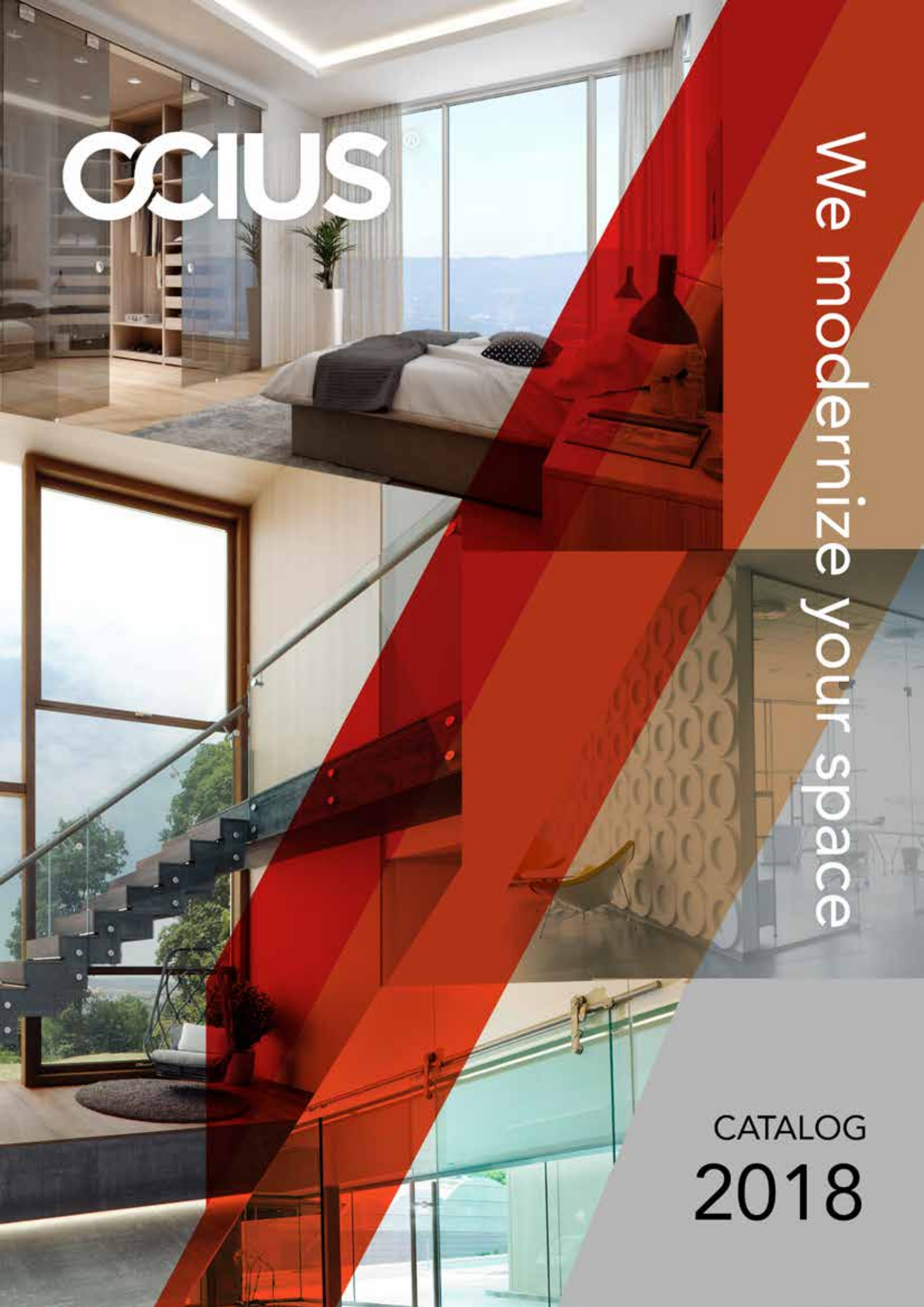


A collage of four modern interior design images: a bedroom with a large window and a glass-enclosed closet, a staircase with a glass railing, a modern lounge area with a large window, and a modern office space with a glass partition. A large, diagonal, semi-transparent red and orange graphic element runs across the center of the collage.

CCCIUS

We modernize your space

CATALOG
2018

01 Part Accesories

01	Railing Glass	17	Door Handle
03	Cubicle Toilet	18	Sliding Door Lock
07	Connector for Tube	19	Waterseal
08	Glass Clip	20	Semi Automatic Door
09	Shower Hinge Stainless Steel	21	Automatic Door
11	Shower Hinge Brass	23	Floor Hinge
12	Grandle	24	Door Closer
13	Sliding Door Handle	26	Floor Pivot
13	Knob Handle	27	Spider Fitting
13	Kop Kaca	31	Folding Door
14	Patch Fitting	33	Bi Folding Door
15	Door Handle 150 cm	35	Canopy
		35	Joint Fitting

02 Set Products

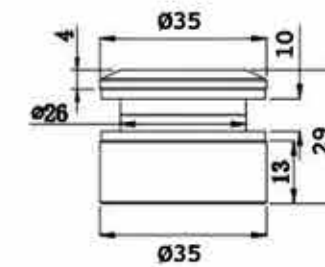
■	Non Automatic Sliding Door	■	Sliding Door Corner Screen
34	OSD 049	44	OSD 078
35	OSD 3114		
36	OSD 330		
■	Sliding Door SIngle Screen		
38	OSD 054		
40	OSD 066		
42	OSD 078		



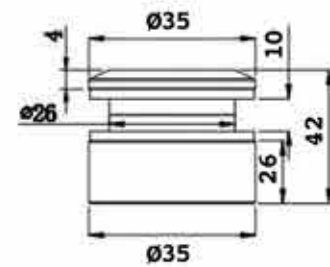
CCIUS® RAILING GLASS



OGR 0390-1 (3cm)
Tombol Railing Tangga



OGR 0390-2 (4cm)
Tombol Railing Tangga



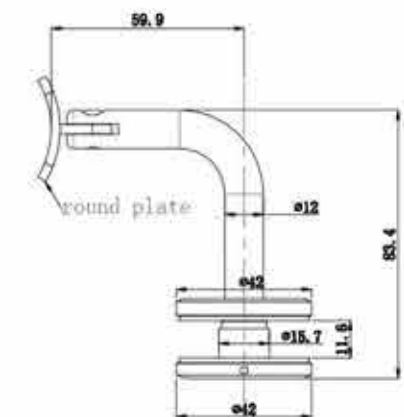
OGR 0100R/F
Railing Tangga



F : Bentuk ujung datar



R : Bentuk ujung melengkung



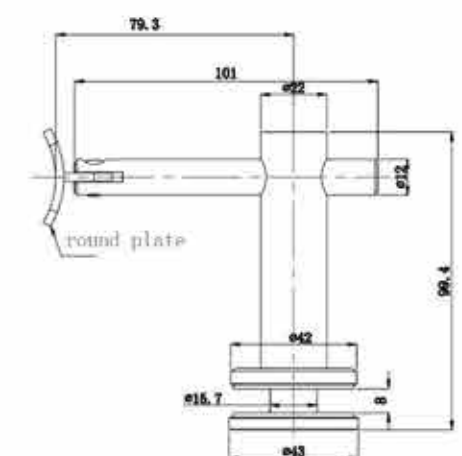
OGR 0200R/F
Railing Tangga Flexible



F : Bentuk ujung datar

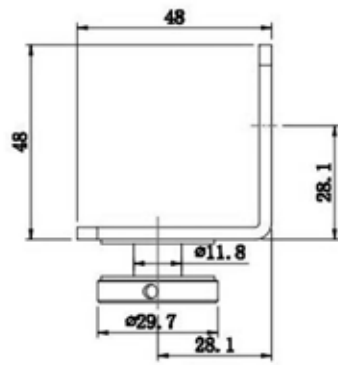


R : Bentuk ujung melengkung

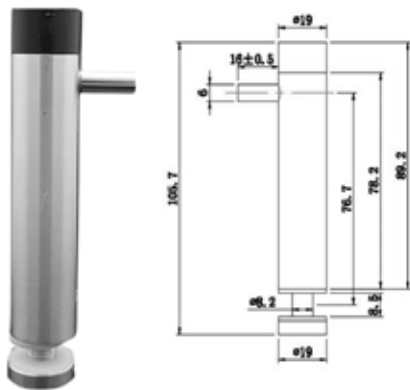
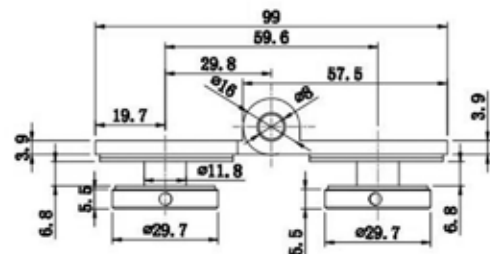




