9
Moments of Inertia – Y (mm⁴) :	129780.3
Product of Inertia – XY (mm⁴) :	0.0
Radii of gyration – X (mm) :	18.2
Radii of gyration – Y (mm) :	16.1
Principal moments along X-Y (mm⁴) :	1603432.9 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	129780.3 along [0.0 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 5078.7
Elastic Modulus – Zy (mm³) :	I / x-max= 5088.2

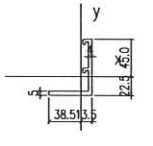
X86147



EXTRUSION MARK:EXTRUDED ALUM. BRACKET (AL1149)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	780.4
Perimeter (mm) :	363.8
Bounding Box – X (mm):	−35.0 to 16.8
Bounding Box – Y (mm):	−25.8 to 33.4
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of Inertia – X (mm⁴) :	341157.8
Moments of Inertia – Y (mm⁴) :	135177.4
Product of Inertia – XY (mm⁴) :	−78514.1
Radii of gyration – X (mm) :	20.8
Radii of gyration – Y (mm) :	13.1
Principal moments along X-Y (mm⁴) :	364125.0 along [1.0 -0.2]
Principal moments along Y-X (mm⁴) :	112210.2 along [0.2 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 10230.5
Elastic Modulus – Zy (mm³) :	I / x-max= 3058.7

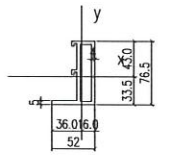
X86148



EXTRUSION MARK: EXTRUDED ALUM. BRACKET (AL1120)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	578.8
Perimeter (mm) :	272.9
Bounding Box – X (mm):	−38.5 to 13.4
Bounding Box – Y (mm):	−22.3 to 45.1
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of Inertia – X (mm⁴) :	293038.8
Moments of Inertia – Y (mm⁴) :	134671.5
Product of Inertia – XY (mm⁴) :	−113398.3
Radii of gyration – X (mm) :	22.5
Radii of gyration – Y (mm) :	15.3
Principal moments along X-Y (mm⁴) :	352327.4 along [0.9 -0.5]
Principal moments along Y-X (mm⁴) :	75303.8 along [0.5 0.9]
Elastic Modulus – Zx (mm³) :	I / y-max= 6494.1
Elastic Modulus – Zy (mm³) :	I / x-max= 3405.0

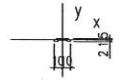
X86149



EXTRUSION MARK: EXTRUDED ALUM. BRACKET (AL1121)
GRADE: 6061-T6

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	932.0
Perimeter (mm) :	454.8
Bounding Box – X (mm):	−36.9 to 15.9
Bounding Box – Y (mm):	−23.6 to 43.1
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of Inertia – X (mm⁴) :	857953.3
Moments of Inertia – Y (mm⁴) :	158958.8
Product of Inertia – XY (mm⁴) :	−182304.5
Radii of gyration – X (mm) :	30.4
Radii of gyration – Y (mm) :	12.7
Principal moments along X-Y (mm⁴) :	971698.2 along [1.0 -0.2]
Principal moments along Y-X (mm⁴) :	136881.0 along [0.2 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 1527.5
Elastic Modulus – Zy (mm³) :	I / x-max= 4108.4

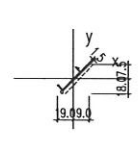
X86150



EXTRUSION MARK: EXTRUDED ALUM. DRIVE ROD (AL1122)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	48.6
Perimeter (mm) :	48.8
Bounding Box – X (mm):	−10.0 to 10.0
Bounding Box – Y (mm):	−2.0 to 1.7
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of Inertia – X (mm⁴) :	47.3
Moments of Inertia – Y (mm⁴) :	1647.1
Product of Inertia – XY (mm⁴) :	0.0
Radii of gyration – X (mm) :	1.0
Radii of gyration – Y (mm) :	5.8
Principal moments along X-Y (mm⁴) :	47.3 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	1647.1 along [0.0 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 23.6
Elastic Modulus – Zy (mm³) :	I / x-max= 164.7

X86151

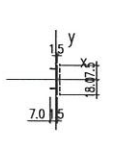


COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. CAPPING (AL1123)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	87.3
Perimeter (mm) :	135.0
Bounding Box – X (mm):	−10.0 to 19.2
Bounding Box – Y (mm):	−18.0 to 17.3
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	16224.0
Moments of Inertia – Y (mm⁴) :	10450.7
Product of Inertia – XY (mm⁴) :	−8885.6
Radii of gyration – X (mm) :	13.3
Radii of gyration – Y (mm) :	10.4
Principal moments along X-Y (mm⁴) :	491.5 along [0.7 0.7]
Principal moments along Y-X (mm⁴) :	26183.2 along [-0.7 0.7]
Elastic Modulus – Zx (mm³) :	I / y-max= 572.8
Elastic Modulus – Zy (mm³) :	I / x-max= 544.8

X86152



COLOUR:Dark Grey

EXTRUSION MARK:EXTRUDED ALUM. CAPPING (AL1124)
GRADE: 6063-T5

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	71.3
Perimeter (mm) :	101.0
Bounding Box – X (mm):	−7.1 to 1.7
Bounding Box – Y (mm):	−18.1 to 17.4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	7929.7
Moments of Inertia – Y (mm⁴) :	296.0
Product of Inertia – XY (mm⁴) :	70.1
Radii of gyration – X (mm) :	10.5
Radii of gyration – Y (mm) :	2.0
Principal moments along X-Y (mm⁴) :	7930.5 along [1.0 0.0]
Principal moments along Y-X (mm⁴) :	295.3 along [0.0 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 438.1
Elastic Modulus – Zy (mm³) :	I / x-max= 41.2

B.D. REF :

F.S.D. REF :

Note :

1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :

1. F.F.L.— Finished Floor Level
2. S.F.L.— Structural Floor Level
3. (R) — Reversed Detail

X1 ..... DETAIL MARK NO.
X001 ..... SHEET SHEET NO.

REV.	DATE	DESCRIPTION	BY
D	22.Nov.2021	GENERAL REVISION	
C	13.Nov.2021	GENERAL REVISION	
B	6.Nov.2021	GENERAL REVISION	
A	18.Oct.2021	GENERAL REVISION	

CLIENT :

MARBLE EDGE INVESTMENT LTD.

ARCHITECT :

RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :

C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :

裕民建築有限公司

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

PROJECT :

PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

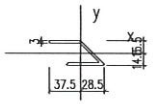
TITLE :

SECTION PROPERTIES
(PAGE 4 OF 5)

JOB NO. :	J–857
DRAWN BY : AN	DATE : 18.Oct.2021
CHKD BY :	SCALE A1: 1:3 A3:
DWG. NO. : SD-SP-0008	REV. : –

T:\Jobs\J-857\3 Submission\1 Shop Drawing\3_Curtain Wall\20220416\2 TOWER 1–8,L SHOP DRAWINGS FOR CURTAIN WALL\04.16\1 TOWER 1–8,L SHOP DRAWINGS-NOTES, DETAIL2022.4.16.dwg

X86166



EXTRUSION MARK: EXTRUDED ALUM. U-CHANNEL (FOR CLASS BARRIER) (A113)
GRADE: 6063-T6

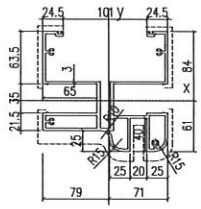
MOS PROPERTIES (UNIT)	VALUES
Area (mm²) :	350.9
Perimeter (mm) :	236.6
Bounding Box – X (mm):	-37.8 to 28.5
Bounding Box – Y (mm):	-14.4 to 15.6
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of Inertia – X (mm⁴) :	56343.0
Moments of Inertia – Y (mm⁴) :	100666.5
Product of Inertia – XY (mm⁴) :	44259.8
Radii of gyration – X (mm) :	12.8
Radii of gyration – Y (mm) :	17.0
Principal moments along X-Y (mm⁴) :	24673.3 along [0.9 -0.5]
Principal moments along Y-X (mm⁴) :	132655.1 along [0.5 0.9]
Elastic Modulus – Zx (mm³) :	I / y-max= 3218.4
Elastic Modulus – Zy (mm³) :	J / x-max= 2986.5

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

X86170



COLOUR:Silver

EXTRUSION MARK: EXTRUDED ALUM. ADAPTOR (A118)
GRADE: 6063-T5

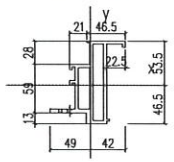
MOS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2782
Perimeter (mm) :	1798
Bounding Box – X (mm):	-79 to 71
Bounding Box – Y (mm):	-61 to 84
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of Inertia – X (mm⁴) :	4518198
Moments of Inertia – Y (mm⁴) :	6570357
Product of Inertia – XY (mm⁴) :	687540
Radii of gyration – X (mm) :	40
Radii of gyration – Y (mm) :	50
Principal moments along X-Y (mm⁴) :	4338076 along [1 0]
Principal moments along Y-X (mm⁴) :	7056387 along [0 1]
Elastic Modulus – Zx (mm³) :	I / y-max= 53789
Elastic Modulus – Zy (mm³) :	J / x-max= 88829

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

X86172



EXTRUSION MARK: EXTRUDED ALUM. BRACKET (A112)
GRADE: 6061-T6

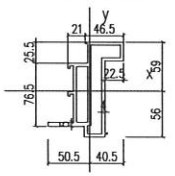
MOS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1023.9
Perimeter (mm) :	772.1
Bounding Box – X (mm):	-48.0 to 42.2
Bounding Box – Y (mm):	-46.3 to 53.7
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of Inertia – X (mm⁴) :	1385708.0
Moments of Inertia – Y (mm⁴) :	533339.3
Product of Inertia – XY (mm⁴) :	-344146.5
Radii of gyration – X (mm) :	31.3
Radii of gyration – Y (mm) :	18.1
Principal moments along X-Y (mm⁴) :	1681011.2 along [1.0 -0.3]
Principal moments along Y-X (mm⁴) :	430025.0 along [0.3 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 29617.3
Elastic Modulus – Zy (mm³) :	J / x-max= 10174.6

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

X86173



EXTRUSION MARK: EXTRUDED ALUM. BRACKET (A129)
GRADE: 6061-T6

MOS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1838.6
Perimeter (mm) :	913.7
Bounding Box – X (mm):	-50.8 to 49.6
Bounding Box – Y (mm):	-58.0 to 59.2
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of Inertia – X (mm⁴) :	2357754.8
Moments of Inertia – Y (mm⁴) :	862251.1
Product of Inertia – XY (mm⁴) :	-528816.1
Radii of gyration – X (mm) :	35.9
Radii of gyration – Y (mm) :	19.5
Principal moments along X-Y (mm⁴) :	2927264.1 along [1.0 -0.3]
Principal moments along Y-X (mm⁴) :	1432711.8 along [0.3 1.0]
Elastic Modulus – Zx (mm³) :	I / y-max= 39838.8
Elastic Modulus – Zy (mm³) :	J / x-max= 13895.4

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

EXTRUSION MARK:
GRADE:

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.--- Finished Floor Level
2. S.F.L.--- Structural Floor Level
3. (7/8) --- Reversed Detail

X1 ..... DETAIL MARK NO.
X001 ..... SHEET SHEET NO.

REV.	DATE	DESCRIPTION	BY
–	04.JAN.2022	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
CMA C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

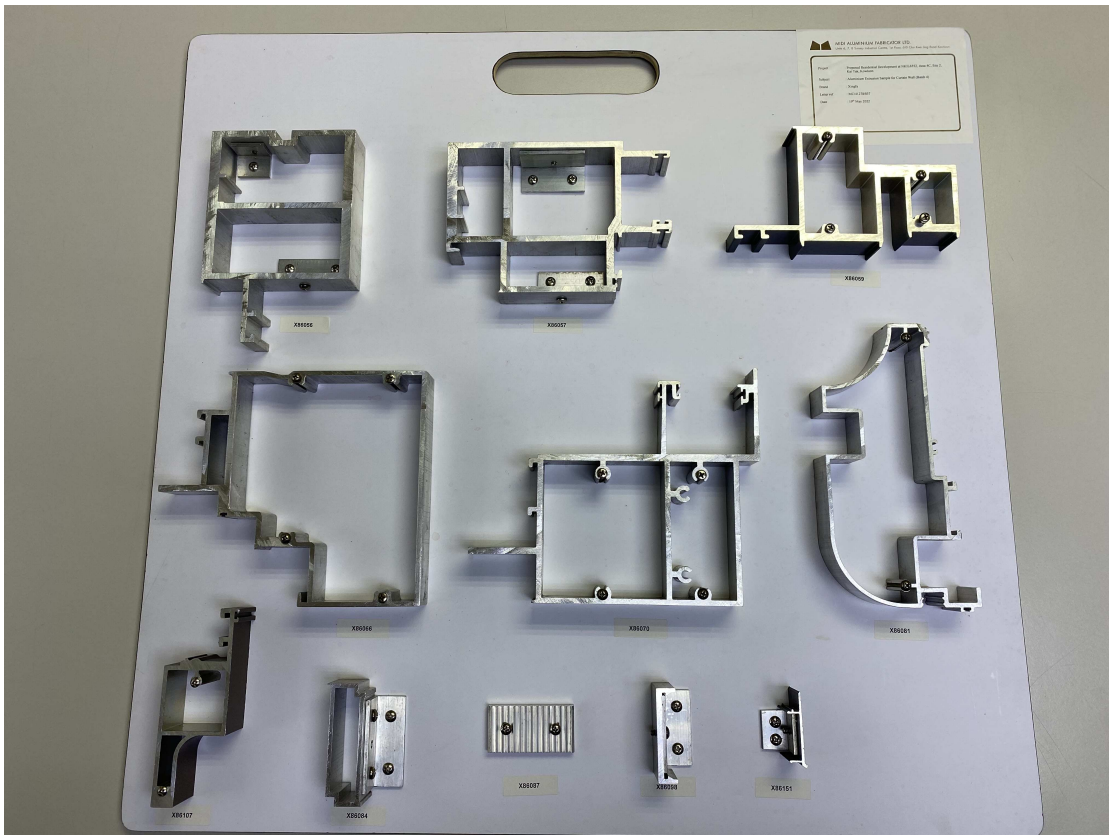
美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)27727666

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES (PAGE 5 OF 5)

JOB NO. : J-857	
DRAWN BY : AN	DATE : 18.Oct.2021
CHKD BY :	SCALE A1: 1:3 A3:
DWG. NO. : SD-SP-0009	REV. : –

T:\Job\J-857\3 Submission\1 Shop Drawing\3_Curtain Wall\20220418\2 TOWER 1 - 8/L SHOP DRAWINGS FOR CURTAIN WALL\04.16.1 TOWER 1 - 8/L SHOP DRAWINGS-NOTES DETAIL2022.4.16.dwg


MDI ALUMINIUM FABRICATOR LTD.
X86056
X86057
X86099
X86066
X86070
X86081
X86107
X86084
X86097
X86151


MDI ALUMINIUM FABRICATOR LTD.
X86101
X86102
X86103
X86104
X86105
X86110
X86112
X86147
X86148
X86149
X86144
X86150
X86152
X86170
X86172
X86173

美 特 鋁 質 有 限 公 司
MIDI ALUMINIUM FABRICATOR LTD.

Our ref. MC/41342/857

4th July 2022

E Man Construction Co. Ltd.
29/F, AIA Tower, 183 Electric Road,
North Point, Hong Kong

By Email & Hand

Attn.: Mr. Adam Wong

Dear Sir,

Re: Design, Supply & Installation of Curtain Wall, Windows, Cladding and Glass Door for Residential Towers for Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Material Submission of Aluminium Extrusion Sample for Glass Sliding Door (In-situ)

Regarding the captioned project, we would like to submit 1 set of Aluminium Extrusion (Xingfa) sample boards for Glass Sliding Door for your comment and approval.

Remark:
1) 1 set of Aluminium Extrusion (Xingfa) sample boards will be delivered to Mr. Gareth Chan directly.
(Address: 九龍城區承豐道啟德 6552 地盤 (維港一號對面)，陳先生收，TEL：6533 2451)

Should you have any query, please don't hesitate to liaise with us for information.

Thank you for your kind attention.

Yours faithfully,
MIDI ALUMINIUM FABRICATOR LTD.

