

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

工程指示編號:	EI- 8096	修改版本:	-
	HK- /		
工程編號:	J 859	工程名稱:	啟德6551
收件人:	Maggie	發件人:	Emily
工程項目:	後裝FD門及窗 - 地盤用玻璃	日期:	24/07/2024

<input type="checkbox"/> 原合約工程包	<input type="checkbox"/> 原合約工程加 / 減賬 QT-	<input type="checkbox"/> 新工程報價 QT-
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信件批核號碼/圖紙參考編號:	批核模具圖紙編號:
客戶指示附件:	管理內部批簽署:

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

內容: 請按附件資料生產及加工, 需做Heat Soak (Heat Soak Test 按 BS EN14179-1:2016 標準進行); 並需分座包裝送地盤。
 *Heat-Strengthened Glass、Tempered Glass生產及品質監控須按照ASTM C1048標準進行;
 **每塊強化玻璃角位離邊位100mm 須加上一張透明貼紙(貼紙上印上承判人公司、生產商Logo及Heat Soak Test字樣)(附件1);
 ***保護膠紙採用3M surface protective tape 331TBN, 按附頁保護方案貼上膠紙(附件2)
 ****玻璃應力測試需按BD及SHK要求, TIN side需要放到手到的位置(即inside及outside的最外面), 詳情請參閱附件(附件3 & 4)。

完成上列要求日期: 21/08/2024

國內

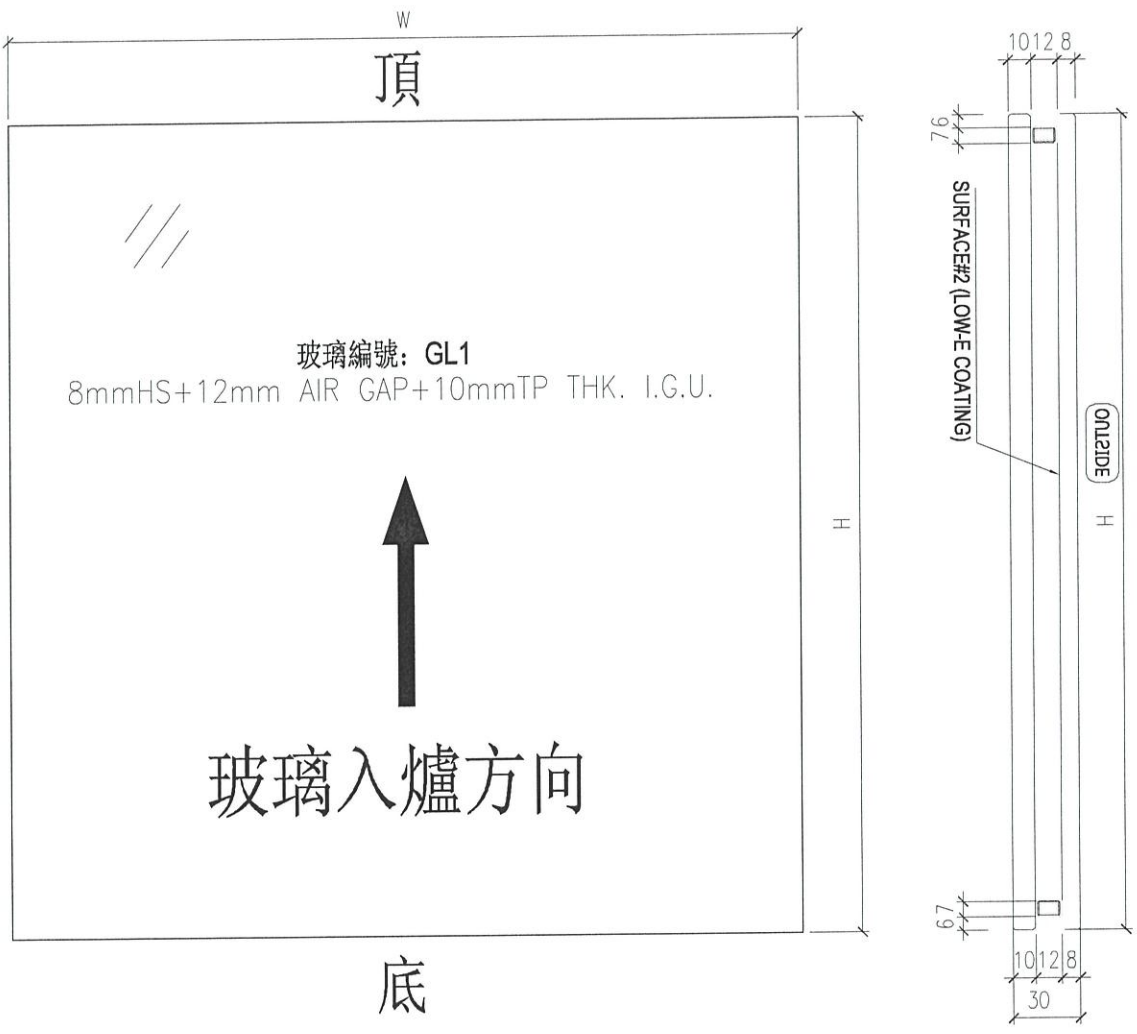
<input type="checkbox"/> 生產技術總監	<input type="checkbox"/> 連附件	<input type="checkbox"/> 技術部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 生產部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 採購部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 生產統籌部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 報關組	<input type="checkbox"/> 連附件
<input type="checkbox"/> 質檢部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 會計部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 機械設計部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 香港辦	<input type="checkbox"/> 連附件	<input type="checkbox"/> 其他:			