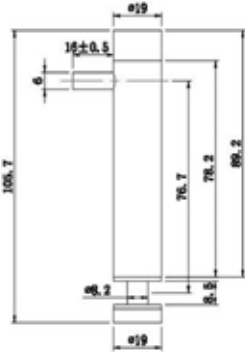
OCTA 3 W
Clip kaca ke tembok



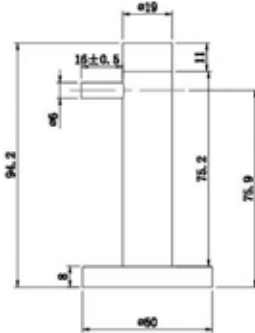
OCTA 6



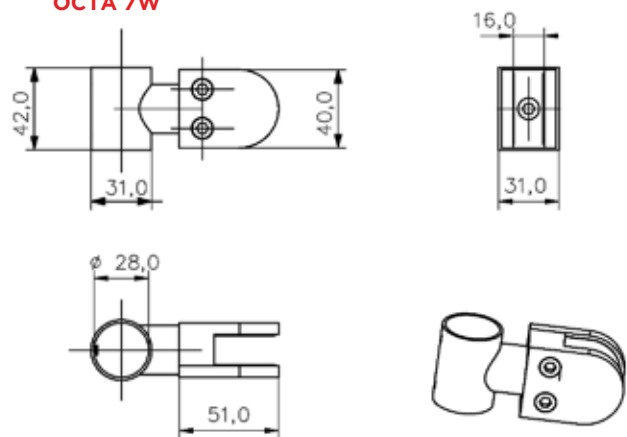
OCTA 7G



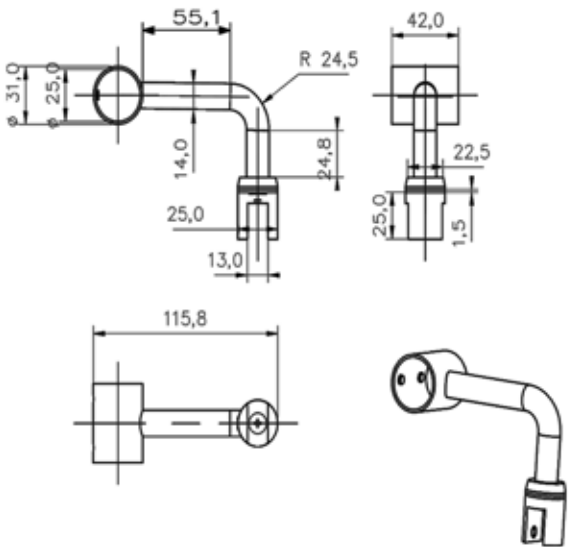
OCTA 7W



OCTA 8 B



OCTA 9 B



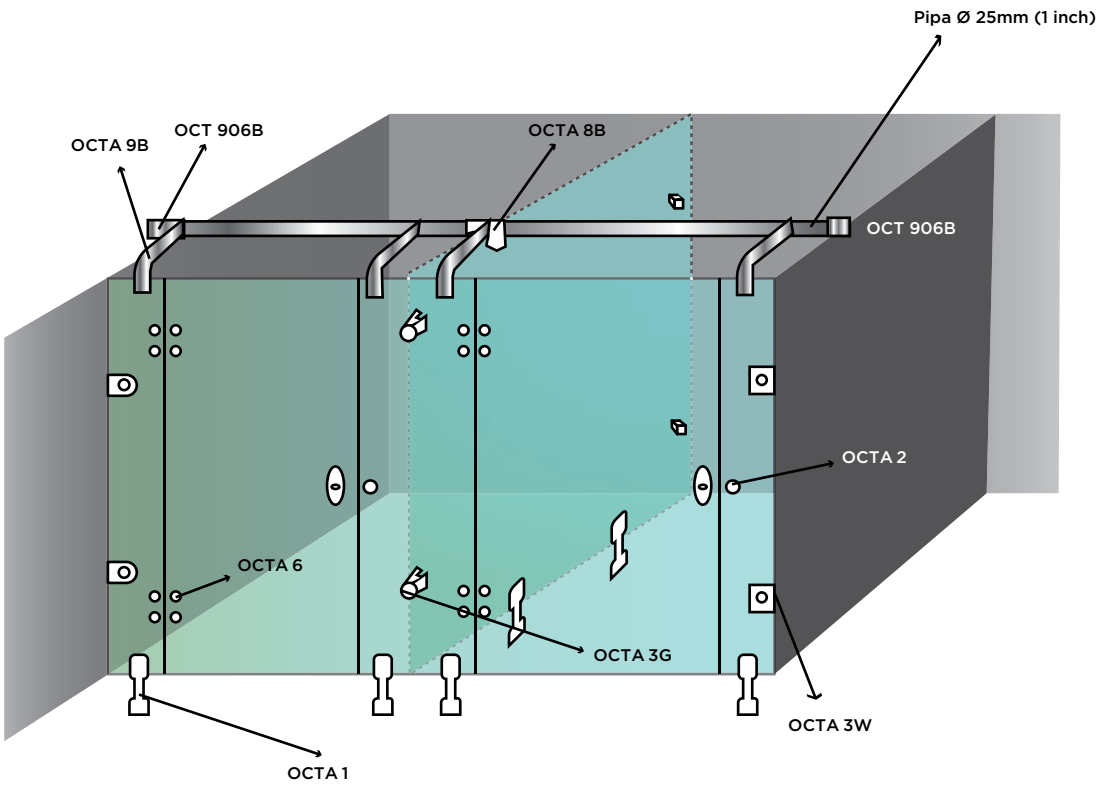
OCT 906 B



Pipa 25mm (1 inch)

Sebagai alternatif :
Bisa menggunakan penguat pipa 19 mm
(3/4 inch), dengan accesories connector
for tube

Bagian sisi samping dalam interior cubicle toilet

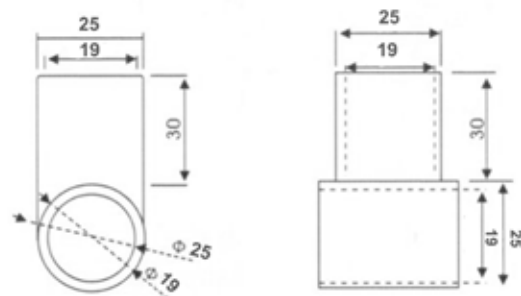


CCIUS® CONNECTOR FOR TUBE

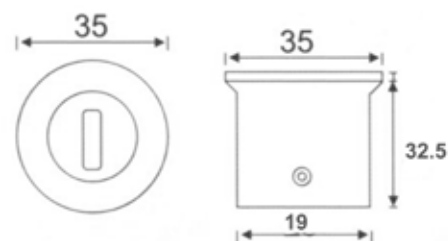
Material : Kuningan
Permukaan : Mengkilap atau satin (hairline)
Ketebalan Kaca : 8 - 10 mm
Diameter Pipa : 3/4 inch (19 mm)



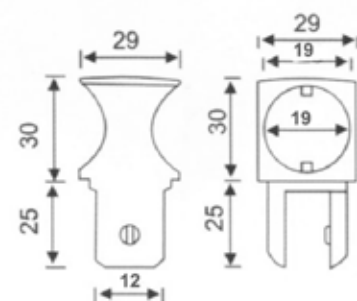
OCT 901
Konektor pipa ke pipa T



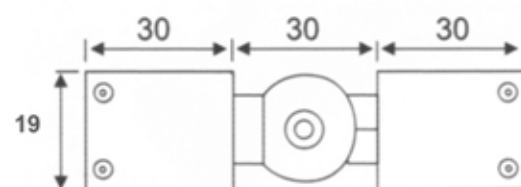
OCT 906 A
Konektor pipa ke tembok



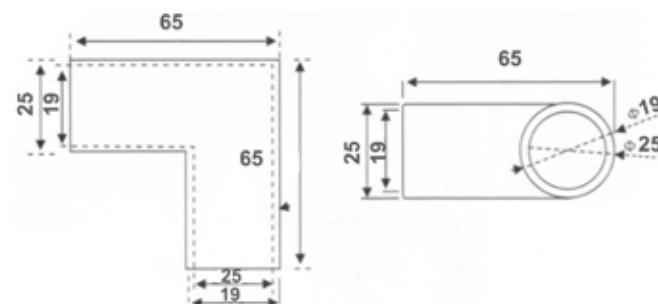
OCT 907 A
Konektor pipa ke kaca



OCT 908 A
Konektor pipa ke kaca fleksible



OCT 353
Konektor pipa ke pipa 90°

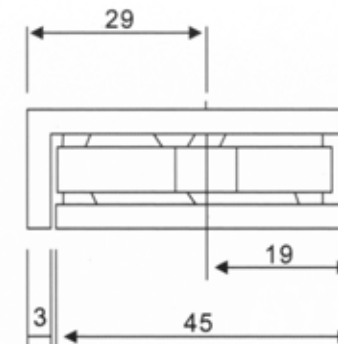


CCIUS® GLASS CLIP

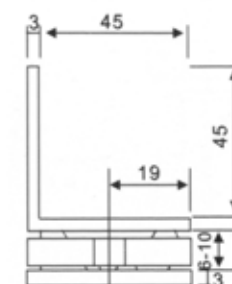
Bahan : Stainless Steel #304
Permukaan : Mengkilap atau satin (hairline)
Ketebalan kaca : 8 - 10 mm
Untuk : Kaca tempered



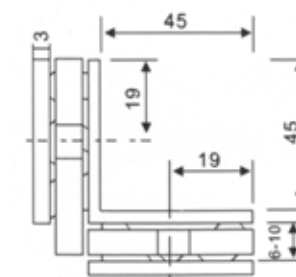
OGC 008
Glass clip U



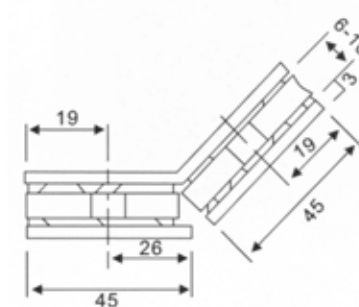
OGC 009
Glass clip ke tembok 90°



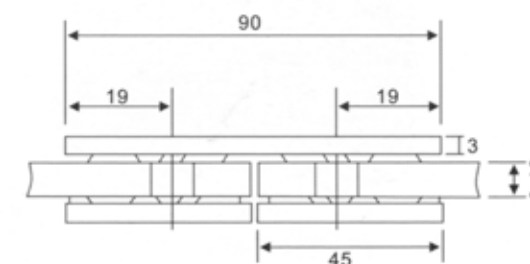
OGC 010
Glass clip kaca ke kaca 90°



OGC 012
Glass clip kaca ke kaca 135°



OGC 014
Glass clip kaca ke kaca 180°

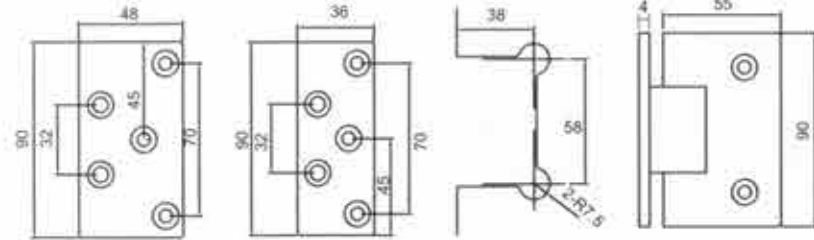


CCIUS[®] SHOWER HINGE STAINLESS STEEL

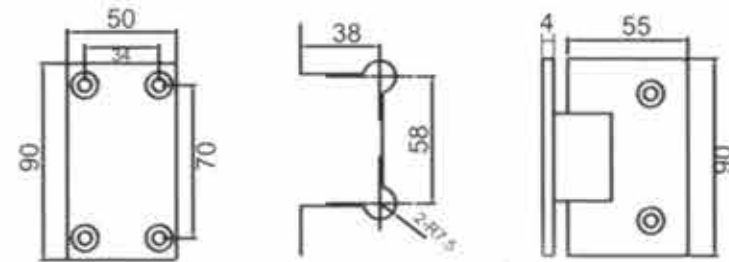
Bahan : Stainless Steel #304
Permukaan : Mengkilap
Fitur : Saat pintu terbuka 25°, maka pintu akan menutup secara otomatis
Beban : 40 kg / pasang
Digunakan Untuk : Tempered Glass
Ketebalan Pintu : 8 - 10 mm



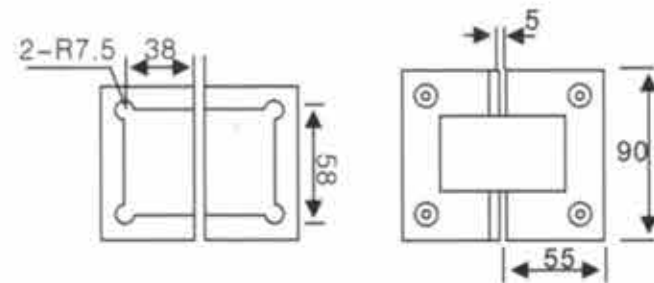
OSH 201
Engsel Kaca ke Tembok (satu sisi, 90°)



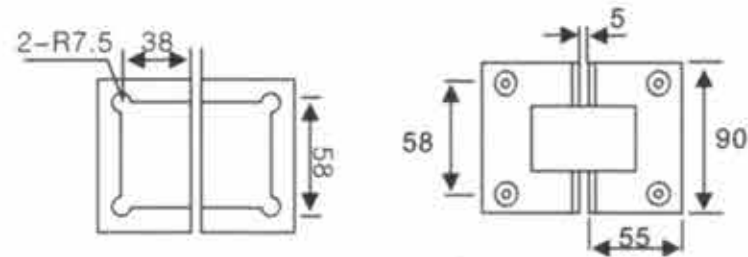
OSH 202
Engsel Kaca ke Tembok (dua sisi, 180°)



