

ARM STRONG

DOOR CLOSER

GLASS FITTING

SHOWER HARDWARE

DOOR HARDWARE









TRAKUL THAI PRODUCTS COMPANY LIMITED

WWW.TRAKULTHAI.CO.TH

Test Report No. S4S076383/DL
dated 4 Dec 2007

Note: This report is issued subject to TÜV SÜD PSB's "Terms and Conditions Governing Technical Services". The terms and conditions governing the issue of this report are set out as attached within this report.

Subject: Durability test (100,000 cycles) of shower hinge.

Tested for: Thaipat Thai Products Co., Ltd.
22/271 Soi Petchkasem 85, Nongkangplu,
Nongkhaem, Bangkok Thailand 10160
Attn: Mr. Pichai Wongveerapaiboon

Sample Description: 2 samples of shower hinges described as follows, were submitted on 25 Sep 2007:
Brand name: ARMSTRONG
Model no: A8-2111
Material: Solid brass
Finishing: Bright chrome plated

Technical Details: 1) Suitable for 8 mm to10 mm thick glass panels
2) Door weight 45 kg maximum

Method of test: Adopted from BS EN 1935: 2002
Building hardware – single axis hinges – Requirements and test methods
Clause 5.4 (Requirements) and Clause 7.5 (test method)

Drawing submitted: 1 sheet of company's detail drawing & 1 sheet of company's shower hinge brochure

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Test Sequence:

Clause 7.5 – Durability test (100,000 cycles)

1) At 20 and 100,000 cycles - measure and record the torque required to initiate movement of the hinged leaf at operating angles of 0 ±5°, 30 ±5°,60 ± 5° and 90° ±5°.

2) At 20 and 100,000 cycles - measure and record the initial horizontal and vertical gaps between the hinged element and the datum surfaces.

Test Results:

Date of test: 20 Nov 2007
Door width: 800 mm
Door weight: 45 kg
Glass door thickness: 10 mm

The door used was design according to client's details as given.

1) Torque to initiate movement of the hinged leaf

Door opening	Torque measurement (Nm)	
	Initial of 20 cycles	After 100,000 cycles
0 ±5°	2.4	0.8
30 ±5°	4.6	0.8
60 ±5°	2.4	1.6
90 ±5°	2.4	1.6

2) Measurement of horizontal and vertical gaps

	Test specimen model: A8-2111				
	Initial at 20 cycles (mm)	After 100,000 cycles (mm)	Wear measurement (mm)	Results	BS EN 1935: 2002 Clause 5.4 (Requirements)
Horizontal gap	118.37	119.51	0.14	Passed	The amounts of lateral and vertical wear of the hinge tested measured as displacements of the datum surfaces shall be within the shaded area as shown in Figure G.2
Vertical gap	129.78	129.66	0.11		

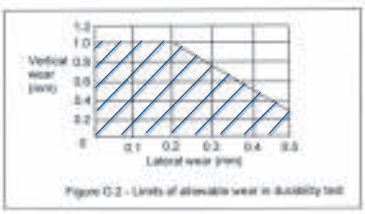


Figure G.2 - Limits of allowable wear in durability test

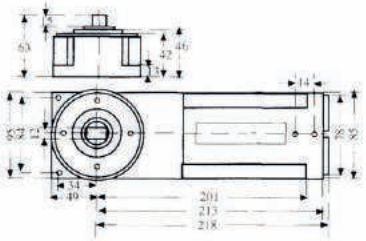


ASS 34
: SQUARE SPINDLE

AS 34

โช้คฝังพื้น
ARM STRONG FLOOR DOOR CLOSER

DOOR SIZE(mm.)	SPRING TENSION	CLOSING FORCE IN (Nm)
UP TO 800	LIGHT	MODEL 15
UP TO 1000	MEDIUM	MODEL 20
UP TO 1200	HEAVY	MODEL 25