香港

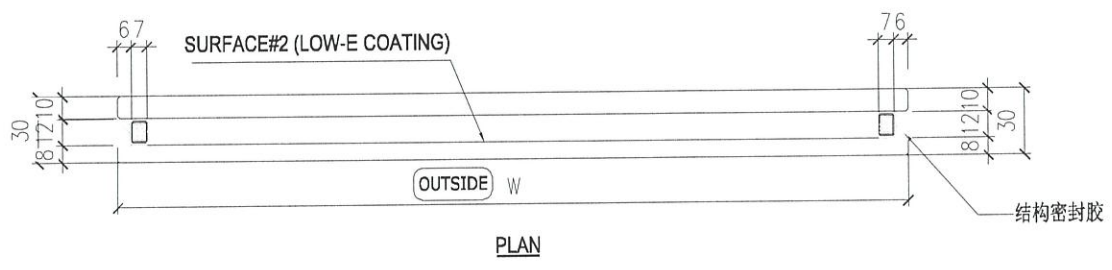
<input type="checkbox"/> 行政部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 會計部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 統籌部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 工程部	<input type="checkbox"/> 連附件
<input checked="" type="checkbox"/> 採購部	<input checked="" type="checkbox"/> 連附件	<input type="checkbox"/> QS部	<input type="checkbox"/> 連附件	<input checked="" type="checkbox"/> 地盤管理	<input checked="" type="checkbox"/> 連附件	<input type="checkbox"/> 維修部	<input type="checkbox"/> 連附件

*發件人簽署: Emily	*組別成員批核簽署:
傳遞編號:	項目經理簽署:

 矧狗鋸鋁來爾淨吹 MIDI Aluminium Fabricator Ltd.				工程號 J859	類別 制圖	物料號 -		
				地盤 启德	劉燦	2022-10-18	圖號 GL1-F02	
修改 日期	-	-	-	採用工廠 地盤 ✓	图纸名称 玻璃加工图	復核 徐詳坤	2022-19-19	數量 -
				材料颜色	材料 GLASS	批准 林仁安	2022-10-19	單件重量 - (KG)



ELEVATION (VIEWED FROM OUTSIDE)



