



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

工程指示編號:	EI- 7675	修改版本:	-
	HK- 0731		
工程編號:	J 856	工程名稱:	天榮站
收件人:	生統/林仁安	發件人:	Iris
工程項目:	T1 CW 鋁板背防震膠皮	日期:	24/04/2024

<input checked="" type="checkbox"/> 原合約工程包	<input type="checkbox"/> 原合約工程加 / 減脹 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: T1 CW 鋁板背防震膠皮
完成上列要求日期: 08/05/2024

國內

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

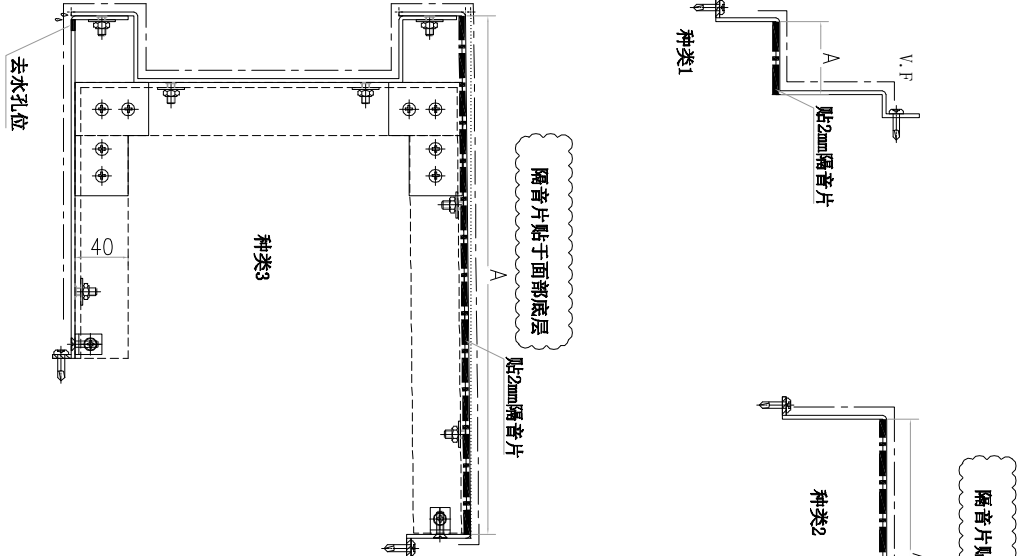
香港

<input type="checkbox"/> 行政部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 會計部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 統籌部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 工程部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 採購部	<input type="checkbox"/> 連附件	<input type="checkbox"/> QS部	<input type="checkbox"/> 連附件	<input 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: Iris	*組別成員批核簽署:
傳遞編號:	項目經理簽署:

 美特鋁質有限公司 MIDI Aluminium Fabricator Ltd.	工程號:	J-856	計算:	李传鹏	日期:	2024/4/22	送呈:	KW
	地盤名稱:	天榮站	核對:	練松文	日期:	2024/4/22	副本:	
	項目類別:	天面铝板	批准:	林仁安	日期:	2024/4/22		
BM編號:	A/C Code:		L版更正				此BM依據19/04/2024示意图	

序號	修改標示	配件圖號	物料編號	配件名稱	顏色	實用	後備	總數	單位	備注
1			DS4	2mm厚隔音片 (0.8X1.2m規格)	BLACK	150	10	160	件	2mm厚
2				万能胶 (防火胶板用)		60	10	70	罐	因不知用量及每罐量
3										故先订此数量先
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										



**注明**  
 附表编号需要贴隔音片，此隔音片按香港  
 意见贴于面部的底面，喷涂回厂后加上此片，  
 此隔音片避开加强筋位置，贴于加强筋与加强筋之间空底板上，  
 要满贴（面部底部全贴，除加强筋处）  
 附表编号板如有出地盘 均为地盘处理，未出地盘工厂处理。  
 按香港意见用1mm粘性大的双面贴。

名稱	鋁板加隔音片示意圖	制圖	林仁安	2024.04.22	修改		
材料	2mm隔音片	復核			日期		
顏色	XXX	批准			圖號	J856-GE01	


	<b>美特鋁質</b> 有限公司 MIDI Aluminium Fabricator Ltd.	
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工程號	J-856	地盤	天榮站
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序号	编号	数量	A	编号	数量	A	编号	数量	A	编号	数量	A
1	J856-T1-LB01	2	55	J856-RF-LB210	1	209.0	J856-RF-LB241A	1	164	J856-T1-LB324	1	55
2	J856-T1-LB02	4	55	J856-RF-LB211	1	209.0	J856-RF-LB212A	1	164	J856-T1-LB325	1	55
3	J856-T1-LB03	5	55	J856-RF-LB16	1	209.0	J856-RF-LB220A	1	164	J856-T1-LB326	1	55
4	J856-T1-LB06	1	55	J856-RF-LB217	1	209.0	J856-RF-LB231A	1	164	J856-T1-LB327	1	55
5	J856-T1-LB07	1	55	J856-RF-LB225	1	209.0	J856-RF-LB233A	1	164	J856-T1-LB329	1	55
6	J856-T1-LB04	1	55	J856-RF-LB230	1	209.0	J856-RF-LB240A	1	164	J856-T1-LB330	1	55
7	J856-T1-LB05	1	55	J856-RF-LB232	1	209.0	J856-RF-LB242A	1	164	J856-T1-LB332	1	55
8	J856-T1-LB08	1	55	J856-RF-LB239	1	209.0	J856-RF-LB245A	1	164	J856-T1-LB290A	1	239
9	J856-T1-LB09	1	55	J856-RF-LB241	1	209.0	J856-RF-LB213A	2	164	J856-T1-LB291A	1	189
10	J856-T1-LB10	1	55	J856-RF-LB285	1	209.0	J856-RF-LB221A	1	164	J856-T1-LB292A	1	89
11	J856-T1-LB11	1	55	J856-RF-LB212	1	209.0	J856-RF-LB229A	1	164	J856-T1-LB293A	1	89
12	J856-T1-LB16	1	55	J856-RF-LB17	1	209.0	J856-RF-LB246A	2	164	J856-T1-LB294A	1	177
13	J856-T1-LB17	2	55	J856-RF-LB220	1	209.0	J856-RF-LB214A	1	164	J856-T1-LB295A	1	177
14	J856-T1-LB01A	2	389	J856-RF-LB226	1	209.0	J856-RF-LB247A	1	164	J856-T1-LB304A	1	177
15	J856-T1-LB02A	4	389	J856-RF-LB231	1	209.0	J856-RF-LB215A	1	264	J856-T1-LB310A	1	177
16	J856-T1-LB03A	5	389	J856-RF-LB233	1	209.0	J856-RF-LB248A	1	264	J856-T1-LB296A	1	177
17	J856-T1-LB06A	1	389	J856-RF-LB240	1	209.0	J856-RF-LB16A	1	464	J856-T1-LB297A	1	177
18	J856-T1-LB07A	1	389	J856-RF-LB242	1	209.0	J856-RF-LB17A	1	264	J856-RF-LB298A	1	177
19	J856-T1-LB04A	1	389	J856-RF-LB245	1	209.0	J856-RF-LB18A	1	264	J856-T1-LB299A	1	177
20	J856-T1-LB05A	1	389	J856-RF-LB286	1	209.0	J856-RF-LB227A	1	264	J856-T1-LB300A	1	477
21	J856-T1-LB08A	1	389	J856-RF-LB213	2	209.0	J856-RF-LB216A	1	164	J856-T1-LB301A	1	389
22	J856-T1-LB09A	1	389	J856-RF-LB221	1	209.0	J856-RF-LB228A	1	164	J856-T1-LB305A	1	177
23	J856-T1-LB10A	1	389	J856-RF-LB222	1	209.0	J856-RF-LB218A	1	164	J856-T1-LB311A	1	189
24	J856-T1-LB11A	1	389	J856-RF-LB229	1	209.0	J856-RF-LB219A	1	164	J856-T1-LB312A	1	189
25	J856-T1-LB12A	1	389	J856-RF-LB246	2	209.0	J856-RF-LB222A	1	214	J856-T1-LB313A	1	189
26	J856-T1-LB13A	1	389	J856-RF-LB249	1	209.0	J856-RF-LB223A	1	214	J856-T1-LB314A	1	189
27	J856-T1-LB14A	1	389	J856-RF-LB284	1	209.0	J856-RF-LB224A	1	264	J856-T1-LB315A	1	189
28	J856-T1-LB15A	1	389	J856-RF-LB214	1	209.0	J856-RF-LB225A	1	264	J856-T1-LB316A	1	189
29	J856-T1-LB16A	1	389	J856-RF-LB18	1	209.0	J856-RF-LB226A	1	464	J856-T1-LB317A	1	277
30	J856-T1-LB17A	2	389	J856-RF-LB223	1	209.0	J856-RF-LB234A	1	164	J856-T1-LB318A	1	277
31	J856-T1-LB18	4	209	J856-RF-LB227	1	209.0	J856-RF-LB243A	1	164	J856-T1-LB319A	1	89
32	J856-T1-LB19	4	209	J856-RF-LB234	1	209.0	J856-RF-LB235A	1	164	J856-T1-LB339A	1	89
33	J856-T1-LB20	11	209	J856-RF-LB247	1	209.0	J856-RF-LB238A	1	164	J856-T1-LB322A	1	89
34	J856-T1-LB21	10	209	J856-RF-LB287	1	209.0	J856-RF-LB236A	1	164	J856-T1-LB323A	1	389
35	J856-T1-LB22	4	209	J856-RF-LB215	1	209.0	J856-RF-LB237A	1	164	J856-T1-LB324A	1	389
36	J856-T1-LB23	1	209	J856-RF-LB216	1	209.0	J856-RF-LB244A	1	164	J856-T1-LB325A	1	389
37	J856-T1-LB28	5	209	J856-RF-LB224	1	209.0	J856-RF-LB249A	1	264	J856-T1-LB326A	1	89
38	J856-T1-LB33	1	209	J856-RF-LB228	1	209.0	J856-RF-LB253A	1	177	J856-T1-LB327A	1	89
39	J856-T1-LB36	4	209	J856-RF-LB235	1	209.0	J856-RF-LB254A	1	177	J856-T1-LB329A	1	89
40	J856-T1-LB47	1	209	J856-RF-LB238	1	209.0	J856-T1-LB302A	1	177	J856-T1-LB330A	1	289
41	J856-T1-LB49	1	209	J856-RF-LB248	1	209.0	J856-T1-LB306A	1	177	J856-T1-LB331A	1	289
42	J856-T1-LB50	1	209	J856-RF-LB288	1	209.0	J856-T1-LB308A	1	177	J856-T1-LB332A	1	189
43	J856-T1-LB51	1	209	J856-RF-LB218	1	209.0	J856-RF-LB255A	1	89	J856-T1-LB333A	1	189
44	J856-T1-LB52	1	209	J856-RF-LB219	1	209.0	J856-RF-LB261A	1	89			
45	J856-T1-LB24	2	209	J856-RF-LB236	1	209.0	J856-RF-LB266A	1	89			
46	J856-T1-LB26	1	209	J856-RF-LB289	1	209.0	J856-RF-LB273A	1	89			
47	J856-T1-LB29	2	209	J856-RF-LB237	1	209.0	J856-T1-LB321A	1	89			
48	J856-T1-LB31	1	209	J856-RF-LB243	1	209.0	J856-RF-LB256A	1	89			
49	J856-T1-LB34	1	209	J856-RF-LB244	1	209.0	J856-RF-LB257A	1	89			
50	J856-T1-LB38	1	209	J856-RF-LB250	1	244.0	J856-RF-LB258A	1	89			

名稱	鋁板加隔音片示意圖	制圖	林仁安	2024.04.22	修改		
材料	2mm 隔音片	復核			日期		
顏色	XXX	批准			圖號	J856-GE02	