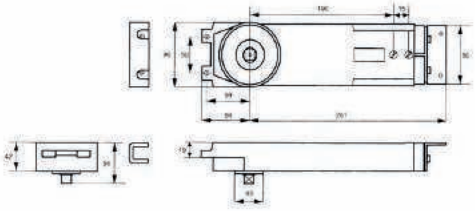




AS 35

โช้คบนฝังใน/ซ่อนในวงกบ
ARM STRONG OVERHEAD CONCEALED

DOOR SIZE(mm.)	SPRING TENSION	CLOSING FORCE IN (Nm)
UP TO 800	LIGHT	MODEL 10
UP TO 1000	MEDIUM	MODEL 15
UP TO 1200	HEAVY	MODEL 20

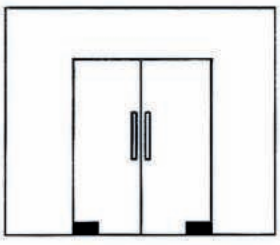


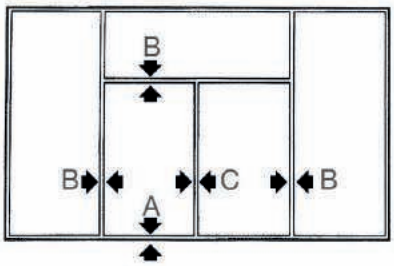


AS 36

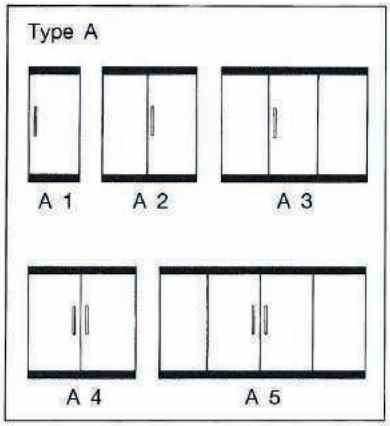
โช้คล่างชนิดซ่อนในฟิตติ้ง
FLOOR DOOR CLOSER FITTING

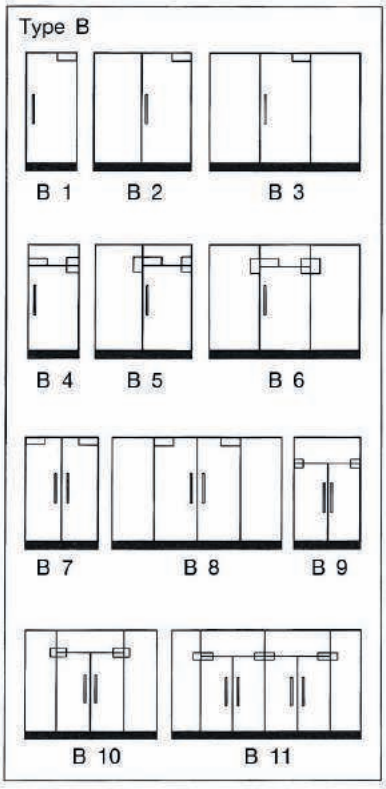
DOOR SIZE(mm.)	SPRING TENSION	CLOSING FORCE IN (Nm)
1000	MEDIUM	MODEL 20

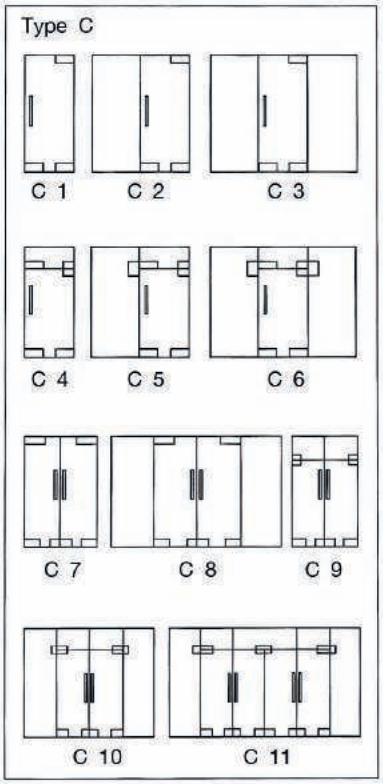




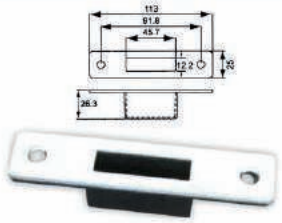
Dimensions : B 2 - 4 mm.
: A 7 -10 mm.
: C 3 - 5 mm.