- NOTES
1. ALL DIMENSION IN mm
 2. ALL EDGE CHAMFER 1x1x45

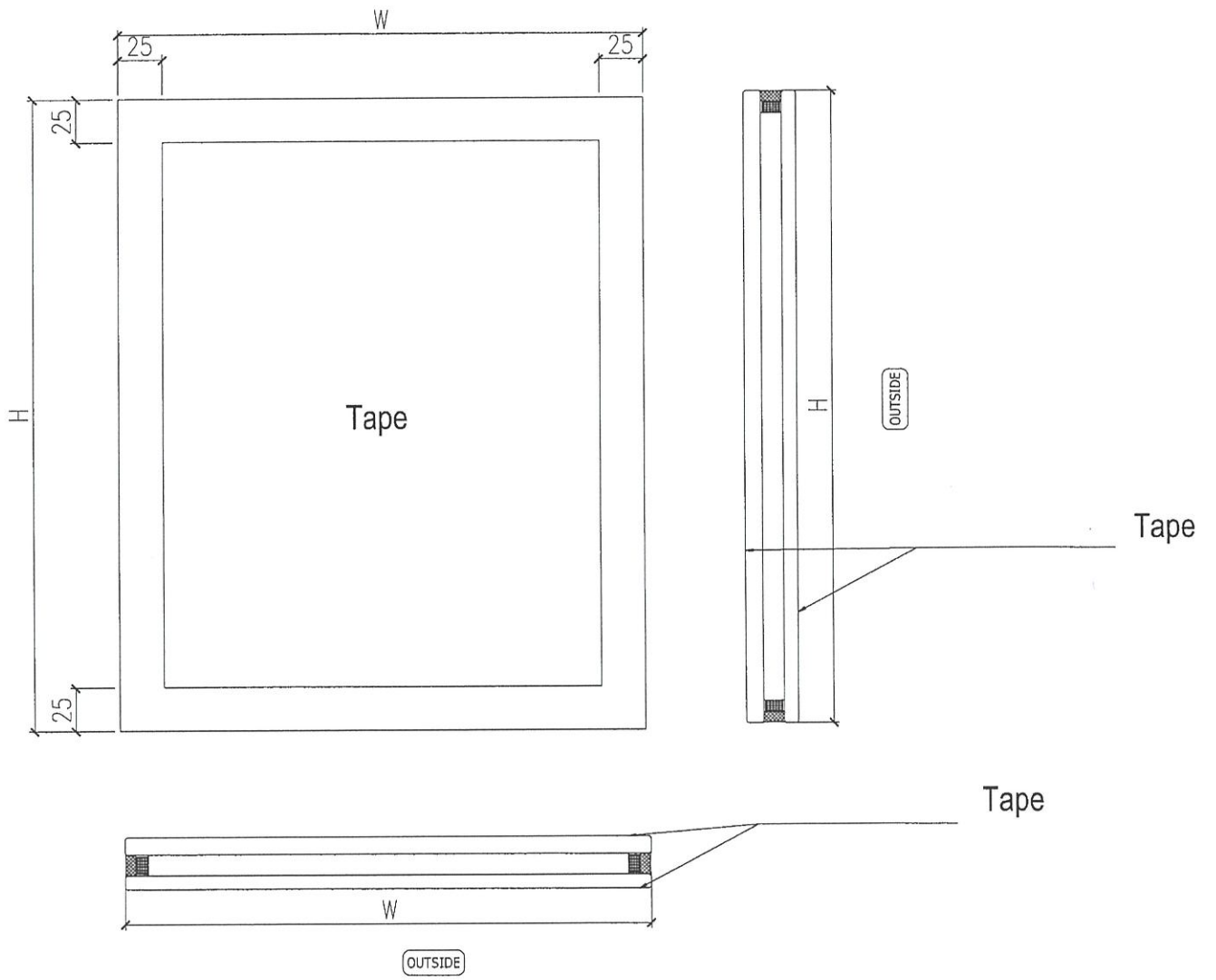
後裝FD門、窗玻璃 - 地盤派位表

樓層

玻璃編號	玻璃類型	座數	2/F	3/F	5/F	6/F	7/F	8/F	9/F	10/F	11/F	12/F	15/F	16/F	17/F	18/F	19/F	20/F	21/F	22/F	23/F	25/F	26/F	27/F	28/F	R/F	總數
W16-T2	GL1	T2																1									1
W7-T3	GL1	T3																						1			1
W8-T7	GL1	T7																							1		1
W7-T8	GL1	T8																								1	1
W16A-T9	GL1	T9																						1			1
W17-T9	GL1	T9																								1	1
合共數量																									6		