Marco Tam
Director

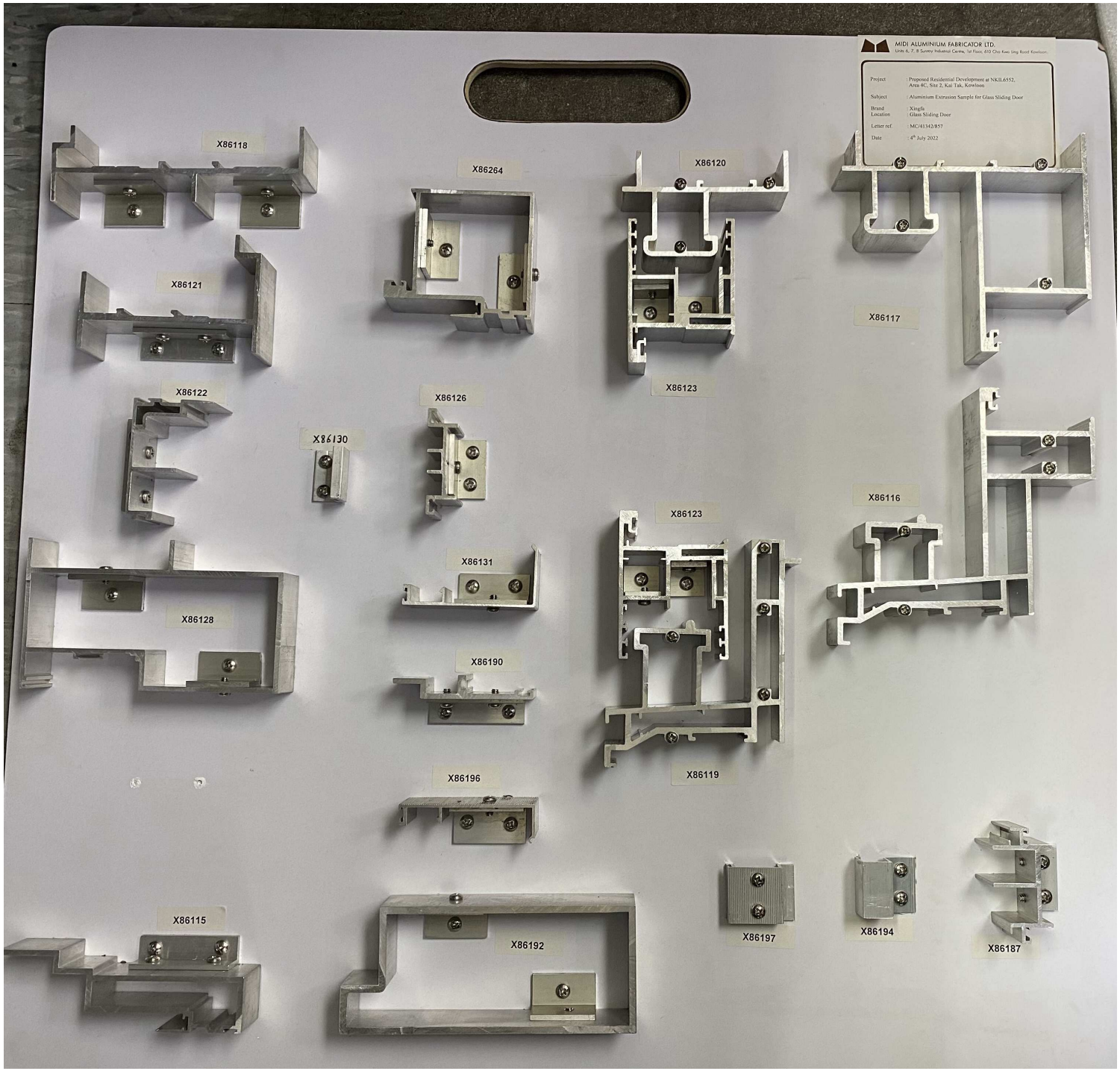
Encl - 4 page(s)

cc. E Man - Mr. Wilson Kwan / Mr. Alex Lee / Mr. Gareth Chan (w/e) (Email Only)

FM/MT/HWS/JK/JW/yl

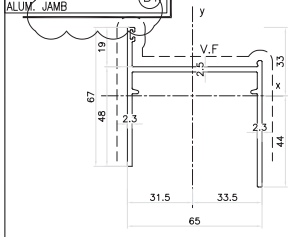
九龍荼果嶺道610號生利工業中心1樓6-8號
Units 6-8, 1st Floor, Sunray Industrial Centre, 610 Cha Kwo Ling Road, Kln.
TEL. (電話) : 2348 9211 FAX. (傳真) : 2772 7666 E-mail Address (電郵) : midi@midiltd.com.hk.

ISO 9001 : 2015
Certificate No: CC 1795


MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunray Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon.
Project : Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject : Aluminium Extrusion Sample for Glass Sliding Door
Brand : Xingfa
Location : Glass Sliding Door
Letter ref. : MC/41342/857
Date : 4th July 2022
X86118
X86264
X86120
X86121
X86117
X86122
X86126
X86130
X86123
X86116
X86131
X86123
X86128
X86190
X86196
X86119
X86115
X86192
X86197
X86194
X86187

PROPERTIES

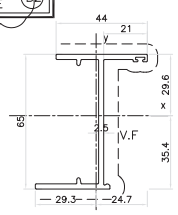
MODEL NO.: X86112
FINISH: PVF2-3COATING
ALUM. JAMB
B1
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	457.6301
Perimeter (mm) :	399.3524
Bounding Box – X (mm):	–31.4575 to 33.5425
Bounding Box – Y (mm):	–44.0171 to 32.9829
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	152218.2426
Moments of inertia – Y (mm⁴) :	344744.1925
Product of inertia – XY (mm⁴) :	–57914.7309
Radii of gyration – X (mm) :	18.2380
Radii of gyration – Y (mm) :	27.4468
Principal moments along X–Y (mm⁴) :	136139.4336 along [0.9636 –0.2675]
Principal moments along Y–X (mm⁴) :	360823.0014 along [0.2675 0.9636]
Elastic Modulus – Zx (mm³):	I / y–max= 3458.1632
Elastic Modulus – Zy (mm³):	J / x–max= 10277.8347

PROPERTIES

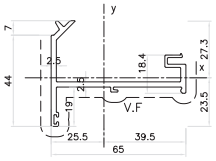
MODEL NO.: X86177
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME
B2
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	326.3235
Perimeter (mm) :	304.6785
Bounding Box – X (mm):	–29.3287 to 24.6713
Bounding Box – Y (mm):	–35.3590 to 29.6450
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	214409.2904
Moments of inertia – Y (mm⁴) :	314518.4852
Product of inertia – XY (mm⁴) :	31305.3420
Radii of gyration – X (mm) :	25.6329
Radii of gyration – Y (mm) :	9.8186
Principal moments along X–Y (mm⁴) :	262250.9753 along [0.1641 0.9864]
Principal moments along Y–X (mm⁴) :	219617.8002 along [–0.9864 0.1641]
Elastic Modulus – Zx (mm³):	I / y–max= 6064.4756
Elastic Modulus – Zy (mm³):	J / x–max= 1072.6509

PROPERTIES

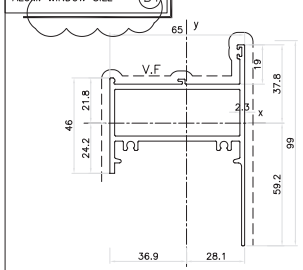
MODEL NO.: X86178
FINISH: PVF2-3COATING
ALUM. ADAPTER
B3
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	337.6438
Perimeter (mm) :	317.6410
Bounding Box – X (mm):	–25.5077 to 39.4923
Bounding Box – Y (mm):	–23.4661 to 25.5339
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	33122.5305
Moments of inertia – Y (mm⁴) :	191869.3583
Product of inertia – XY (mm⁴) :	–6855.1863
Radii of gyration – X (mm) :	9.9045
Radii of gyration – Y (mm) :	23.8444
Principal moments along X–Y (mm⁴) :	32827.2374 along [0.9991 –0.0430]
Principal moments along Y–X (mm⁴) :	192284.6515 along [0.0430 0.9991]
Elastic Modulus – Zx (mm³):	I / y–max= 1297.1965
Elastic Modulus – Zy (mm³):	J / x–max= 4860.9287

PROPERTIES

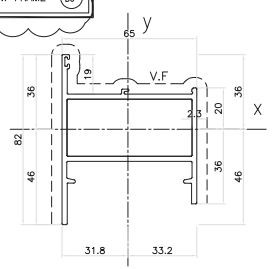
MODEL NO.: X86110
FINISH: PVF2-3COATING
ALUM. WINDOW SILL
B4
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	652
Perimeter (mm) :	584
Bounding Box – X (mm):	–37 to 28
Bounding Box – Y (mm):	–59 to 38
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	232109
Moments of inertia – Y (mm⁴) :	401611
Product of inertia – XY (mm⁴) :	30357
Radii of gyration – X (mm) :	19
Radii of gyration – Y (mm) :	25
Principal moments along X–Y (mm⁴) :	226837 along [1 0]
Principal moments along Y–X (mm⁴) :	406883 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 3939
Elastic Modulus – Zy (mm³):	J / x–max= 10930

PROPERTIES

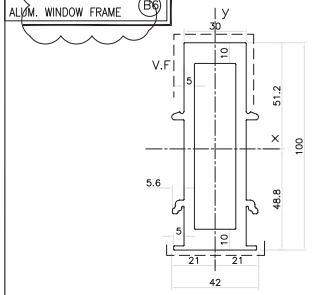
MODEL NO.: X86179
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME
B5
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2277.2
Perimeter (mm) :	368.8
Bounding Box – X (mm):	–31.8 to 33.2
Bounding Box – Y (mm):	–46.0 to 36.0
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of inertia – X (mm⁴) :	310511.3
Moments of inertia – Y (mm⁴) :	898059.9
Product of inertia – XY (mm⁴) :	–16572.2
Radii of gyration – X (mm) :	11.7
Radii of gyration – Y (mm) :	19.9
Principal moments along X–Y (mm⁴) :	310044.2 along [1.0 0.0]
Principal moments along Y–X (mm⁴) :	898477.0 along [0.0 1.0]
Elastic Modulus – Zx (mm³):	I / y–max= 6746.0
Elastic Modulus – Zy (mm³):	J / x–max= 27040.3

PROPERTIES

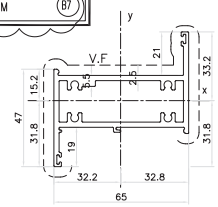
MODEL NO.: X86180
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME
B6
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1504.0380
Perimeter (mm) :	529.4938
Bounding Box – X (mm):	–21.0041 to 21.0041
Bounding Box – Y (mm):	–48.7872 to 51.2128
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1740251.2474
Moments of inertia – Y (mm⁴) :	204474.8237
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	34.0155
Radii of gyration – Y (mm) :	11.6598
Principal moments along X–Y (mm⁴) :	204474.8237 along [0.0000 –1.0000]
Principal moments along Y–X (mm⁴) :	1740251.2474 along [1.0000 0.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 33980.7879
Elastic Modulus – Zy (mm³):	J / x–max= 9735.0088

PROPERTIES

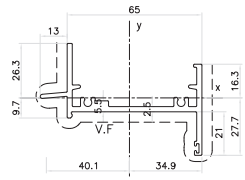
MODEL NO.: X86182
FINISH: PVF2-3COATING
ALUM. TRANSOM
B7
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	617.7749
Perimeter (mm) :	525.1018
Bounding Box – X (mm):	–32.1833 to 32.8167
Bounding Box – Y (mm):	–31.8417 to 33.1583
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	105694.6328
Moments of inertia – Y (mm⁴) :	350408.5096
Product of inertia – XY (mm⁴) :	–59267.7099
Radii of gyration – X (mm) :	13.0801
Radii of gyration – Y (mm) :	23.8162
Principal moments along X–Y (mm⁴) :	92096.1307 along [0.9747 0.2236]
Principal moments along Y–X (mm⁴) :	364007.0118 along [–0.2236 0.9747]
Elastic Modulus – Zx (mm³):	I / y–max= 3187.5781
Elastic Modulus – Zy (mm³):	J / x–max= 10677.7568

PROPERTIES

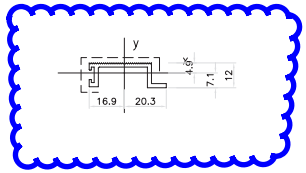
MODEL NO.:X86181
FINISH: PVF2-3COATING
ALUM. WINDOW HEAD
B8
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	435
Perimeter (mm) :	401
Bounding Box – X (mm):	9308 to 9386
Bounding Box – Y (mm):	–3928 to –3854
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	75305
Moments of inertia – Y (mm⁴) :	304844
Product of inertia – XY (mm⁴) :	–69052
Radii of gyration – X (mm) :	13
Radii of gyration – Y (mm) :	26
Principal moments along X–Y (mm⁴) :	56134 along [1 0]
Principal moments along Y–X (mm⁴) :	324015 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 19
Elastic Modulus – Zy (mm³):	J / x–max= 32

PROPERTIES

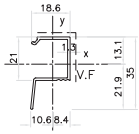
MODEL NO.:X86197
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
B9
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	114
Perimeter (mm) :	140
Bounding Box – X (mm):	–17 to 20
Bounding Box – Y (mm):	–7 to 5
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	1948
Moments of inertia – Y (mm⁴) :	16619
Product of inertia – XY (mm⁴) :	1405
Radii of gyration – X (mm) :	4
Radii of gyration – Y (mm) :	12
Principal moments along X–Y (mm⁴) :	1814 along [1 0]
Principal moments along Y–X (mm⁴) :	16753 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 273
Elastic Modulus – Zy (mm³):	J / x–max= 820

PROPERTIES

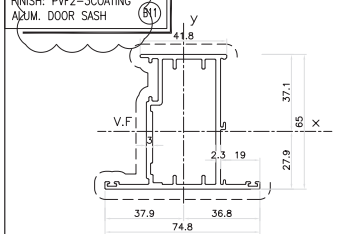
MODEL NO.:X86113
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
B10
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	79.1693
Perimeter (mm) :	141.9027
Bounding Box – X (mm):	–10.5968 to 8.4032
Bounding Box – Y (mm):	–21.8570 to 13.1430
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	8604.3592
Moments of inertia – Y (mm⁴) :	3802.7727
Product of inertia – XY (mm⁴) :	2251.2221
Radii of gyration – X (mm) :	10.4251
Radii of gyration – Y (mm) :	6.9306
Principal moments along X–Y (mm⁴) :	2912.3945 along [0.3678 0.9299]
Principal moments along Y–X (mm⁴) :	9494.7374 along [–0.9299 0.3678]
Elastic Modulus – Zx (mm³):	I / y–max= 393.6663
Elastic Modulus – Zy (mm³):	J / x–max= 358.8608

PROPERTIES

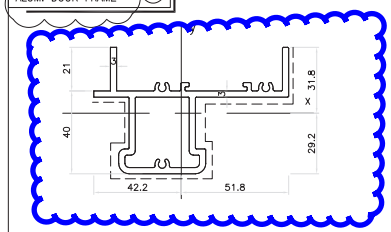
MODEL NO.: X86114
FINISH: PVF2-3COATING
ALUM. DOOR SASH
B11
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	606.0126
Perimeter (mm) :	557.9480
Bounding Box – X (mm):	–37.9127 to 36.8472
Bounding Box – Y (mm):	–27.8742 to 37.0996
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	359597.9049
Moments of inertia – Y (mm⁴) :	175730.1915
Product of inertia – XY (mm⁴) :	9839.7289
Radii of gyration – X (mm) :	24.3595
Radii of gyration – Y (mm) :	17.0287
Principal moments along X–Y (mm⁴) :	175205.1153 along [0.0533 0.9986]
Principal moments along Y–X (mm⁴) :	360122.9811 along [–0.9986 0.0533]
Elastic Modulus – Zx (mm³):	I / y–max= 9692.7607
Elastic Modulus – Zy (mm³):	J / x–max= 4635.1284

PROPERTIES

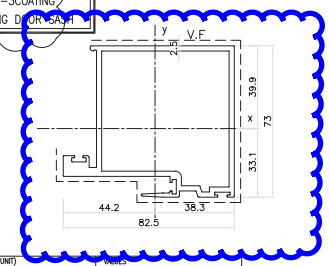
MODEL NO.: X86120
FINISH: PVF2-3COATING
ALUM. DOOR FRAME
B12
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	819.8345
Perimeter (mm) :	564.5632
Bounding Box – X (mm):	–42.1927 to 51.8073
Bounding Box – Y (mm):	–29.2360 to 31.7640
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	238410.9920
Moments of inertia – Y (mm⁴) :	580041.4137
Product of inertia – XY (mm⁴) :	–110663.8606
Radii of gyration – X (mm) :	17.0530
Radii of gyration – Y (mm) :	26.5991
Principal moments along X–Y (mm⁴) :	210956.0612 along [0.9648 0.2631]
Principal moments along Y–X (mm⁴) :	607496.3445 along [–0.2631 0.9648]
Elastic Modulus – Zx (mm³):	I / y–max= 7505.6943
Elastic Modulus – Zy (mm³):	J / x–max= 11196.1426

PROPERTIES

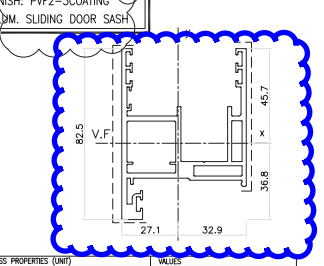
MODEL NO.: X86264
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B13
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	843.2682
Perimeter (mm) :	647.3552
Bounding Box – X (mm):	–44.2492 to 38.2508
Bounding Box – Y (mm):	–33.0795 to 39.9205
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	589200.2697
Moments of inertia – Y (mm⁴) :	658542.2785
Product of inertia – XY (mm⁴) :	–46694.1534
Radii of gyration – X (mm) :	26.4331
Radii of gyration – Y (mm) :	27.9453
Principal moments along X–Y (mm⁴) :	565873.1289 along [0.8938 0.4484]
Principal moments along Y–X (mm⁴) :	681869.4194 along [–0.4484 0.8938]
Elastic Modulus – Zx (mm³):	I / y–max= 14759.5374
Elastic Modulus – Zy (mm³):	J / x–max= 14882.5940

PROPERTIES

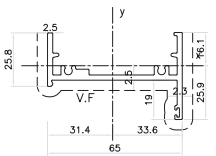
MODEL NO.: X86123
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B14
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	966.9237
Perimeter (mm) :	737.3565
Bounding Box – X (mm):	–27.1468 to 32.8532
Bounding Box – Y (mm):	–36.8109 to 45.6891
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	366725.7988
Moments of inertia – Y (mm⁴) :	444074.9649
Product of inertia – XY (mm⁴) :	–73068.5143
Radii of gyration – X (mm) :	20.5674
Radii of gyration – Y (mm) :	22.6328
Principal moments along X–Y (mm⁴) :	322727.9490 along [0.8567 0.5158]
Principal moments along Y–X (mm⁴) :	488072.8147 along [–0.5158 0.8567]
Elastic Modulus – Zx (mm³):	I / y–max= 8026.5546
Elastic Modulus – Zy (mm³):	J / x–max= 13516.9341