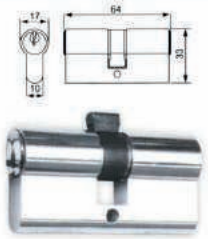




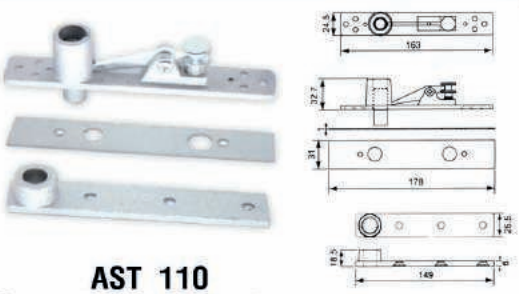
อุปกรณ์ต่างๆ สำหรับการติดตั้งกระจก ACCESSORIES FOR GLASS FITTING



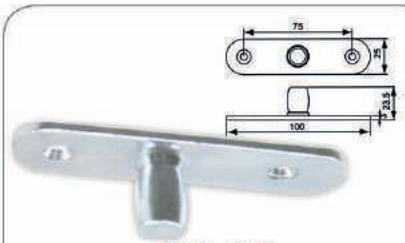
AST 040
Lock Keeper plate stainless steel with brass floor plug



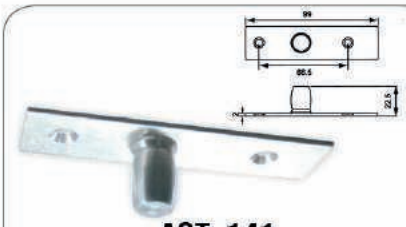
AST 050
Profile cylinder



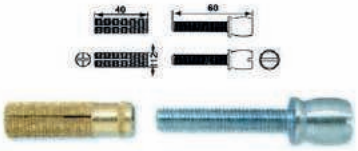
AST 110
Top centre with 15 mm. pivot



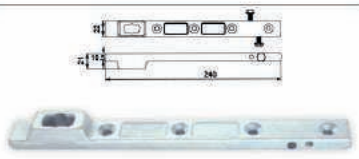
AST 140
Fixing plate with pivot



AST 141
Pivot with stainless steel fixing plate



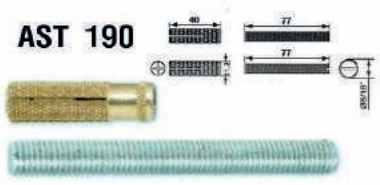
AST 150
Pivot with including brass wall plug



