



# BIRO KLASIFIKASI INDONESIA

## SERTIFIKAT UJI

### Test Certificate

No : 00184-SP/C1.S/2022  
No

Tanggal : 24 Mei 2022  
Date

Dengan ini dinyatakan bahwa, atas permintaan pemohon, Surveyor BKI telah menyaksikan pengujian dan pemeriksaan dari produk dibawah ini dan dinyatakan memenuhi Peraturan dan/atau Standard dibawah ini.  
*This is to certify that, at the request of applicant, BKI Surveyor has witnessed the testing and examined the product(s) described below and found to comply with requirements of Rules and/or Standards mentioned below.*

Pabrik pembuat : PERKASA M&E SDN BHD  
Manufacturer

Pemohon : PERKASA M&E SDN BHD  
Applicant

No. sertifikat persetujuan : -  
No. of approval certificate

No. persetujuan gambar : 2109090143  
Approval no. of drawing

Pembeli :  
Purchaser

Digunakan untuk : H370 – 85M RORO FERRY  
Intended for

Lokasi pemeriksaan : JOHOR - MALAYSIA  
Place of inspection

Tanggal pemeriksaan : 24 Mei 2022  
Date of inspection

Peraturan/standard inspeksi produk :  
Rules/standard for product inspection

BKI Rules for Hull (Pt.1, Vol.II) and BKI Rules for Materials (Pt.1, Vol.V)

Deskripsi produk :  
Product description

#### **BOLTED & WELDED TYPE WINDOW**

NO.	MATERIAL	CLEAR SIZE (W x H) mm	TYPE	TOUGHENED GLASS (mm)	CLEAR RADIUS	BKI MARKING
1S	STEEL / ALUM	984 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-1
2S	STEEL / ALUM	972 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-2
3S	STEEL / ALUM	963 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-3
4S	STEEL / ALUM	956 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-4
5S	STEEL / ALUM	950 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-5
6S	STEEL / ALUM	947 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-6
7	STEEL / ALUM	1246 x 1326	Welded-Fixed	CLEAR 15	R100	00184SP22-7
8P	STEEL / ALUM	947 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-8
9P	STEEL / ALUM	950 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-9
10P	STEEL / ALUM	956 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-10
11P	STEEL / ALUM	963 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-11
12P	STEEL / ALUM	927 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-12
13P	STEEL / ALUM	984 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-13
14S	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-14
15S	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-15
16	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-16
17	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-17
18	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-18
19	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-19
20P	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-20
21P	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-21
22	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-22
23	ALUM	296 x 1271	Bolted-Fixed	CLEAR 12	R100	00184SP22-23
24	ALUM	296 x 1271	Bolted-Fixed	CLEAR 12	R100	00184SP22-24
25S	STEEL / ALUM	1405 x 851/848	Welded-Fixed	CLEAR 15	R100	00184SP22-25
26P	STEEL / ALUM	1398 x 848/846	Welded-Hinged	CLEAR 15	R100	00184SP22-26

27	STEEL / ALUM	1396 x 846	Welded-Fixed	CLEAR 15	R100	00184SP22-27
28S	STEEL / ALUM	1398 x 848/846	Welded-Hinged	CLEAR 15	R100	00184SP22-28
29P	STEEL / ALUM	1405 x 851/848	Welded-Fixed	CLEAR 15	R100	00184SP22-29
30	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-30
31	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-31
32	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-32
33	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-33
34	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-34
35	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-35
36	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-36
37	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-37
38	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-38
39	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-39
40	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-40
41	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-41
42	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-42
43	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-43
44	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-44
45P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-45
46S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-46
47P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-47
48S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-48
49P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-49
50S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-50
51P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-51
52S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-52
53P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-53
54S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-54
55	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-55
56	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-56
57	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-57
58	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-58
59	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-59
60	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-60
61P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-61
62S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-62
63P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-63
64S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-64
65P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-65
66S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-66
67P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-67
68S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-68
69	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-69
70	ALUM	346 x 971	Bolted-Fixed	CLEAR 12	R100	00184SP22-70
71	ALUM	1146 x 946	Bolted-Hinged	CLEAR 15	R100	00184SP22-71
72	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-72
73	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-73
74	ALUM	1946 x 846	Bolted-Fixed	CLEAR 19	R100	00184SP22-74

**ALUMINIUM SIDE SCUTTLE**

NO.	MATERIAL	CLEAR SIZE (DIA.) mm	TYPE	TOUGHENED GLASS (mm)	CLEAR RADIUS	BKI MARKING
75	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-75
76	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-76
77	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-77
78	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-78
79	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-79
80	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-80
81	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-81
82	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-82
83	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-83
84	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-84
85	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-85
86	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-86
87	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-87
88	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-88
89	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-89
90	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-90
91	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-91
92	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-92
93	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-93
94	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-94
95	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-95
96	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-96

No. Sertifikat : 00184-SP/C1.S/2022

Certificate no.