# EG-DWG3

 <b>美特鋁質</b> 有限公司 MIDI Aluminium Fabricator Ltd.																				
工程號		J-856		地盤		天榮站														
51	J856-T1-LB42	1	209	J856-RF-LB251	1	244.0	J856-RF-LB259A	1	89											
52	J856-T1-LB44	1	209	J856-RF-LB282	1	244.0	J856-RF-LB267A	1	89											
53	J856-T1-LB45	1	209	J856-RF-LB252	1	244.0	J856-T1-LB334A	1	89											
54	J856-T1-LB25	1	209	J856-RF-LB253	1	244.0	J856-RF-LB260A	1	89											
55	J856-T1-LB27	2	209	J856-RF-LB255	1	55.0	J856-RF-LB265A	1	89											
56	J856-T1-LB30	1	209	J856-RF-LB256	1	55.0	J856-RF-LB268A	1	89											
57	J856-T1-LB32	1	209	J856-RF-LB257	1	55.0	J856-RF-LB275A	1	89											
58	J856-T1-LB37	1	209	J856-RF-LB258	1	55.0	J856-T1-LB320A	1	89											
59	J856-T1-LB35	2	209	J856-RF-LB259	1	55.0	J856-T1-LB328A	1	89											
60	J856-T1-LB41	1	209	J856-RF-LB267	2	55.0	J856-T1-LB335A	1	89											
61	J856-T1-LB43	1	209	J856-T1-LB331	1	55.0	J856-T1-LB338A	1	89											
62	J856-T1-LB46	1	209	J856-T1-LB333	1	55.0	J856-RF-LB262A	1	89											
63	J856-T1-LB48	1	209	J856-T1-LB334	1	55.0	J856-RF-LB263A	1	89											
64	J856-T1-LB18A	4	464	J856-RF-LB260	1	55.0	J856-RF-LB264A	1	89											
65	J856-T1-LB19A	4	464	J856-RF-LB265	1	55.0	J856-RF-LB270A	1	89											
66	J856-T1-LB20A	11	464	J856-RF-LB268	1	55.0	J856-T1-LB337A	1	89											
67	J856-T1-LB21A	10	464	J856-T1-LB320	1	55.0	J856-RF-LB269A	1	89											
68	J856-T1-LB22A	4	464	J856-T1-LB328	1	55.0	J856-T1-LB336A	1	89											
69	J856-T1-LB23A	1	464	J856-T1-LB335	1	55.0	J856-RF-LB271A	1	89											
70	J856-T1-LB28A	5	464	J856-T1-LB338	1	55.0	J856-RF-LB272A	1	89											
71	J856-T1-LB33A	1	464	J856-RF-LB261	1	55.0	J856-RF-LB276A	1	177											
72	J856-T1-LB36A	4	464	J856-RF-LB266	1	55.0	J856-T1-LB303A	1	177											
73	J856-T1-LB48A	1	464	J856-RF-LB273	1	55.0	J856-T1-LB307A	1	177											
74	J856-T1-LB49A	1	464	J856-T1-LB321	1	55.0	J856-T1-LB309A	1	177											
75	J856-T1-LB50A	1	464	J856-RF-LB262	1	55.0	J856-RF-LB277A	1	177											
76	J856-T1-LB51A	1	464	J856-RF-LB263	1	55.0	J856-RF-LB284A	1	264											
77	J856-T1-LB24A	2	464	J856-RF-LB264	1	55.0	J856-RF-LB285A	1	264											
78	J856-T1-LB29A	2	464	J856-RF-LB270	1	55.0	J856-RF-LB286A	1	264											
79	J856-T1-LB34A	1	464	J856-T1-LB337	1	55.0	J856-RF-LB287A	1	264											
80	J856-T1-LB25A	1	264	J856-RF-LB269	1	55.0	J856-RF-LB288A	1	164											
81	J856-T1-LB30A	1	264	J856-T1-LB336	1	55.0	J856-RF-LB289A	1	164											
82	J856-T1-LB37A	1	264	J856-RF-LB271	1	55.0	J856-T1-LB290	1	55											
83	J856-T1-LB41A	1	264	J856-RF-LB272	1	55.0	J856-T1-LB291	1	55											
84	J856-T1-LB43A	1	264	J856-RF-LB275	1	55.0	J856-T1-LB292	1	55											
85	J856-T1-LB26A	1	264	J856-RF-LB276	1	244.0	J856-T1-LB293	1	55											
86	J856-T1-LB31A	1	264	J856-RF-LB278	1	244.0	J856-T1-LB301	1	55											
87	J856-T1-LB38A	1	264	J856-RF-LB281	1	244.0	J856-T1-LB311	1	55											
88	J856-T1-LB42A	1	264	J856-RF-LB279	1	244.0	J856-T1-LB312	1	55											
89	J856-T1-LB44A	1	264	J856-RF-LB280	1	244.0	J856-T1-LB313	1	55											
90	J856-T1-LB45A	1	264	J856-RF-LB283	1	244.0	J856-T1-LB314	1	55											
91	J856-T1-LB27A	2	464	J856-RF-LB210A	1	164.0	J856-T1-LB315	1	55											
92	J856-T1-LB32A	1	464	J856-RF-LB211A	1	164.0	J856-T1-LB316	1	55											
93	J856-T1-LB35A	2	464	J856-RF-LB217A	1	164.0	J856-T1-LB319	1	55											
94	J856-T1-LB46A	1	464	J856-RF-LB230A	1	164.0	J856-T1-LB339	1	55											
95	J856-T1-LB47A	1	464	J856-RF-LB232A	1	164.0	J856-T1-LB322	1	55											
96	J856-T1-LB52A	1	464	J856-RF-LB239A	1	164.0	J856-T1-LB323	1	55											
名稱	鋁板加隔音片示意圖			制圖	林仁安		2024.04.22	修改												
材料	2mm 隔音片			復核				日期												
顏色	XXX			批准				圖號	J856-GE03											

EI	鋁板編號	位置
6896C	J856-PE-62	T1-SU-CW3
	J856-PE-63	T1-SU-CW3

EI	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置
6904 TOP of CW	J856-T1-LB01	T1 PE101-1	J856-T1-LB18	T1-SU-CW1	J856-T1-LB38	T1-SU-CW4	J856-T2-LB01	T2 PE201-1	J856-T3-LB01	T3 PE301-1	J856-T1-LB18	T2-SU-CW1	J856-T1-LB45	T3-SU-CW1
	J856-T1-LB01A	T1 PE101-1	J856-T1-LB18A	T1-SU-CW1	J856-T1-LB38A	T1-SU-CW4	J856-T2-LB01A	T2 PE201-1	J856-T3-LB01A	T3 PE301-1	J856-T1-LB18A	T2-SU-CW1	J856-T1-LB45A	T3-SU-CW1
	J856-T1-LB02	T1 PE101-1	J856-T1-LB19	T1-SU-CW1	J856-T1-LB35	T1-SU-CW4	J856-T2-LB02	T2 PE201-1	J856-T3-LB02	T3 PE301-1	J856-T1-LB19	T2-SU-CW1	J856-T1-LB46	T3-SU-CW1
	J856-T1-LB02A	T1 PE101-1	J856-T1-LB19A	T1-SU-CW1	J856-T1-LB35A	T1-SU-CW4	J856-T2-LB02A	T2 PE201-1	J856-T3-LB02A	T3 PE301-1	J856-T1-LB19A	T2-SU-CW1	J856-T1-LB46A	T3-SU-CW1
	J856-T1-LB03	T1 PE101-1	J856-T1-LB20	T1-SU-CW1	J856-T1-LB36	T1-SU-CW4	J856-T2-LB03	T2 PE201-1	J856-T1-LB03	T3 PE301-1	J856-T1-LB20	T2-SU-CW1	J856-T1-LB36	T3-SU-CW1
	J856-T1-LB03A	T1 PE101-1	J856-T1-LB20A	T1-SU-CW1	J856-T1-LB36A	T1-SU-CW4	J856-T2-LB03A	T2 PE201-1	J856-T1-LB03A	T3 PE301-1	J856-T1-LB20A	T2-SU-CW1	J856-T1-LB36A	T3-SU-CW1
	J856-T1-LB04	T1 PE101-1	J856-T1-LB21	T1-SU-CW1	J856-T1-LB22	T1-SU-CW4	J856-T2-LB04	T2 PE201-1	J856-T3-LB03	T3 PE301-1	J856-T1-LB21	T2-SU-CW1	J856-T1-LB47	T3-SU-CW1
	J856-T1-LB04A	T1 PE101-1	J856-T1-LB21A	T1-SU-CW1	J856-T1-LB22A	T1-SU-CW4	J856-T2-LB04A	T2 PE201-1	J856-T3-LB03A	T3 PE301-1	J856-T1-LB21A	T2-SU-CW1	J856-T1-LB47A	T3-SU-CW1
	J856-T1-LB05	T1 PE101-1	J856-T1-LB20	T1-SU-CW1	J856-T1-LB21	T1-SU-CW4	J856-T2-LB05	T2 PE201-2	J856-T3-LB04	T3 PE301-1	J856-T1-LB20	T2-SU-CW1	J856-T1-LB48	T3-SU-CW1
	J856-T1-LB05A	T1 PE101-1	J856-T1-LB20A	T1-SU-CW1	J856-T1-LB21A	T1-SU-CW4	J856-T2-LB05A	T2 PE201-2	J856-T3-LB04A	T3 PE301-1	J856-T1-LB20A	T2-SU-CW1	J856-T1-LB48A	T3-SU-CW1
	J856-T1-LB06	T1 PE101-2	J856-T1-LB21	T1-SU-CW1	J856-T1-LB20	T1-SU-CW4	J856-T2-LB06	T2 PE201-2	J856-T3-LB05	T3 PE301-2	J856-T1-LB21	T2-SU-CW1	J856-T1-LB20	T3-SU-CW1
	J856-T1-LB06A	T1 PE101-2	J856-T1-LB21A	T1-SU-CW1	J856-T1-LB20A	T1-SU-CW4	J856-T2-LB06A	T2 PE201-2	J856-T3-LB05A	T3 PE301-2	J856-T1-LB21A	T2-SU-CW1	J856-T1-LB20A	T3-SU-CW1
	J856-T1-LB07	T1 PE101-2	J856-T1-LB22	T1-SU-CW1	J856-T1-LB21	T1-SU-CW4	J856-T2-LB07	T2 PE201-2	J856-T3-LB06	T3 PE301-2	J856-T1-LB22	T2-SU-CW1	J856-T1-LB21	T3-SU-CW1
	J856-T1-LB07A	T1 PE101-2	J856-T1-LB22A	T1-SU-CW1	J856-T1-LB21A	T1-SU-CW4	J856-T2-LB07A	T2 PE201-2	J856-T3-LB06A	T3 PE301-2	J856-T1-LB22A	T2-SU-CW1	J856-T1-LB21A	T3-SU-CW1
	J856-T1-LB08	T1 PE101-2	J856-T1-LB23	T1-SU-CW1	J856-T1-LB20	T1-SU-CW4	J856-T2-LB08	T2 PE202-1	J856-T3-LB07	T3 PE301-2	J856-T1-LB36	T2-SU-CW1	J856-T1-LB20	T3-SU-CW1
	J856-T1-LB08A	T1 PE101-2	J856-T1-LB23A	T1-SU-CW1	J856-T1-LB20A	T1-SU-CW4	J856-T2-LB08A	T2 PE202-1	J856-T3-LB07A	T3 PE301-2	J856-T1-LB36A	T2-SU-CW1	J856-T1-LB20A	T3-SU-CW1
	J856-T1-LB09	T1 PE101-2	J856-T1-LB24	T1-SU-CW1	J856-T1-LB19	T1-SU-CW4	J856-T2-LB09	T2 PE202-1	J856-T3-LB08	T3 PE302-1	J856-T1-LB24	T2-SU-CW1	J856-T1-LB19	T3-SU-CW1
	J856-T1-LB09A	T1 PE101-2	J856-T1-LB24A	T1-SU-CW1	J856-T1-LB19A	T1-SU-CW4	J856-T2-LB09A	T2 PE202-1	J856-T3-LB08A	T3 PE302-1	J856-T1-LB24A	T2-SU-CW1	J856-T1-LB19A	T3-SU-CW1
	J856-T1-LB10	T1 PE101-2	J856-T1-LB25	T1-SU-CW1	J856-T1-LB16	T1-SU-CW4	J856-T1-LB03	T2 PE202-1	J856-T3-LB09	T3 PE302-1	J856-T1-LB41	T2-SU-CW1	J856-T1-LB18	T3-SU-CW1
	J856-T1-LB10A	T1 PE101-2	J856-T1-LB25A	T1-SU-CW1	J856-T1-LB16A	T1-SU-CW4	J856-T1-LB03A	T2 PE202-1	J856-T3-LB09A	T3 PE302-1	J856-T1-LB41A	T2-SU-CW1	J856-T1-LB18A	T3-SU-CW1
	J856-T1-LB11	T1 PE101-2	J856-T1-LB26	T1-SU-CW2			J856-T1-LB02	T2 PE202-1	J856-T3-LB10	T3 PE302-1	J856-T1-LB42	T2-SU-CW2	J856-T1-LB20	T3-SU-CW1
	J856-T1-LB11A	T1 PE101-2	J856-T1-LB26A	T1-SU-CW2			J856-T1-LB02A	T2 PE202-1	J856-T3-LB10A	T3 PE302-1	J856-T1-LB42A	T2-SU-CW2	J856-T1-LB20A	T3-SU-CW1
	J856-T1-LB14A	T1 PE102-1	J856-T1-LB27	T1-SU-CW2			J856-T1-LB17	T2 PE202-1	J856-T3-LB11	T3 PE302-1	J856-T1-LB27	T2-SU-CW2	J856-T1-LB21	T3-SU-CW1
	J856-T1-LB15A	T1 PE102-2	J856-T1-LB27A	T1-SU-CW2			J856-T1-LB17A	T2 PE202-1	J856-T3-LB11A	T3 PE302-1	J856-T1-LB27A	T2-SU-CW2	J856-T1-LB21A	T3-SU-CW1
	J856-T1-LB16	T1 PE102-2	J856-T1-LB28	T1-SU-CW2			J856-T1-LB01	T2 PE202-2	J856-T3-LB12	T3 PE302-2	J856-T1-LB28	T2-SU-CW2	J856-T1-LB50	T3-SU-CW1
	J856-T1-LB16A	T1 PE102-2	J856-T1-LB28A	T1-SU-CW2			J856-T1-LB01A	T2 PE202-2	J856-T3-LB12A	T3 PE302-2	J856-T1-LB28A	T2-SU-CW2	J856-T1-LB50A	T3-SU-CW1
	J856-T1-LB03	T1 PE102-2	J856-T1-LB28	T1-SU-CW2			J856-T1-LB02	T2 PE202-2	J856-T3-LB13	T3 PE302-2	J856-T1-LB29	T2-SU-CW2	J856-T1-LB51	T3-SU-CW1
	J856-T1-LB03A	T1 PE102-2	J856-T1-LB28A	T1-SU-CW2			J856-T1-LB02A	T2 PE202-2	J856-T3-LB13A	T3 PE302-2	J856-T1-LB29A	T2-SU-CW2	J856-T1-LB51A	T3-SU-CW1
	J856-T1-LB02	T1 PE102-2	J856-T1-LB29	T1-SU-CW2			J856-T1-LB03	T2 PE202-2	J856-T3-LB14	T3 PE302-2	J856-T1-LB43	T2-SU-CW2	J856-T1-LB52	T3-SU-CW1
	J856-T1-LB02A	T1 PE102-2	J856-T1-LB29A	T1-SU-CW2			J856-T1-LB03A	T2 PE202-2	J856-T3-LB14A	T3 PE302-2	J856-T1-LB43A	T2-SU-CW2	J856-T1-LB52A	T3-SU-CW1
	J856-T1-LB17	T1 PE102-2	J856-T1-LB30	T1-SU-CW2			J856-T2-LB10	T2 PE202-2	J856-T3-LB15	T3 PE303-1	J856-T1-LB44	T2-SU-CW3		
	J856-T1-LB17A	T1 PE102-2	J856-T1-LB30A	T1-SU-CW2			J856-T2-LB10A	T2 PE202-2	J856-T3-LB15A	T3 PE303-1	J856-T1-LB44A	T2-SU-CW3		
		J856-T1-LB31	T1-SU-CW3			J856-T2-LB11A	T2 PE202-2	J856-T3-LB16	T3 PE303-1	J856-T1-LB35	T2-SU-CW3			
		J856-T1-LB31A	T1-SU-CW3					J856-T3-LB16A	T3 PE303-1	J856-T1-LB35A	T2-SU-CW3			
		J856-T1-LB32	T1-SU-CW3							J856-T1-LB36	T2-SU-CW3			
		J856-T1-LB32A	T1-SU-CW3							J856-T1-LB36A	T2-SU-CW3			
		J856-T1-LB28	T1-SU-CW3							J856-T1-LB22	T2-SU-CW3			
		J856-T1-LB28A	T1-SU-CW3							J856-T1-LB22A	T2-SU-CW3			
		J856-T1-LB20	T1-SU-CW3							J856-T1-LB21	T2-SU-CW3			
		J856-T1-LB20A	T1-SU-CW3							J856-T1-LB21A	T2-SU-CW3			
		J856-T1-LB21	T1-SU-CW3							J856-T1-LB20	T2-SU-CW3			
		J856-T1-LB21A	T1-SU-CW3							J856-T1-LB20A	T2-SU-CW3			
		J856-T1-LB20	T1-SU-CW3							J856-T1-LB21	T2-SU-CW3			
		J856-T1-LB20A	T1-SU-CW3							J856-T1-LB21A	T2-SU-CW3			
		J856-T1-LB33	T1-SU-CW3							J856-T1-LB20	T2-SU-CW3			
		J856-T1-LB33A	T1-SU-CW3							J856-T1-LB20A	T2-SU-CW3			
		J856-T1-LB34	T1-SU-CW3							J856-T1-LB19	T2-SU-CW3			
		J856-T1-LB34A	T1-SU-CW3							J856-T1-LB19A	T2-SU-CW3			
		J856-T1-LB37	T1-SU-CW3							J856-T1-LB18	T2-SU-CW3			
		J856-T1-LB37A	T1-SU-CW3							J856-T1-LB18A	T2-SU-CW3			