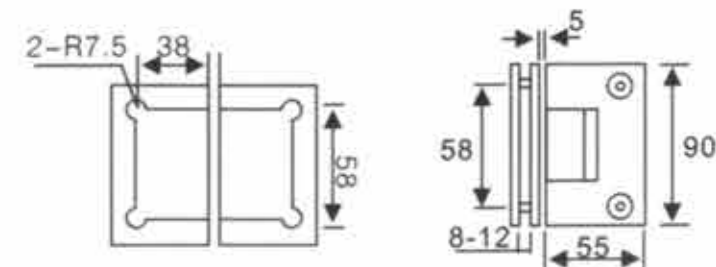
OSH 203
Shower Hinge kaca ke kaca 180° (Plat tengah dua)



OSH 204
Engsel Kaca ke Kaca (135°)



OSH 205
Engsel Kaca ke Kaca (90°)

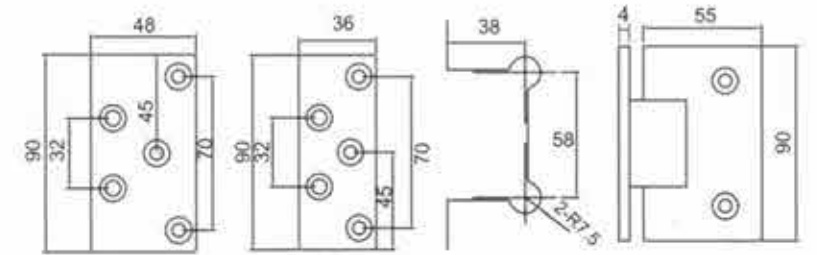


CCIUS[®] SHOWER HINGE STAINLESS STEEL

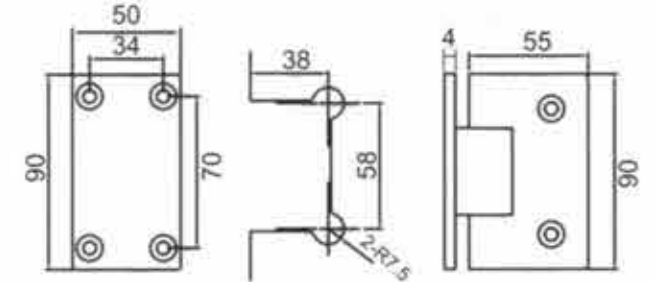
Bahan : Stainless Steel #304
Permukaan : Mengkilap
Fitur : Saat pintu terbuka 25°, maka pintu akan menutup secara otomatis
Beban : 40 kg / pasang
Digunakan Untuk : Tempered Glass
Ketebalan Pintu : 8 - 10 mm



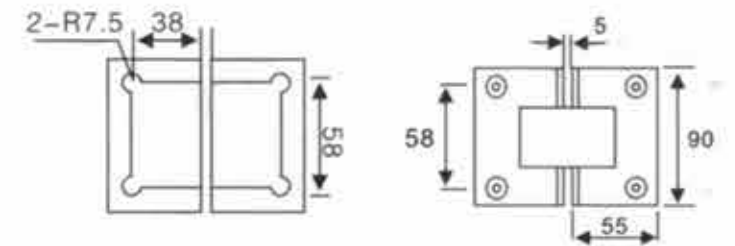
OSH 301
Engsel Kaca ke Tembok (satu sisi, 90°)



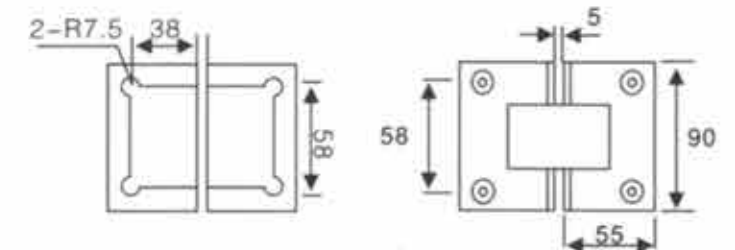
OSH 302
Engsel Kaca ke Tembok (satu sisi, 90°)



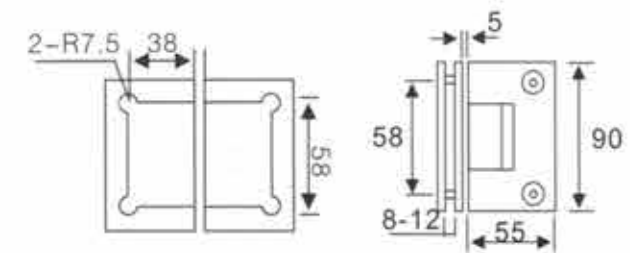
OSH 303
Engsel Kaca ke Kaca (180°)



OSH 304
Engsel Kaca ke Kaca (135°)



OSH 305
Engsel Kaca ke Kaca (90°)





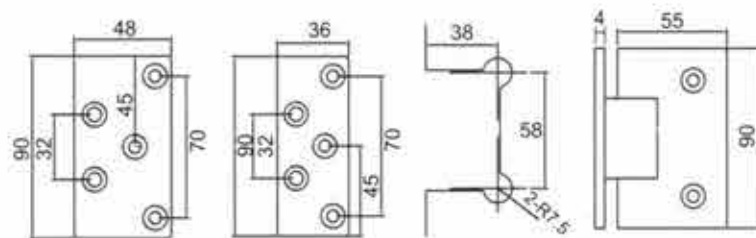
PSB Singapore

CCIUS® **SHOWER HINGE** **BRASS / KUNINGAN**

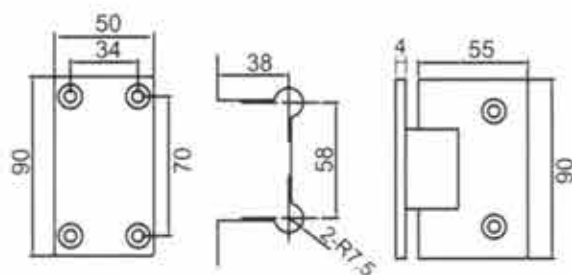
Bahan : Kuningan
 Permukaan : Chrome (mengkilap)
 Fitur : Saat pintu terbuka 25°, maka pintu akan menutup secara otomatis
 Menahan Beban : 40 kg / pasang
 Digunakan Untuk : Tempered Glass
 Ketebalan Pintu : 8 - 10 mm



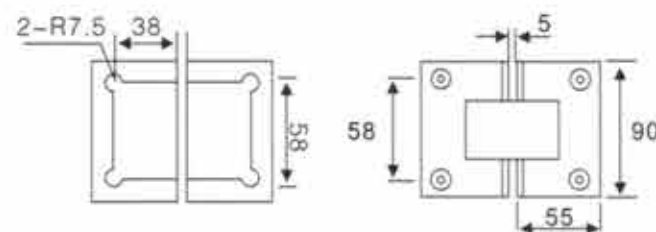
OSH 211
 Engsel Kaca ke Tembok (satu sisi, 90°)



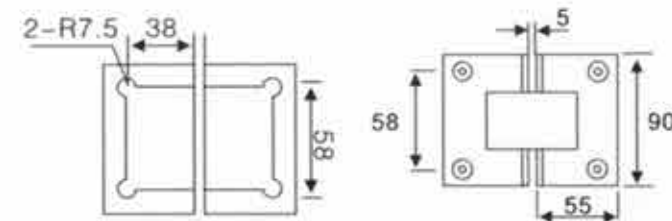
OSH 212
 Engsel Kaca ke Tembok (dua sisi, 180°)



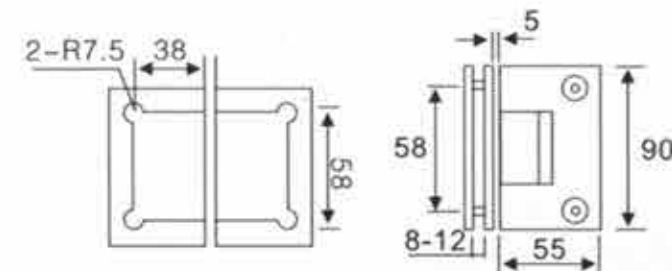
OSH 213
 Engsel Kaca ke Kaca (180°)



OSH 214
 Engsel Kaca ke Kaca (135°)



OSH 215



CCIUS® **GRANDLE**

Bahan : Stainless Steel #304
 Untuk : Kaca Tempered
 Permukaan : Mengkilap atau satin (hairline)
 Ketebalan pintu : 8 - 10 mm



R1571 A
 Double



R1571 B
 Single



A 126
 Single



A 127
 Double



97 A



97 B



238 A
 Single



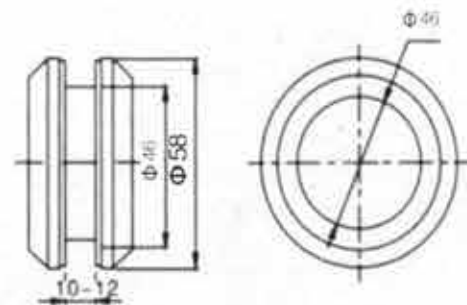
238
 Double

CCIUS® SLIDING DOOR HANDLE

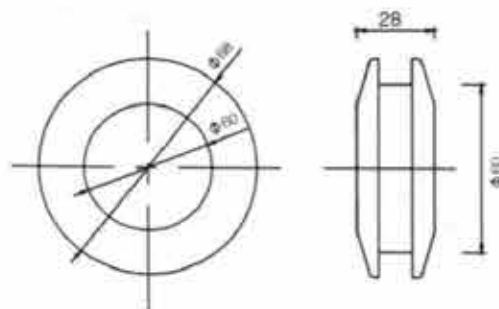
Bahan : Stainless Steel #304
 Untuk : Kaca Tempered
 Permukaan : Mengkilap atau satin (hairline)
 Ketebalan pintu : 8 - 10 mm



OSDH 134 C (10 mm)
 Handle Pintu Sliding Diameter Ø 46 mm



OSDH 274 (10 mm)
 Handle Pintu Sliding Diameter Ø 59 mm



CCIUS® KNOB HANDLE

Bahan : Stainless Steel #304
 Untuk : Kaca Tempered
 Permukaan : Mengkilap atau satin (hairline)
 Ketebalan pintu : 8 - 10 mm



OKH 138A
 Handle Knob

CCIUS® KOP KACA

Bahan : Aluminium
 Permukaan : Mengkilap

Maksimum daya angkat saat kaca pada posisi:
 Horizontal : 150 kg
 Vertikal : 135 kg