PROPERTIES

MODEL NO.: X86183
FINISH: PVF2-3COATING
ALUM. JAMB
B15
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	404.2980
Perimeter (mm) :	371.7452
Bounding Box – X (mm):	–31.3860 to 33.6140
Bounding Box – Y (mm):	–25.9498 to 46.0502
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	71844.4546
Moments of inertia – Y (mm⁴) :	264516.3701
Product of inertia – XY (mm⁴) :	–63841.4491
Radii of gyration – X (mm) :	13.3305
Radii of gyration – Y (mm) :	25.5785
Principal moments along X–Y (mm⁴) :	52610.7477 along [0.9575 –0.2885]
Principal moments along Y–X (mm⁴) :	283750.0769 along [0.2885 0.9575]
Elastic Modulus – Zx (mm³):	I / y–max= 1560.1336
Elastic Modulus – Zy (mm³):	J / x–max= 7869.2343

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. /B -- Reversed Detail

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

NO.	DATE	REVISED	BY
E	06.04.2022	GENERAL REVISION	
D	10.02.2022	GENERAL REVISION	
C	06.01.2022	GENERAL REVISION	
B	26.12.2021	GENERAL REVISION	
A	28.10.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
CMA C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES

JOB NO. : J–857

DRAWN BY : AN

DATE : 18.OCT.2021

CHKD BY :

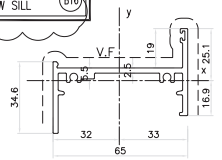
SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0003

REV. : E

PROPERTIES

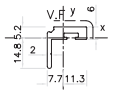
MODEL NO.: X86184
FINISH: PVF2-3COATING
ALUM. WINDOW SILL
B16
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	396.8018
Perimeter (mm) :	361.7503
Bounding Box – X (mm):	-31.9648 to 33.0352
Bounding Box – Y (mm):	-41.8746 to 25.1279
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	57372.4406
Moments of inertia – Y (mm⁴) :	257346.4129
Product of inertia – XY (mm⁴) :	53661.5072
Radii of gyration – X (mm) :	12.0244
Radii of gyration – Y (mm) :	25.4667
Principal moments along X–Y (mm⁴) :	43852.7582 along [0.9698 0.2438]
Principal moments along Y–X (mm⁴) :	270836.0973 along [-0.2438 0.9698]
Elastic Modulus – Zx (mm³):	I / y–max= 1370.1000
Elastic Modulus – Zy (mm³):	J / x–max= 7790.0592

PROPERTIES

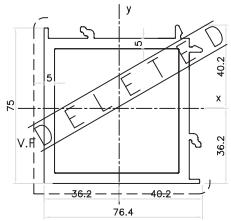
MODEL NO.: X86130
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
B17
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	116.4294
Perimeter (mm) :	87.3417
Bounding Box – X (mm):	-7.6645 to 11.3355
Bounding Box – Y (mm):	-14.7578 to 5.2425
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	2814.7570
Moments of inertia – Y (mm⁴) :	4438.0783
Product of inertia – XY (mm⁴) :	1987.0993
Radii of gyration – X (mm) :	4.9169
Radii of gyration – Y (mm) :	6.1740
Principal moments along X–Y (mm⁴) :	1479.8423 along [0.8301 0.5576]
Principal moments along Y–X (mm⁴) :	5772.8930 along [-0.5576 0.8301]
Elastic Modulus – Zx (mm³):	I / y–max= 190.7301
Elastic Modulus – Zy (mm³):	J / x–max= 391.5190

PROPERTIES

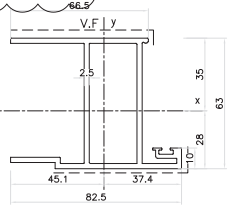
MODEL NO.:
FINISH: PVF2-3COATING
ALUM. CORNER MULLION
B18
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1398.5989
Perimeter (mm) :	591.9072
Bounding Box – X (mm):	-36.1916 to 40.2084
Bounding Box – Y (mm):	-36.1922 to 40.2078
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1019535.0696
Moments of inertia – Y (mm⁴) :	1019515.7176
Product of inertia – XY (mm⁴) :	-16192.4093
Radii of gyration – X (mm) :	26.9994
Radii of gyration – Y (mm) :	26.9992
Principal moments along X–Y (mm⁴) :	1003332.9814 along [0.7069 -0.7073]
Principal moments along Y–X (mm⁴) :	1035717.8057 along [0.7073 0.7069]
Elastic Modulus – Zx (mm³):	I / y–max= 25356.6776
Elastic Modulus – Zy (mm³):	J / x–max= 25355.7963

PROPERTIES

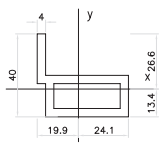
MODEL NO.: X86127
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B19
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	720.6376
Perimeter (mm) :	582.4042
Bounding Box – X (mm):	-45.0630 to 37.4370
Bounding Box – Y (mm):	-27.9563 to 35.0437
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	440411.9169
Moments of inertia – Y (mm⁴) :	314436.8021
Product of inertia – XY (mm⁴) :	77841.7694
Radii of gyration – X (mm) :	24.7213
Radii of gyration – Y (mm) :	20.8885
Principal moments along X–Y (mm⁴) :	477558.1373 along [0.9025 0.4307]
Principal moments along Y–X (mm⁴) :	277290.5817 along [-0.4307 0.9025]
Elastic Modulus – Zx (mm³):	I / y–max= 12567.4997
Elastic Modulus – Zy (mm³):	J / x–max= 6977.7192

PROPERTIES

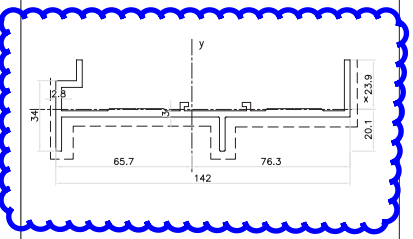
MODEL NO.: X86186
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B20
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	512
Perimeter (mm) :	256
Bounding Box – X (mm):	-20 to 24
Bounding Box – Y (mm):	-13 to 27
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	51939
Moments of inertia – Y (mm⁴) :	111779
Product of inertia – XY (mm⁴) :	30888
Radii of gyration – X (mm) :	10
Radii of gyration – Y (mm) :	15
Principal moments along X–Y (mm⁴) :	38855 along [1 0]
Principal moments along Y–X (mm⁴) :	124862 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 1951
Elastic Modulus – Zy (mm³):	J / x–max= 4633

PROPERTIES

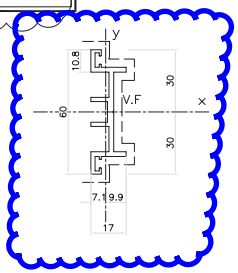
MODEL NO.: X86118
FINISH: PVF2-3COATING
ALUM. DOOR. FRAME
B21
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	761.3606
Perimeter (mm) :	499.5339
Bounding Box – X (mm):	-65.6614 to 76.2921
Bounding Box – Y (mm):	-20.1480 to 23.8520
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	47017.5152
Moments of inertia – Y (mm⁴) :	1754003.0521
Product of inertia – XY (mm⁴) :	-12796.1029
Radii of gyration – X (mm) :	7.8584
Radii of gyration – Y (mm) :	47.9976
Principal moments along X–Y (mm⁴) :	46921.5970 along [1.0000 0.0075]
Principal moments along Y–X (mm⁴) :	1754098.9704 along [-0.0075 1.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 1971.2224
Elastic Modulus – Zy (mm³):	J / x–max= 22990.6143

PROPERTIES

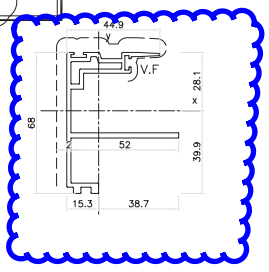
MODEL NO.: X86126
FINISH: PVF2-3COATING
ALUM. DOOR. JAMB
B22
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	256.9155
Perimeter (mm) :	240.1841
Bounding Box – X (mm):	-7.1369 to 9.8631
Bounding Box – Y (mm):	-30.0000 to 30.0000
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	78744.1890
Moments of inertia – Y (mm⁴) :	4673.3542
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	17.5071
Radii of gyration – Y (mm) :	4.2650
Principal moments along X–Y (mm⁴) :	4673.3542 along [0.0000 -1.0000]
Principal moments along Y–X (mm⁴) :	78744.1890 along [1.0000 0.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 2624.8063
Elastic Modulus – Zy (mm³):	J / x–max= 473.8217

PROPERTIES

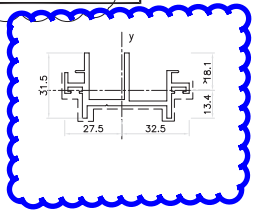
MODEL NO.: X86122
FINISH: PVF2-3COATING
ALUM. DOOR. JAMB
B23
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	485.0154
Perimeter (mm) :	458.1533
Bounding Box – X (mm):	-15.3399 to 38.6601
Bounding Box – Y (mm):	-39.8639 to 28.1361
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	222280.8428
Moments of inertia – Y (mm⁴) :	101941.3166
Product of inertia – XY (mm⁴) :	-16071.6610
Radii of gyration – X (mm) :	21.4079
Radii of gyration – Y (mm) :	14.4976
Principal moments along X–Y (mm⁴) :	224390.2791 along [0.9915 -0.1301]
Principal moments along Y–X (mm⁴) :	99831.8803 along [0.1301 0.9915]
Elastic Modulus – Zx (mm³):	I / y–max= 5575.9982
Elastic Modulus – Zy (mm³):	J / x–max= 2636.8633

PROPERTIES

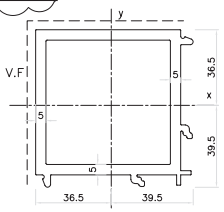
MODEL NO.: X86187
FINISH: PVF2-3COATING
ALUM. DOOR. JAMB
B24
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	351.0259
Perimeter (mm) :	317.8257
Bounding Box – X (mm):	-27.4954 to 32.5046
Bounding Box – Y (mm):	-13.4110 to 18.0890
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	18552.3096
Moments of inertia – Y (mm⁴) :	108319.6340
Product of inertia – XY (mm⁴) :	-6061.7860
Radii of gyration – X (mm) :	7.2699
Radii of gyration – Y (mm) :	17.5665
Principal moments along X–Y (mm⁴) :	18144.8205 along [0.9977 -0.0671]
Principal moments along Y–X (mm⁴) :	108727.1231 along [0.0671 0.9977]
Elastic Modulus – Zx (mm³):	I / y–max= 1025.6115
Elastic Modulus – Zy (mm³):	J / x–max= 3332.4358

PROPERTIES

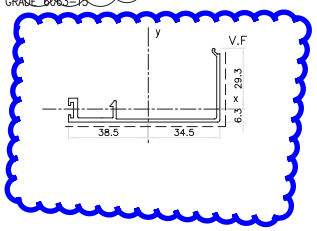
MODEL NO.: X86188
FINISH: PVF2-3COATING
ALUM. CORNER MULLION
B25
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1403.6618
Perimeter (mm) :	589.5514
Bounding Box – X (mm):	-36.4894 to 39.5131
Bounding Box – Y (mm):	-39.5131 to 36.4894
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1023673.5154
Moments of inertia – Y (mm⁴) :	1023671.5870
Product of inertia – XY (mm⁴) :	-6712.3488
Radii of gyration – X (mm) :	27.0053
Radii of gyration – Y (mm) :	27.0053
Principal moments along X–Y (mm⁴) :	1016960.2023 along [0.7071 -0.7072]
Principal moments along Y–X (mm⁴) :	1030384.9001 along [0.7072 0.7071]
Elastic Modulus – Zx (mm³):	I / y–max= 25907.2048
Elastic Modulus – Zy (mm³):	J / x–max= 25902.1725

PROPERTIES

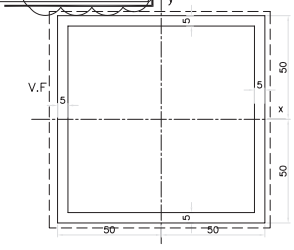
MODEL NO.: X86131
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B26
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	213.1026
Perimeter (mm) :	266.8683
Bounding Box – X (mm):	-38.5041 to 34.4959
Bounding Box – Y (mm):	-6.2765 to 29.3235
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	16565.4932
Moments of inertia – Y (mm⁴) :	154005.1950
Product of inertia – XY (mm⁴) :	-22591.2268
Radii of gyration – X (mm) :	8.8167
Radii of gyration – Y (mm) :	26.8827
Principal moments along X–Y (mm⁴) :	12947.3774 along [0.9874 0.1581]
Principal moments along Y–X (mm⁴) :	157623.3108 along [-0.1581 0.9874]
Elastic Modulus – Zx (mm³):	I / y–max= 564.9215
Elastic Modulus – Zy (mm³):	J / x–max= 3999.7113

PROPERTIES

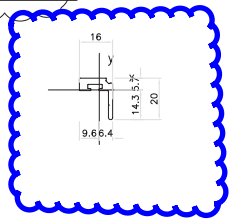
MODEL NO.: X86189
FINISH: PVF2-3COATING
ALUM. CORNER MULLION
B27
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1900.0000
Perimeter (mm) :	760.0000
Bounding Box – X (mm):	-50.0000 to 50.0000
Bounding Box – Y (mm):	-50.0000 to 50.0000
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	2865833.3333
Moments of inertia – Y (mm⁴) :	2865833.3333
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	38.8373
Radii of gyration – Y (mm) :	38.8373
Principal moments along X–Y (mm⁴) :	2865833.3333 along [1.0000 0.0000]
Principal moments along Y–X (mm⁴) :	2865833.3333 along [0.0000 1.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 57316.6667
Elastic Modulus – Zy (mm³):	J / x–max= 57316.6667

PROPERTIES

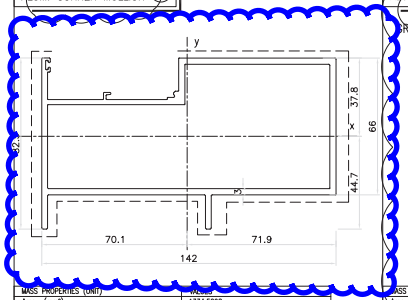
MODEL NO.: X86265
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
B28
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	98
Perimeter (mm) :	81
Bounding Box – X (mm):	-10 to 6
Bounding Box – Y (mm):	-14 to 6
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	2654
Moments of inertia – Y (mm⁴) :	2784
Product of inertia – XY (mm⁴) :	1589
Radii of gyration – X (mm) :	5
Radii of gyration – Y (mm) :	5
Principal moments along X–Y (mm⁴) :	1129 along [1 -1]
Principal moments along Y–X (mm⁴) :	4309 along [1 1]
Elastic Modulus – Zx (mm³):	I / y–max= 185
Elastic Modulus – Zy (mm³):	J / x–max= 291

PROPERTIES

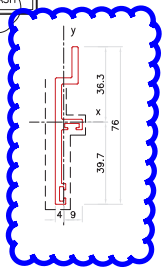
MODEL NO.: X86128
FINISH: PVF2-3COATING
ALUM. CORNER MULLION
B29
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1334.5298
Perimeter (mm) :	931.0036
Bounding Box – X (mm):	-70.0839 to 71.8696
Bounding Box – Y (mm):	-44.7359 to 37.8035
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	939735.7822
Moments of inertia – Y (mm⁴) :	3285765.1815
Product of inertia – XY (mm⁴) :	-245961.6694
Radii of gyration – X (mm) :	26.5362
Radii of gyration – Y (mm) :	49.6197
Principal moments along X–Y (mm⁴) :	914226.1273 along [0.9947 0.1032]
Principal moments along Y–X (mm⁴) :	3311274.8363 along [-0.1032 0.9947]
Elastic Modulus – Zx (mm³):	I / y–max= 21006.3021
Elastic Modulus – Zy (mm³):	J / x–max= 45718.4376

PROPERTIES

MODEL NO.: X86190
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B30
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	285.9227
Perimeter (mm) :	217.4504
Bounding Box – X (mm):	-4.0031 to 8.9969
Bounding Box – Y (mm):	-39.6737 to 36.3263
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	122231.1641
Moments of inertia – Y (mm⁴) :	3864.2522
Product of inertia – XY (mm⁴) :	-12236.2692
Radii of gyration – X (mm) :	20.6760
Radii of gyration – Y (mm) :	3.6763
Principal moments along X–Y (mm⁴) :	123482.8613 along [0.9948 -0.1018]
Principal moments along Y–X (mm⁴) :	2612.5549 along [0.1018 0.9948]
Elastic Modulus – Zx (mm³):	I / y–max= 3080.9106
Elastic Modulus – Zy (mm³):	J / x–max= 429.5075

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. /R -- Reversed Detail

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

NO.	DATE	REVISED	BY
E	06.04.2022	GENERAL REVISION	
D	10.02.2022	GENERAL REVISION	
C	06.01.2022	GENERAL REVISION	
B	08.12.2021	GENERAL REVISION	
A	28.10.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES

JOB NO. : J-857

DRAWN BY : AN

DATE : 18.OCT.2021

CHKD BY :

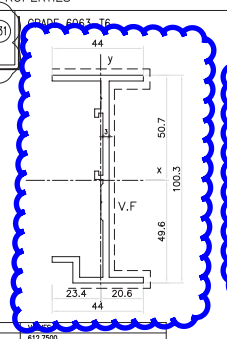
SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0004