EI	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	鋁板編號	位置	
6929	T1-LB302A	T1/46F	J865-RF-16	T1/RF	J865-RF-227	T1/RF	J865-RF-241	T1/RF	J865-RF-255	T1/RF	J865-RF-269	T1/RF	J865-RF-286	T1/RF	
	T1-LB303A	T1/46F	J865-RF-16A	T1/RF	J865-RF-227A	T1/RF	J865-RF-241A	T1/RF	J865-RF-255A	T1/RF	J865-RF-269A	T1/RF	J865-RF-286A	T1/RF	
	T1-LB304A	T1/46F	J865-RF-17	T1/RF	J865-RF-228	T1/RF	J865-RF-242	T1/RF	J865-RF-256	T1/RF	J865-RF-270	T1/RF	J865-RF-287	T1/RF	
	T1-LB305A	T1/46F	J865-RF-17A	T1/RF	J865-RF-228A	T1/RF	J865-RF-242A	T1/RF	J865-RF-256A	T1/RF	J865-RF-270A	T1/RF	J865-RF-287A	T1/RF	
	T1-LB306A	T1/46F	J865-RF-18	T1/RF	J865-RF-229	T1/RF	J865-RF-243	T1/RF	J865-RF-257	T1/RF	J865-RF-271	T1/RF	J865-RF-288	T1/RF	
	T1-LB307A	T1/46F	J865-RF-18A	T1/RF	J865-RF-229A	T1/RF	J865-RF-243A	T1/RF	J865-RF-257A	T1/RF	J865-RF-271A	T1/RF	J865-RF-288A	T1/RF	
	T1-LB301	T1/46F	J865-RF-216	T1/RF	J865-RF-230	T1/RF	J865-RF-244	T1/RF	J865-RF-258	T1/RF	J865-RF-272	T1/RF	J865-RF-289	T1/RF	
	T1-LB301A	T1/46F	J865-RF-216A	T1/RF	J865-RF-230A	T1/RF	J865-RF-244A	T1/RF	J865-RF-258A	T1/RF	J865-RF-272A	T1/RF	J865-RF-289A	T1/RF	
	T1-LB300A	T1/46F	J865-RF-217	T1/RF	J865-RF-231	T1/RF	J865-RF-245	T1/RF	J865-RF-259	T1/RF	J865-RF-273	T1/RF	J865-RF-210	T1/RF	
	T1-LB299A	T1/46F	J865-RF-217A	T1/RF	J865-RF-231A	T1/RF	J865-RF-245A	T1/RF	J865-RF-259A	T1/RF	J865-RF-273A	T1/RF	J865-RF-210A	T1/RF	
	T1-LB298A	T1/46F	J865-RF-218	T1/RF	J865-RF-232	T1/RF	J865-RF-246	T1/RF	J865-RF-260	T1/RF	J865-RF-267	T1/RF	J865-RF-211	T1/RF	
	T1-LB297A	T1/46F	J865-RF-218A	T1/RF	J865-RF-232A	T1/RF	J865-RF-246A	T1/RF	J865-RF-260A	T1/RF	J865-RF-267A	T1/RF	J865-RF-211A	T1/RF	
	T1-LB296A	T1/46F	J865-RF-219	T1/RF	J865-RF-233	T1/RF	J865-RF-246	T1/RF	J865-RF-261	T1/RF	J865-RF-275	T1/RF	J865-RF-212	T1/RF	
	T1-LB295A	T1/46F	J865-RF-219A	T1/RF	J865-RF-233A	T1/RF	J865-RF-246A	T1/RF	J865-RF-261A	T1/RF	J865-RF-275A	T1/RF	J865-RF-212A	T1/RF	
	T1-LB294A	T1/46F	J865-RF-220	T1/RF	J865-RF-234	T1/RF	J865-RF-247	T1/RF	J865-RF-262	T1/RF	J865-RF-276	T1/RF	J865-RF-213	T1/RF	
	T1-LB293A	T1/46F	J865-RF-220A	T1/RF	J865-RF-234A	T1/RF	J865-RF-247A	T1/RF	J865-RF-262A	T1/RF	J865-RF-276A	T1/RF	J865-RF-213A	T1/RF	
	T1-LB292	T1/46F	J865-RF-221	T1/RF	J865-RF-235	T1/RF	J865-RF-248	T1/RF	J865-RF-263	T1/RF	J865-RF-277A	T1/RF	J865-RF-214	T1/RF	
	T1-LB292A	T1/46F	J865-RF-221A	T1/RF	J865-RF-235A	T1/RF	J865-RF-248A	T1/RF	J865-RF-263A	T1/RF	J865-RF-278	T1/RF	J865-RF-214A	T1/RF	
	T1-LB292A	T1/46F	J865-RF-222A	T1/RF	J865-RF-236	T1/RF	J865-RF-249	T1/RF	J865-RF-264	T1/RF	J865-RF-279	T1/RF	J865-RF-214	T1/RF	
	T1-LB291	T1/46F	J865-RF-222A	T1/RF	J865-RF-236A	T1/RF	J865-RF-249A	T1/RF	J865-RF-264A	T1/RF	J865-RF-280	T1/RF	J865-RF-214A	T1/RF	
	T1-LB291A	T1/46F	J865-RF-223	T1/RF	J865-RF-237	T1/RF	J865-RF-250	T1/RF	J865-RF-265	T1/RF	J865-RF-281	T1/RF	J865-RF-215	T1/RF	
	T1-LB290	T1/46F	J865-RF-223A	T1/RF	J865-RF-237A	T1/RF	J865-RF-251	T1/RF	J865-RF-265A	T1/RF	J865-RF-282	T1/RF	J865-RF-215A	T1/RF	
	T1-LB290A	T1/46F	J865-RF-224	T1/RF	J865-RF-238	T1/RF	J865-RF-252	T1/RF	J865-RF-266	T1/RF	J865-RF-283	T1/RF			
				J865-RF-224A	T1/RF	J865-RF-238A	T1/RF	J865-RF-253	T1/RF	J865-RF-266A	T1/RF	J865-RF-284	T1/RF		
				J865-RF-225	T1/RF	J865-RF-239	T1/RF	J865-RF-253A	T1/RF	J865-RF-267	T1/RF	J865-RF-284A	T1/RF		
				J865-RF-225A	T1/RF	J865-RF-239A	T1/RF	J865-RF-254A	T1/RF	J865-RF-267A	T1/RF	J865-RF-285	T1/RF		
				J865-RF-226	T1/RF	J865-RF-240	T1/RF	J865-RF-255	T1/RF	J865-RF-268	T1/RF	J865-RF-285A	T1/RF		
				J865-RF-226A	T1/RF	J865-RF-240A	T1/RF	J865-RF-255A	T1/RF	J865-RF-268A	T1/RF				



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

Our ref. MC/42164/856

4 August 2023

Yee Fai Construction Co., Ltd.  
44/F, Sun Hung Kai Centre,  
30 Harbour Road,  
Wanchai, Hong Kong

By Email & Hand

Attn.: Mr. H.K.Chung

Dear Sir,

**Re: Design, Supply & Installation of Aluminum Windows, Doors & Louvers for  
TSWTL23, Area 33, Tin Wing Stop, Tin Shui Wai, N.T.-  
Contract No.: P210192  
Material Submission of Damping Barrier (Noisestop) For Tower Curtain  
Wall Coping**

Regarding the captioned project, we would like to submit the Material Submission of damping sheet for Curtain Wall coping for Towers for your review and comment.