97	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-97
98	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-98
99	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-99
100	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-100
101	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-101
102	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-102

Pemeriksaan dan pengujian :

*Inspection and testing*

- Visual Inspection
- Hydrostatic test

Material dan komponen berikut dari produk diatas telah diperiksa :

*The following materials and components of the above product were inspected*

- Marine Glass – CCS Certificate No.NJ17W00120 dated Feb.21, 2022
- Aluminium Extrusion - DNV-GL Report No.117UCFXK-63(2) & 117UCFXK-63(3) dated 4 June 2018
- Mild Steel – Mill Test Certificate No.1002031-A1-1 dated Apr.25, 2021
- Gasket – Trelleborg Test Certificate No.TC/062TS/19 dated 28 May 2019

Pemeriksaan berikut harus dilakukan pada produk setelah selesai pemasangan di atas kapal :

*The following inspections are to be carried out to the product upon completion of installation on board*

Hose testing after being installed on board

Tanda identifikasi pada produk : as a table above (BKI Marking)

*Identification marks on the component*

Keterangan : NIL

*Remarks*



**Kepala Cabang UtamaKlas Singapore**

*Head of Singapore Class main branch*

**SALVINUS PATANGKE**

NUP : 40393-KI



# BIRO KLASIFIKASI INDONESIA

## Laporan Sertifikasi Material / Produk

Report for Certification of Material / Product

No. laporan : 00184-SP/C1/2022

Report no.

Lokasi pemeriksaan : JOHOR - MALAYSIA

Inspection place

Tanggal pemeriksaan : 24.05.2022

Inspection date

Pemohon : PERKASA M&E SDN BHD

Applicant

Pembeli :

Purchaser

Penggunaan untuk : H370 – 85M RORO FERRY

Intended for

Pembuat material / produk : PERKASA M&E SDN BHD

Material / product manufacturer

No. agenda permohonan : 00624SP21

Work order no.

No. pesanan pembeli : B-2021-12-6511

Purchaser order no.

No. kontrak/register : 2109090143

Contract/register no.

### Data material/produk :

Material/product particulars

Material / Produk Material / Product	No. sertifikat persetujuan No. of approval certificate	Deskripsi material / produk Material / product description	No. persetujuan gambar No. of drawing approval	Jumlah Quantities
WINDOW & SIDE SCUTTLE	-	BOLTED & WELDED TYPE WINDOW ALUMINIUM SIDE SCUTTLE	2109090143	74 PCS 28 PCS

Peraturan / standard : BKI Rules for Hull (Pt.1, Vol.II) and BKI Rules for Materials (Pt.1, Vol.V)

Rules / standards

### Pemeriksaan dan pengujian

Inspection and testing

Material / Produk Materials / Products	Jenis Pemeriksaan dan Pengujian Kind of Inspection and Testing	Status Pemeriksaan Inspecting Mode	No. Referensi Reference No.	Hasil Uji Test Results
WINDOW & SIDE SCUTTLE	Visual Inspection	Witness	PME/QIR-05019/22(R1)	Satisfactory
	Hydrostatic Test	Witness	PME/QIR-05020/22(R2)	Satisfactory

### Sampel / spesimen uji

Test sample / specimen

- Seluruh material / produk diperiksa dan diuji  
All of the materials / products are inspected and tested
- Material / produk diperiksa dan diuji secara acak  
The materials / products are inspected and tested randomly
- Pengujian menggunakan alat uji yang terkalibrasi  
The test is carried out with calibrated test equipments

Jumlah dan data spesimen : 5 PCS-WINDOW & 3 PCS-SIDE SCUTTLE

Quantity and data of specimens

**Komponen utama (informasi pengujian dan spesifikasi)**  
*Major component (testing information and specification)*

Produk <i>Product</i>	Nama Komponen <i>Component Name</i>	Pembuat <i>Manufacturer</i>	No. Referensi Dokumen <i>Reference Document No.</i>	Penandaan <i>Marking</i>
WINDOW & SIDE SCUTTLE	Aluminium Extrusion	-	DNV GL Report No.117UCFXK-63(2) & No.117UCFXK-63(3)	-
	Marine Glass	Yixing Yushi Special Glass Co.Ltd.	CCS Certificate No.NJ17W00120	-
	Mild Steel	Feng Hsin Steel Co.,Ltd.	Certificate No.1002031- A1-1	-
	Gasket	-	Trelleborg Certificate No.TC/062TS/19	-