REV. : E

PROPERTIES

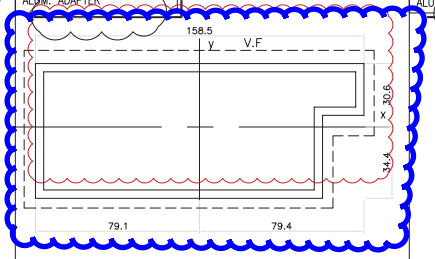
MODEL NO.: X86121 (B31)
FINISH: PVF2-3COATING
ALUM. DOOR. FRAME
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	612.7500
Perimeter (mm) :	414.1569
Bounding Box – X (mm):	-23.4103 to 20.5897
Bounding Box – Y (mm):	-49.5623 to 50.6877
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	859407.0307
Moments of inertia – Y (mm⁴) :	462155.9107
Product of inertia – XY (mm⁴) :	-10872.3092
Radii of gyration – X (mm) :	37.4505
Radii of gyration – Y (mm) :	8.6894
Principal moments along X–Y (mm⁴) :	859552.3756 along [0.9999 -0.0134]
Principal moments along Y–X (mm⁴) :	462120.5658 along [0.0134 0.9999]
Elastic Modulus – Zx (mm³):	I / y–max= 16954.9323
Elastic Modulus – Zy (mm³):	J / x–max= 1976.3079

PROPERTIES

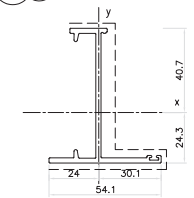
MODEL NO.: X86192 (B32)
FINISH: PVF2-3COATING
ALUM. ADAPTER
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1696.0000
Perimeter (mm) :	848.0000
Bounding Box – X (mm):	-75.6132 to 79.3868
Bounding Box – Y (mm):	-34.3968 to 30.6132
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1205387.5975
Moments of inertia – Y (mm⁴) :	4657267.5975
Product of inertia – XY (mm⁴) :	-249237.7358
Radii of gyration – X (mm) :	26.6594
Radii of gyration – Y (mm) :	52.4026
Principal moments along X–Y (mm⁴) :	1187484.6193 along [0.9974 0.0716]
Principal moments along Y–X (mm⁴) :	4675170.5757 along [-0.0716 0.9974]
Elastic Modulus – Zx (mm³):	I / y–max= 35053.7957
Elastic Modulus – Zy (mm³):	J / x–max= 58665.5217

PROPERTIES

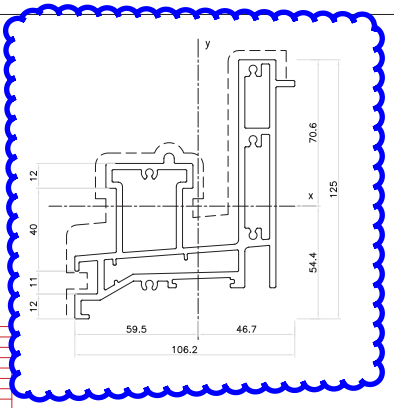
MODEL NO.: X86238 (B44)
FINISH: PVF2-3COATING
ALUM. WINDOW SILL
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	341.6546
Perimeter (mm) :	290.3449
Bounding Box – X (mm):	-24.0093 to 30.0530
Bounding Box – Y (mm):	-24.3446 to 40.6554
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	206801.8007
Moments of inertia – Y (mm⁴) :	38034.5369
Product of inertia – XY (mm⁴) :	19765.3192
Radii of gyration – X (mm) :	24.6027
Radii of gyration – Y (mm) :	10.5510
Principal moments along X–Y (mm⁴) :	209085.7243 along [0.9934 0.1148]
Principal moments along Y–X (mm⁴) :	35750.6133 along [-0.1148 0.9934]
Elastic Modulus – Zx (mm³):	I / y–max= 5086.6998
Elastic Modulus – Zy (mm³):	J / x–max= 1265.5837

PROPERTIES

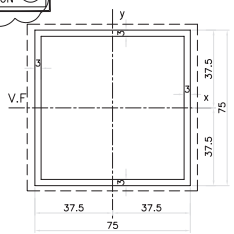
MODEL NO.: X86119 (B33)
FINISH: PVF2-3COATING
ALUM. DOOR SILL
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1933.5371
Perimeter (mm) :	1239.8999
Bounding Box – X (mm):	-59.4813 to 46.6687
Bounding Box – Y (mm):	-54.3994 to 70.6106
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	2049405.3174
Moments of inertia – Y (mm⁴) :	1817557.9199
Product of inertia – XY (mm⁴) :	-974927.5042
Radii of gyration – X (mm) :	32.5565
Radii of gyration – Y (mm) :	30.6597
Principal moments along X–Y (mm⁴) :	2915276.8836 along [0.7477 -0.6641]
Principal moments along Y–X (mm⁴) :	951686.3537 along [0.6641 0.7477]
Elastic Modulus – Zx (mm³):	I / y–max= 29024.0432
Elastic Modulus – Zy (mm³):	J / x–max= 30556.7754

PROPERTIES

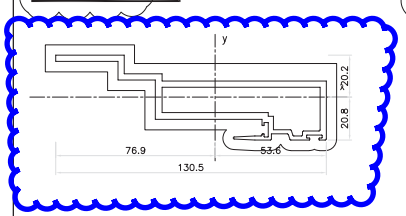
MODEL NO.: X86193 (B34)
FINISH: PVF2-3COATING
ALUM. CORNER MULLION
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	864.0000
Perimeter (mm) :	576.0000
Bounding Box – X (mm):	-37.5000 to 37.5000
Bounding Box – Y (mm):	-37.5000 to 37.5000
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	747792.0000
Moments of inertia – Y (mm⁴) :	747792.0000
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	29.4194
Radii of gyration – Y (mm) :	29.4194
Principal moments along X–Y (mm⁴) :	747792.0000 along [1.0000 0.0000]
Principal moments along Y–X (mm⁴) :	747792.0000 along [0.0000 1.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 19941.1200
Elastic Modulus – Zy (mm³):	J / x–max= 19941.1200

PROPERTIES

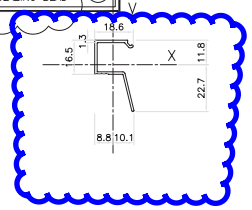
MODEL NO.: X86115 (B35)
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	841.5247
Perimeter (mm) :	583.0335
Bounding Box – X (mm):	-76.9148 to 53.6235
Bounding Box – Y (mm):	-20.7595 to 20.2405
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	114734.9628
Moments of inertia – Y (mm⁴) :	1074854.1941
Product of inertia – XY (mm⁴) :	216116.4806
Radii of gyration – X (mm) :	11.6765
Radii of gyration – Y (mm) :	35.7389
Principal moments along X–Y (mm⁴) :	68331.3150 along [0.9777 -0.2099]
Principal moments along Y–X (mm⁴) :	1121257.8419 along [0.2099 0.9777]
Elastic Modulus – Zx (mm³):	I / y–max= 5526.8668
Elastic Modulus – Zy (mm³):	J / x–max= 13974.6041

PROPERTIES

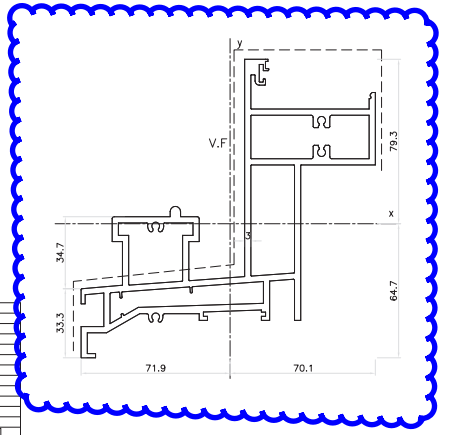
MODEL NO.: X86194 (B36)
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	75.1
Perimeter (mm) :	135.9
Bounding Box – X (mm):	-8.8 to 10.1
Bounding Box – Y (mm):	-22.7 to 11.8
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of inertia – X (mm⁴) :	7490.0
Moments of inertia – Y (mm⁴) :	3222.1
Product of inertia – XY (mm⁴) :	-2308.5
Radii of gyration – X (mm) :	10.0
Radii of gyration – Y (mm) :	6.6
Principal moments along X–Y (mm⁴) :	2212.4 along [0.4 -0.9]
Principal moments along Y–X (mm⁴) :	8499.8 along [0.9 0.4]
Elastic Modulus – Zx (mm³):	I / y–max= 330.6
Elastic Modulus – Zy (mm³):	J / x–max= 320.3

PROPERTIES

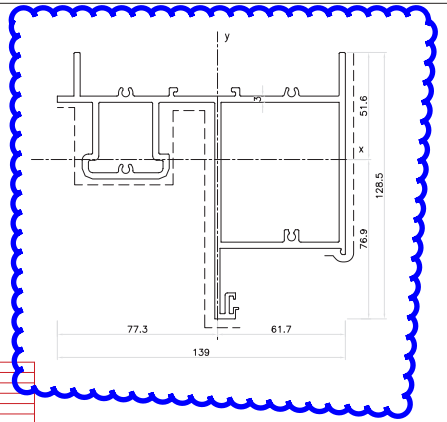
MODEL NO.: X86116 (B37)
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SILL
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2276.7161
Perimeter (mm) :	1505.4418
Bounding Box – X (mm):	-71.8991 to 70.0545
Bounding Box – Y (mm):	-64.6502 to 79.3400
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	3221436.2387
Moments of inertia – Y (mm⁴) :	3317945.8057
Product of inertia – XY (mm⁴) :	-2053304.2783
Radii of gyration – X (mm) :	37.6158
Radii of gyration – Y (mm) :	38.1751
Principal moments along X–Y (mm⁴) :	1215819.8024 along [0.7154 0.6988]
Principal moments along Y–X (mm⁴) :	5323562.2420 along [-0.6988 0.7154]
Elastic Modulus – Zx (mm³):	I / y–max= 40602.9162
Elastic Modulus – Zy (mm³):	J / x–max= 46147.2666

PROPERTIES

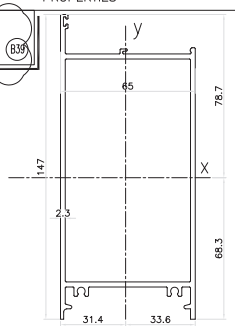
MODEL NO.: X86117 (B38)
FINISH: PVF2-3COATING
ALUM. HEAD
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1715.5027
Perimeter (mm) :	1189.5611
Bounding Box – X (mm):	-77.2868 to 61.6667
Bounding Box – Y (mm):	-76.9004 to 51.5996
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1782981.1160
Moments of inertia – Y (mm⁴) :	3046552.0809
Product of inertia – XY (mm⁴) :	564926.2089
Radii of gyration – X (mm) :	32.2387
Radii of gyration – Y (mm) :	42.1414
Principal moments along X–Y (mm⁴) :	1567244.0222 along [0.9342 -0.3568]
Principal moments along Y–X (mm⁴) :	3262289.1747 along [0.3568 0.9342]
Elastic Modulus – Zx (mm³):	I / y–max= 23185.5806
Elastic Modulus – Zy (mm³):	J / x–max= 39418.7638

PROPERTIES

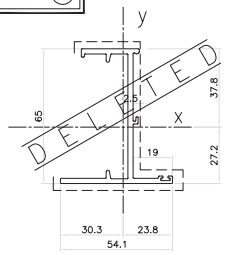
MODEL NO.: X86111
FINISH: PVF2-3COATING
ALUM. WINDOW SILL
GRADE 6063-T6 (B39)



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	990.1
Perimeter (mm) :	854.0
Bounding Box – X (mm):	-31.4 to 33.6
Bounding Box – Y (mm):	-68.3 to 78.7
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of inertia – X (mm⁴) :	2127313.2
Moments of inertia – Y (mm⁴) :	743721.8
Product of inertia – XY (mm⁴) :	-92470.1
Radii of gyration – X (mm) :	46.4
Radii of gyration – Y (mm) :	27.4
Principal moments along X–Y (mm⁴) :	737569.0 along [0.1 -1.0]
Principal moments along Y–X (mm⁴) :	2133465.9 along [1.0 0.1]
Elastic Modulus – Zx (mm³):	I / y–max= 27022.3
Elastic Modulus – Zy (mm³):	J / x–max= 22128.4

PROPERTIES

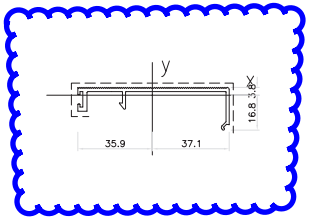
MODEL NO.:
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME
GRADE 6063-T6 (B40)



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	306
Perimeter (mm) :	318
Bounding Box – X (mm):	9320 to 9374
Bounding Box – Y (mm):	-3927 to -3862
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	204054
Moments of inertia – Y (mm⁴) :	53598
Product of inertia – XY (mm⁴) :	-8224
Radii of gyration – X (mm) :	26
Radii of gyration – Y (mm) :	10
Principal moments along X–Y (mm⁴) :	33190 along [0 -1]
Principal moments along Y–X (mm⁴) :	204450 along [1 0]
Elastic Modulus – Zx (mm³):	I / y–max= 52
Elastic Modulus – Zy (mm³):	J / x–max= 4

PROPERTIES

MODEL NO.: X86196 (B41)
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	197
Perimeter (mm) :	266
Bounding Box – X (mm):	-36 to 37
Bounding Box – Y (mm):	-17 to 4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	4024
Moments of inertia – Y (mm⁴) :	125077
Product of inertia – XY (mm⁴) :	3615
Radii of gyration – X (mm) :	5
Radii of gyration – Y (mm) :	25
Principal moments along X–Y (mm⁴) :	3917 along [1 0]
Principal moments along Y–X (mm⁴) :	125684 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 239
Elastic Modulus – Zy (mm³):	J / x–max= 3387

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. (/B) -- Reversed Detail

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

NO.	DATE	REVISED	BY
E	06.04.2022	GENERAL REVISION	
D	10.02.2022	GENERAL REVISION	
C	06.01.2022	GENERAL REVISION	
B	08.12.2021	GENERAL REVISION	
A	28.10.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES

JOB NO. : J-857

DRAWN BY : AN

DATE : 18.OCT.2021

CHKD BY :

SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0005

REV. : E

美 特 鋁 質 有 限 公 司
MIDI ALUMINIUM FABRICATOR LTD.

Our ref. MC/41353/857

8th July 2022

E Man Construction Co. Ltd.
29/F, AIA Tower, 183 Electric Road,
North Point, Hong Kong

By Email & Hand

Attn.: Mr. Adam Wong

Dear Sir,

Re: Design, Supply & Installation of Curtain Wall, Windows, Cladding and Glass Door for Residential Towers for Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Material Submission of Aluminium Extrusion Sample for French Door, Window and Louver (In-situ))

Regarding the captioned project, we would like to submit 1 set of Aluminium Extrusion (Xingfa) sample boards for Glass French Door, Window and Louver for your comment and approval.

Remark:
1) 1 set of Aluminium Extrusion (Xingfa) sample boards will be delivered to Mr. Gareth Chan directly.
(Address: 九龍城區承豐道啟德 6552 地盤 (維港一號對面)，陳先生收，TEL：6533 2451)

Should you have any query, please don't hesitate to liaise with us for information.

Thank you for your kind attention.

Yours faithfully,
MIDI ALUMINIUM FABRICATOR LTD.