1. Damping Barrier - DS 4 (Noisestop) and Job Reference
2. DS4- Noise Test Report
3. DS4- Sample Board -- Qty. 3 nos.
4. Drawing Reference.

Thank you for your kind attention.

Yours faithfully,  
MIDI ALUMINIUM FABRICATOR LTD.

Francis Mau  
Managing Director

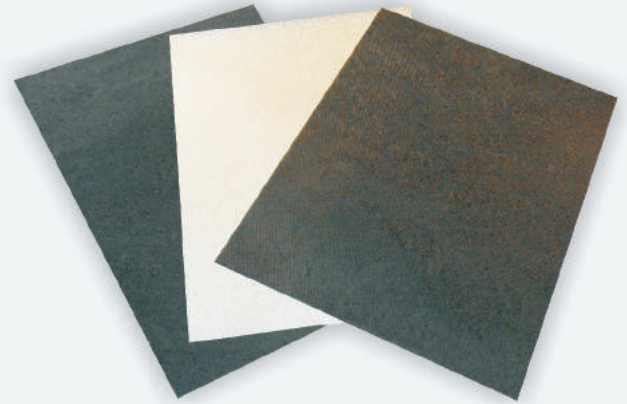
Encl

FM / MT / DW / JYC / JC / TW / jc

### Introduction

**NOISESTOP** Damping Sheet is made from modified bitumen for reducing noise and vibration radiation from sheet metal construction. It is manufactured from bitumen, mineral filler and polymer etc.

**NOISESTOP** Damping Sheet are available in three standard thickness. Both have a full self-adhesive backing and a polythene film facing or aluminium foil for DS 4A. It can be used as a layer between two walls to reduce wall resonance and noise transmission. Damping Sheet has significant improvement of rain impact noise when stick it with metal roof cladding.



### Acoustic Performance

#### Impact Sound Insulation by Rainfall Test

Testing in accordance with a method of simulating rainfall at rate 300mm/h under laboratory conditions standard «BS EN ISO 140-18:2006»

1/3 Octave Band and 1/1 Octave Band Sound Pressure Level					
Item Hz	Without DS 4	With DS 4	Item Hz	Without DS 4	With DS 4
100	36.3	28.0	800	41.5	35.3
125	36.8	31.6	1000	38.3	33.8
160	40.5	34.5	1250	38.7	34.2
200	44.0	38.5	1600	41.0	33.9
250	43.3	38.6	2000	38.1	30.8
315	42.2	38.3	2500	38.9	30.1
400	43.5	37.6	3150	37.4	29.2
500	42.9	37.0	4000	35.9	28.9
630	42.8	35.5	5000	33.7	28.4

#### Vibration Damping Properties

System loss factor is a dimensionless figure representing the damping properties of a system testing standard «GB/T 16406-1996» .

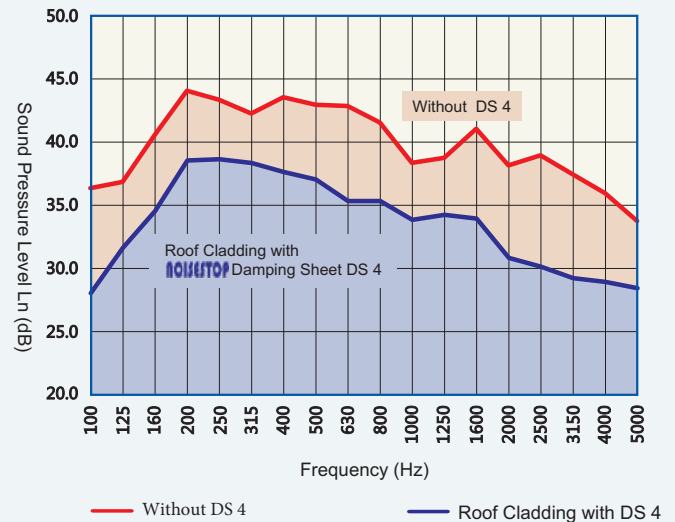
Temperature, °C	System Loss Factor, $\eta_e$	
	DS 4	DS 6
0°C	0.22	0.25
10°C	0.18	0.28
20°C	0.12	0.24
30°C	0.07	0.14
40°C	0.04	0.10
50°C	0.02	0.06

### Product Specification

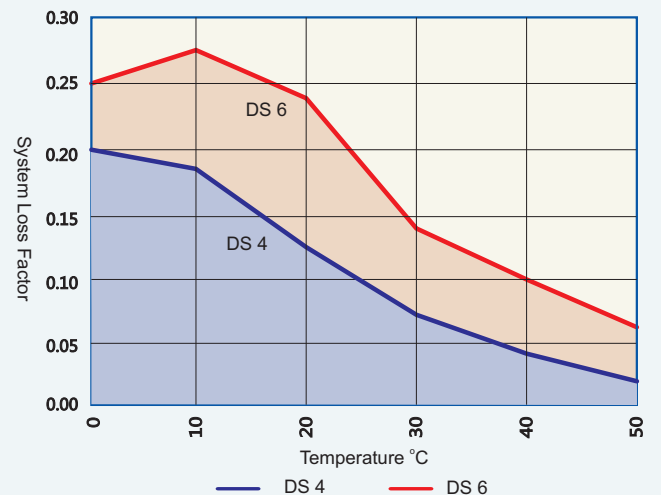
Model	Thick	Density	Size/Sheet	Colour
DS 3	1.5mm	2.9kg/m <sup>2</sup>	0.8x1.2m	Black
DS 4	2.0mm	3.8kg/m <sup>2</sup>	0.8x1.2m	Black
# DS 4A	2.0mm	3.8kg/m <sup>2</sup>	0.8x1.2m	Silver
DS 6	3.0mm	5.7kg/m <sup>2</sup>	0.8x1.2m	Black
# DS 6A	3.0mm	5.7kg/m <sup>2</sup>	0.8x1.2m	Silver

\*Operation Temperature from -10°C to 80°C; Tolerance: Weight ±5%.  
 # DS 4A and DS 6A are supplied with aluminium foil facing, achieve Class B-s1, d0 to EN 13501-1:2018 (Report No. CF211100160ENV0)

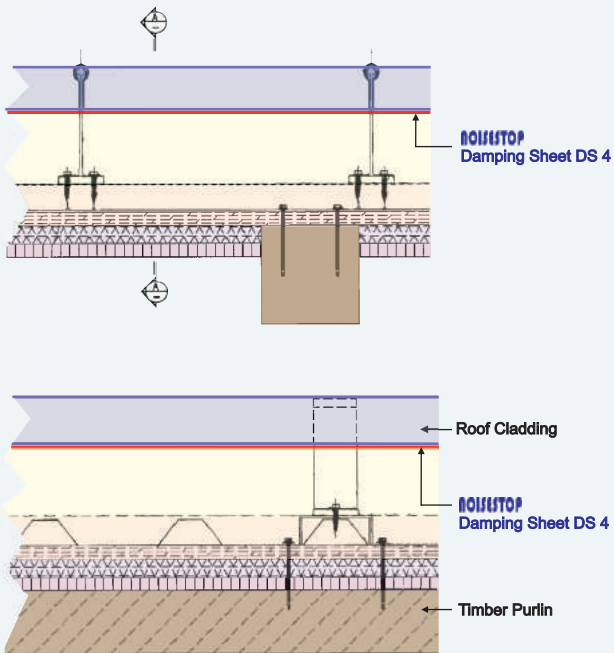
### Impact Sound Improvement at 300mm/h Rainfall



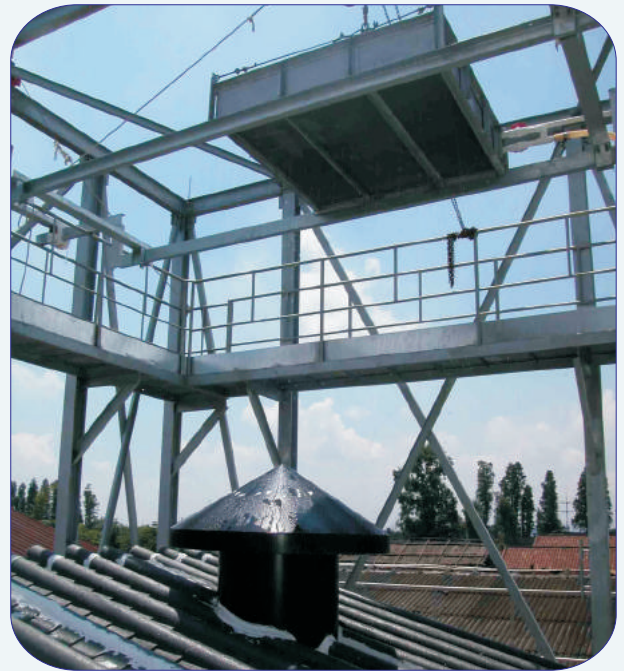
### System Loss Factor



### Installation of Roof Cladding



Typical Section for Metal Roof System

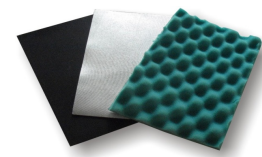


Rain Impact Test



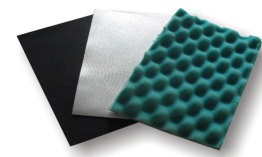
Maggie's Cancer Caring Centre Metal Roof