Kop Kaca 3 mata

CCIUS® PATCH FITTING



OPT 10



OPT 10 A



OPT 20



OPT 30



OPT 40



OPT 24



OPT 41 L



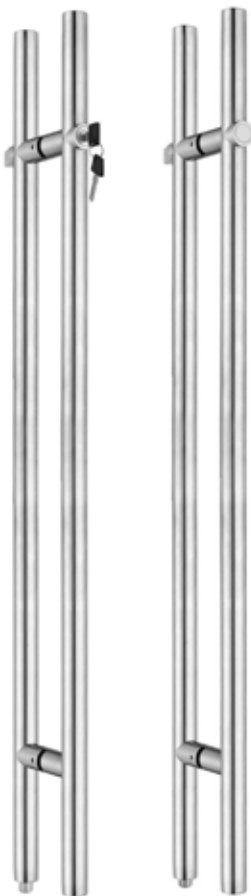
OPT 41 R



CCIUS®

DOOR HANDLE
150 cm

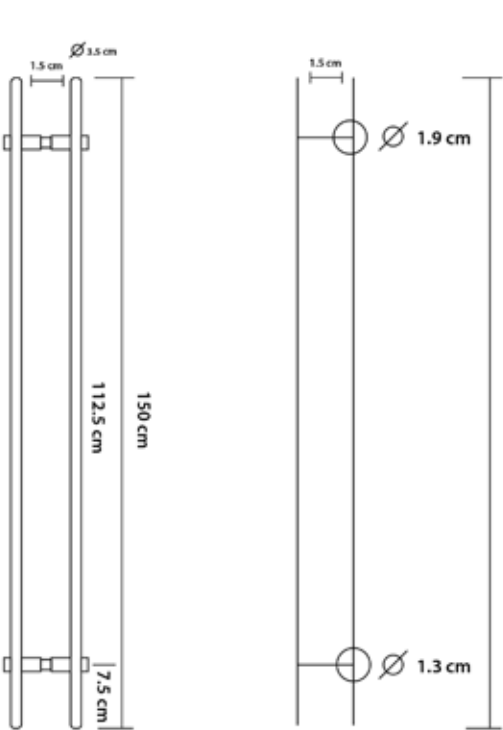
Bahan : Stainless Steel #304



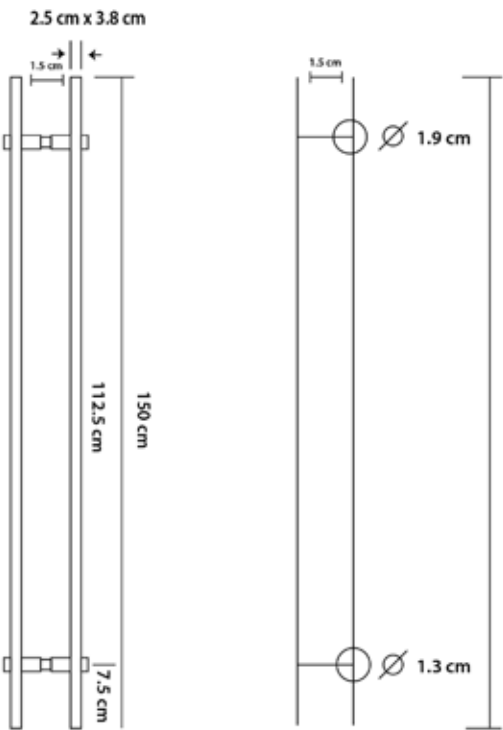
Door Handle Bulat 150 cm



Door Handle Kotak 150 cm



Spesifikasi Door Handle Bulat 150 cm



Spesifikasi Door Handle Kotak 150 cm



ODH 158
Terdiri dari 3 varian :
Handle C 20 cm
Handle C 30 cm
Handle C 35 cm



ODH 159
Terdiri dari 2 varian :
Handle 50x20
Handle 45x15



ODH 160
Terdiri dari 2 varian :
Handle 40 cm
Handle 60 cm



ODH 170
Terdiri dari 2 varian :
Handle 50x20
Handle 45x15



ODH 183



Handle H
Terdiri dari 5 varian :
Handle H 120 cm (as 100 cm)
Handle H 100 cm (as 80 cm)
Handle H 80 cm (as 60 cm)
Handle H 60 cm (as 40 cm)
Handle H 50 cm (as 35 cm)



OSDL A194
Single



OSDL A195
Double



OSDL 134 G



OSDL 513
Single



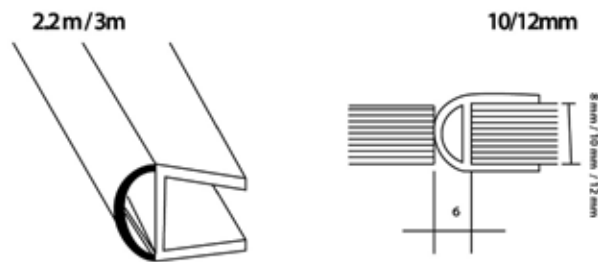
OSDL 514
Double



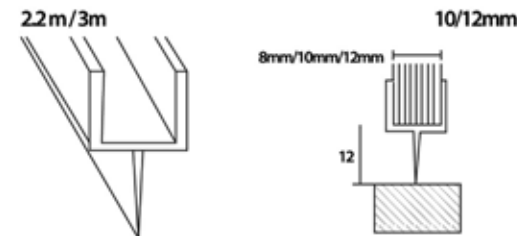
OSDL 515
Single



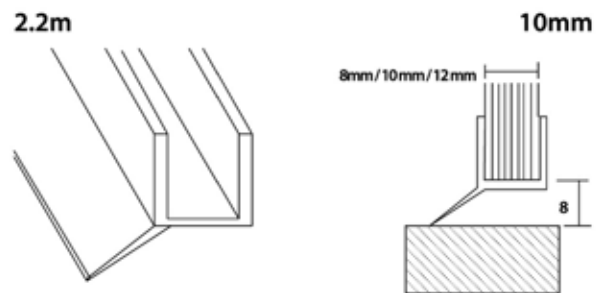
OSDL 516
Double



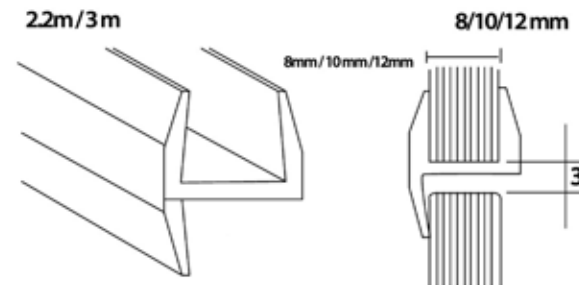
B700
Waterseal 2.2m (8,10,12 mm) ; 3m (12mm)



B701
Waterseal 2.2m (8,10 mm) ; 3m (12mm)



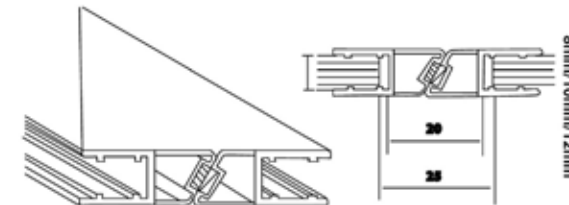
B702
Waterseal 2.2m (10mm)



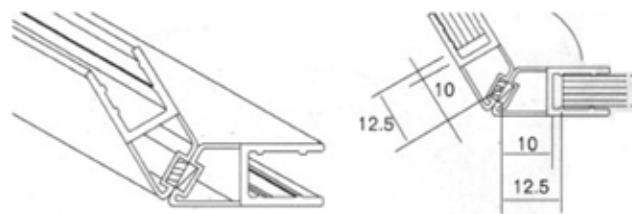
B703
Waterseal 2.2m (8,10,12 mm) ; 3m (12mm)



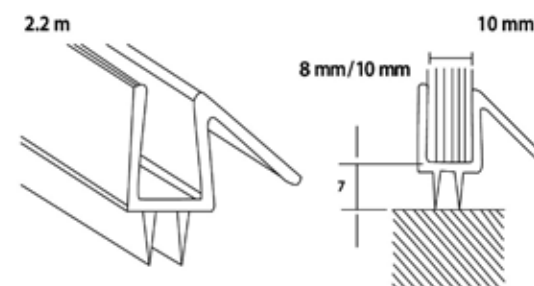
B704
Waterseal 2.2m (8,10 mm) ; 3m (12mm)



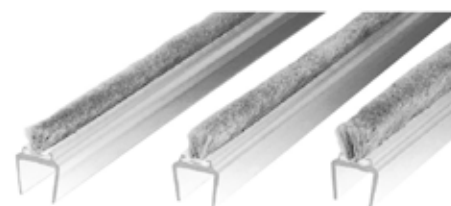
B710
Waterseal Magnet 90° / 180° : 2.2m



B711
Waterseal Magnet 135° : 2.2m (10mm)

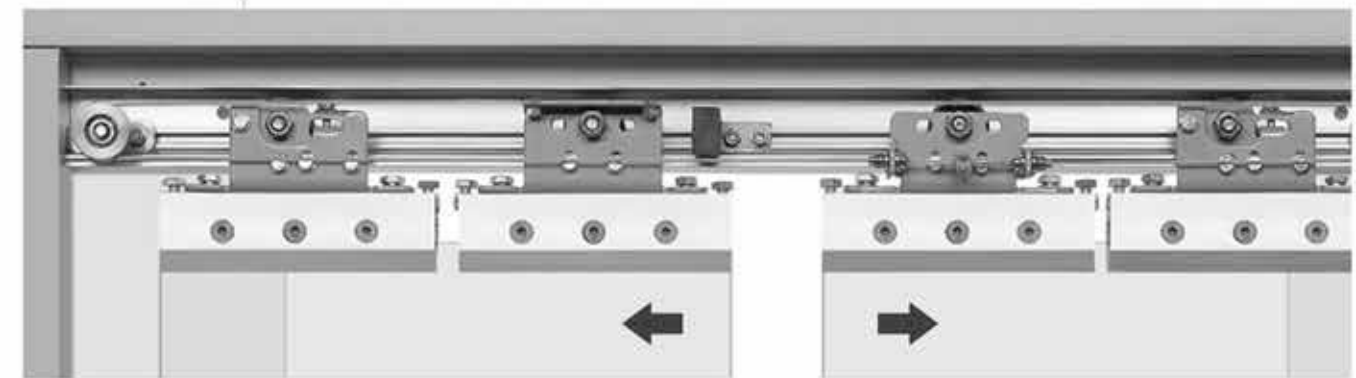


B723
Waterseal 2.2m (10mm)



B560
Mohair : 12mm (2.2m dan 3m)

Menggunakan sistem kawat baja, sehingga saat pintu di sebelah kiri dibuka, maka pintu disebelah kanan akan ikut membuka sebesar pintu sebelah kiri. Begitu pula sebaliknya.