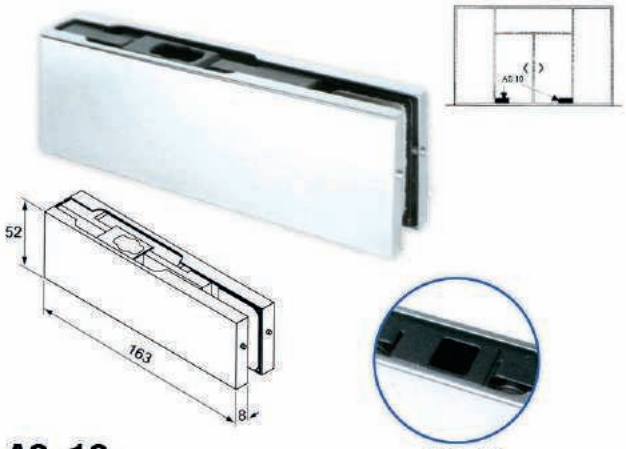
AST 170
Arm for floor hinge



AST 180
Floor pivot bearing with flat tapered spindle

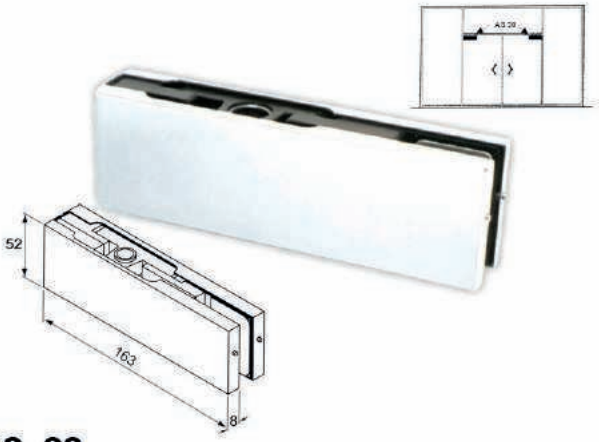


AST 190
Threaded rod zinc plated with solid brass wall plug

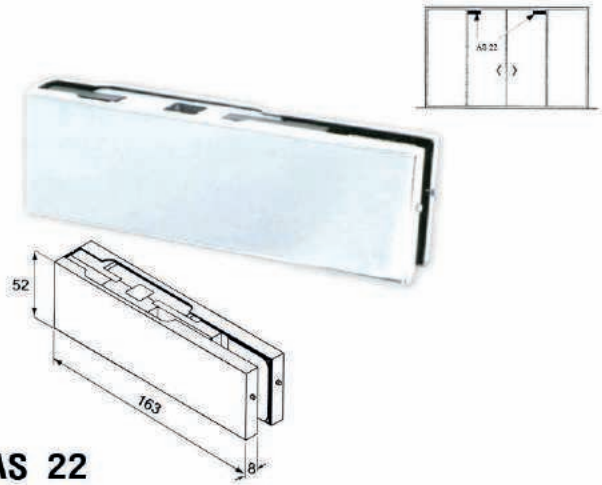


ASS 10

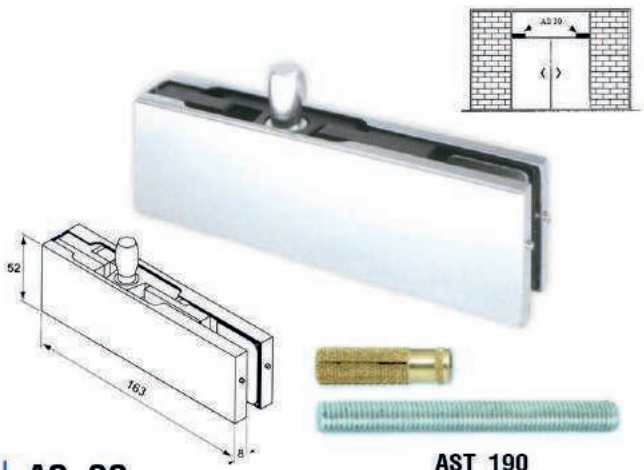
AS 10
ตัวหนีบล่าง Bottom patch fitting



AS 20
ตัวหนีบบน Top patch fitting

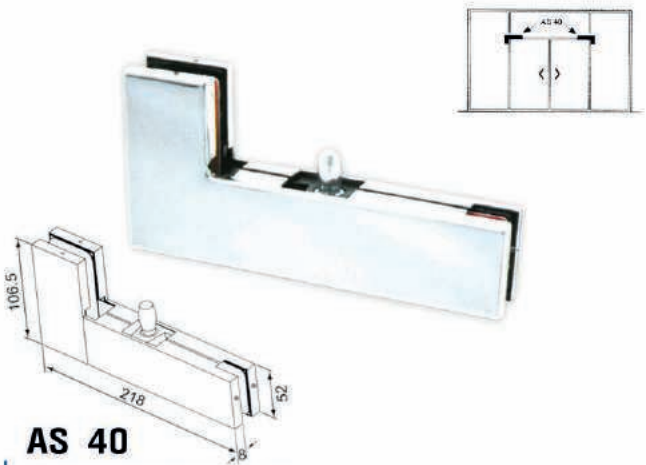


AS 22
ตัวหนีบโช้คบน Top patch fitting for overhead door closer

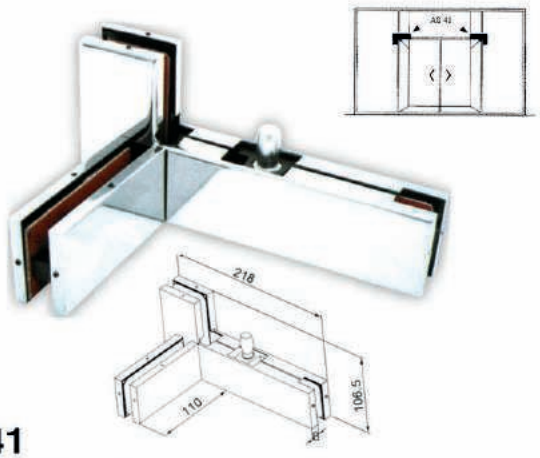


AST 190

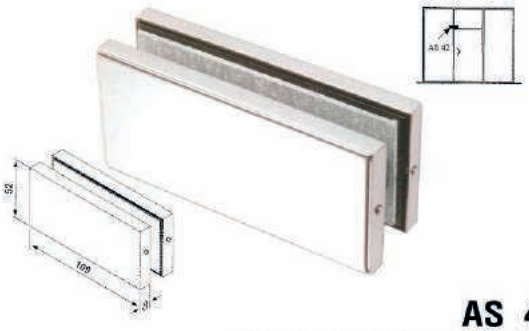
AS 30
ตัวหนีบช่องแสงบน Over-panel fitting with pivot