Tai Po Science Park



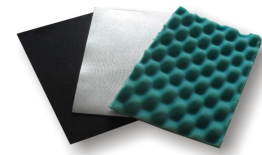
## Job Reference - Damping Barrier

Year	Project	Region	Client	Application
2022	No. 34 Mount Kellet Mock Up	Hong Kong	Golden Way Engineering Development Limited	Curtain Wall
2022	Multi-Level Carpark in Sha Tin Racecourse	Hong Kong	G&M Engineering Co. Ltd.	Curtain Wall
2022	長江中心二期商業重建項目	Hong Kong	Far East Facade (Hong Kong) Limited	Curtain Wall
2022	Siu Hong, Tuen Mun	Hong Kong	D'Arch Engineering Co. Ltd.	Curtain Wall
2022	Tonkin Street Mock Up	Hong Kong	Entasis Ltd.	Curtain Wall
2022	TMTL438 Siu Hong Tuen Mun	Hong Kong	Jointex Engineering Limited	Curtain Wall
2021	啟德新九龍內地段第6568號住宅項目	Hong Kong	Far East Facade (Hong Kong) Limited	Curtain Wall
2021	TPTL 244, Pak Shek Kok	Hong Kong	Hacely Company Limited	Curtain Wall
2021	九龍灣宏展街香港郵政大樓	Hong Kong	Forerunner Specialist Ltd	Curtain Wall
2021	93-95A Waterloo Road, Kowloon	Hong Kong	Forerunner Specialist Ltd	Curtain Wall
2021	Tsz Wan Shan	Hong Kong	Shun Wing Aluminium Works Company Limited	Curtain Wall
2021	馬鞍山白石	Hong Kong	Apex Curtain Wall & Engineering Co., Ltd.	Curtain Wall
2021	Pok Fu Lam	Hong Kong	ICGL Technical Works (HK) Ltd.	Curtain Wall
2021	香島道	Hong Kong	Forerunner Specialist Ltd	Curtain Wall
2021	Wong Chuk Hang	Hong Kong	ICGL Technical Works (HK) Ltd.	Curtain Wall
2021	T2 Expansion	Hong Kong	ICGL Technical Works (HK) Ltd.	Curtain Wall
2021	D.D. 103, Au Tau, Yuen Long	Hong Kong	Hacely Façade Engineering Ltd.	Curtain Wall
2021	Lugard Road Redevelopment	Hong Kong	Apex Curtain Wall & Engineering Co., Ltd.	Curtain Wall
2021	195 Prince Edward Road West, Kowloon	Hong Kong	Hacely Façade Engineering Ltd.	Curtain Wall
2021	195 Prince Edward Road West, Kowloon	Hong Kong	Jumbo Orient Contracting Ltd.	Curtain Wall
2021	2nd WMU in Sha Ha, Hong Kong	Hong Kong	Hip Seng Façade Engineering Company Limited	Curtain Wall
2021	No. 222-228 Wan Chai Road, Wan Chai	Hong Kong	Hacely Façade Engineering Ltd.	Curtain Wall
2021	Lee Nam Road	Hong Kong	Hacely Façade Engineering Ltd.	Curtain Wall
2020	Ap Lei Chau Inland No.136	Hong Kong	Hacely Facade Engine Ltd.	Curtain Wall
2020	Various site	Hong Kong	Power Smart Interior Ltd.	Curtain Wall
2020	FOPH (Tower) - Damping Layer	Hong Kong	Wah Tung Façade Company Ltd.	Curtain Wall
2020	35 Barker Road	Hong Kong	Billion Nice Engineering Ltd.	Curtain Wall
2020	J19253	Hong Kong	G&M Engineering Co. Ltd.	Curtain Wall
2020	Revenue Tower	Hong Kong	CDL Studio	Curtain Wall
2019	Residential Development at Sheung Heung Road	Hong Kong	New World Façade / ACME	Curtain Wall
2019	TSW 34	Hong Kong	G&M Engineering	Steel Platform
2019	Studio at Apple Daily Building, TKO	Hong Kong	Lo Nam Kee Decoration & Engineering Ltd	Isolated Wall
2018	BOCOM - Business Departmnt	Hong Kong	Can Full Engineering Ltd	Isolated Wall
2018	33F, China Resource Building, Wanchai	Hong Kong	FSC Interior Design Consultant	Isolated Wall
2018	HKEDU	Hong Kong	Hoi Tung Engineering Ltd	Isolated Wall
2018	8 Mount Nicholson Road - House 6	Hong Kong	Pretterior Works & Consultants Co Ltd	Isolated Wall
2018	Diocesan Girls' School	Hong Kong	Empire (HK) Engineering Ltd	Metal Roof
2018	STTL 248 Shatin Hotel	Hong Kong	G&M Engineering	Steel Platform
2018	Happy Valley Clubhouse Extension	Hong Kong	G&M Engineering	Steel Platform
2017	Cheng Du of SH He Fu Reality Engg. Co.	Su Zhou	Su Zhou IFC	Pipe
2017	Beijing Wangfujing brand center	Beijing	Beijing city construction Refco Group Ltd	Plant Room
2017	Tianjin Chow Da Fu financial center	Tianjin	China Const Third Eng Burea Co., Ltd	Plant Room
2017	Beijing Yizhuang Ruijin Ding apartment	Beijing	Beijing Construction Engineering Group	Plant Room
2017	16F Office at Sun Hung Kai Ctr	Hong Kong	In-Tech Interior Design Ltd	Isolated Wall
2017	Union Hospital	Hong Kong	San Woo	Construction Site
2017	Sony at Cityplaza	Hong Kong	Ocean Resources (HK) Co. Ltd.	Isolated Wall



## Job Reference - Damping Barrier

Year	Project	Region	Client	Application
2017	Residential at Tong Yan San Tsuen	Hong Kong	Hop Fat	Curtain Wall
2017	Hong Kong International School	Hong Kong	Empire	Curtain Wall
2017	Hong Kong International School	Hong Kong	G&M Engineering	Curtain Wall
2017	Junon Restaurant	Hong Kong	OWL Design	Restaurant Floor
2017	Harmony Phase 3	Hong Kong	Hysan	Plant Room
2017	35 Barker Road	Hong Kong	Luen Ming Supreme Fabricator	Isolated Wall
2017	JP Cinema	Hong Kong	Cinema City Group	Isolated Floor
2017	Chai Wan Cinema	Hong Kong	Parks Engineering Ltd.	Isolated Wall/ Ceiling
2017	Residential at Western Street	Hong Kong	Sun Hung Kai	AV room
2017	Park Mediterranean	Hong Kong	Chevalier	Curtain Wall
2016	Wu On Street, Tuen Mun	Hong Kong	HKR Inter. Ltd.	Curtain Wall
2016	Fanling Cinema, MCL	Hong Kong	Parks Engineering Ltd.	Isolated Wall
2016	Cheung Sha Wan Housing Development	Hong Kong	Great Harvest Group	Construction Site
2016	Residential, Nam Cheong Station	Hong Kong	YKK	Curtain Wall
2016	Tishman, Yangpu District	Shanghai	China Construction Group	Pipe
2015	Louis XIII	Macau	Ying Wah	Isolated Wall
2015	Tshman Speyer, Yangpu District	Shanghai	China Construction Group	Pipe
2015	Fire Services Training School, TKO	Hong Kong	China State Construction	Isolated Wall
2015	ICC Morgan Stanley Office	Hong Kong	Morgan Stanley	Isolated Wall
2015	The Bank of East Asia Office	Hong Kong	Cristalla Designs & Contracting	Isolated Wall
2015	Google office, Causeway Bay	Hong Kong	Ample	Isolated Wall
2015	Wholesale Food Market, Cheung Sha Wan	Hong Kong	Great Harvest Group/ASD	Construction Site
2015	Shatin Comm & Technology Centre	Hong Kong	Hong Kong Jockey Club	Isolated Wall
2015	Central Lush Spa	Hong Kong	Design Avenue Limited	Isolated Wall
2015	Shatin 14B	Hong Kong	Empire	Curtain Wall
2015	Sai Kung Lot 1180	Hong Kong	Sino	Curtain Wall
2014	Taikoohui	Guang zhou	Zhu Jiang Decoration	Isolated Wall
2014	Dunbar Place @ Ho Man Tin	Hong Kong	Design Unlimited Co., Ltd.	Residential
2014	MTRC Contract 908	Hong Kong	Yau Luen Construction & Engineering	Construction Site
2014	10/F., Millenmum City 6, Kwun Tong	Hong Kong	Lee Fung Decoration Limited	Construction Site
2014	26/F./., Great Eagle Centre	Hong Kong	Lee Fung Decoration Limited	Construction Site
2014	Pok Oi Interchanges	Hong Kong	Leader Civil Engineering Corporation Ltd	Construction Site
2014	Providence Bay	Hong Kong	Nanfung	Clubhouse
2014	Sky 100	Hong Kong	Sun Hung Kai	Isolated Wall
2014	Holiday Inn	Hong Kong	Hong Kong Kin Sing	Isolated Wall
2013	Medical Clinic, Prince Edward	Hong Kong	R&R	Music Room
2013	Eva Court	Hong Kong	Atelier C+	Residential
2013	Fairmont Peace Hotel	Shanghai	Construction Team	Pipe
2013	Cathay Pacific	Hong Kong	Right Access Construction Materials	Construction Site
2013	HK Land Office @ Exchange Square I	Hong Kong	Design Unlimited Co., Ltd.	Isolated Wall
2013	The Metroplex Cinema, Kowloon Bay	Hong Kong	Parks Engineering Ltd.	Duct
2012	HSBC	Shanghai	Hai Yi International Design	Isolated Wall
2012	Four Season Hotel	Shenzhen	Shenzhen Dong Jia Cheng Properties	Pipe
2012	Litong Plaza	Guang zhou	Uashi Decoration	Pipe
2012	Shatin Racecourse	Hong Kong	Pat Davie Ltd.	Construction Site
2012	Saymour Road 63	Hong Kong	Yuanda Curtain Wall	Isolated Wall



## Job Reference - Damping Barrier

Year	Project	Region	Client	Application
2012	University of Hong Kong	Hong Kong	IAC	Construction Site
2012	Cathay City	Hong Kong	Right Access Construction Materials	Isolated Wall
2012	South East Kowloon	Hong Kong	Leader Civil Engineering Corporation Ltd	Construction Site
2012	Wanchai Bypass Phase II	Hong Kong	Chun Wo	Construction Site
2012	Mei Po Highway	Hong Kong	Penta-Ocean Construction	Construction Site
2011	Wheelock Square	Shanghai	Shanghai Kang Ke Electric	Pipe
2011	Shanghai New World Garden	Shanghai	Shanghai Hao Yu Construction	Pipe
2011	Shanghai Center Place	Shanghai	CTL Investment Worldwide	Isolated Wall
2011	Shanghai IFC Hotel	Shanghai	Sun Hung Kai	Floating Floor
2011	Custom Headquarter	Hong Kong	Shuion	Construction Site
2011	IBIS Hotel, Sheung Wan	Hong Kong	Paul Y	Hotel Door
2011	City Hall	Hong Kong	Shuion	Construction Site
2010	Guangzhou Tai Koo Hui	Guang zhou	Jang Ho Curtain Wall	Curtain Wall
2010	Shanghai Xin Tian Di	Shanghai	Shanghai Xiang Jiang Hai Yang	Pipe
2009	Wu Xian Bridge Project	Beijing	Weibo Decoration	Isolated Wall
2009	Tangla Hotel	Tianjin	Tianjin Forte	Pipe
2008	Bar at 6F Fourpoints Sheraton Hotel	Shenzhen	Sheraton	Pipe
2007	Microsoft Headquarter	Shenzhen	Guangdong No.1 Construction Engineering	Isolated Wall

# Architectural Acoustics Testing Centre

## Laboratory Rain Impact Noise Test Report

**DATE OF REPORT:** 12 May 2022

**REPORT NO.:** NC#AAT12-234TS008-D20220511

**TESTED FOR:** Architectural Acoustics Ltd.  
2F, Po Cheong Comm. Bldg., 29 Prat Avenue,  
Tsimshatsui, Kowloon, Hong Kong

**ATTENTION:** Mr.Mors Leung

**UNIT UNDER TEST:** AAT12-234

**UNIT UNDER TEST:** NOISESTOP® DS4

**TEST STANDARD** BS EN ISO 140-18:2006

**TESTED AT:** Architectural Acoustics Rearch Laboratory  
Block B, No. 1, 1st Industrial Area, Lile,  
Wusha, Jianghai District, Jiangmen City,  
Guangdong Province, PRC

# Architectural Acoustics Testing Centre

## 1. METHOD OF TEST

- 1.1 To determine the octave band normalized sound pressure level and the Noise Criteria (NC) of the test room when testing specimen is excited by artificial rainfall. The test is conducted according to BS EN ISO 140-18:2006 "Acoustics - Measurement of sound insulation in buildings and of building elements - Laboratory measurement of sound generated by rainfall on building elements".

## 2. INSTRUMENTATION

Description:	Serial Number:
Bruel & Kjaer Type 2270 Real Time Frequency Analyzer	2821591
Ultragraph Pro Equalizer	N0292084088
STK Power Amplifier Type V-6	L08STK221
Bruel & Kjaer Type 4292 OmniPower Sound Source	013004
Bruel & Kjaer Type 4189 1/2" Microphone	2799478
Bruel & Kjaer Type 4231 Sound Level Calibrator	2052566

The measuring equipment has been calibrated by an external HOKLAS laboratory, and is in current calibration.

## 3. PRINCIPLE OF TEST

The following definitions apply for this entire document.

- 3.1 Average sound pressure level in a room: Ten times the common logarithm of the ratio of the space and time average of the square of the reference sound pressure, the space average being taken over the entire room with the exception of those parts where the direct radiation of a sound source or the near field of the boundaries (wall, etc.) is of significant influence.
- 3.2 This quantity is denoted by  $L$  and is expressed in decibels.