Specification

Maximum door width	700 - 1000 mm
Maximum door height	2500 mm
Maximum door weight	80 kg x 2
Tempered glass	10 - 12 mm
Material	Aluminium
Rail Length	4000 mm



Gambar Penerapan Automatic Door OADC 100



Gambar Penerapan Automatic Door OADC 125 B



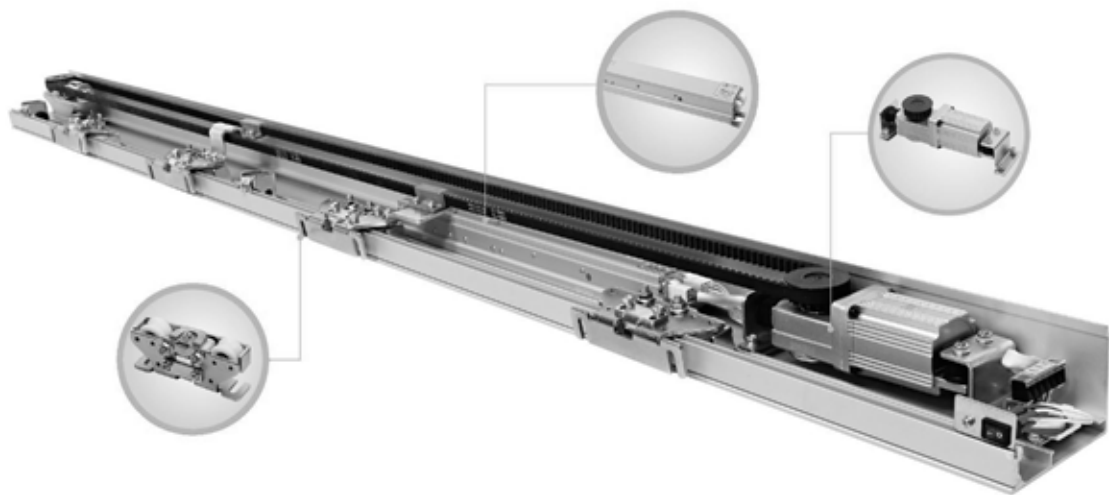
OADC 100
Automatic Door Closer

Technical Parameters

Power Supply Voltage	AC220V± 10%,50Hz 40W
Opening Speed	25° / Sec-45° / Sec
Closing Speed	25° / Sec-45° / Sec
Open the door to keep time	0-10 Sec
For Door Width	< 1100 mm

Technical Parameters

Open Method	All variety of sensors and access control
Opening Speed	Automatic anti-opening meet resistance
Closing Speed	< 30 N
Operating Noise	≤ 55 dB



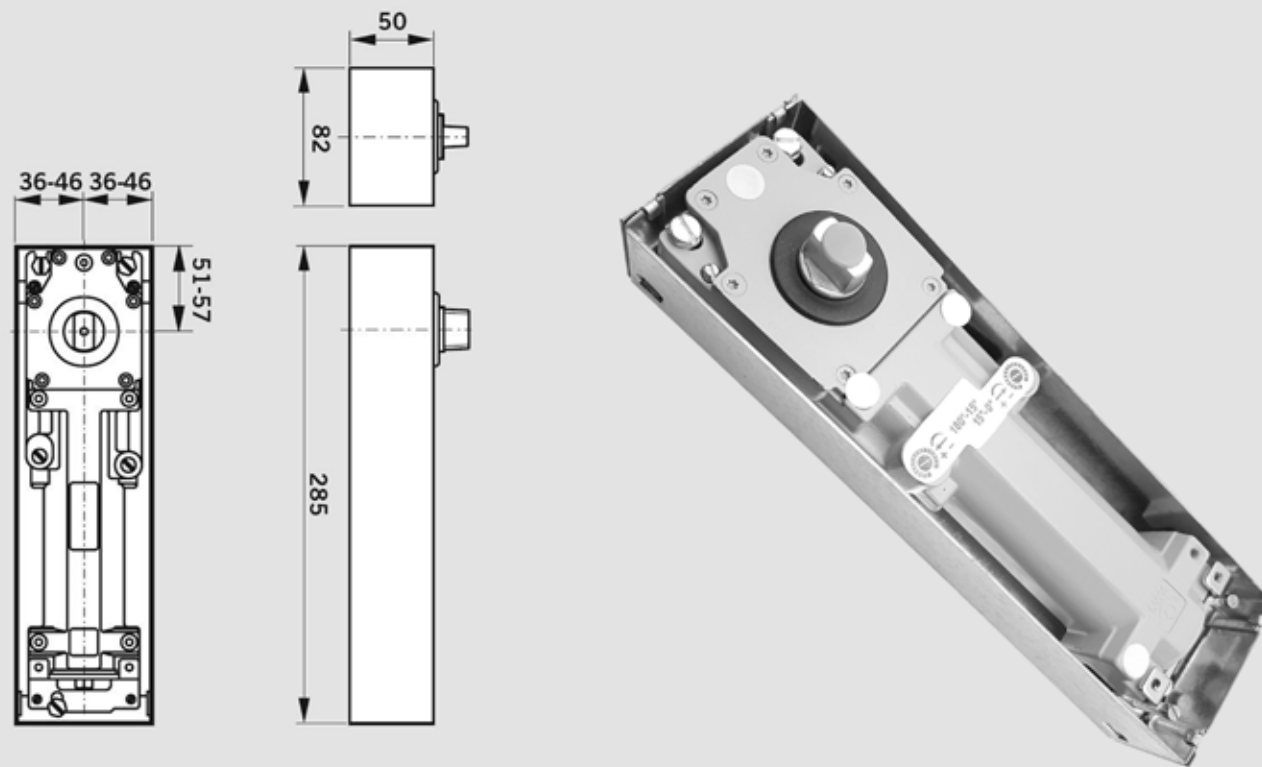
OADC 125 B (Mesin Kotak)
Automatic Sliding Door

Technical Parameters

Power Supply Voltage	AX 220-240V, 50-60Hz	
Sensor Type	Sensors for various modes	
Opening Speed	200-450 mm/s	
Closing Speed	200-450 mm/s	
Opening Hours	0-9s	
Manual Opening Forces	< 40N Single Open	
Operating Noise	< 55dB	
Ambient Temperature	-20°C + 50°C	
Variant Length Rail	420 cm	480 cm

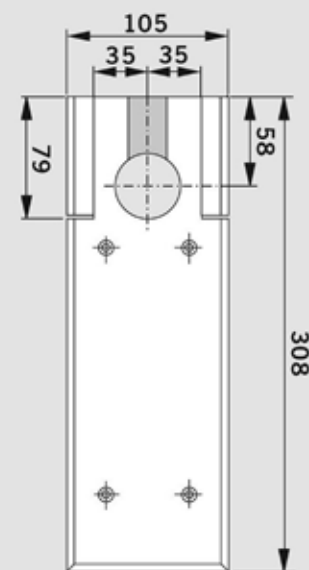
Door Parameters

Single Leaf Sliding Door	
The Width of The Net Open	700-1300 mm
Maximum Door Weight	150 kg
Double Leaf Sliding Door	
The Width of The Net Open	600-1250 mm
Maximum Door Weight	120 kg x 2

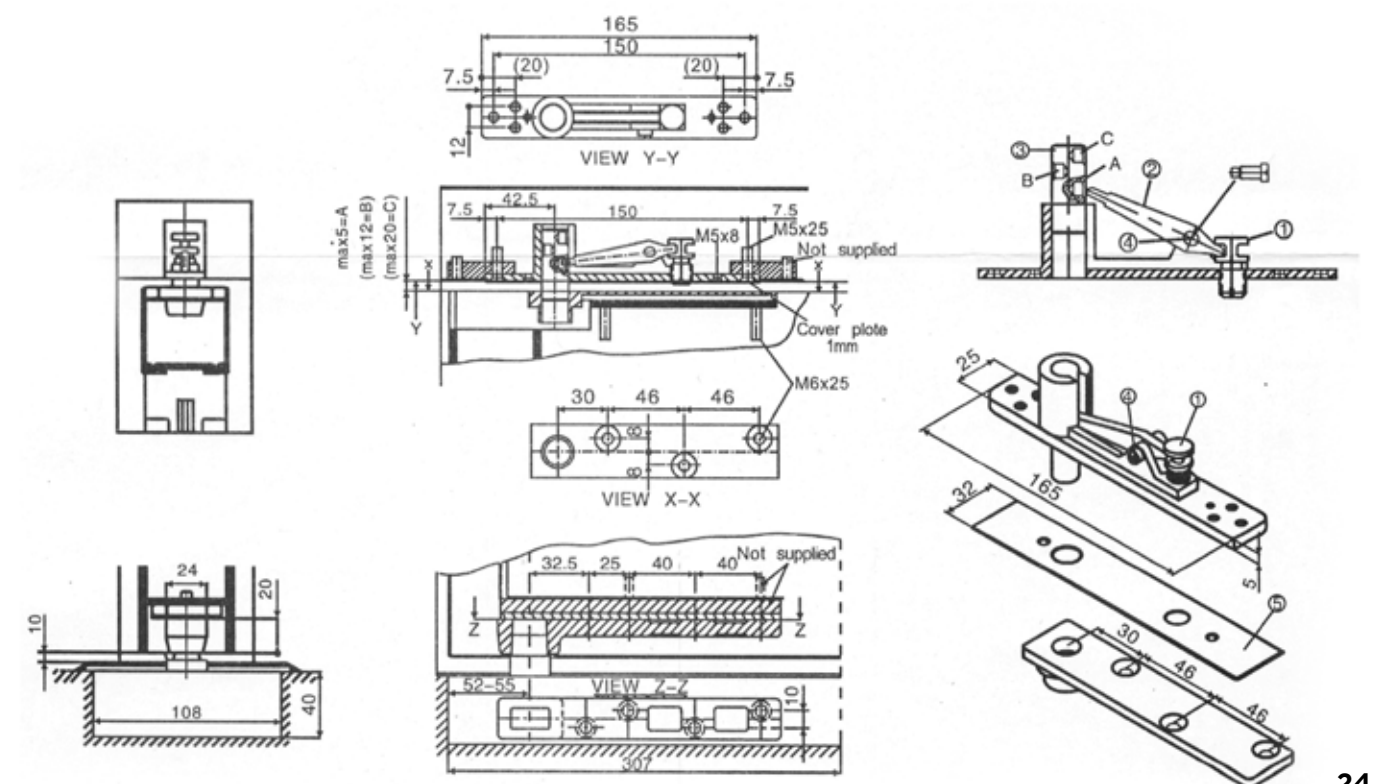
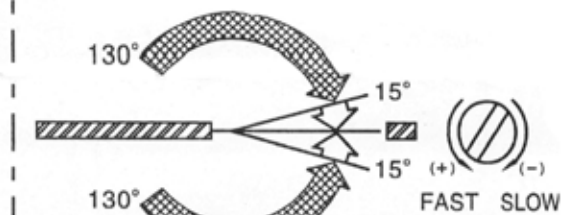
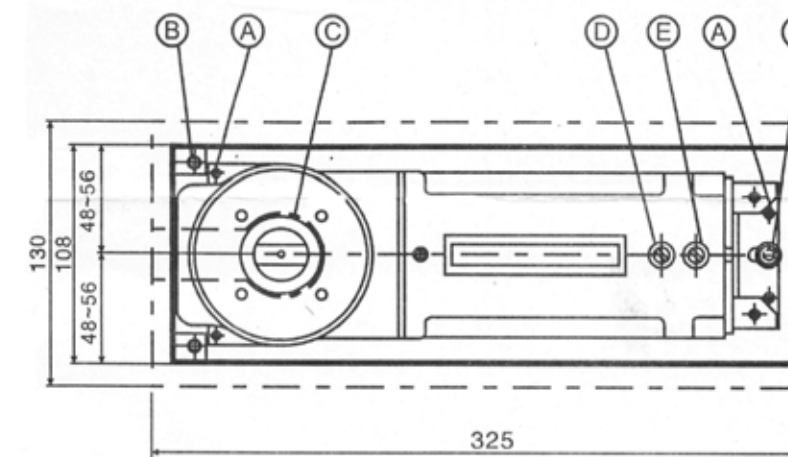