Francis Mau
Managing Director

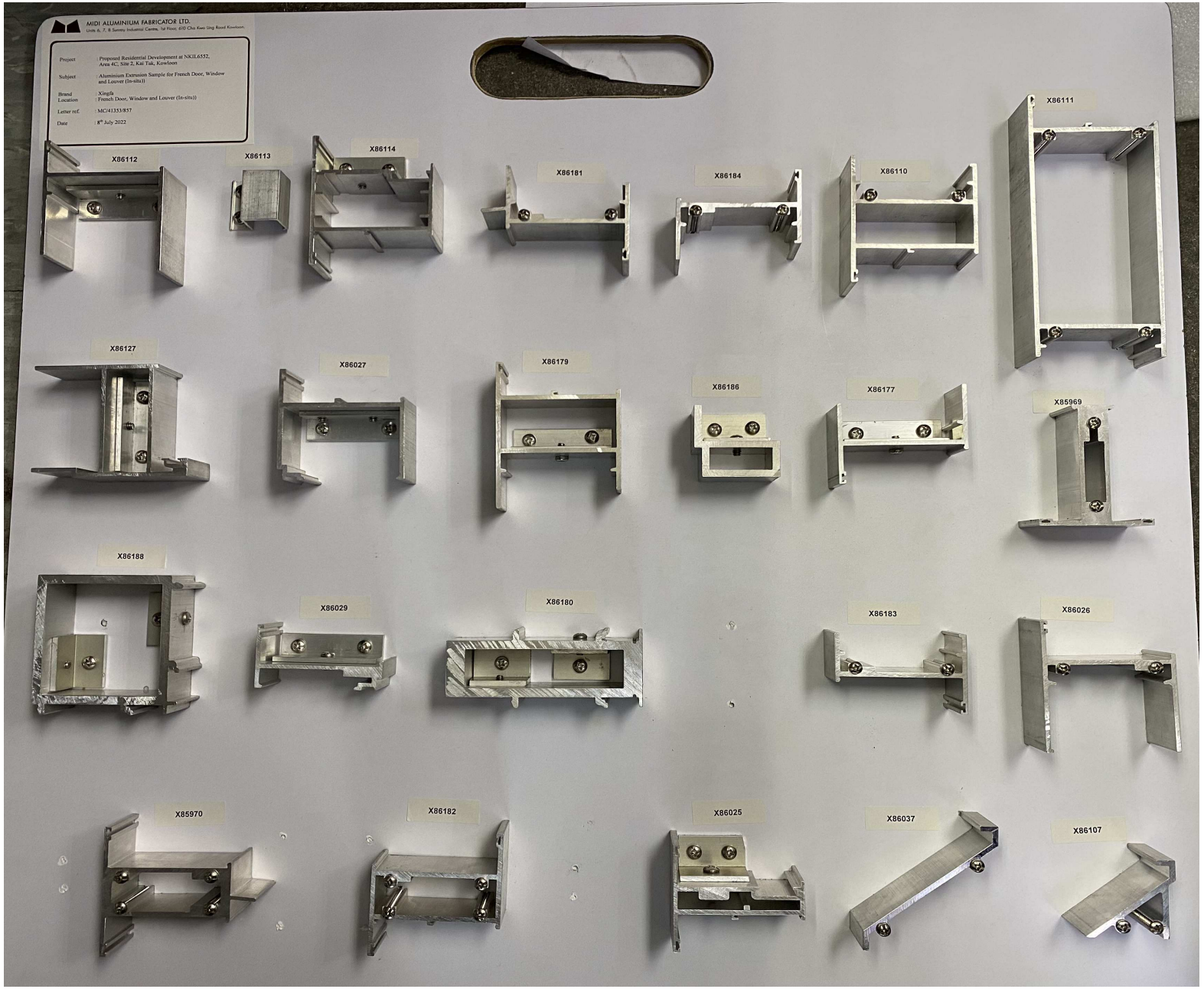
Encl - 6 page(s)

cc. E Man - Mr. Wilson Kwan / Mr. Alex Lee / Mr. Gareth Chan (w/e) (Email Only)

FM/MT/HWS/JK/JW/yl

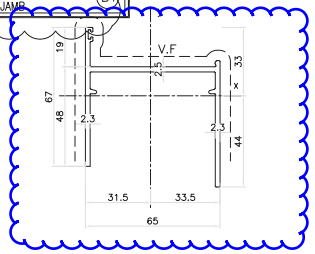
九龍荼果嶺道610號生利工業中心1樓6-8號
Units 6-8, 1st Floor, Sunray Industrial Centre, 610 Cha Kwo Ling Road, Kln.
TEL. (電話) : 2348 9211 FAX. (傳真) : 2772 7666 E-mail Address (電郵) : midi@midiltd.com.hk.

ISO 9001 : 2015
Certificate No: CC 1795


MIDI ALUMINIUM FABRICATOR LTD.
Units 6, 7, 8 Sunnity Industrial Centre, 1st Floor, 610 Cha Kwo Ling Road Kowloon.
Project : Proposed Residential Development at NKIL6552, Area 4C, Site 2, Kai Tak, Kowloon
Subject : Aluminium Extrusion Sample for French Door, Window and Louver (In-situ))
Brand : Xinglh
Location : French Door, Window and Louver (In-situ))
Letter ref. : MC/41353/857
Date : 8th July 2022
X86112
X86113
X86114
X86181
X86184
X86110
X86111
X86127
X86027
X86179
X86186
X86177
X85969
X86188
X86029
X86180
X86183
X86026
X85970
X86182
X86025
X86037
X86107

PROPERTIES

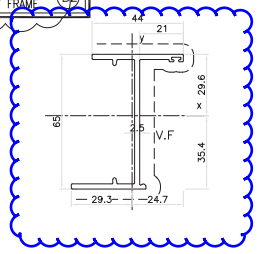
MODEL NO.: X86112
FINISH: PVF2-3COATING
ALUM. JAMB
B1
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	457.6301
Perimeter (mm) :	399.3524
Bounding Box – X (mm):	–31.4575 to 33.5425
Bounding Box – Y (mm):	–44.0171 to 32.9829
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	152218.2426
Moments of inertia – Y (mm⁴) :	344744.1925
Product of inertia – XY (mm⁴) :	–57914.7309
Radii of gyration – X (mm) :	18.2380
Radii of gyration – Y (mm) :	27.4468
Principal moments along X–Y (mm⁴) :	136139.4336 along [0.9636 –0.2675]
Principal moments along Y–X (mm⁴) :	360823.0014 along [0.2675 0.9636]
Elastic Modulus – Zx (mm³):	I / y–max= 3458.1632
Elastic Modulus – Zy (mm³):	J / x–max= 10277.8347

PROPERTIES

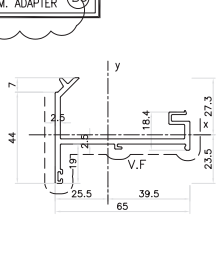
MODEL NO.: X86177
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME
B2
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	326.3235
Perimeter (mm) :	304.6785
Bounding Box – X (mm):	–29.3287 to 24.6713
Bounding Box – Y (mm):	–35.3500 to 29.6450
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	214409.2904
Moments of inertia – Y (mm⁴) :	314159.4852
Product of inertia – XY (mm⁴) :	31305.3420
Radii of gyration – X (mm) :	25.6329
Radii of gyration – Y (mm) :	9.8186
Principal moments along X–Y (mm⁴) :	262250.9753 along [0.1641 0.9864]
Principal moments along Y–X (mm⁴) :	219617.8002 along [–0.9864 0.1641]
Elastic Modulus – Zx (mm³):	I / y–max= 6064.4756
Elastic Modulus – Zy (mm³):	J / x–max= 1072.6509

PROPERTIES

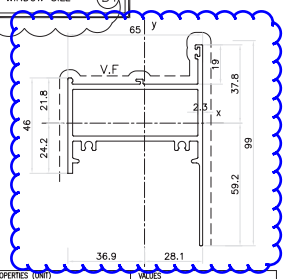
MODEL NO.: X86178
FINISH: PVF2-3COATING
ALUM. ADAPTER
B3
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	337.6438
Perimeter (mm) :	317.6410
Bounding Box – X (mm):	–25.5077 to 39.4923
Bounding Box – Y (mm):	–23.4661 to 25.5339
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	33122.5305
Moments of inertia – Y (mm⁴) :	191969.3583
Product of inertia – XY (mm⁴) :	–6855.1863
Radii of gyration – X (mm) :	9.9045
Radii of gyration – Y (mm) :	23.8444
Principal moments along X–Y (mm⁴) :	32827.2374 along [0.9991 –0.0430]
Principal moments along Y–X (mm⁴) :	192284.6515 along [0.0430 0.9991]
Elastic Modulus – Zx (mm³):	I / y–max= 1297.1965
Elastic Modulus – Zy (mm³):	J / x–max= 4860.9287

PROPERTIES

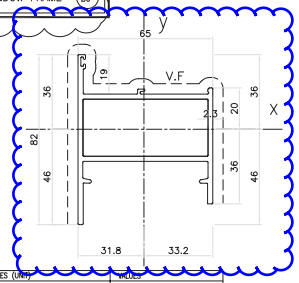
MODEL NO.: X86110
FINISH: PVF2-3COATING
ALUM. WINDOW SILL
B4
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	652
Perimeter (mm) :	584
Bounding Box – X (mm):	–37 to 28
Bounding Box – Y (mm):	–59 to 38
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	232109
Moments of inertia – Y (mm⁴) :	401611
Product of inertia – XY (mm⁴) :	30357
Radii of gyration – X (mm) :	19
Radii of gyration – Y (mm) :	25
Principal moments along X–Y (mm⁴) :	226837 along [1 0]
Principal moments along Y–X (mm⁴) :	406883 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 3939
Elastic Modulus – Zy (mm³):	J / x–max= 10930

PROPERTIES

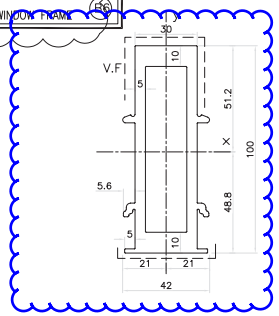
MODEL NO.: X86179
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME
B5
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2277.2
Perimeter (mm) :	368.8
Bounding Box – X (mm):	–31.8 to 33.2
Bounding Box – Y (mm):	–46.0 to 36.0
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of inertia – X (mm⁴) :	310511.3
Moments of inertia – Y (mm⁴) :	898059.9
Product of inertia – XY (mm⁴) :	–16572.2
Radii of gyration – X (mm) :	11.7
Radii of gyration – Y (mm) :	19.9
Principal moments along X–Y (mm⁴) :	310044.2 along [1.0 0.0]
Principal moments along Y–X (mm⁴) :	898477.0 along [0.0 1.0]
Elastic Modulus – Zx (mm³):	I / y–max= 6746.0
Elastic Modulus – Zy (mm³):	J / x–max= 27040.3

PROPERTIES

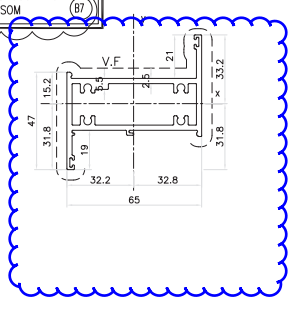
MODEL NO.: X86180
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME
B6
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1504.0380
Perimeter (mm) :	529.4938
Bounding Box – X (mm):	–21.0041 to 21.0041
Bounding Box – Y (mm):	–48.7872 to 51.2128
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1740251.2474
Moments of inertia – Y (mm⁴) :	204474.8237
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	34.0155
Radii of gyration – Y (mm) :	11.6598
Principal moments along X–Y (mm⁴) :	204474.8237 along [1.0000 –1.0000]
Principal moments along Y–X (mm⁴) :	1740251.2474 along [1.0000 0.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 33980.7879
Elastic Modulus – Zy (mm³):	J / x–max= 9735.0088

PROPERTIES

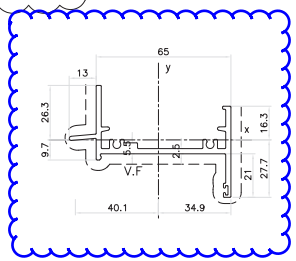
MODEL NO.: X86182
FINISH: PVF2-3COATING
ALUM. TRANSOM
B7
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	617.7749
Perimeter (mm) :	525.1018
Bounding Box – X (mm):	–32.1833 to 32.8167
Bounding Box – Y (mm):	–31.8417 to 33.1583
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	105694.6328
Moments of inertia – Y (mm⁴) :	350408.5096
Product of inertia – XY (mm⁴) :	–59267.7099
Radii of gyration – X (mm) :	13.0801
Radii of gyration – Y (mm) :	23.8162
Principal moments along X–Y (mm⁴) :	92096.1307 along [0.9747 0.2236]
Principal moments along Y–X (mm⁴) :	364007.0118 along [–0.2236 0.9747]
Elastic Modulus – Zx (mm³):	I / y–max= 3187.5781
Elastic Modulus – Zy (mm³):	J / x–max= 10677.7568

PROPERTIES

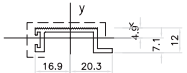
MODEL NO.:X86181
FINISH: PVF2-3COATING
ALUM. WINDOW HEAD
B8
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	435
Perimeter (mm) :	401
Bounding Box – X (mm):	9308 to 9386
Bounding Box – Y (mm):	–3928 to –3854
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	75305
Moments of inertia – Y (mm⁴) :	304844
Product of inertia – XY (mm⁴) :	–69052
Radii of gyration – X (mm) :	13
Radii of gyration – Y (mm) :	26
Principal moments along X–Y (mm⁴) :	56134 along [1 0]
Principal moments along Y–X (mm⁴) :	324015 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 19
Elastic Modulus – Zy (mm³):	J / x–max= 32

PROPERTIES

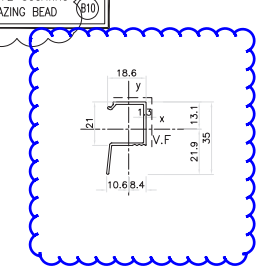
MODEL NO.:X86197
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
B9
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	114
Perimeter (mm) :	140
Bounding Box – X (mm):	–17 to 20
Bounding Box – Y (mm):	–7 to 5
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	1948
Moments of inertia – Y (mm⁴) :	16619
Product of inertia – XY (mm⁴) :	1405
Radii of gyration – X (mm) :	4
Radii of gyration – Y (mm) :	12
Principal moments along X–Y (mm⁴) :	1814 along [1 0]
Principal moments along Y–X (mm⁴) :	16753 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 273
Elastic Modulus – Zy (mm³):	J / x–max= 820

PROPERTIES

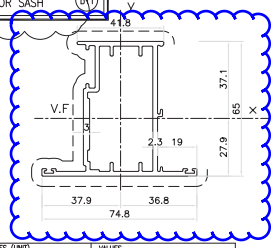
MODEL NO.:X86113
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
B10
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	79.1693
Perimeter (mm) :	141.9027
Bounding Box – X (mm):	–10.5968 to 8.4032
Bounding Box – Y (mm):	–21.8570 to 13.1430
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	8604.3592
Moments of inertia – Y (mm⁴) :	3802.7727
Product of inertia – XY (mm⁴) :	2251.2221
Radii of gyration – X (mm) :	10.4251
Radii of gyration – Y (mm) :	6.9306
Principal moments along X–Y (mm⁴) :	2912.3945 along [0.3678 0.9299]
Principal moments along Y–X (mm⁴) :	9494.7374 along [–0.9299 0.3678]
Elastic Modulus – Zx (mm³):	I / y–max= 393.6663
Elastic Modulus – Zy (mm³):	J / x–max= 358.8608

PROPERTIES

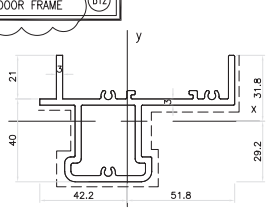
MODEL NO.: X86114
FINISH: PVF2-3COATING
ALUM. DOOR SASH
B11
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	606.0126
Perimeter (mm) :	557.9480
Bounding Box – X (mm):	–37.9127 to 36.8472
Bounding Box – Y (mm):	–27.8742 to 37.0996
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	359597.9049
Moments of inertia – Y (mm⁴) :	175730.1915
Product of inertia – XY (mm⁴) :	9839.7289
Radii of gyration – X (mm) :	24.3595
Radii of gyration – Y (mm) :	17.0287
Principal moments along X–Y (mm⁴) :	175205.1153 along [0.0533 0.9986]
Principal moments along Y–X (mm⁴) :	360122.9811 along [–0.9986 0.0533]
Elastic Modulus – Zx (mm³):	I / y–max= 9692.7607
Elastic Modulus – Zy (mm³):	J / x–max= 4635.1284

PROPERTIES

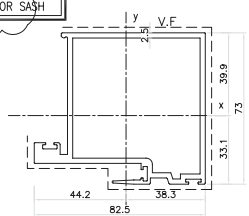
MODEL NO.: X86120
FINISH: PVF2-3COATING
ALUM. DOOR FRAME
B12
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	819.8345
Perimeter (mm) :	564.5632
Bounding Box – X (mm):	–42.1927 to 51.8073
Bounding Box – Y (mm):	–29.2360 to 31.7640
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	238410.9920
Moments of inertia – Y (mm⁴) :	580041.4137
Product of inertia – XY (mm⁴) :	–110663.8606
Radii of gyration – X (mm) :	17.0530
Radii of gyration – Y (mm) :	26.5991
Principal moments along X–Y (mm⁴) :	210956.0612 along [0.9648 0.2631]
Principal moments along Y–X (mm⁴) :	607496.3445 along [–0.2631 0.9648]
Elastic Modulus – Zx (mm³):	I / y–max= 7505.6943
Elastic Modulus – Zy (mm³):	J / x–max= 11196.1426

PROPERTIES

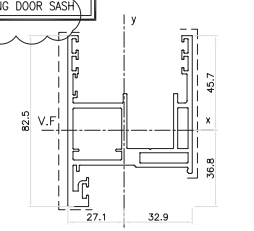
MODEL NO.: X86264
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B13
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	843.2682
Perimeter (mm) :	647.3552
Bounding Box – X (mm):	–44.2492 to 38.2508
Bounding Box – Y (mm):	–33.0795 to 39.9205
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	589200.2697
Moments of inertia – Y (mm⁴) :	658542.2785
Product of inertia – XY (mm⁴) :	–46694.1534
Radii of gyration – X (mm) :	26.4331
Radii of gyration – Y (mm) :	27.9453
Principal moments along X–Y (mm⁴) :	565873.1289 along [0.8938 0.4484]
Principal moments along Y–X (mm⁴) :	681869.4194 along [–0.4484 0.8938]
Elastic Modulus – Zx (mm³):	I / y–max= 14759.3374
Elastic Modulus – Zy (mm³):	J / x–max= 14882.5940

PROPERTIES

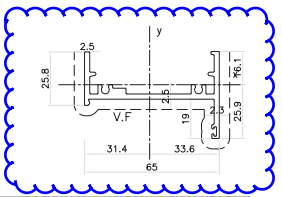
MODEL NO.: X86123
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
B14
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	866.9237
Perimeter (mm) :	737.3565
Bounding Box – X (mm):	–27.1468 to 32.8532
Bounding Box – Y (mm):	–36.8109 to 45.6891
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	366725.7988
Moments of inertia – Y (mm⁴) :	444074.9649
Product of inertia – XY (mm⁴) :	–73068.5143
Radii of gyration – X (mm) :	20.5674
Radii of gyration – Y (mm) :	22.6328
Principal moments along X–Y (mm⁴) :	322727.9490 along [0.8567 0.5158]
Principal moments along Y–X (mm⁴) :	488072.8147 along [–0.5158 0.8567]
Elastic Modulus – Zx (mm³):	I / y–max= 8026.5546
Elastic Modulus – Zy (mm³):	J / x–max= 13516.9341