For fixed microphone positions are used,  $L$  is determined by

$$L = 10 \lg \frac{p_1^2 + p_2^2 + \dots + p_n^2}{np_0^2} \text{ dB} \quad \dots(1)$$

where,

$p$  is the sound pressure, in Pascal;

$p_0$  is the reference sound pressure and is equal to 20  $\mu$ Pa;

$p_1, p_2, \dots, p_n$  are root mean square sound pressure at  $n$  different positions at receiving room.

# Architectural Acoustics Testing Centre

- 3.3 In practice, usually the sound pressure levels  $L_i$  are measured. In this case  $L$  is determined by

$$L = 10 \lg \frac{1}{n} \sum_{i=1}^n 10^{L_i/10} \text{ dB} \quad \dots(2)$$

where,

$L_i$  are the sound pressure levels  $L_1$  to  $L_n$  at  $n$  different positions at receiving room.

- 3.4 The reverberation times shall be determined in the receiving room constant. When measuring reverberation time in a room, the sound source is driven by a random noise generator in series with a bandpass filter. When the sound is turned off the room rate of decay is measured by the frequency analyzer. The reverberation time,  $T$  in each frequency band is determined as the reciprocal sound pressure level decay rate. The slope, generally measured as the best straight line fit to the recorded decay between 5dB and 35dB down from the initial steady-state level, is used to determine the decay rate.

## 4. RAIN IMPACT NOISE MEASUREMENT

- 4.1 The Normalized Sound Pressure Level  $L_n$  shall be obtained by

$$L_n = L - 10 \log(T/T_0) \quad \dots(3)$$

where,

$T_0$  is the reference reverberation time,  $T_0 = 1 \text{ s}$ .

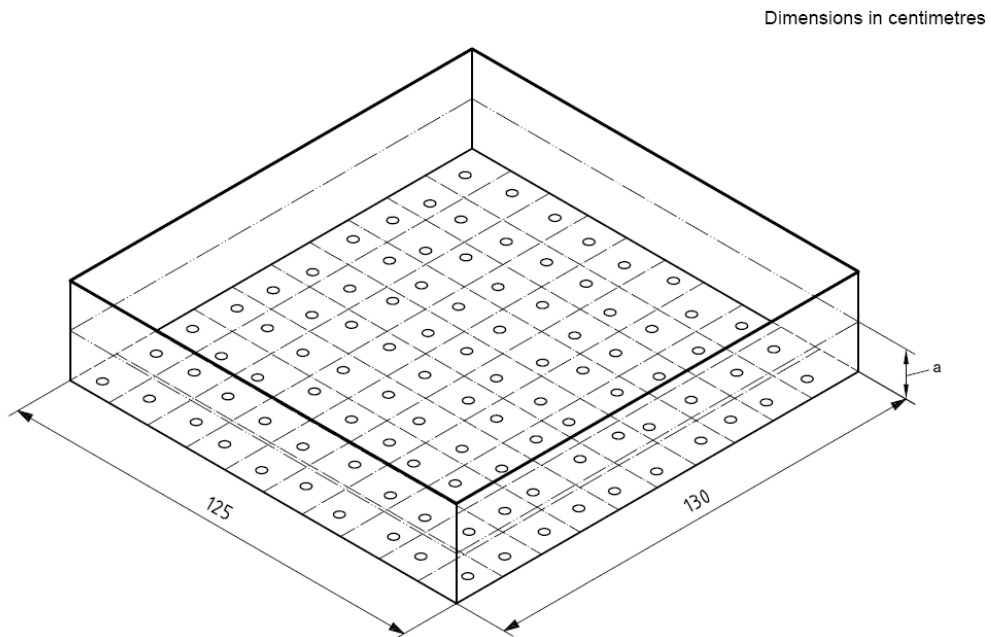
- 4.2 The NC rating for a measured noise can be found by comparing the Normalized Sound Pressure Level  $L_n$  to the NC curves. The NC rating is the lowest NC curve not exceeded by the plotted sound spectrum.

Noise Criteria (NC)

## 5. TEST ARRANGEMENT

- 5.1 Laboratory rain impact test for one test sample shall be conducted. Typical details of the test specimen shall refer to Appendix 1.
- 5.2 The test specimen shall be installed for the laboratory rain impact test in compliance with the test set-up requirement as per BS EN ISO 140-18:2006, detailed as follows,

# Architectural Acoustics Testing Centre

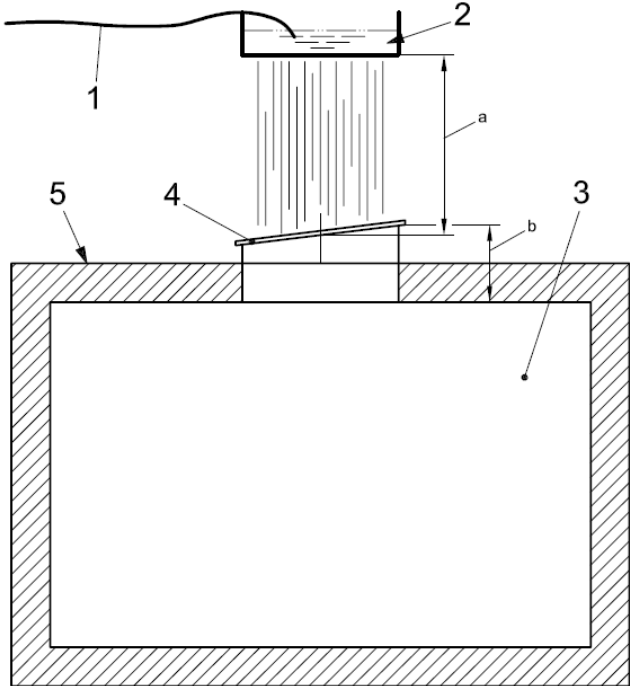


<sup>a</sup> Typical water height.

**Figure 5.2 Schematic of tank with perforated base**

**To simulate the heavy rainfall condition, the rainfall rate shall be 300 mm/hr (which is NOT standard requirement and out of scope of accreditation) with a rain drop size of 5 mm diameter.**

# Architectural Acoustics Testing Centre



- Key**
- 1 water-supply system
  - 2 tank with perforated base
  - 3 test room
  - 4 test specimen
  - 5 water drainage (arranged by user)
  - a Fall height.
  - b Height of the niche.

Figure 5.2.1 Typical test arrangement

Parameters of tank with perforated base		Rainfall Condition
1	Diameter of holes	1 mm
2	Number of holes per unit area	Approx. 60 m <sup>-2</sup>
3	Fall height	Approx. 3,5 m
4	Volume median drop diameter	5,0 mm
5	Distribution of drop size	Max. uniformity
6	Fall velocity at fall height	7 m/s
7	Rainfall rate	<b>300 mm/hr (which is NOT standard requirement and out of scope of accreditation)</b>
8	Water supply	195mm height of water in the tank (overflow limit)

# Architectural Acoustics Testing Centre

## 6. RESULTS APPLICATION

The results obtained can be used to design building elements with appropriate acoustic properties, to compare the impact sound insulation properties of building elements and to classify such elements according to their sound insulation capabilities.

The test was performed in laboratory facilities in which transmission of impact sound on flanking paths is suppressed. Results of measurements shall not be applied directly in the field without accounting for other factors affecting sound insulation, especially flanking transmission and loss factor.

The test results obtained relate only to the Unit Under Test.

## 7. DETAILS OF TEST

Date of receipt of Unit Under Test:	2012-11-01
Date of test:	2012-11-09
Unit Under Test:	NOISESTOP® DS4
Sample I. D.:	AAT12-234
Manufacturer:	Architectural Acoustics Ltd.
Installed by:	Architectural Acoustics Ltd.
Additional Description:	--

The details of Unit Under Test are referring to the drawings given in Appendix 1.



# Architectural Acoustics Testing Centre

## 8.2 Specimen B:125mm base slab with 3mm THK. ALUM. CLADDING (with damping sheet)

Freq. (Hz)	50	63	80	100	125	160	200	250	315
Normalized impact sound pressure level, Ln (1/3 oct), dB	25.1	27.5	25.8	28.0	31.6	34.5	38.5	38.6	38.3
Normalized impact sound pressure level, Ln (1/3 oct), dB	31.0			36.9			43.2		

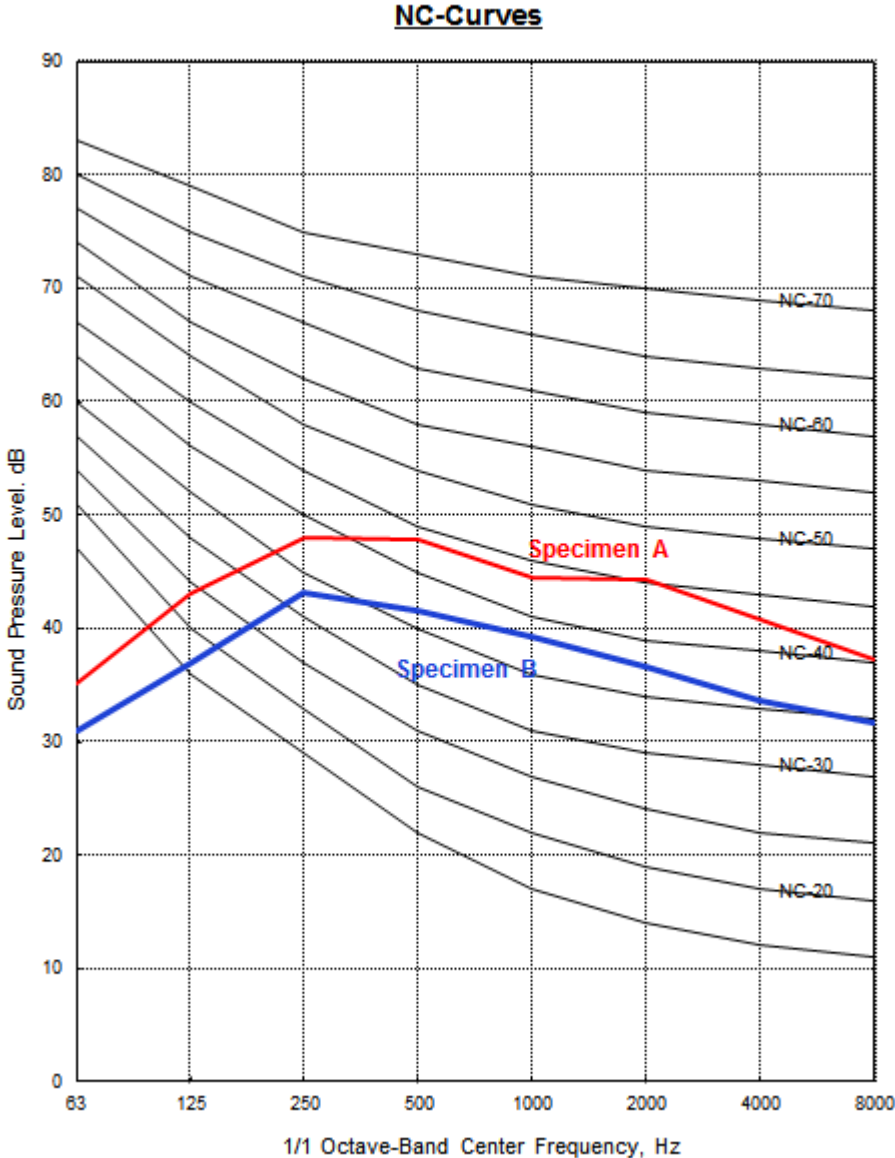
Freq. (Hz)	400	500	630	800	1000	1250	1600	2000	2500
Normalized impact sound pressure level, Ln (1/3 oct), dB	37.6	37.0	35.3	35.3	33.8	34.2	33.9	30.8	30.1
Normalized impact sound pressure level, Ln (1/3 oct), dB	41.5			39.3			36.7		

Freq. (Hz)	3150	4000	5000	6300	8000	10000		
Normalized impact sound pressure level, Ln (1/3 oct), dB	29.2	28.9	28.4	26.6	27.0	27.2	<b>NC</b>	<b>38</b>
Normalized impact sound pressure level, Ln (1/3 oct), dB	33.6			31.7				

This report shall not be reproduced except in full.