Data and Features

Standart and External Doors	≤1100mm	•
Max. leaf weight (kg)		120
Closing speed adjustable by valve	175°-0°	-
	175°-15°	•
	15°-0°	•
Backcheck, mechanical		•
Hold open	Adjustable	-
	Fixed 90°	•
	Fixed 105°	•
Weight in kg		3.0
Dimensions in mm	Length	285
	Overall depth	82
	Height	50



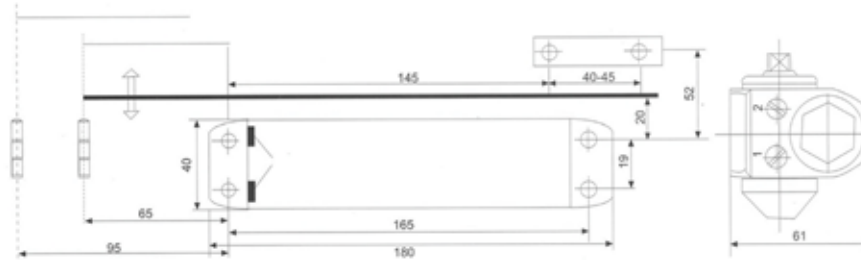
OFH 84	EN 3	EN 4
Berat Pintu maksimal	100kg	100kg
Lebar Pintu maksimal	900mm	1100 mm



CCIUS® DOOR CLOSER



ODC 801

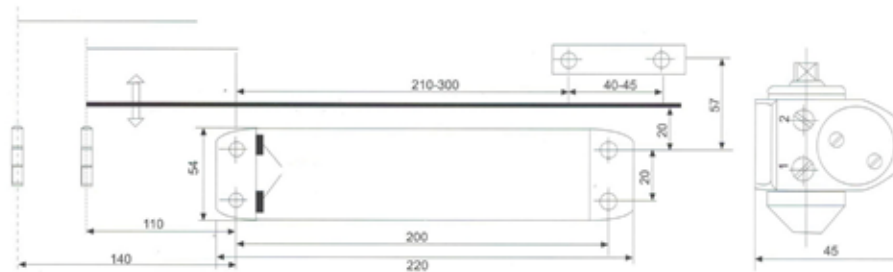


Technical Data

Model : ODC 801
 Application : All metal & plastic door
 Door Size x Height : 950 mm
 Weight : ≤60 kg
 Functional : 900 Hold-open/ Non Hold-open
 Variant Colour : Darkbrown & Silver



ODC 2000



Technical Data

Model : ODC 2000
 Application : All metal & plastic door
 Door Size x Height : 900 mm
 Weight : ≤60 kg
 Functional : Non Hold-open
 Variant Colour : Darkbrown & Silver

CCIUS® FLOOR PIVOT

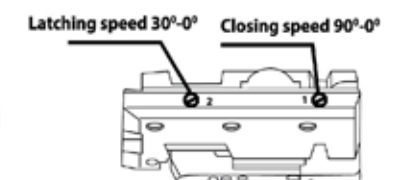
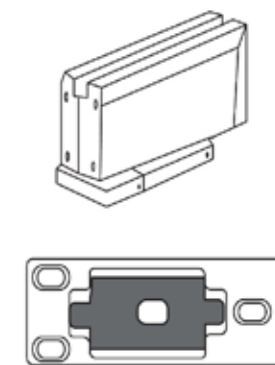
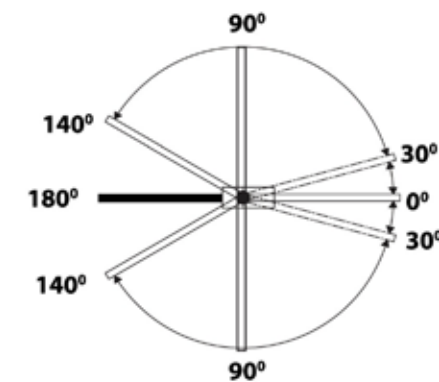


01.

Hold Open Model :
 Hold Open Position and
 Maximum Opening Angle 90°

02.

Speed Adjustment :
 Latching Speed 300-00
 Closing Speed 900-00



Model No.	Fungsi	Lebar Pintu	Berat Pintu	Dimensi
OFP 3071	Hold open 90°	≤ 1000mm	80 kg	173 x 52 x 95



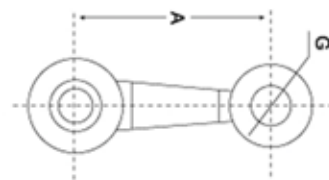
PSB Singapore

CCIUS[®] SPIDER FITTING

Bahan : Stainless Steel #304



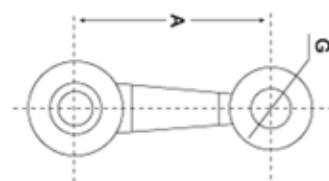
OSF 2201 (11 cm)
Spider kaki 1 (11cm)



	A	G
Spec.	110	Ø25



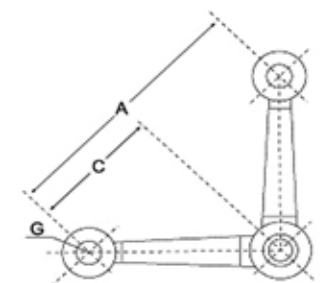
OSF 2201 (16 cm)
Spider kaki 1 (16cm)



	A	G
Spec.	160	Ø25



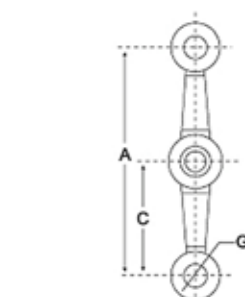
OSF 2202
Spider kaki 2 (90°)



	A	C	G
Spec.	220	110	Ø25



OSF 2202
Spider kaki 2 (180°)



	A	C	G
Spec.	220	110	Ø25



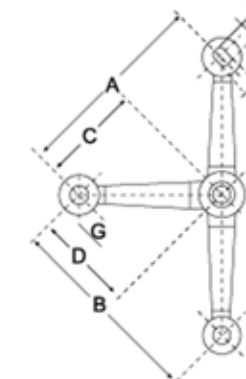
PSB Singapore

CCIUS[®] SPIDER FITTING

Bahan : Stainless Steel #304



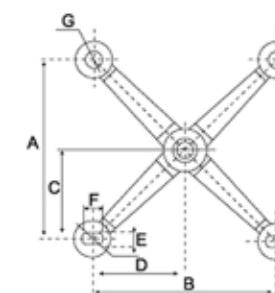
OSF 2203
Spider kaki 3



	A	B	C	D	E	F	G
Spec.	220	220	110	110	17	27	2-Ø25



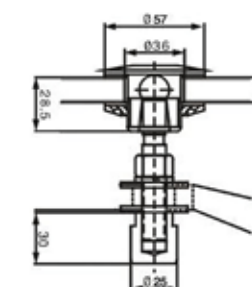
OSF 2204
Spider kaki 4



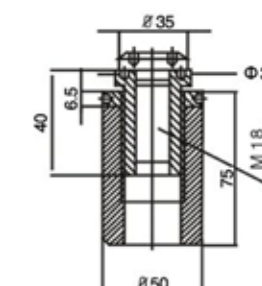
	A	B	C	D	E	F	G
Spec.	220	220	110	110	17	27	2-Ø25



SFA 001

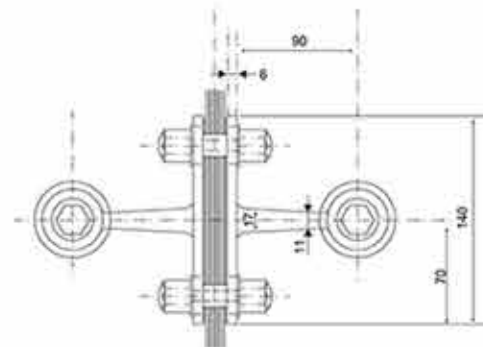


SFA 005

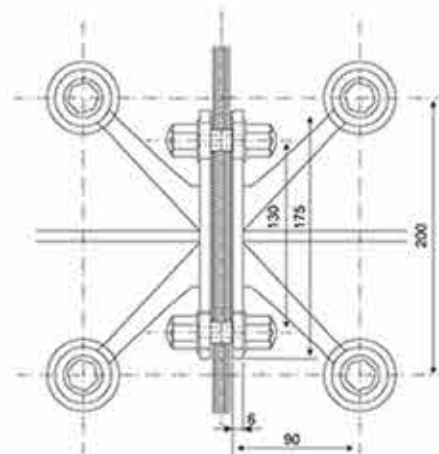


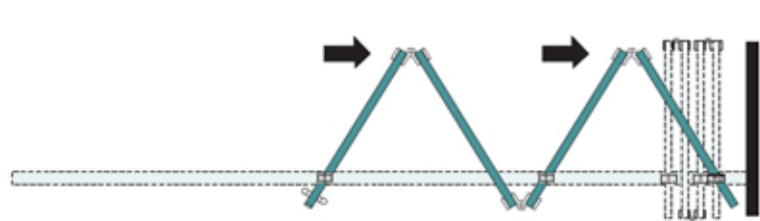


OSF 2002 T

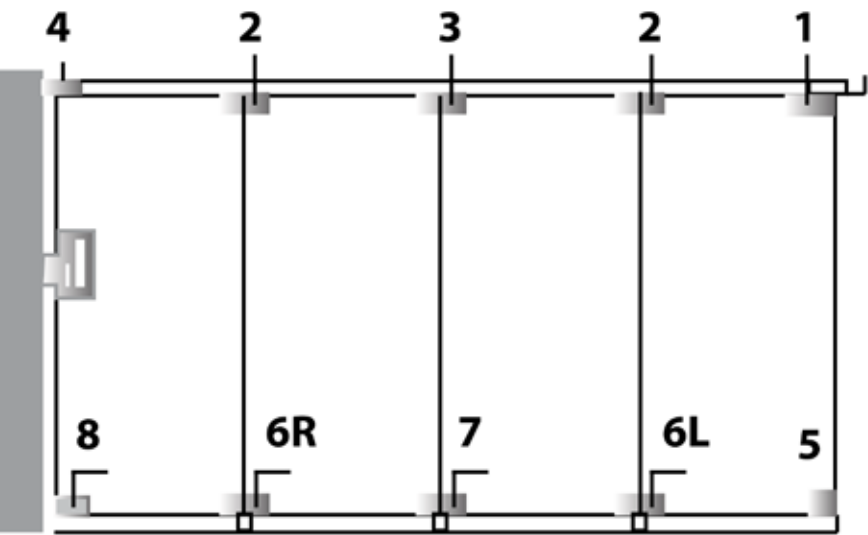


OSF 2004 K





Max Door Leaf Height	2500mm
Max Door Leaf Width	700 mm
Max Door Leaf Load	60 kg



- | | | | | |
|--|--|--|---|---|
| 4 | 2 | 3 | 2 | 1 |
| 8 | 6R | 7 | 6L | 5 |
| Folding door clip equipped with pulley, lower column clip & look catch | Folding door leaf equipped with pulley and bottom bolt | Folding door leaf equipped with pulley and bottom bolt | End door leaf, equipped with upper & lower fixing clips and bottom bolt | |