- 8.13.1 為配合 Heat Soak Process 之執行，承判人須提供交通、膳食及住宿予主判人代表 TCP-1 (100%) 及 RSE TCP-3 (30%)。
- 8.13.2 每次 Heat Soak Process 執行時，承判人須提供最少 2 條 Type K thermocouple 予主判人 TCP-1 作接駁 Data-logger 用，該 thermocouple 須備有合格 calibration certificate，而 Data-logger 由主判人自行安排。
- 8.13.3 承判人須編定所有強化玻璃之數量總表及每次 Heat Soak Process 之數量記錄，以便檢討 Heat Soak Process 進度。
- 8.13.4 承判人須依據 2016 年 3 月 11 日制定的 T1/T3 Inspection Log Book 內的要求（見 SK-01 至 SK-04）配合、做妥相關檢測項目。
- 8.13.5 每塊強化玻璃角位離邊位 100mm 須加上一張透明貼紙(貼紙上印上承判人公司、生產商 Logo 及 Heat Soak Test 字樣)。
- 8.13.6 承判人須提供安排配合疫情期間 RSE-T3 親自在香港採用「視訊電話」進行品質監察。
- 8.14 承判人包於所有鋁窗腳拉泥水位置都要留 6mm 吼，以機電判頭能收水氣線於鋁窗。所有其他項目之框料位置亦須提供水線吼，位置及數量後定。
- 8.15 申請 O.P.日期暫定為 Phase 1 (T1 至 T6)：2024 年 3 月 / Phase 2 (T7 至 T9/T9A)：2024 年 7 月；交樓日期暫定為 Phase 1:2024 年 12 月 / Phase 2:2025 年 4 月；保用期為 15 年，由 Practical Completion 日開始計算。保養期內所有 Defective 項目（包括物料及手工）須由承判人包工料做妥一切維修工作直至取得則師/主判人/小業主滿意為止。
- 8.16 [此項不適用]
- 8.17 GMS 全部為永久熱浸鍍鋅鐵，鍍鋅厚度必須符合屋宇署相關規定/指引的要求。
- 8.18 承判人須於回標時呈交全套初步 Shop Drawing，列明所有材料尺寸及樣辦主判人考慮，才作定判。定判後 21 天內要交整套完整 Shop Drawing 予主判人及則樓批核。Shop Drawing 之最低要求如下：
- All detailed elevation
 - Sectional detail
 - Window area and openable area calculation of each window
 - Thickness of glazed panel
 - Information of hinges and other ironmongery
 - Details of supporting elements, i.e. base plate and fixing lug
- 8.19 承判人需於本工程定判後 14 日內提交全部工程之排期表，內容要包括如下：-
- a. Shop drawing 批圖時間
 - b. 材料訂貨及來料時間
 - c. 各個位置之詳細施工排期表

保護膠紙示意圖



4.4 GLASS ASSEMBLIES

4.4.1 Laminated glass

Laminated glass is formed by two or more glass panes bonded by means of an interlayer. The principal materials for the interlayer described in clause 7.4 are films such as polyvinyl butyral (PVB), resin or equivalent. The interlayer usually ranges from 0.38 mm to 6.0 mm in thickness. As described in clause 5.3.3, laminated glass shall be designed with no composite action unless otherwise justified by tests.

Laminated glass can incorporate any of the different glass types and panes with different thicknesses. However, it is recommended to use same glass type and the difference of glass thickness not greater than one thickness grade. The flexibility in the selection of the individual glass panes allows a range of products to be produced with mechanical and optical properties tailored to suit particular applications.

Heat strengthened glass and tempered glass have different amplitude waves on the surface caused by rolling process. In this connection, precaution should be taken to address the risk of separation and delamination by providing sufficient thickness of interlayer. For glass panes with surface treatment applied on the inner surface of the laminated glass, durability tests may be required to examine the quality and durability of lamination.

Glass panes are assembled with an extruded sheet of interlayer between them. The glass assembly is then passed through an oven at about 70°C, from which it passes between rollers that squeeze out any excess air and form the initial bond. The assembly then moves to an autoclave where it is heated to about 140°C under a pressure of about 0.8 N/mm² in a vacuum bag.