AS 40
ตัวหนีบช่องแสงบนและข้าง
Side panel to over-panel fitting with pivot



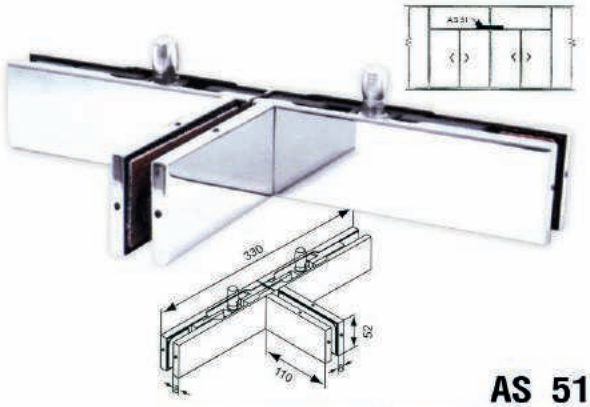
AS 41
ตัวหนีบช่องแสงบนและข้างมีครีบ
Side panel to over-panel fitting with fin fitting included



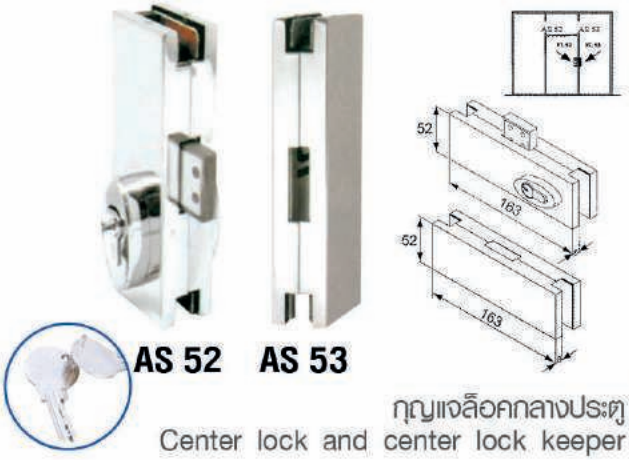
AS 42
ตัวหนีบช่องแสงบนและข้างเล็ก
Small connection fitting



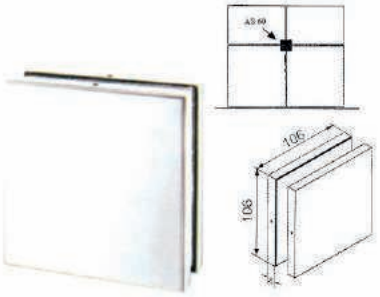
AS 50
กุญแจล็อคประตูกับพื้น
Patch lock with cylinder and escutcheon
for profile cylinder and masterkey available



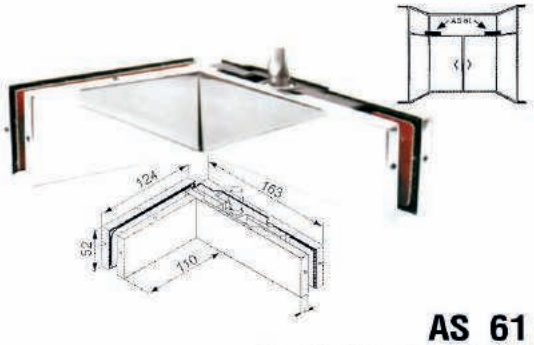
AS 51
ตัวหนีบช่องแสงบนคู่ มีครีบ Fin fitting
for back-to-back doors complete with pivot