OFD8100-1



OFD8100-2



OFD8100-3



OFD8100-4



OFD8100-5



OFD8100-6L



OFD8100-6R



OFD8100-7



OFD8100-8



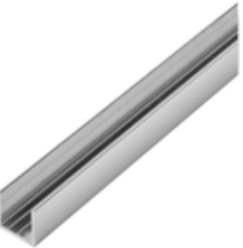
OFD8100-9R



OFD8100-10L



Upper Track



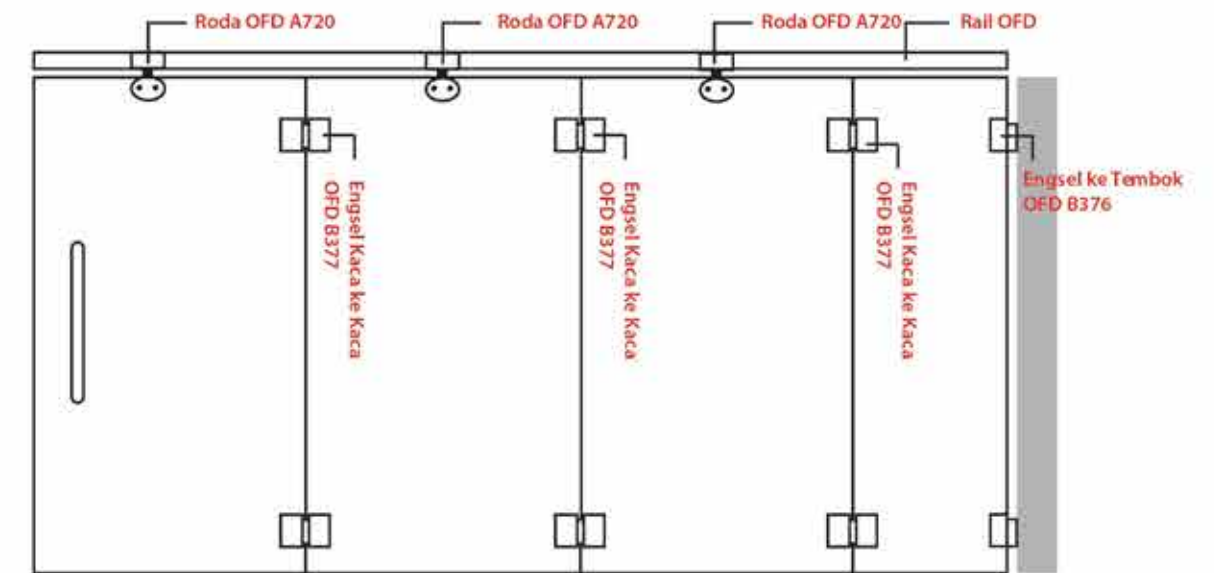
Lower Track



Bracket Folding Door



CCIUS® BI - FOLDING DOOR



Max. door leaf height	2500 mm	2500 mm	2500 mm	2500 mm
Max. door leaf width	700 mm	700 mm	700 mm	—
Max. door leaf load	70 kg	70 kg	70 kg	—



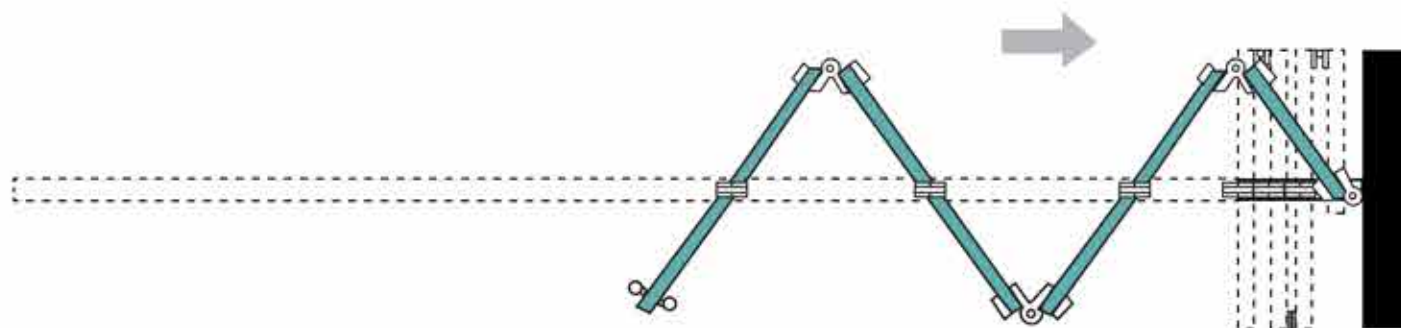
Roda OFD A720
Roda Pintu Lipat



Engsel ke tembok OFD B376
Engsel pintu lipat ke tembok



Engsel ke tembok OFD B377
Engsel pintu lipat ke kaca



Rail OFD
Rail Roda Pintu Lipat



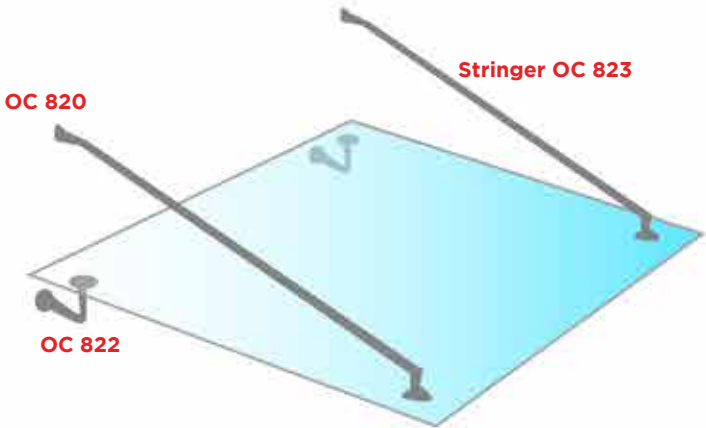
Bracket Atas



Bracket Samping



OC 820



OC 821



OC 821



OC 822



Stringer OC 823

PRODUK SET



OJF 803



OJF 800



OJF 805



CCIOUS®

NON AUTOMATIC SLIDING DOOR

OSD 049

Maksimum beban per sepasang (1 set) roda untuk satu lembar daun pintu adalah 100 kg

Setiap pembelian Non Automatic Sliding Door OSD 049, customer akan mendapatkan satu set barang seperti dibawah ini :



Produk dibawah ini dijual secara terpisah, dan bukan termasuk dalam bagian pembelian satu set Non Automatic Sliding Door OSD 049 :



Railing Sliding Door



Bracket

Maksimum beban per sepasang (1 set) roda untuk satu lembar daun pintu adalah 100 kg

Setiap pembelian Non Automatic Sliding Door OSD 3114, customer akan mendapatkan satu set barang seperti dibawah ini :



Produk dibawah ini dijual secara terpisah, dan bukan termasuk dalam bagian pembelian satu set Non Automatic Sliding Door OSD 3114 :



Railing Sliding Door

Bracket Atas

Bracket Samping

Maksimum beban per sepasang (1 set) roda untuk satu lembar daun pintu adalah 100 kg

Setiap pembelian Non Automatic Sliding Door OSD 330, customer akan mendapatkan satu set barang seperti dibawah ini :



Produk dibawah ini dijual secara terpisah, dan bukan termasuk dalam bagian pembelian satu set Non Automatic Sliding Door OSD 330 :



Railing Sliding Door

Bracket

CCIUS®

SLIDING DOOR SINGLE SCREEN

OSD 054



- 01/ Mendukung berat maksimum 150 kg per pintu. Instalasi pada kaca tempered dengan ketebalan 10mm - 12mm.
- 02/ Sudut pemasangan 180 derajat lurus, dimungkinkan untuk pembagian dua pintu.
- 03/ Panjang maksimum (rail) pipa 4 meter.

CCIUS®

SLIDING DOOR SINGLE SCREEN

OSD 054

Setiap pembelian Sliding Door Single Screen OSD 054, customer akan mendapatkan satu set barang yang terdiri dari :



2 buah
OSA 054-1
Roda 054



4 buah
OSA 054-2*
Bracket pipa ke kaca



4 buah
OSA 054-3*
Bracket pipa ke tembok

*Hanya salah satu saja bracket yang dipilih (ke tembok/ ke kaca)

*Hanya salah satu saja bracket yang dipilih (ke tembok/ ke kaca)



2 buah
OSA 054-4
Door Stoper



1 buah
OSA 054-5
Floor Guide



2 buah
OSA 054-6
Tutup ujung pipa

Produk dibawah ini dijual secara terpisah, dan bukan termasuk dalam bagian pembelian satu set Sliding Door Single Screen OSD 054 :



Round Pipe
Ø 25 mm (1 inch)
ketebalan pipa: 2.2mm



OSDH 274



2 buah
OCT 906B
Ø 25 mm

CCIUS[®]

SLIDING DOOR SINGLE SCREEN

OSD 066



- 01/ Mendukung berat maksimum 150 kg per pintu. Instalasi pada kaca tempered dengan ketebalan 10mm - 12mm.
- 02/ Sudut pemasangan 180 derajat lurus, dimungkinkan untuk pembagian dua pintu.
- 03/ Panjang maksimum (rail) pipa 4 meter.

CCIUS[®]

SLIDING DOOR SINGLE SCREEN

OSD 066

Setiap pembelian Sliding Door Single Screen OSD 066, customer akan mendapatkan satu set barang yang terdiri dari :



2 buah
OSA 066-1
Roda 066



4 buah
OSA 066-2*
Bracket pipa ke kaca

*Hanya salah satu saja bracket yang dipilih (ke tembok/ ke kaca)



4 buah
OSA 066-3*
Bracket pipa ke tembok

*Hanya salah satu saja bracket yang dipilih (ke tembok/ ke kaca)



1 buah
OSA 066-4
Stoper 066 - kiri



1 buah
OSA 066-5
Stoper 066 - Kanan



2 buah
OSA 066-6
Tutup ujung pipa



1 buah
OSA 066-7
Floor Guide

Produk dibawah ini dijual secara terpisah, dan bukan termasuk dalam bagian pembelian satu set Sliding Door Single Screen OSD 066 :



Round Pipe
Ø 25 mm (1 inch)
ketebalan pipa: 2.2mm



OSDH 274



2 buah
OCT 906B
Ø 25 mm

CCIOUS® **SLIDING DOOR SINGLE SCREEN**
OSD 078



- 01/ Mendukung berat maksimum 75 kgs per pintu.
Ukuran maksimum pintu 750 x 2100 mm (lebar x tinggi).
- 02/ Gambar pada diagram, tidak menunjukkan posisi atau jarak lubang pada (rail) hollow untuk pemasangan OSA 078-2. Lubang pada hollow harus disesuaikan dengan posisi lubang pada kaca.
- 03/ Sudut pemasangan adalah 180 derajat. Maksimum lebar kaca per sisi adalah 1.8 meter. Disarankan instalasi pada kaca tempered dengan ketebalan 8mm.