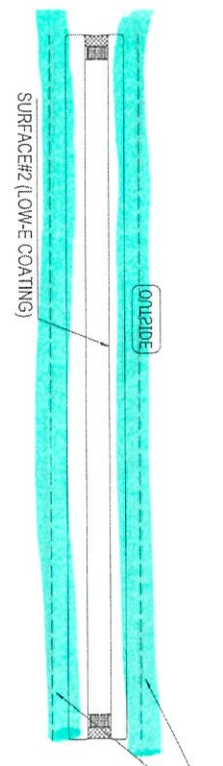
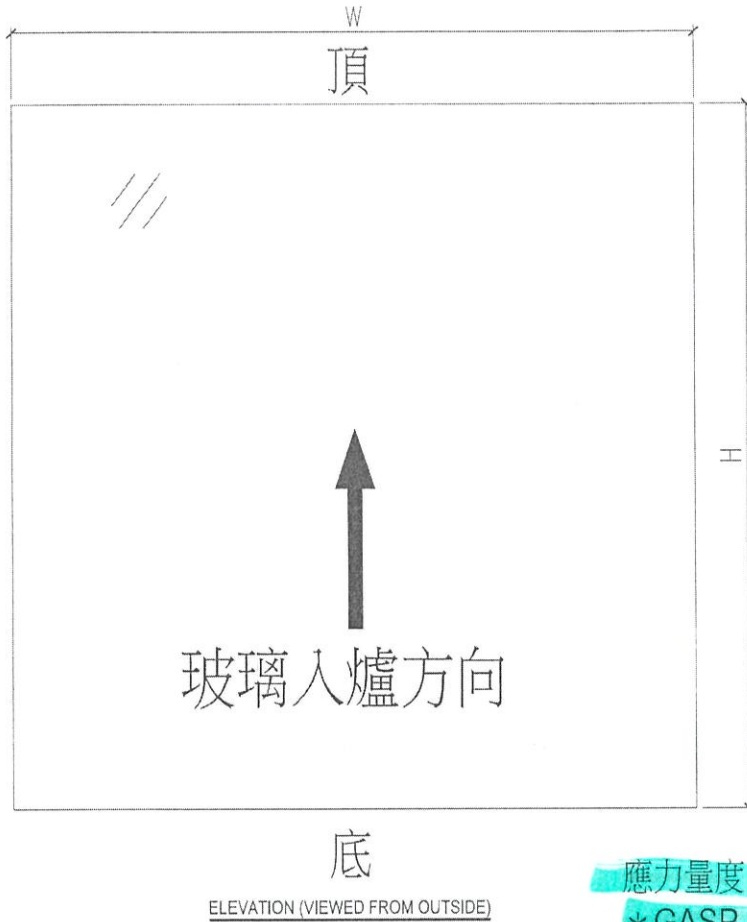
Laminated glass is considered as a safety glass with high reliability, suitable for glass balustrade, as the glass debris is adhered to the interlayer even after breakage. Replacement of damaged laminated glass should be carried out as soon as possible because the entire glass pane may still fall from height. To ensure the lamination quality and minimise the risk of delamination, adequate quality control measures as described in clause 9.2.1 should be implemented. Besides, it is a good practice if the edges of laminated glass are to be protected from direct exposure to weather.

4.4.2 Insulating glass unit

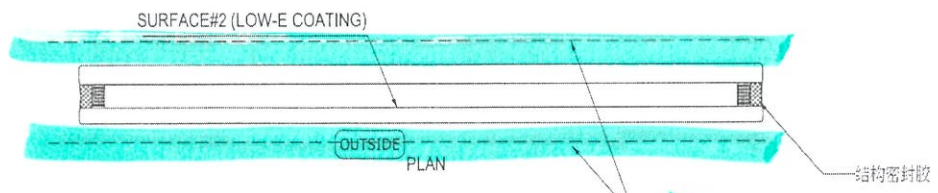
The insulating glass unit (IGU) is formed by two or more panes of glass spaced apart and hermetically sealed to form a single-glazed unit with an air space between glass panes as shown in Figure 4.3. IGU provides better performance in sound and heat insulation. It can further be made to become reflective and low-emissivity (low-E) glass, however the coating at the edge of IGU should be removed to ensure the adhesion of secondary seal. The common form of IGU incorporates spacer bar with desiccant filled, primary seal and secondary seal. Spacer bar shall be made of material compatible with seals and desiccant filled to ensure seal durability to ASTM E2190. Primary seal is of low permeability and serves to minimise water vapour and gas permeating the air cavity between the glass panes of IGU. Secondary seal shall be two-part structural sealant which completely covers spacer with no gaps or voids, continuously bonded to glass. The gap between the two or more panes of glass provides relatively good insulation compared to the normal glass. The gap can be filled by gas, such as hexafluoride, which is a good sound insulator. Tin side of the glass panes should be located on the outermost surfaces of IGU for future surface stress measurement.

例子

 美特鋁質有限公司 MIDI Aluminium Fabricator Ltd.				工程號	J859	類別		物料號	-			
				地盘	启德	制圖	劉燦	2022-10-18	圖號	G1		
修改	-	-	-	採用工廠	地盤	圖紙名稱	玻璃加工圖	復核	徐詳坤	2022-19-19	數量	-
日期	-	-	-	材料顏色		材料	GLASS	批准	林仁安	2022-10-19	單件重量	- (KG)



應力量度
*GASP on TIN side



應力量度
*GASP on TIN side

- NOTES
1. ALL DIMENSION IN mm
 2. ALL EDGE CHAMFER 1x1x45