PROPERTIES

MODEL NO.: X86183
FINISH: PVF2-3COATING
ALUM. JAMB
B15
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	404.2980
Perimeter (mm) :	371.7452
Bounding Box – X (mm):	–31.3860 to 33.6140
Bounding Box – Y (mm):	–25.9498 to 46.0502
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	71844.4546
Moments of inertia – Y (mm⁴) :	264516.3701
Product of inertia – XY (mm⁴) :	–63841.4491
Radii of gyration – X (mm) :	13.3305
Radii of gyration – Y (mm) :	25.5785
Principal moments along X–Y (mm⁴) :	52610.7477 along [0.9575 –0.2885]
Principal moments along Y–X (mm⁴) :	283750.0769 along [0.2885 0.9575]
Elastic Modulus – Zx (mm³):	I / y–max= 1560.1336
Elastic Modulus – Zy (mm³):	J / x–max= 7869.2343

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. /B -- Reversed Detail

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

NO.	DATE	REVISED	BY
E	06.04.2022	GENERAL REVISION	
D	10.02.2022	GENERAL REVISION	
C	06.01.2022	GENERAL REVISION	
B	26.12.2021	GENERAL REVISION	
A	28.10.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
CMA C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES

JOB NO. : J–857

DRAWN BY : AN

DATE : 18.OCT.2021

CHKD BY :

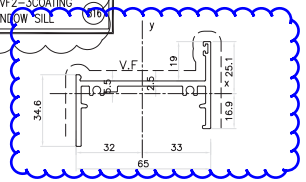
SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0003

REV. : E

PROPERTIES

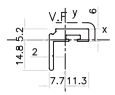
MODEL NO.: X86184
FINISH: PVF2-3COATING
ALUM. WINDOW SILL (B16)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	396.8018
Perimeter (mm) :	361.7503
Bounding Box – X (mm):	-31.9648 to 33.0352
Bounding Box – Y (mm):	-41.8746 to 25.1279
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	57372.4406
Moments of inertia – Y (mm⁴) :	257346.4129
Product of inertia – XY (mm⁴) :	53661.5072
Radii of gyration – X (mm) :	12.0244
Radii of gyration – Y (mm) :	25.4667
Principal moments along X–Y (mm⁴) :	43852.7582 along [0.9698 0.2438]
Principal moments along Y–X (mm⁴) :	270836.0973 along [-0.2438 0.9698]
Elastic Modulus – Zx (mm³):	I / y–max= 1370.1000
Elastic Modulus – Zy (mm³):	J / x–max= 7790.0592

PROPERTIES

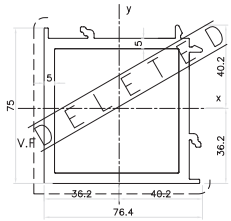
MODEL NO.: X86130
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD (B17)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	116.4294
Perimeter (mm) :	87.3417
Bounding Box – X (mm):	-7.6645 to 11.3355
Bounding Box – Y (mm):	-14.7578 to 5.2425
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	2814.7570
Moments of inertia – Y (mm⁴) :	4438.0783
Product of inertia – XY (mm⁴) :	1987.0893
Radii of gyration – X (mm) :	4.9169
Radii of gyration – Y (mm) :	6.1740
Principal moments along X–Y (mm⁴) :	1479.8423 along [0.8301 0.5576]
Principal moments along Y–X (mm⁴) :	5772.8930 along [-0.5576 0.8301]
Elastic Modulus – Zx (mm³):	I / y–max= 190.7301
Elastic Modulus – Zy (mm³):	J / x–max= 391.5190

PROPERTIES

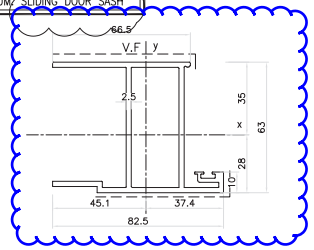
MODEL NO.:
FINISH: PVF2-3COATING
ALUM. CORNER MULLION (B18)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1398.5989
Perimeter (mm) :	591.9072
Bounding Box – X (mm):	-36.1916 to 40.2084
Bounding Box – Y (mm):	-36.1922 to 40.2078
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1019535.0696
Moments of inertia – Y (mm⁴) :	1019515.7176
Product of inertia – XY (mm⁴) :	-16192.4093
Radii of gyration – X (mm) :	26.9994
Radii of gyration – Y (mm) :	26.9992
Principal moments along X–Y (mm⁴) :	1003332.9814 along [0.7069 -0.7073]
Principal moments along Y–X (mm⁴) :	1035717.8057 along [0.7073 0.7069]
Elastic Modulus – Zx (mm³):	I / y–max= 25356.6776
Elastic Modulus – Zy (mm³):	J / x–max= 25355.7963

PROPERTIES

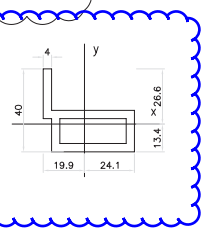
MODEL NO.: X86127
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH (B19)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	720.6376
Perimeter (mm) :	582.4042
Bounding Box – X (mm):	-45.0630 to 37.4370
Bounding Box – Y (mm):	-27.9563 to 35.0437
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	440411.9169
Moments of inertia – Y (mm⁴) :	314436.8021
Product of inertia – XY (mm⁴) :	77841.7694
Radii of gyration – X (mm) :	24.7213
Radii of gyration – Y (mm) :	20.8885
Principal moments along X–Y (mm⁴) :	477558.1373 along [0.9025 0.4307]
Principal moments along Y–X (mm⁴) :	277290.5817 along [-0.4307 0.9025]
Elastic Modulus – Zx (mm³):	I / y–max= 12567.4997
Elastic Modulus – Zy (mm³):	J / x–max= 6977.7192

PROPERTIES

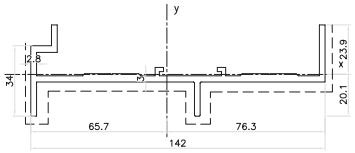
MODEL NO.: X86186
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH (B20)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	512
Perimeter (mm) :	256
Bounding Box – X (mm):	-20 to 24
Bounding Box – Y (mm):	-13 to 27
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	51939
Moments of inertia – Y (mm⁴) :	111779
Product of inertia – XY (mm⁴) :	30888
Radii of gyration – X (mm) :	10
Radii of gyration – Y (mm) :	15
Principal moments along X–Y (mm⁴) :	38855 along [1 0]
Principal moments along Y–X (mm⁴) :	124862 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 1951
Elastic Modulus – Zy (mm³):	J / x–max= 4633

PROPERTIES

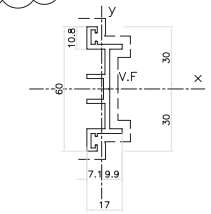
MODEL NO.: X86118
FINISH: PVF2-3COATING
ALUM. DOOR. FRAME (B21)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	761.3606
Perimeter (mm) :	499.5339
Bounding Box – X (mm):	-65.6614 to 76.2921
Bounding Box – Y (mm):	-20.1480 to 23.8520
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	47017.5152
Moments of inertia – Y (mm⁴) :	1754003.0521
Product of inertia – XY (mm⁴) :	-12796.1029
Radii of gyration – X (mm) :	7.8584
Radii of gyration – Y (mm) :	47.9976
Principal moments along X–Y (mm⁴) :	46921.5970 along [1.0000 0.0075]
Principal moments along Y–X (mm⁴) :	1754098.9704 along [-0.0075 1.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 1971.2224
Elastic Modulus – Zy (mm³):	J / x–max= 22980.6143

PROPERTIES

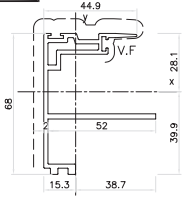
MODEL NO.: X86126
FINISH: PVF2-3COATING
ALUM. DOOR. JAMB (B22)
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	256.9155
Perimeter (mm) :	240.1841
Bounding Box – X (mm):	-7.1369 to 9.8631
Bounding Box – Y (mm):	-30.0000 to 30.0000
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	78744.1890
Moments of inertia – Y (mm⁴) :	4673.3542
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	17.5071
Radii of gyration – Y (mm) :	4.2650
Principal moments along X–Y (mm⁴) :	4673.3542 along [0.0000 -1.0000]
Principal moments along Y–X (mm⁴) :	78744.1890 along [1.0000 0.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 2624.8063
Elastic Modulus – Zy (mm³):	J / x–max= 473.8217

PROPERTIES

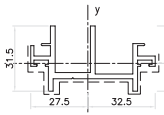
MODEL NO.: X86122
FINISH: PVF2-3COATING
ALUM. DOOR. JAMB (B23)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	485.0154
Perimeter (mm) :	458.1533
Bounding Box – X (mm):	-15.3399 to 38.6601
Bounding Box – Y (mm):	-39.8639 to 28.1361
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	222280.8428
Moments of inertia – Y (mm⁴) :	101941.3166
Product of inertia – XY (mm⁴) :	-16071.6610
Radii of gyration – X (mm) :	21.4079
Radii of gyration – Y (mm) :	14.4976
Principal moments along X–Y (mm⁴) :	224390.2791 along [0.9915 -0.1301]
Principal moments along Y–X (mm⁴) :	99831.8803 along [0.1301 0.9915]
Elastic Modulus – Zx (mm³):	I / y–max= 5575.9982
Elastic Modulus – Zy (mm³):	J / x–max= 2636.8633

PROPERTIES

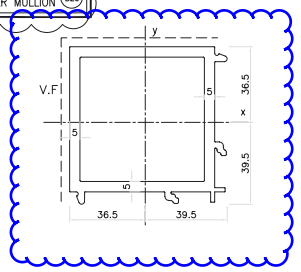
MODEL NO.: X86187
FINISH: PVF2-3COATING
ALUM. DOOR. JAMB (B24)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	351.0259
Perimeter (mm) :	317.8257
Bounding Box – X (mm):	-27.4954 to 32.5046
Bounding Box – Y (mm):	-13.4110 to 18.0890
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	18552.3096
Moments of inertia – Y (mm⁴) :	108319.6340
Product of inertia – XY (mm⁴) :	-6061.7860
Radii of gyration – X (mm) :	7.2699
Radii of gyration – Y (mm) :	17.5665
Principal moments along X–Y (mm⁴) :	18144.8205 along [0.9977 -0.0671]
Principal moments along Y–X (mm⁴) :	108727.1231 along [0.0671 0.9977]
Elastic Modulus – Zx (mm³):	I / y–max= 1025.6115
Elastic Modulus – Zy (mm³):	J / x–max= 3332.4358

PROPERTIES

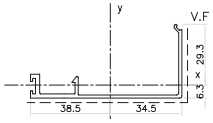
MODEL NO.: X86188
FINISH: PVF2-3COATING
ALUM. CORNER MULLION (B25)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1403.6618
Perimeter (mm) :	589.5514
Bounding Box – X (mm):	-36.4894 to 39.5131
Bounding Box – Y (mm):	-39.5131 to 36.4894
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1023673.5154
Moments of inertia – Y (mm⁴) :	1023671.5870
Product of inertia – XY (mm⁴) :	-6712.3488
Radii of gyration – X (mm) :	27.0053
Radii of gyration – Y (mm) :	27.0053
Principal moments along X–Y (mm⁴) :	1016960.2023 along [0.7071 -0.7072]
Principal moments along Y–X (mm⁴) :	1030384.9001 along [0.7072 0.7071]
Elastic Modulus – Zx (mm³):	I / y–max= 25907.2048
Elastic Modulus – Zy (mm³):	J / x–max= 25902.1725

PROPERTIES

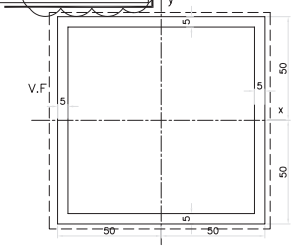
MODEL NO.: X86131
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH (B26)
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	213.1026
Perimeter (mm) :	266.8683
Bounding Box – X (mm):	-38.5041 to 34.4959
Bounding Box – Y (mm):	-6.2765 to 29.3235
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	16565.4932
Moments of inertia – Y (mm⁴) :	154005.1950
Product of inertia – XY (mm⁴) :	-22591.2268
Radii of gyration – X (mm) :	8.8167
Radii of gyration – Y (mm) :	26.8827
Principal moments along X–Y (mm⁴) :	12947.3774 along [0.9874 0.1581]
Principal moments along Y–X (mm⁴) :	157623.3108 along [-0.1581 0.9874]
Elastic Modulus – Zx (mm³):	I / y–max= 564.9215
Elastic Modulus – Zy (mm³):	J / x–max= 3999.7113

PROPERTIES

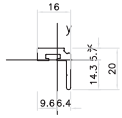
MODEL NO.: X86189
FINISH: PVF2-3COATING
ALUM. CORNER MULLION (B27)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1900.0000
Perimeter (mm) :	760.0000
Bounding Box – X (mm):	-50.0000 to 50.0000
Bounding Box – Y (mm):	-50.0000 to 50.0000
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	2865833.3333
Moments of inertia – Y (mm⁴) :	2865833.3333
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	38.8373
Radii of gyration – Y (mm) :	38.8373
Principal moments along X–Y (mm⁴) :	2865833.3333 along [1.0000 0.0000]
Principal moments along Y–X (mm⁴) :	2865833.3333 along [0.0000 1.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 57316.6667
Elastic Modulus – Zy (mm³):	J / x–max= 57316.6667

PROPERTIES

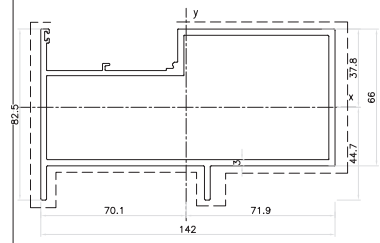
MODEL NO.: X86265
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD (B28)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	98
Perimeter (mm) :	81
Bounding Box – X (mm):	-10 to 6
Bounding Box – Y (mm):	-14 to 6
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	2654
Moments of inertia – Y (mm⁴) :	2784
Product of inertia – XY (mm⁴) :	1589
Radii of gyration – X (mm) :	5
Radii of gyration – Y (mm) :	5
Principal moments along X–Y (mm⁴) :	1129 along [1 -1]
Principal moments along Y–X (mm⁴) :	4309 along [1 1]
Elastic Modulus – Zx (mm³):	I / y–max= 185
Elastic Modulus – Zy (mm³):	J / x–max= 291

PROPERTIES

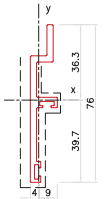
MODEL NO.: X86128
FINISH: PVF2-3COATING
ALUM. CORNER MULLION (B29)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1334.5298
Perimeter (mm) :	931.0036
Bounding Box – X (mm):	-70.0839 to 71.8696
Bounding Box – Y (mm):	-44.7359 to 37.8035
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	939735.7822
Moments of inertia – Y (mm⁴) :	3285765.1815
Product of inertia – XY (mm⁴) :	-245961.6694
Radii of gyration – X (mm) :	26.5362
Radii of gyration – Y (mm) :	49.6197
Principal moments along X–Y (mm⁴) :	914226.1273 along [0.9947 0.1032]
Principal moments along Y–X (mm⁴) :	3311274.8363 along [-0.1032 0.9947]
Elastic Modulus – Zx (mm³):	I / y–max= 21006.3021
Elastic Modulus – Zy (mm³):	J / x–max= 45718.4376

PROPERTIES

MODEL NO.: X86190
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH (B30)
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	285.9227
Perimeter (mm) :	217.4504
Bounding Box – X (mm):	-4.0031 to 8.9969
Bounding Box – Y (mm):	-39.6737 to 36.3263
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	122231.1641
Moments of inertia – Y (mm⁴) :	3864.2522
Product of inertia – XY (mm⁴) :	-12236.2692
Radii of gyration – X (mm) :	20.6760
Radii of gyration – Y (mm) :	3.6763
Principal moments along X–Y (mm⁴) :	123482.8613 along [0.9948 -0.1018]
Principal moments along Y–X (mm⁴) :	2612.5549 along [0.1018 0.9948]
Elastic Modulus – Zx (mm³):	I / y–max= 3080.9106
Elastic Modulus – Zy (mm³):	J / x–max= 429.5075

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. (/B) -- Reversed Detail

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

NO.	DATE	REVISED	BY
E	06.04.2022	GENERAL REVISION	
D	10.02.2022	GENERAL REVISION	
C	06.01.2022	GENERAL REVISION	
B	08.12.2021	GENERAL REVISION	
A	28.10.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES

JOB NO. : J-857

DRAWN BY : AN

DATE : 18.OCT.2021

CHKD BY :

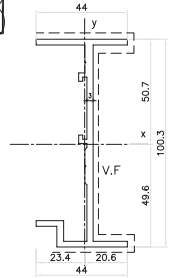
SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0004

REV. : E

PROPERTIES

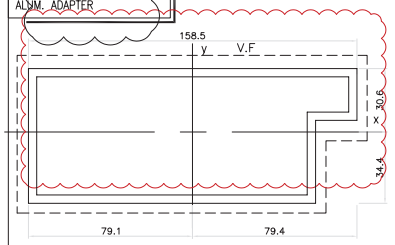
MODEL NO.: X86121 (B31)
FINISH: PVF2-3COATING
ALUM. DOOR. FRAME
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	612.7500
Perimeter (mm) :	414.1569
Bounding Box – X (mm):	-23.4103 to 20.5897
Bounding Box – Y (mm):	-49.5623 to 50.6877
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	859407.0307
Moments of inertia – Y (mm⁴) :	462155.9107
Product of inertia – XY (mm⁴) :	-10872.3092
Radii of gyration – X (mm) :	37.4505
Radii of gyration – Y (mm) :	27.4894
Principal moments along X–Y (mm⁴) :	859552.3756 along [0.9999 -0.0134]
Principal moments along Y–X (mm⁴) :	462120.5658 along [0.0134 0.9999]
Elastic Modulus – Zx (mm³):	I / y–max= 16954.9323
Elastic Modulus – Zy (mm³):	J / x–max= 1976.3079