Informasi tambahan :

*Additional information*

NIL

Terlampir dokumen pengujian material / produk :

*Enclosed documents testing of products above*

Laporan pengujian  
*Test reports*

Mill certificate material  
*Mill certificates of material*

Rekaman proses pembuatan  
*Manufacturing records*

Material / produk diberi tanda identifikasi / marka sbb :

*Material / product was/were marked as follows*

**BOLTED & WELDED TYPE WINDOW**

NO.	MATERIAL	CLEAR SIZE (W x H) mm	TYPE	TOUGHENED GLASS (mm)	CLEAR RADIUS	BKI MARKING
1S	STEEL / ALUM	984 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-1
2S	STEEL / ALUM	972 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-2
3S	STEEL / ALUM	963 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-3
4S	STEEL / ALUM	956 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-4
5S	STEEL / ALUM	950 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-5
6S	STEEL / ALUM	947 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-6
7	STEEL / ALUM	1246 x 1326	Welded-Fixed	CLEAR 15	R100	00184SP22-7
8P	STEEL / ALUM	947 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-8
9P	STEEL / ALUM	950 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-9
10P	STEEL / ALUM	956 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-10
11P	STEEL / ALUM	963 x 1326/1326	Welded-Fixed	CLEAR 15	R100	00184SP22-11
12P	STEEL / ALUM	927 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-12
13P	STEEL / ALUM	984 x 1325/1325	Welded-Fixed	CLEAR 15	R100	00184SP22-13
14S	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-14
15S	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-15
16	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-16
17	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-17
18	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-18
19	ALUM	671 x 846	Bolted-Fixed	CLEAR 12	R100	00184SP22-19
20P	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-20
21P	ALUM	1366 x 816/816	Bolted-Sliding	CLEAR 10	R50	00184SP22-21
22	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-22
23	ALUM	296 x 1271	Bolted-Fixed	CLEAR 12	R100	00184SP22-23
24	ALUM	296 x 1271	Bolted-Fixed	CLEAR 12	R100	00184SP22-24
25S	STEEL / ALUM	1405 x 851/848	Welded-Fixed	CLEAR 15	R100	00184SP22-25
26P	STEEL / ALUM	1398 x 848/846	Welded-Hinged	CLEAR 15	R100	00184SP22-26
27	STEEL / ALUM	1396 x 846	Welded-Fixed	CLEAR 15	R100	00184SP22-27
28S	STEEL / ALUM	1398 x 848/846	Welded-Hinged	CLEAR 15	R100	00184SP22-28
29P	STEEL / ALUM	1405 x 851/848	Welded-Fixed	CLEAR 15	R100	00184SP22-29
30	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-30
31	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-31

32	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-32
33	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-33
34	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-34
35	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-35
36	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-36
37	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-37
38	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-38
39	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-39
40	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-40
41	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-41
42	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-42
43	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-43
44	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-44
45P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-45
46S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-46
47P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-47
48S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-48
49P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-49
50S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-50
51P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-51
52S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-52
53P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-53
54S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-54
55	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-55
56	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-56
57	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-57
58	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-58
59	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-59
60	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-60
61P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-61
62S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-62
63P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-63
64S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-64
65P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-65
66S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-66
67P	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-67
68S	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-68
69	ALUM	1396 x 846/846	Bolted-Fixed	CLEAR 15	R100	00184SP22-69
70	ALUM	346 x 971	Bolted-Fixed	CLEAR 12	R100	00184SP22-70
71	ALUM	1146 x 946	Bolted-Hinged	CLEAR 15	R100	00184SP22-71
72	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-72
73	ALUM	1396 x 846	Bolted-Fixed	CLEAR 15	R100	00184SP22-73
74	ALUM	1946 x 846	Bolted-Fixed	CLEAR 19	R100	00184SP22-74

**ALUMINIUM SIDE SCUTTLE**

NO.	MATERIAL	CLEAR SIZE (DIA.) mm	TYPE	TOUGHENED GLASS (mm)	CLEAR RADIUS	BKI MARKING
75	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-75
76	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-76
77	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-77
78	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-78
79	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-79
80	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-80
81	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-81
82	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-82
83	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-83
84	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-84
85	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-85
86	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-86
87	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-87
88	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-88

89	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-89
90	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-90
91	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-91
92	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-92
93	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-93
94	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-94
95	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-95
96	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-96
97	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-97
98	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-98
99	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-99
100	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-100
101	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-101
102	ALUM	O 300	Hinged	CLEAR 10	-	00184SP22-102

SINGAPORE, 24 MAY 2022

Tempat / place

Tanggal / date

Surveyor