# Architectural Acoustics Testing Centre

## 8.3 Noise Criteria (NC)



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# Architectural Acoustics Testing Centre

## APPENDIX LIST

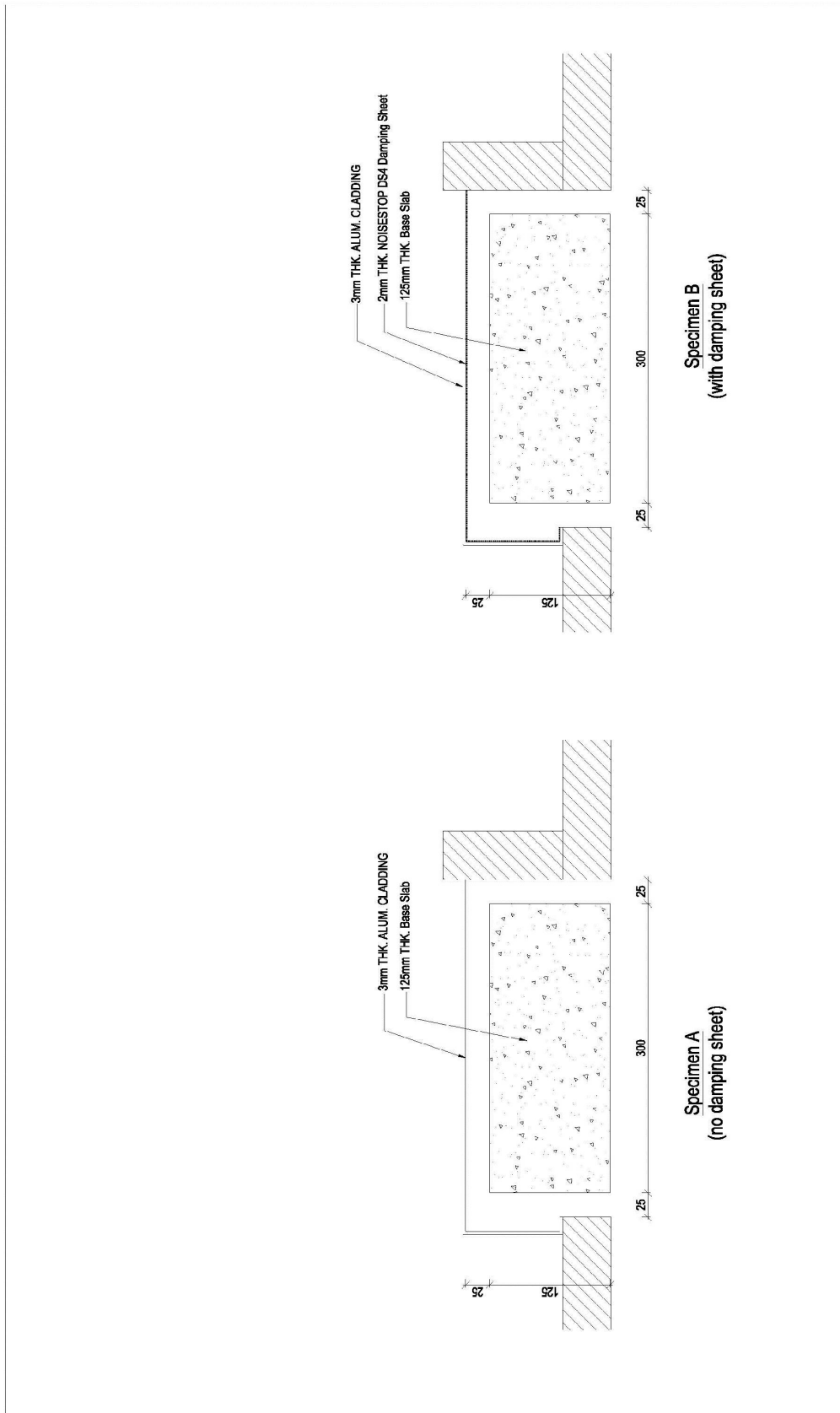
**APPENDIX 1**                      **Details of Unit Under Test**

**APPENDIX 2**                      **Photographic Records**

# Architectural Acoustics Testing Centre

## APPENDIX 1

### Details of Unit Under Test



Rev	修订	日期	备注	Date	修订	日期	备注
A							
B							
C							
D							

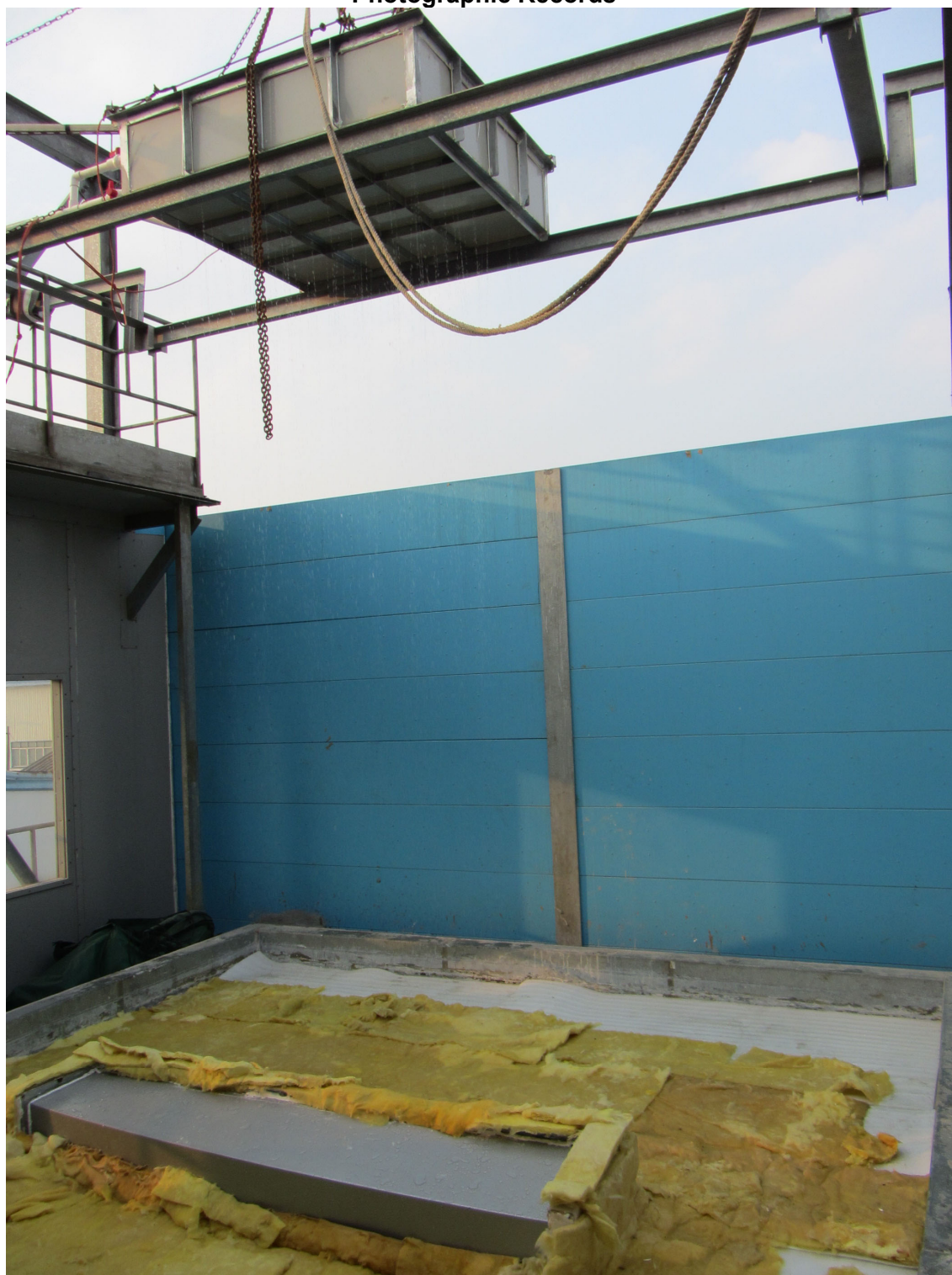
所有尺寸均须在工地现场量度。图中尺寸大小以所述为依归，不可用比例尺直接量度。本图纸及图则本均为建筑声学有限公司之版权所有，翻印必究。  
Rev 修订 Date 日期 Note 备注 Date 日期 Rev 修订

Title 项目		Drawing No. 图号	
ARCHITECTURAL ACOUSTICS		NS02-201-1	
建筑声学		Job No. 工程编号 -	
		Date 日期 2022-05-11	
		Drawn 绘图 Lin	
		Scale 比例 1: 5 (0/4)	
		Check 校核 Mors	
		Rev 修订 A	
		地址: 香港尖沙咀宝珊街29号宝珊商业大厦二楼 电话: 852-25673332 传真: 852-27746001 E-mail: aa@aa-hk.com	