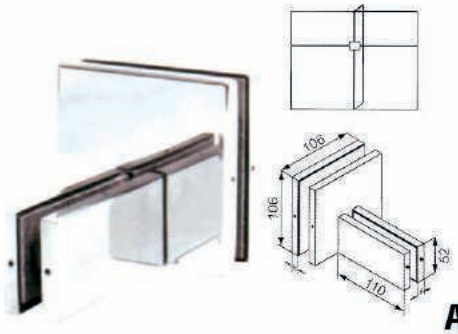
AS 52 **AS 53**
กุญแจล็อคกลางประตู
Center lock and center lock keeper



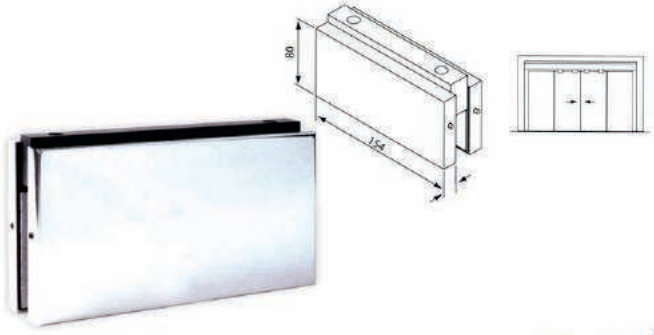
AS 60
ตัวหนีบกระจก 4 มุม Connection fitting



AS 61
ตัวหนีบช่องแสงบนหักมุม
Angle over panel fitting with pivot



AS 62
ตัวหนีบกระจก 4 มุม (มีครีบ)
Connection fitting with fin fitting included

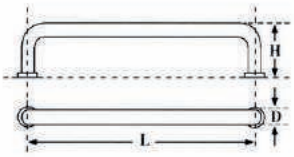


AS 63
ตัวหนีบบานเลื่อน Sliding fitting



Size/mm.

Art No.	L	D	H
2101	305	25	75
2102	350	25	75
2103	305	32	90
2104	350	32	90
2105	450	38	115
2108	450	32	90
2109	600	32	90
2110	600	38	115

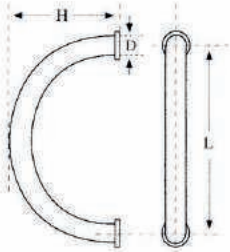


AS 101



Size/mm.

Art No.	L	D	H
2201	130	25	73
2202	200	25	118
2203	200	32	120

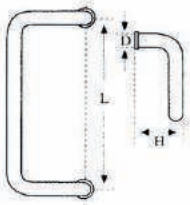


AS 102



Size/mm.

Art No.	L	D	H
2301	305	25	75
2302	305	32	90
2303	350	25	75
2304	350	32	90

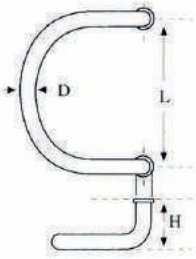


AS 103



Size/mm.

Art No.	L	D	H
2401	200	25	75
2402	200	32	90
2403	305	32	90
2404	350	32	90

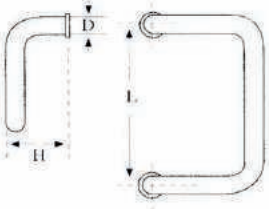


AS 104



Size/mm.

Art No.	L	D	H
2501	200	25	75

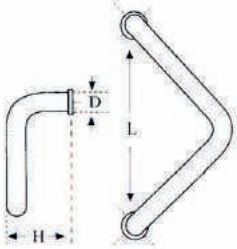


AS 105



Size/mm.

Art No.	L	D	H
2601	318	25	75
2602	318	32	90

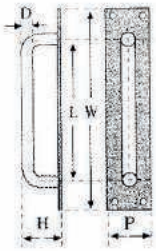


AS 106



Size/mm.