PROPERTIES

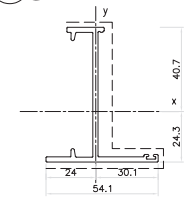
MODEL NO.: X86192 (B32)
FINISH: PVF2-3COATING
ALUM. ADAPTER
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1696.0000
Perimeter (mm) :	848.0000
Bounding Box – X (mm):	-75.6132 to 79.3868
Bounding Box – Y (mm):	-34.3968 to 30.6132
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1205387.5975
Moments of inertia – Y (mm⁴) :	4857267.5975
Product of inertia – XY (mm⁴) :	-249237.7358
Radii of gyration – X (mm) :	26.6594
Radii of gyration – Y (mm) :	52.4026
Principal moments along X–Y (mm⁴) :	1187484.6193 along [0.9974 0.0716]
Principal moments along Y–X (mm⁴) :	4875170.5757 along [-0.0716 0.9974]
Elastic Modulus – Zx (mm³):	I / y–max= 35053.7957
Elastic Modulus – Zy (mm³):	J / x–max= 58665.5217

PROPERTIES

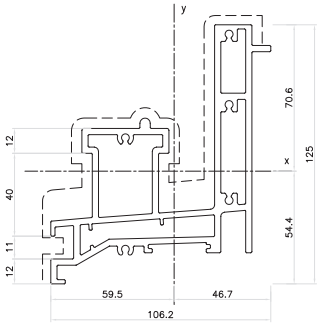
MODEL NO.: X86238 (B44)
FINISH: PVF2-3COATING
ALUM. WINDOW SILL
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	341.6546
Perimeter (mm) :	290.3449
Bounding Box – X (mm):	-24.0093 to 30.0530
Bounding Box – Y (mm):	-24.3446 to 40.6554
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	206801.8007
Moments of inertia – Y (mm⁴) :	380341.5369
Product of inertia – XY (mm⁴) :	197651.3192
Radii of gyration – X (mm) :	24.6027
Radii of gyration – Y (mm) :	10.5510
Principal moments along X–Y (mm⁴) :	209085.7243 along [0.9934 0.1148]
Principal moments along Y–X (mm⁴) :	35750.6133 along [-0.1148 0.9934]
Elastic Modulus – Zx (mm³):	I / y–max= 5086.6998
Elastic Modulus – Zy (mm³):	J / x–max= 1265.5837

PROPERTIES

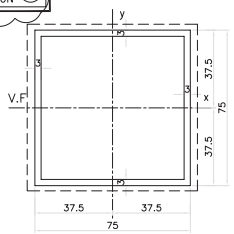
MODEL NO.: X86119 (B33)
FINISH: PVF2-3COATING
ALUM. DOOR SILL
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1933.5371
Perimeter (mm) :	1239.8999
Bounding Box – X (mm):	-59.4813 to 46.6687
Bounding Box – Y (mm):	-54.3994 to 70.6106
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	2049405.3174
Moments of inertia – Y (mm⁴) :	1817557.9199
Product of inertia – XY (mm⁴) :	-974927.5042
Radii of gyration – X (mm) :	32.5565
Radii of gyration – Y (mm) :	30.6597
Principal moments along X–Y (mm⁴) :	2915276.8836 along [0.7477 -0.6641]
Principal moments along Y–X (mm⁴) :	951686.3537 along [0.6641 0.7477]
Elastic Modulus – Zx (mm³):	I / y–max= 29024.0432
Elastic Modulus – Zy (mm³):	J / x–max= 30556.7754

PROPERTIES

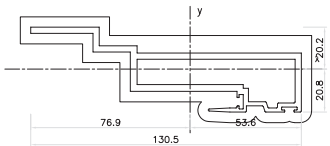
MODEL NO.: X86193 (B34)
FINISH: PVF2-3COATING
ALUM. CORNER MULLION
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	864.0000
Perimeter (mm) :	576.0000
Bounding Box – X (mm):	-37.5000 to 37.5000
Bounding Box – Y (mm):	-37.5000 to 37.5000
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	747792.0000
Moments of inertia – Y (mm⁴) :	747792.0000
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	29.4194
Radii of gyration – Y (mm) :	29.4194
Principal moments along X–Y (mm⁴) :	747792.0000 along [1.0000 0.0000]
Principal moments along Y–X (mm⁴) :	747792.0000 along [0.0000 1.0000]
Elastic Modulus – Zx (mm³):	I / y–max= 19941.1200
Elastic Modulus – Zy (mm³):	J / x–max= 19941.1200

PROPERTIES

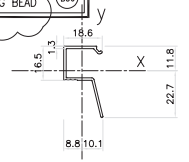
MODEL NO.: X86115 (B35)
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	841.5247
Perimeter (mm) :	583.0335
Bounding Box – X (mm):	-76.9148 to 53.6235
Bounding Box – Y (mm):	-20.7595 to 20.2405
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	114734.9628
Moments of inertia – Y (mm⁴) :	1074854.1941
Product of inertia – XY (mm⁴) :	216116.4806
Radii of gyration – X (mm) :	11.6765
Radii of gyration – Y (mm) :	35.7389
Principal moments along X–Y (mm⁴) :	68331.3150 along [0.9777 -0.2099]
Principal moments along Y–X (mm⁴) :	1121257.8419 along [0.2099 0.9777]
Elastic Modulus – Zx (mm³):	I / y–max= 5526.8668
Elastic Modulus – Zy (mm³):	J / x–max= 13974.6041

PROPERTIES

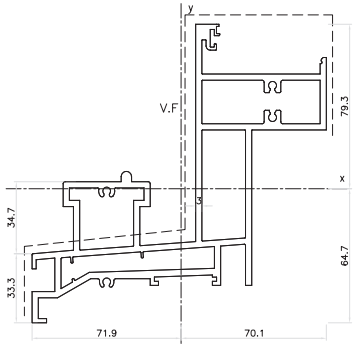
MODEL NO.: X86194 (B36)
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	75.1
Perimeter (mm) :	135.9
Bounding Box – X (mm):	-8.8 to 10.1
Bounding Box – Y (mm):	-22.7 to 11.8
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of inertia – X (mm⁴) :	7490.0
Moments of inertia – Y (mm⁴) :	3222.1
Product of inertia – XY (mm⁴) :	-2308.5
Radii of gyration – X (mm) :	10.0
Radii of gyration – Y (mm) :	6.6
Principal moments along X–Y (mm⁴) :	2212.4 along [0.4 -0.9]
Principal moments along Y–X (mm⁴) :	8499.8 along [0.9 0.4]
Elastic Modulus – Zx (mm³):	I / y–max= 330.6
Elastic Modulus – Zy (mm³):	J / x–max= 320.3

PROPERTIES

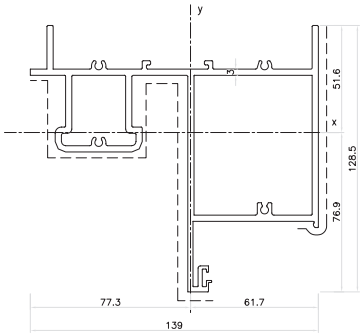
MODEL NO.: X86116 (B37)
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SILL
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	2276.7161
Perimeter (mm) :	1505.4418
Bounding Box – X (mm):	-71.8991 to 70.0545
Bounding Box – Y (mm):	-64.6502 to 79.3400
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	3221436.2387
Moments of inertia – Y (mm⁴) :	3317945.8057
Product of inertia – XY (mm⁴) :	-2053304.2783
Radii of gyration – X (mm) :	37.6158
Radii of gyration – Y (mm) :	38.1751
Principal moments along X–Y (mm⁴) :	1215819.8024 along [0.7154 0.6988]
Principal moments along Y–X (mm⁴) :	5323562.2420 along [-0.6988 0.7154]
Elastic Modulus – Zx (mm³):	I / y–max= 40602.9162
Elastic Modulus – Zy (mm³):	J / x–max= 46147.2666

PROPERTIES

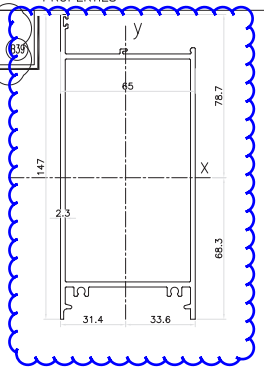
MODEL NO.: X86117 (B38)
FINISH: PVF2-3COATING
ALUM. HEAD
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1715.5027
Perimeter (mm) :	1189.5611
Bounding Box – X (mm):	-77.2868 to 61.6667
Bounding Box – Y (mm):	-76.9004 to 51.5996
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1782981.1160
Moments of inertia – Y (mm⁴) :	3046552.0809
Product of inertia – XY (mm⁴) :	564926.2089
Radii of gyration – X (mm) :	32.2387
Radii of gyration – Y (mm) :	42.1414
Principal moments along X–Y (mm⁴) :	1567244.0222 along [0.9342 -0.3568]
Principal moments along Y–X (mm⁴) :	3262289.1747 along [0.3568 0.9342]
Elastic Modulus – Zx (mm³):	I / y–max= 23185.5806
Elastic Modulus – Zy (mm³):	J / x–max= 39418.7638

PROPERTIES

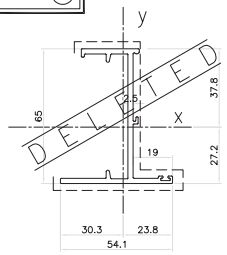
MODEL NO.: X86111 (B39)
FINISH: PVF2-3COATING
ALUM. WINDOW SILL
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	990.1
Perimeter (mm) :	854.0
Bounding Box – X (mm):	-31.4 to 33.6
Bounding Box – Y (mm):	-68.3 to 78.7
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of inertia – X (mm⁴) :	2127313.2
Moments of inertia – Y (mm⁴) :	743721.8
Product of inertia – XY (mm⁴) :	-92470.1
Radii of gyration – X (mm) :	46.4
Radii of gyration – Y (mm) :	27.4
Principal moments along X–Y (mm⁴) :	737569.0 along [0.1 -1.0]
Principal moments along Y–X (mm⁴) :	2133465.9 along [1.0 0.1]
Elastic Modulus – Zx (mm³):	I / y–max= 27022.3
Elastic Modulus – Zy (mm³):	J / x–max= 22128.4

PROPERTIES

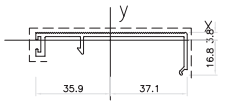
MODEL NO.:
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME (B40)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	306
Perimeter (mm) :	318
Bounding Box – X (mm):	9320 to 9374
Bounding Box – Y (mm):	-3927 to -3862
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	204054
Moments of inertia – Y (mm⁴) :	53586
Product of inertia – XY (mm⁴) :	-8224
Radii of gyration – X (mm) :	26
Radii of gyration – Y (mm) :	10
Principal moments along X–Y (mm⁴) :	33190 along [0 -1]
Principal moments along Y–X (mm⁴) :	204450 along [1 0]
Elastic Modulus – Zx (mm³):	I / y–max= 52
Elastic Modulus – Zy (mm³):	J / x–max= 4

PROPERTIES

MODEL NO.: X86196 (B41)
FINISH: PVF2-3COATING
ALUM. SLIDING DOOR SASH
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	197
Perimeter (mm) :	266
Bounding Box – X (mm):	-36 to 37
Bounding Box – Y (mm):	-17 to 4
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	4024
Moments of inertia – Y (mm⁴) :	125077
Product of inertia – XY (mm⁴) :	3615
Radii of gyration – X (mm) :	5
Radii of gyration – Y (mm) :	25
Principal moments along X–Y (mm⁴) :	3917 along [1 0]
Principal moments along Y–X (mm⁴) :	125684 along [0 1]
Elastic Modulus – Zx (mm³):	I / y–max= 239
Elastic Modulus – Zy (mm³):	J / x–max= 3387

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. (/B) -- Reversed Detail

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

NO.	DATE	REVISED	BY
E	06.04.2022	GENERAL REVISION	
D	10.02.2022	GENERAL REVISION	
C	06.01.2022	GENERAL REVISION	
B	08.12.2021	GENERAL REVISION	
A	28.10.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
CMA C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES

JOB NO. : J-857

DRAWN BY : AN

DATE : 18.OCT.2021

CHKD BY :

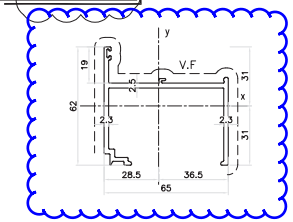
SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0005

REV. : E

PROPERTIES

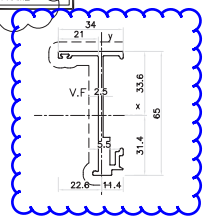
MODEL NO.: X86027
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME (A3)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	436.9452
Perimeter (mm) :	384.9001
Bounding Box – X (mm):	-28.4798 to 36.5202
Bounding Box – Y (mm):	-31.0373 to 30.9627
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	114067.7722
Moments of inertia – Y (mm⁴) :	299934.9716
Product of inertia – XY (mm⁴) :	-13245.5745
Radii of gyration – X (mm) :	16.1573
Radii of gyration – Y (mm) :	26.1999
Principal moments along X–Y (mm⁴) :	113128.5899 along [0.9975 -0.0707]
Principal moments along Y–X (mm⁴) :	300874.1539 along [0.0707 0.9975]
Elastic Modulus – Zx (mm³):	I / y-max= 3675.1778
Elastic Modulus – Zy (mm³):	J / x-max= 8212.8409

PROPERTIES

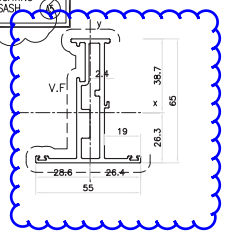
MODEL NO.: X86029
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME (A4)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	354.9265
Perimeter (mm) :	254.6850
Bounding Box – X (mm):	-22.4121 to 11.3879
Bounding Box – Y (mm):	-31.4019 to 33.5981
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	201199.4445
Moments of inertia – Y (mm⁴) :	14207.2813
Product of inertia – XY (mm⁴) :	-24777.4007
Radii of gyration – X (mm) :	23.8092
Radii of gyration – Y (mm) :	6.3268
Principal moments along X–Y (mm⁴) :	10979.8558 along [0.1292 -0.9916]
Principal moments along Y–X (mm⁴) :	204426.8702 along [0.9916 0.1292]
Elastic Modulus – Zx (mm³):	I / y-max= 5988.4259
Elastic Modulus – Zy (mm³):	J / x-max= 626.3041

PROPERTIES

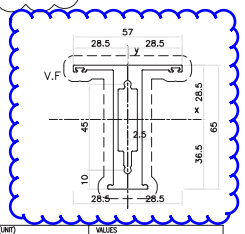
MODEL NO.: X86025
FINISH: PVF2-3COATING
ALUM. WINDOW SASH (A5)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	549.5192
Perimeter (mm) :	444.4979
Bounding Box – X (mm):	-28.5960 to 26.4140
Bounding Box – Y (mm):	-26.3221 to 38.6779
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	245401.1638
Moments of inertia – Y (mm⁴) :	45429.1443
Product of inertia – XY (mm⁴) :	10442.3289
Radii of gyration – X (mm) :	21.2611
Radii of gyration – Y (mm) :	9.0923
Principal moments along X–Y (mm⁴) :	44893.3309 along [0.0512 0.9987]
Principal moments along Y–X (mm⁴) :	245936.3772 along [-0.9987 0.0512]
Elastic Modulus – Zx (mm³):	I / y-max= 6422.3030
Elastic Modulus – Zy (mm³):	J / x-max= 1589.2112

PROPERTIES

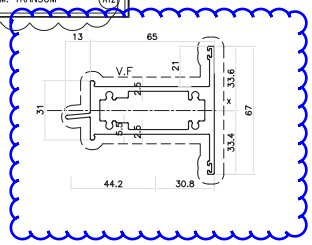
MODEL NO.: X85969
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME (A6)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	657.5075
Perimeter (mm) :	387.6716
Bounding Box – X (mm):	-28.5000 to 28.5000
Bounding Box – Y (mm):	-36.5484 to 28.4516
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	373781.4477
Moments of inertia – Y (mm⁴) :	51893.1924
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	23.8429
Radii of gyration – Y (mm) :	8.8839
Principal moments along X–Y (mm⁴) :	51893.1924 along [0.0000 1.0000]
Principal moments along Y–X (mm⁴) :	373781.4477 along [-1.0000 0.0000]
Elastic Modulus – Zx (mm³):	I / y-max= 10227.0396
Elastic Modulus – Zy (mm³):	J / x-max= 1820.8138

PROPERTIES

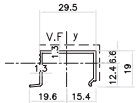
MODEL NO.: X85970
FINISH: PVF2-3COATING
ALUM. TRANSOM (A12)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	809
Perimeter (mm) :	496
Bounding Box – X (mm):	9323 to 9381
Bounding Box – Y (mm):	-3933 to -3866
Centroid – X (mm) :	0
Centroid – Y (mm) :	0
Moments of inertia – X (mm⁴) :	118930
Moments of inertia – Y (mm⁴) :	512685
Product of inertia – XY (mm⁴) :	3196
Radii of gyration – X (mm) :	12
Radii of gyration – Y (mm) :	25
Principal moments along X–Y (mm⁴) :	118904 along [1 0]
Principal moments along Y–X (mm⁴) :	512711 along [0 1]
Elastic Modulus – Zx (mm³):	I / y-max= 30
Elastic Modulus – Zy (mm³):	J / x-max= 55