CCIOUS® **SLIDING DOOR SINGLE SCREEN**
OSD 078

Setiap pembelian Sliding Door Single Screen OSD 078, customer akan mendapatkan satu set barang yang terdiri dari :



2 buah
OSA 078-1
Roda 078



2 buah
OSA 078-2
Kancing 078



2 buah
OSA 078-3
Roda kecil 078



2 buah
OSA 078-4 (4 cm)
Bracket Hollow ke tembok



2 buah
OSA 078-5 (4 cm)
Door Stopper 078



1 buah
OSA 078-6
Floor Guide Flexible

Produk dibawah ini dijual secara terpisah, dan bukan termasuk dalam bagian pembelian satu set Sliding Door Single Screen OSD 078 :



Hollow Pipe
4 cm



OSDH 274



1 set / pasang
Magnetic Seal 8mm



- 01/ Mendukung berat maksimum 60 kgs per pintu. Ukuran maksimum pintu 500 x 2100 mm (lebar x tinggi).
- 02/ Gambar pada diagram, tidak menunjukkan posisi atau jarak lubang pada (rail) hollow untuk pemasangan OSA 078-2. Lubang pada hollow harus disesuaikan dengan posisi lubang pada kaca.
- 03/ Sudut pemasangan adalah 90 derajat. Maksimum lebar kaca per sisi adalah 1.2 meter. Disarankan instalasi pada kaca tempered dengan ketebalan 8mm.

Setiap pembelian Sliding Door Corner Screen OSD 078, customer akan mendapatkan satu set barang yang terdiri dari :



4 buah
OSA 078-1
Roda 078



4 buah
OSA 078-2
Kancing 078



4 buah
OSA 078-3
Roda kecil 078



2 buah
OSA 078-4 (3 cm)
Bracket Hollow ke tembok



4 buah
OSA 078-5 (3 cm)
Door Stopper 078



1 buah
OSA 078-6
Hook sudut hollow



2 buah
OSA 069
Floor Guide Flexible

Produk dibawah ini dijual secara terpisah, dan bukan termasuk dalam bagian pembelian satu set Sliding Door Corner Screen OSD 078 :



Hollow Pipe 3 cm



OSDH 134



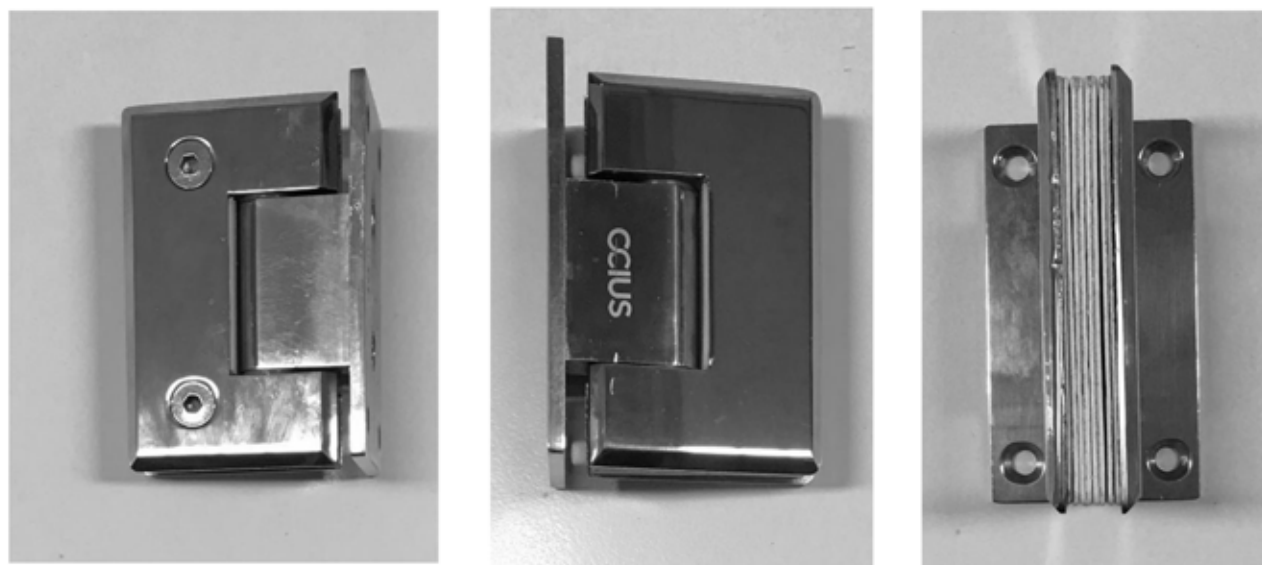
1 set / pasang
Magnetic Seal 8mm



PSB Singapore

SHOWER HINGE

Test Report No. 7191147996-MEC16/02-MHA
dated 20 Oct 2016



Measurement after 60,000 cycles:

S/N	Description	Measurements	Requirements
1	Vertical (distance between datum point and a point on door frame)	150.2mm (Increased by 0.2mm)	-
2	Lateral (distance between datum point and a point on door frame)	150.0mm (no change)	-
2	Limits of allowable wear	Comply (Values are within shaded area of figure G.2.)	Shall comply with requirement of cl. 5.4j of EN 1935
3	Torque require to initiate movement of door at following opening angles: (average of 3 readings)		
	(i) 0°± 5°	1.7 Nm	2.0 Nm(max)
	(ii) 30°± 5°	1.6 Nm	2.0 Nm(max)
	(iii) 60°± 5°	1.8 Nm	2.0 Nm(max)
	(iv) 90°± 5°	1.6 Nm	2.0 Nm(max)

CONCLUSION:

Adopting to BS EN 1935 : 2002, clause 7.5, Building hardware – Single-axis hinges, the results obtained show that the hinge tested **meet with the durability test requirements.**



Laboratory:
TUV SUD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TUV SUD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TUV®



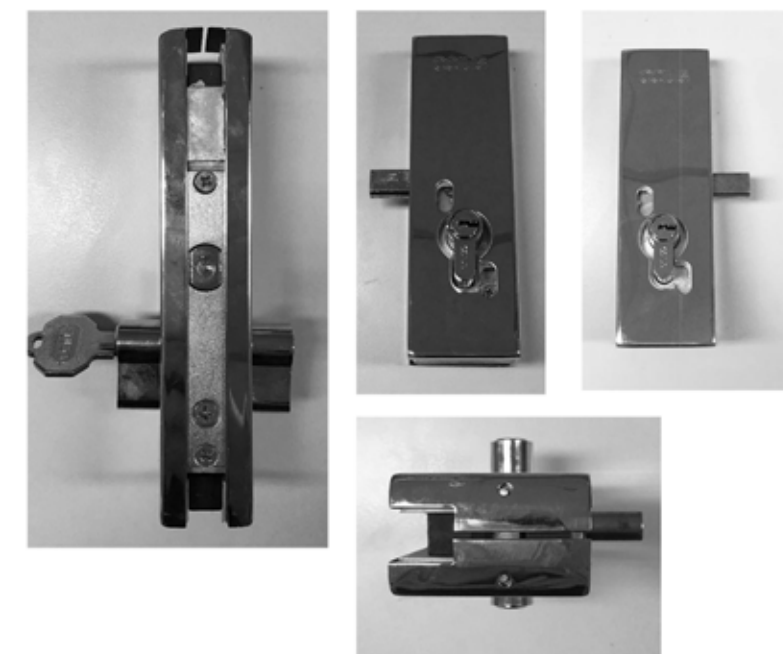
PSB Singapore

PATCH FITTING

Test Report No. 7191152727-MEC16-MHA
dated 15 Dec 2016
(2191053195)

SUBJECT:

Indicative durability test on 'Ocius' OPT 10A stainless steel 304 patch lock submitted by Ocius Hardware.



Descriptions	Sample		Requirements
	A	H	
Durability test on deadbolt	50,000 cycles	50,000 cycles	-
Torque to operate deadbolt after durability test	0.3 Nm	0.3 Nm	Torque shall not exceed: □ M3 via keyhole : 1.5Nm □ M4 via follower : 3Nm
Results (comply/non-compliance): Compy			

CONCLUSION:

Adopting to EN 12209 : 2003, clause 5.3.2, Building hardware – Locks and latches, the results obtained show that the locks tested **meet with the durability of deadbolt mechanism requirements.**



Laboratory:
TUV SUD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TUV SUD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
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PSB Singapore

FLOOR HINGE

Test Report No. 7191147996-MEC16/01-MHA
dated 20 Feb 2017
(2191049303)

SUBJECT:

Cyclic movement endurance test on 'Ocius' OFH 84 EN3 floor spring submitted by Ocius Hardware.

Measurement after 500,000 test cycles

Description	Measurements		Requirements (Size 3)
	Right	Left	
Time taken to close from 90° to fully closed position	4.4 (original value : 4.3sec)	4.3 (original value : 4.3sec)	Shall be less than 2 times or more than 0.7 times the original value. (i.e Right: Between 3.0 and 8.6 sec) (i.e Left: Between 3.0 and 8.6 sec)
Between 0° to 4°	Closing moment	22.6	18 to < 26 Nm
	Opening moment	29.7	-
Between 88° to 92°	Closing moment	13.1	6 Nm minimum
	Opening moment	28.3	-
Min. closing torque at max. opening angle permitted by the closer	Closing moment	17.6	4 Nm minimum
Between 0° to 60°	Opening moment	30.1	47 Nm maximum
Between 0° to 4°	Efficiency	76.1	55% minimum
Closing time from 90°			
Adjustability	2.3	2.3	3 sec. or less
	>20		20 sec. or more
Closing overload test	Yes		Able to withstand
Free play at the zero position	1mm	1mm	6mm maximum



Photo : Floor Hinge OFH 84

Observations throughout test

Description	Measurements	Requirements (Size 3)
Fluid leakage	No leakage	No fluid leakage from door closer.
Damage	No damage	No damage to door closer or its arms that would adversely affect its performance.

CONCLUSION :

According to SS 332: 2007: Annex F:- Clause 5.1 - For mechanical performance and durability, the test results obtained showed that the sample tested meet the requirements and is classified as:.

3	8	3	0	1	0
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Laboratory:
TUV SUD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TUV SUD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
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PSB Singapore

SPIDER FITTING

Test Report No. 7191147996-MEC16/03-SL
dated 29 NOV 2016

SUBJECT:

Load test for Rotule & Spider

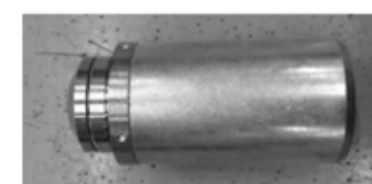


Photo 1 : Rotule

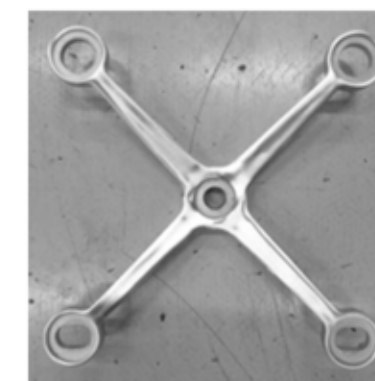


Photo 1 : Spider Fitting

TEST RESULTS:

1. Rotule – Tensile & Shear

Sample reference	Tensile	Shear
Maximum force (kN)	48.9 (4987.8 kgf)	51.9 (5293.8 kgf)
Mode of failure	Stud deformed	Thread damaged

2. Load Test on Spider fitting (Radial & Axial)

Sample reference	Radial	Axial
Maximum force (kN)	6.3 (642.6 kgf)	6.4 (652.8 kgf)
Mode of failure	Spider fixing deform	



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No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
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www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TUV SUD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
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Ocius® adalah sebuah merek dagang architectural hardware dengan fokus bahan dasar Stainless Steel 304. Ocius® menghadirkan solusi perangkat keras yang berkualitas dengan harga terjangkau.