# Architectural Acoustics Testing Centre

## APPENDIX 2

### Photographic Records



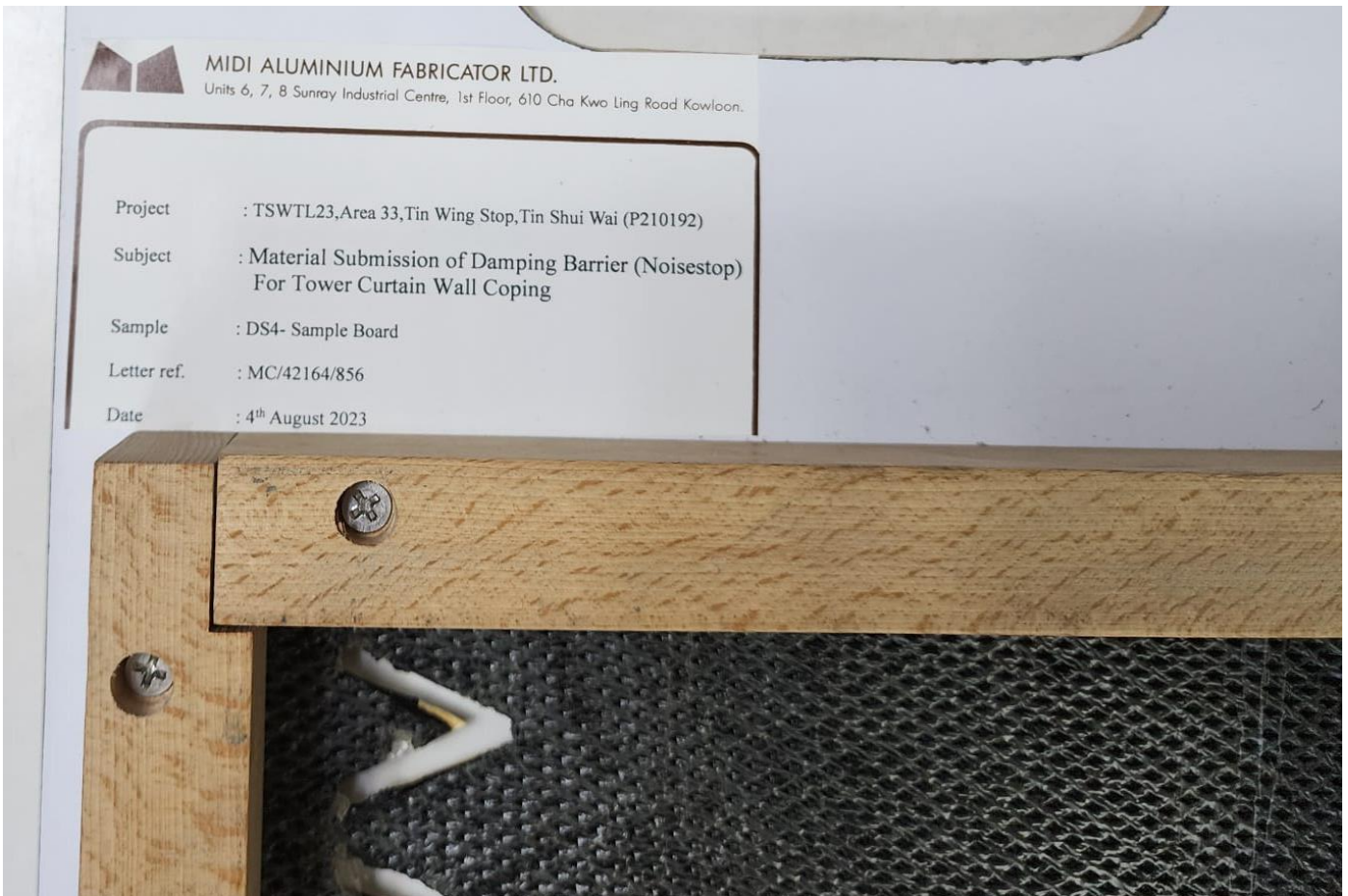
**Set-up of Test Arrangement**

# Architectural Acoustics Testing Centre

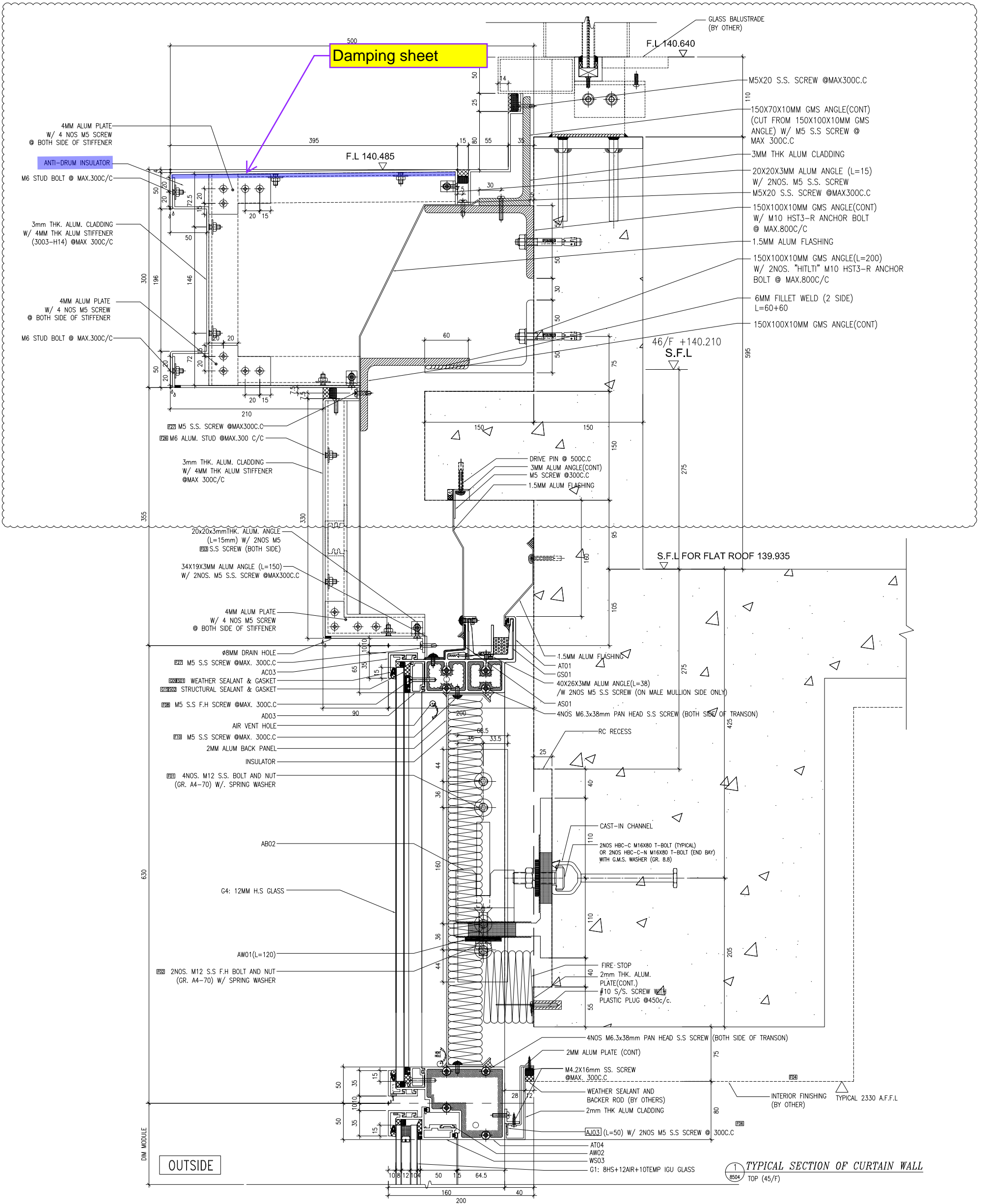


**Set-up of Unit Under Test (Receiving room)**

*End of Report*







B.O. REF :

REDESIGN TOPPING ALUM FEATURE

CLIENT :

**SUN HUNG KAI**  
REAL ESTATE AGENCY LTD.  
42/F SUN HUNG KAI CENTRE, WINGLOH, HONGKONG

ARCHITECT :

**IWK&partners**  
ARCHITECTS

MAIN CONTRACTOR :

**Yee Fai** Building Contractors Ltd.

STRUCTURAL ENGINEER :

**ARUP**

FAÇADE CONSULTANT :

**ALPHA CONSULTING LIMITED**  
Steel Structure & Façade Specialist

NOTE :

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

LEGEND :

- (X1) DETAIL MARK NO.
- (X001) REFER SHEET NO.
- 1. F.L. -- FINISHED FLOOR LEVEL
- 2. S.F.L. -- STRUCTURAL FLOOR LEVEL
- 3. (R) -- REVERSED DETAIL

NO.	DATE	REVISION
1	21-NOV-2022	REVISED
2	30-DEC-2022	
3	21-FEB-2023	
4	10-MAR-2023	

JOB NO. : J-856

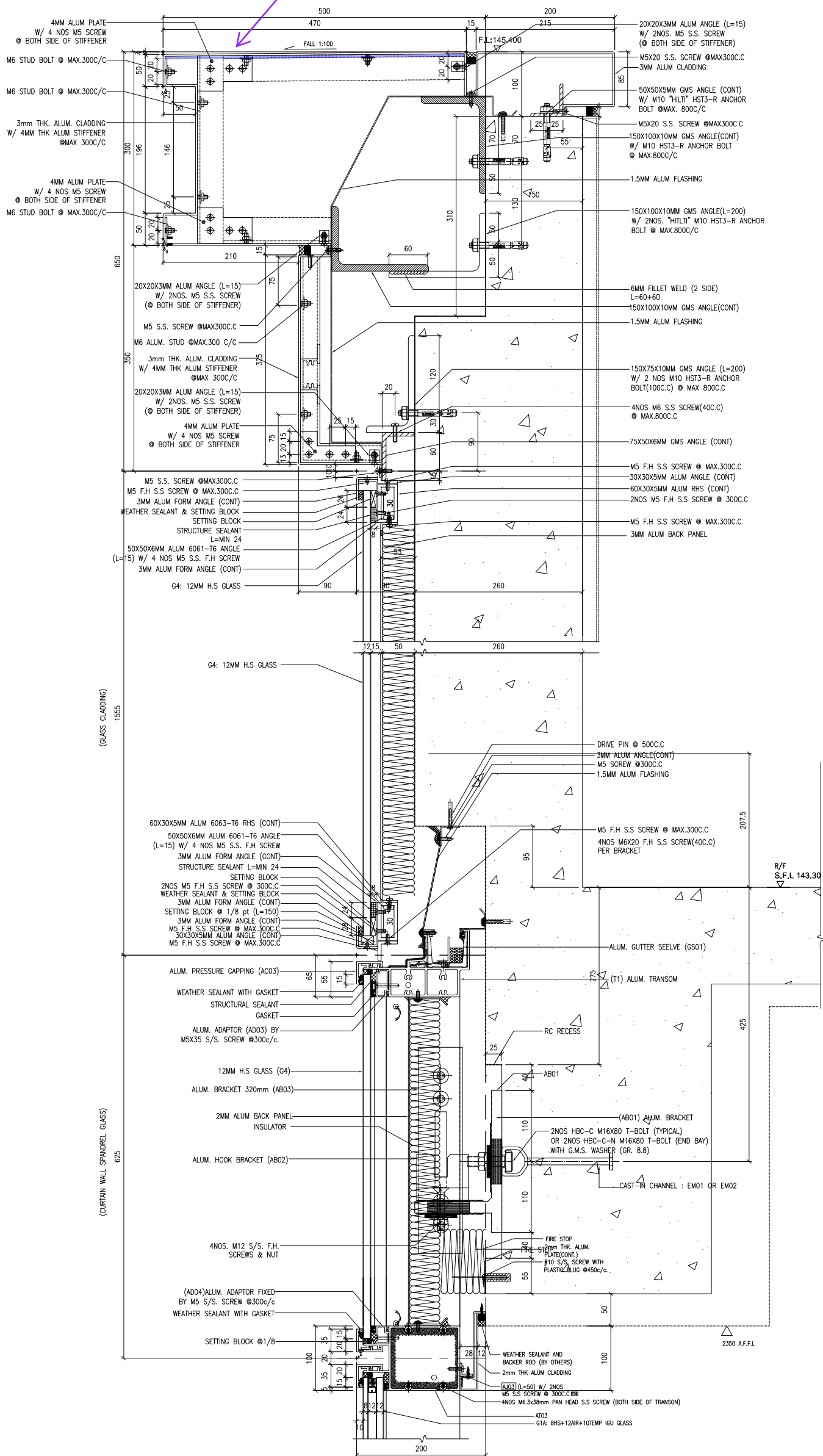
PROJECT : PROPOSED DEVELOPMENT ABOVE LIGHT RAIL TIN WING STOP TSWTL NO.23, AREA 33, TIN SHUI WAI, N.T.

TITLE : TYPICAL DETAIL FOR CURTAIN WALL

DATE : 31-OCT-22 SCALE : 1:5  
DRAWN BY : C.F. CHECKED BY :

**MIDI** ALUMINIUM FABRICATOR LTD.  
Units 6-8, Sunray Industrial Centre, 1/F  
610 Chee Kwong Road, Kowloon  
Tel: 23489211-4 Fax: (852) 27277866  
DWG NO. : J856-SD-CW-8504 REV. : D

Damping sheet



1 8505A TYPICAL SECTION OF CURTAIN WALL

B.O. REF :  
 ADDING THE NEW GLASS CLADDING  
 AND TOP ALUM FEATURE @ TOP  
 OF 46/F CW

CLIENT :

**SUN HUNG KAI**  
 REAL ESTATE AGENCY LTD.  
 42/F SUN HUNG KAI CENTRE, WINGHUA, HONGKONG

ARCHITECT :

**IWK&partners**  
 a r c h i t e c t s

MAIN CONTRACTOR :

**Yee Fai** 怡輝建築有限公司  
 Building Contractors Ltd.

STRUCTURAL ENGINEER :

**ARUP**

FAÇADE CONSULTANT :

**ALPHA CONSULTING LIMITED**  
 Steel Structure & Façade Specialist

NOTE :

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LEGEND :

- (X1) DETAIL MARK NO.
- (X001) REFER SHEET NO.
- 1. F.F.L. -- FINISHED FLOOR LEVEL
- 2. S.F.L. -- STRUCTURAL FLOOR LEVEL
- 3. (R) -- REVERSED DETAIL

NO.	DATE	REVISION	BY

JOB NO. : J-856

PROJECT : PROPOSED DEVELOPMENT ABOVE LIGHT RAIL TIN WING STOP TSWTL NO.23, AREA 33, TIN SHUI WAI, N.T.

TITLE : TYPICAL DETAIL FOR CURTAIN WALL

DATE : 31-OCT-22 SCALE : 1:7

DRAWN BY : C.F. CHECKED BY :

**MIDI** 美特鋁質有限公司  
 Aluminum Fabricator Ltd.  
 Units 6-8, Sunray Industrial Centre, 1/F  
 610 Ona Kwong Road, Kowloon  
 Tel: 23489211-4 Fax: (852) 27277666  
 DWG NO. : J856-SD-CW-8505A REV. : C