Art No.	L	W	H	D	P
2701	203	152	63	19	50
2702	280	203	63	19	50
2703	311	254	63	19	50

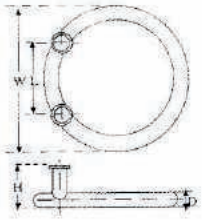


AS 107



Size/mm.

Art No.	L	D	H	W
2801	100	25	75	225
2802	100	32	82	232

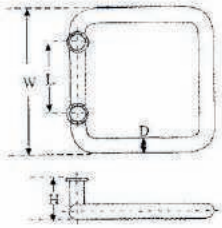


AS 108



Size/mm.

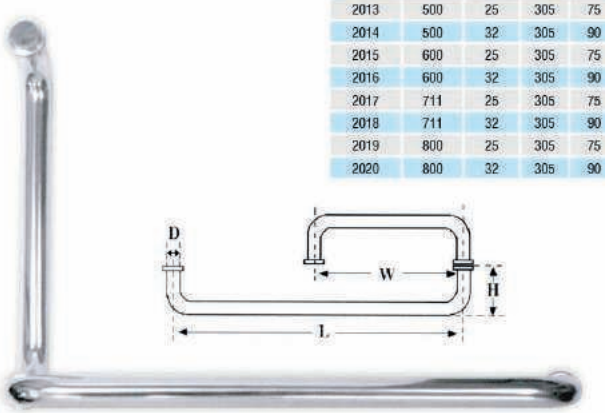
Art No.	L	D	H	W
2901	100	25	75	225



AS 109

Size/mm.

Art No.	L	D	W	H
2011	450	25	305	75
2012	450	32	305	90
2013	500	25	305	75
2014	500	32	305	90
2015	600	25	305	75
2016	600	32	305	90
2017	711	25	305	75
2018	711	32	305	90
2019	800	25	305	75
2020	800	32	305	90

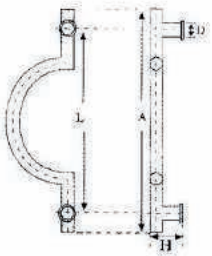


AS 110



Size/mm.

Art No.	L	D	A	H
2111	450	25	550	75
2112	450	32	550	90

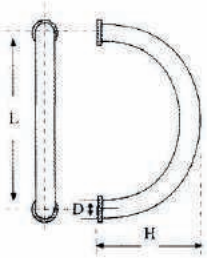


AS 111



Size/mm.

Art No.	L	D	H
2211	130	25	73
2212	200	25	118
2213	200	32	120

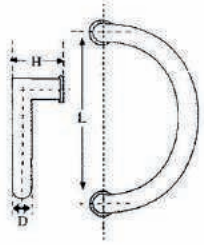


AS 112



Size/mm.

Art No.	L	D	H
2311	200	25	75
2312	305	25	75
2313	305	32	82
2314	350	32	82

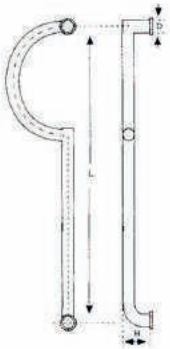


AS 113



Size/mm.

Art No.	L	D	H
2411	600	25	75
2412	600	32	82

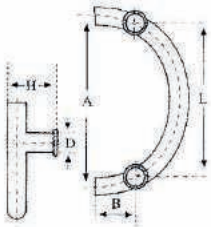


AS 114

Size/mm.

Art No.	L	D	A	H	B
2611	140	25	200	70	75
2612	225	25	305	70	75
2613	225	32	305	80	82
2614	292	32	350	80	82



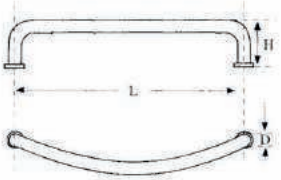


AS 116



Size/mm.

Art No.	L	D	H
2711	305	25	75
2712	350	25	75
2713	350	32	90
2714	425	25	75
2715	425	32	90
2716	450	25	75
2717	450	32	90
2718	600	32	90

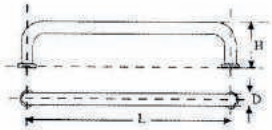


AS 117



Size/mm.