PROPERTIES

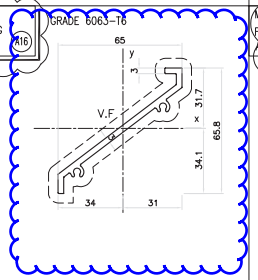
MODEL NO.: X85966
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD (A15)
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	82.0549
Perimeter (mm) :	143.6854
Bounding Box – X (mm):	-19.4114 to 15.5886
Bounding Box – Y (mm):	-12.5021 to 6.4979
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	3506.3383
Moments of inertia – Y (mm⁴) :	12458.0170
Product of inertia – XY (mm⁴) :	-965.2609
Radii of gyration – X (mm) :	6.5369
Radii of gyration – Y (mm) :	12.3217
Principal moments along X–Y (mm⁴) :	3403.4369 along [0.9944 0.1060]
Principal moments along Y–X (mm⁴) :	12560.9183 along [-0.1060 0.9944]
Elastic Modulus – Zx (mm³):	I / y-max= 280.4590
Elastic Modulus – Zy (mm³):	J / x-max= 641.7894

PROPERTIES

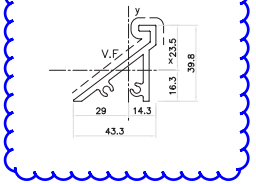
MODEL NO.: X86037
FINISH: PVF2-3COATING
ALUM. LOUVER (A16)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	340.7780
Perimeter (mm) :	244.3622
Bounding Box – X (mm):	-34.0279 to 30.9721
Bounding Box – Y (mm):	-34.0621 to 31.8952
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	115723.1588
Moments of inertia – Y (mm⁴) :	158022.1313
Product of inertia – XY (mm⁴) :	132765.9402
Radii of gyration – X (mm) :	18.4278
Radii of gyration – Y (mm) :	21.5339
Principal moments along X–Y (mm⁴) :	2432.7124 along [0.7607 0.6491]
Principal moments along Y–X (mm⁴) :	271312.5787 along [-0.6491 0.7607]
Elastic Modulus – Zx (mm³):	I / y-max= 3397.4161
Elastic Modulus – Zy (mm³):	J / x-max= 4643.9034

PROPERTIES

MODEL NO.: X86107
FINISH: PVF2-3COATING
ALUM. LOUVER (A18)
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	321.7328
Perimeter (mm) :	227.5289
Bounding Box – X (mm):	-28.9744 to 14.3268
Bounding Box – Y (mm):	-16.2784 to 23.4790
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	40906.3128
Moments of inertia – Y (mm⁴) :	44495.5595
Product of inertia – XY (mm⁴) :	-25449.4038
Radii of gyration – X (mm) :	11.2758
Radii of gyration – Y (mm) :	11.7601
Principal moments along X–Y (mm⁴) :	17188.3348 along [0.7316 0.6818]
Principal moments along Y–X (mm⁴) :	68213.5374 along [-0.6818 0.7316]
Elastic Modulus – Zx (mm³):	I / y-max= 1742.2540
Elastic Modulus – Zy (mm³):	J / x-max= 1535.6834

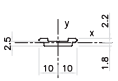
PROPERTIES

MODEL NO.:X86042
GRADE 6063-T5
FINISH: MILL
ALUM. WINDOW ANGLE (A23)

MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	24.6251
Perimeter (mm) :	42.7355
Bounding Box – X (mm):	-2.0555 to 5.9445
Bounding Box – Y (mm):	-8.9596 to 5.5404
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	482.2178
Moments of inertia – Y (mm⁴) :	123.8644
Product of inertia – XY (mm⁴) :	162.5326
Radii of gyration – X (mm) :	4.4252
Radii of gyration – Y (mm) :	2.2428
Principal moments along X–Y (mm⁴) :	61.1296 along [0.3601 0.9329]
Principal moments along Y–X (mm⁴) :	544.9525 along [-0.9329 0.3601]
Elastic Modulus – Zx (mm³):	I / y-max= 53.8214
Elastic Modulus – Zy (mm³):	J / x-max= 20.8367

PROPERTIES

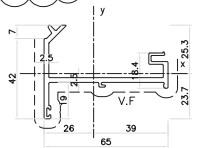
MODEL NO.:H122785
GRADE 6063-T5
FINISH: MILL
ALUM. BAR (A24)



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	52.1507
Perimeter (mm) :	48.3805
Bounding Box – X (mm):	-10.0000 to 10.0000
Bounding Box – Y (mm):	-1.7922 to 2.2078
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	60.3780
Moments of inertia – Y (mm⁴) :	1602.0296
Product of inertia – XY (mm⁴) :	0.0000
Radii of gyration – X (mm) :	1.0760
Radii of gyration – Y (mm) :	5.5425
Principal moments along X–Y (mm⁴) :	60.3780 along [1.0000 0.0000]
Principal moments along Y–X (mm⁴) :	1602.0296 along [0.0000 1.0000]
Elastic Modulus – Zx (mm³):	I / y-max= 27.3477
Elastic Modulus – Zy (mm³):	J / x-max= 160.2030

PROPERTIES

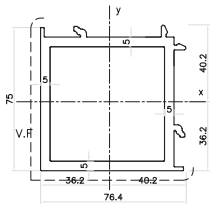
MODEL NO.: X86039
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM (A20)



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	342.2438
Perimeter (mm) :	321.8410
Bounding Box – X (mm):	-26.0230 to 38.9770
Bounding Box – Y (mm):	-23.8923 to 25.3077
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	33972.2089
Moments of inertia – Y (mm⁴) :	198643.1063
Product of inertia – XY (mm⁴) :	-4205.3535
Radii of gyration – X (mm) :	9.9631
Radii of gyration – Y (mm) :	24.0818
Principal moments along X–Y (mm⁴) :	33864.8828 along [0.9997 -0.0255]
Principal moments along Y–X (mm⁴) :	198750.4324 along [0.0255 0.9997]
Elastic Modulus – Zx (mm³):	I / y-max= 1342.3682
Elastic Modulus – Zy (mm³):	J / x-max= 5096.4221

PROPERTIES

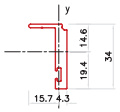
MODEL NO.: A13
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	1396.5989
Perimeter (mm) :	591.9072
Bounding Box – X (mm):	-36.1916 to 40.2084
Bounding Box – Y (mm):	-36.1922 to 40.2078
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	1019535.0696
Moments of inertia – Y (mm⁴) :	1019515.7176
Product of inertia – XY (mm⁴) :	-15192.4093
Radii of gyration – X (mm) :	26.9994
Radii of gyration – Y (mm) :	26.9992
Principal moments along X–Y (mm⁴) :	1003332.9814 along [0.7069 -0.7073]
Principal moments along Y–X (mm⁴) :	1035717.8057 along [0.7073 0.7069]
Elastic Modulus – Zx (mm³):	I / y-max= 25356.6776
Elastic Modulus – Zy (mm³):	J / x-max= 25355.7963

PROPERTIES

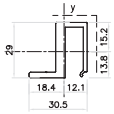
MODEL NO.: X86247
FINISH: PVF2-3COATING
ALUM. WINDOW SILL (B45)
GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	206.4294
Perimeter (mm) :	117.3417
Bounding Box – X (mm):	-15.7355 to 4.2648
Bounding Box – Y (mm):	-19.4343 to 14.5657
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	22080.9694
Moments of inertia – Y (mm⁴) :	3340.0149
Product of inertia – XY (mm⁴) :	4150.6623
Radii of gyration – X (mm) :	10.3424
Radii of gyration – Y (mm) :	4.0224
Principal moments along X–Y (mm⁴) :	22959.0940 along [0.9783 0.2070]
Principal moments along Y–X (mm⁴) :	2461.8903 along [-0.2070 0.9783]
Elastic Modulus – Zx (mm³):	I / y-max= 1136.1857
Elastic Modulus – Zy (mm³):	J / x-max= 212.2602

PROPERTIES

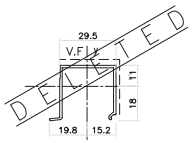
MODEL NO.: X86240
FINISH: PVF2-3COATING
ALUM. WINDOW SILL (B45)
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	265.6459
Perimeter (mm) :	171.5187
Bounding Box – X (mm):	-18.3604 to 12.1396
Bounding Box – Y (mm):	-13.7826 to 15.2174
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	24835.5846
Moments of inertia – Y (mm⁴) :	14388.6716
Product of inertia – XY (mm⁴) :	-8263.9923
Radii of gyration – X (mm) :	9.6691
Radii of gyration – Y (mm) :	7.3967
Principal moments along X–Y (mm⁴) :	29388.5316 along [0.8759 -0.4825]
Principal moments along Y–X (mm⁴) :	9835.7246 along [0.4825 0.8759]
Elastic Modulus – Zx (mm³):	I / y-max= 1632.0529
Elastic Modulus – Zy (mm³):	J / x-max= 783.0794

PROPERTIES

MODEL NO.:
FINISH: PVF2-3COATING
ALUM. GLAZING BEAD (B44)
GRADE 6063-T5



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	114.0837
Perimeter (mm) :	153.4548
Bounding Box – X (mm):	-19.7646 to 15.2354
Bounding Box – Y (mm):	-17.9814 to 11.0186
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	11297.9544
Moments of inertia – Y (mm⁴) :	18112.8788
Product of inertia – XY (mm⁴) :	-1598.9106
Radii of gyration – X (mm) :	9.9515
Radii of gyration – Y (mm) :	12.6053
Principal moments along X–Y (mm⁴) :	10941.4674 along [0.9760 0.2176]
Principal moments along Y–X (mm⁴) :	18469.3668 along [-0.2176 0.9760]
Elastic Modulus – Zx (mm³):	I / y-max= 626.3148
Elastic Modulus – Zy (mm³):	J / x-max= 916.4285

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. (7/8) -- Reversed Detail

X1 / X001 — DETAIL MARK NO. / REFER SHEET NO.

NO.	DATE	REVISED	BY
C	06.04.2022	GENERAL REVISION	
B	10.02.2022	GENERAL REVISION	
A	28.10.2021	GENERAL REVISION	

CLIENT :
MARBLE EDGE INVESTMENT LTD.

ARCHITECT :
RONALD LU & PARTNERS
ARCHITECTS | PLANNERS | INTERIOR DESIGNERS

STRUCTURAL ENGINEER :
C M WONG & ASSOCIATES LTD

MAIN CONTRACTOR :
裕民建築有限公司

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

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :
SECTION PROPERTIES

JOB NO. : J-857

DRAWN BY : AN

DATE : 18.OCT.2021

CHKD BY :

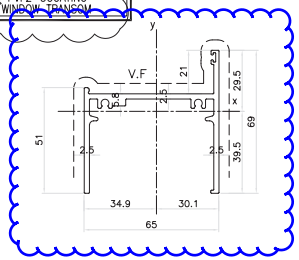
SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0006

REV. : C

PROPERTIES

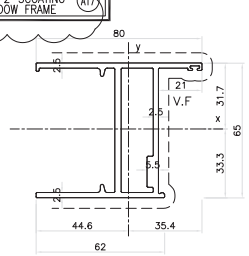
MODEL NO.: X86026
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	526.2664
Perimeter (mm) :	418.6250
Bounding Box – X (mm):	-34.7718 to 30.2282
Bounding Box – Y (mm):	-36.7262 to 32.2738
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	134390.8653
Moments of inertia – Y (mm⁴) :	374638.1757
Product of inertia – XY (mm⁴) :	29172.3338
Radii of gyration – X (mm) :	15.9802
Radii of gyration – Y (mm) :	26.6811
Principal moments along X-Y (mm⁴) :	130899.3208 along [0.9929 0.1188]
Principal moments along Y-X (mm⁴) :	378129.7202 along [-0.1188 0.9929]
Elastic Modulus – Zx (mm³):	I / y-max= 3659.2664
Elastic Modulus – Zy (mm³):	J / x-max= 10774.2039

PROPERTIES

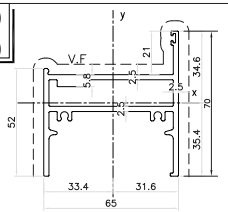
MODEL NO.: X86032
GRADE 6063-T6
FINISH: PVF2-3COATING (A17)
ALUM. WINDOW FRAME



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	748.7
Perimeter (mm) :	551.3
Bounding Box – X (mm):	-42.2 to 37.8
Bounding Box – Y (mm):	-33.3 to 31.7
Centroid – X (mm) :	0.0
Centroid – Y (mm) :	0.0
Moments of inertia – X (mm⁴) :	478989.3
Moments of inertia – Y (mm⁴) :	228298.2
Product of inertia – XY (mm⁴) :	27776.5
Radii of gyration – X (mm) :	25.3
Radii of gyration – Y (mm) :	17.5
Principal moments along X-Y (mm⁴) :	225257.4 along [0.1 1.0]
Principal moments along Y-X (mm⁴) :	482030.0 along [-1.0 0.1]
Elastic Modulus – Zx (mm³):	I / y-max= 14365.1
Elastic Modulus – Zy (mm³):	J / x-max= 5407.7

PROPERTIES

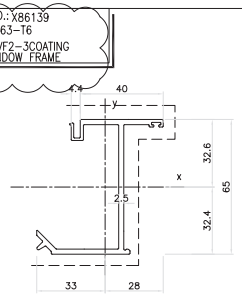
MODEL NO.: X86033
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW TRANSOM



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	702.8985
Perimeter (mm) :	542.3126
Bounding Box – X (mm):	-33.4169 to 31.5831
Bounding Box – Y (mm):	-35.3606 to 34.6394
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	147867.3038
Moments of inertia – Y (mm⁴) :	437140.5492
Product of inertia – XY (mm⁴) :	25497.5195
Radii of gyration – X (mm) :	14.5041
Radii of gyration – Y (mm) :	24.9381
Principal moments along X-Y (mm⁴) :	145637.0611 along [0.9962 0.0871]
Principal moments along Y-X (mm⁴) :	439370.7918 along [-0.0871 0.9962]
Elastic Modulus – Zx (mm³):	I / y-max= 4181.7006
Elastic Modulus – Zy (mm³):	J / x-max= 13081.4157

PROPERTIES

MODEL NO.: X86139
GRADE 6063-T6
FINISH: PVF2-3COATING
ALUM. WINDOW FRAME

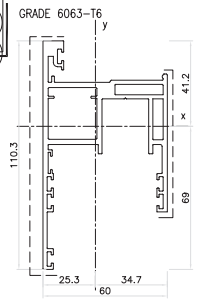


MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	401.9426
Perimeter (mm) :	356.9526
Bounding Box – X (mm):	-32.9628 to 28.0372
Bounding Box – Y (mm):	-32.4260 to 32.5740
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	275207.7591
Moments of inertia – Y (mm⁴) :	77460.4231
Product of inertia – XY (mm⁴) :	-62252.0058
Radii of gyration – X (mm) :	26.1667
Radii of gyration – Y (mm) :	13.8822
Principal moments along X-Y (mm⁴) :	293172.9308 along [0.9608 -0.2773]
Principal moments along Y-X (mm⁴) :	59495.2514 along [0.2773 0.9608]
Elastic Modulus – Zx (mm³):	I / y-max= 8448.7052
Elastic Modulus – Zy (mm³):	J / x-max= 2349.9359

PROPERTIES

MODEL NO.:
FINISH: PVF2-3COATING (B45)
ALUM. SLIDING DOOR SASH

GRADE 6063-T6



MASS PROPERTIES (UNIT)	VALUES
Area (mm²) :	934.4810
Perimeter (mm) :	809.5085
Bounding Box – X (mm):	-25.2918 to 34.7082
Bounding Box – Y (mm):	-69.0252 to 41.2304
Centroid – X (mm) :	0.0000
Centroid – Y (mm) :	0.0000
Moments of inertia – X (mm⁴) :	605482.6804
Moments of inertia – Y (mm⁴) :	485440.7662
Product of inertia – XY (mm⁴) :	-25000.6450
Radii of gyration – X (mm) :	25.4546
Radii of gyration – Y (mm) :	22.7920
Principal moments along X-Y (mm⁴) :	610481.3169 along [0.9806 -0.1961]
Principal moments along Y-X (mm⁴) :	480442.1298 along [0.1961 0.9806]
Elastic Modulus – Zx (mm³):	I / y-max= 8771.9127
Elastic Modulus – Zy (mm³):	J / x-max= 13986.3264

PROPERTIES

PROPERTIES

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PROPERTIES

B.D. REF :

F.S.D. REF :

Note :
1.All dimensions are in mm.
2.All elevations are viewed from outside.
3.All dimensions to be verified on site before fabrication.

GENERAL NOTES

Legend :
1. F.F.L.-- Finished Floor Level
2. S.F.L.-- Structural Floor Level
3. (/R) -- Reversed Detail

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

NO.	DATE	REVISED	BY
A	06.04.2022	GENERAL REVISION	

CLIENT :

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STRUCTURAL ENGINEER :

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

PROJECT :

PROPOSED RESIDENTIAL DEVELOPMENT AT NEW KOWLOON INLAND LOT. NO.6552

TITLE :

SECTION PROPERTIES

JOB NO. : J-857

DRAWN BY : AN

DATE : 10.FEB.2022

CHKD BY :

SCALE A1:
A3: 1:3

DWG. NO. : J857-IW-0007

REV. : A