Art No.	L	D	H
2811	305	25	75
2812	350	25	75
2813	305	32	90
2814	350	32	90
2815	450	38	115
2816	450	50	120
2817	600	63	130

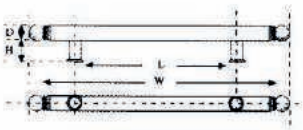


AS 118



Size/mm.

Art No.	L	D	W	H
2021	305	32	450	45
2022	350	38	600	45
2023	350	50	600	45

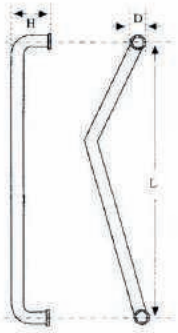


AS 120



Size/mm.

Art No.	L	D	H
2121	485	25	75
2122	485	32	90

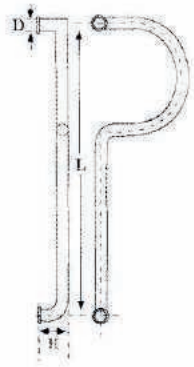


AS 121



Size/mm.

Art No.	L	D	H
2221	450	25	75
2222	450	32	90



AS 122



Size/mm.

Art No.	L	D	H
2321	450	25	75
2322	450	32	90

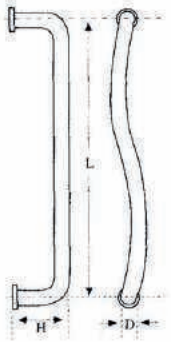


AS 123



Size/mm.

Art No.	L	D	H
2421	450	25	75
2422	450	32	90

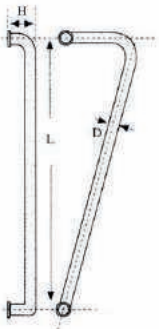


AS 124



Size/mm.

Art No.	L	D	H
2521	600	25	75
2522	600	32	90

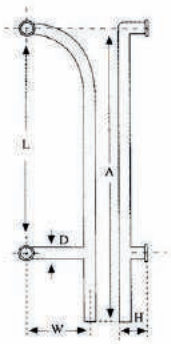


AS 125



Size/mm.

Art No.	L	D	H	W	A
2621	450	25	75	124	600
2622	450	32	90	124	600

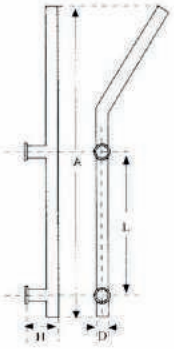


AS 126

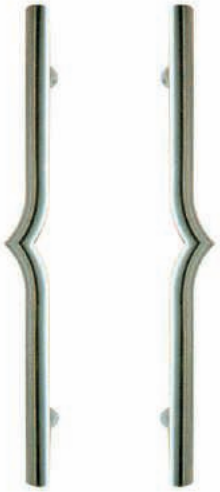


Size/mm.

Art No.	L	D	H	A
2721	305	25	75	550
2722	305	32	82	550

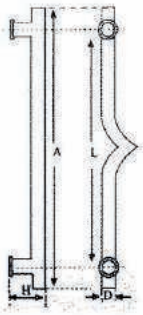


AS 127

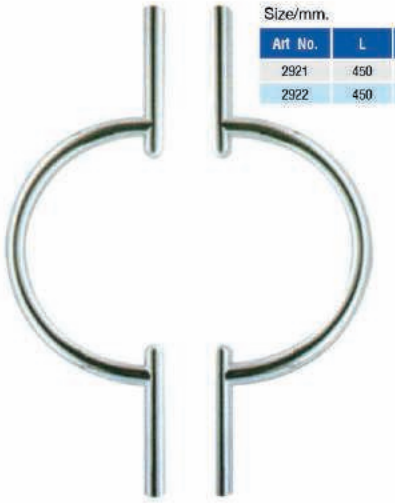


Size/mm.

Art No.	L	D	A	H
2821	450	25	600	75
2822	450	32	600	82

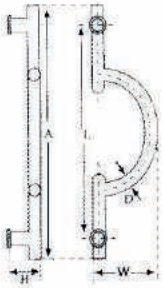


AS 128

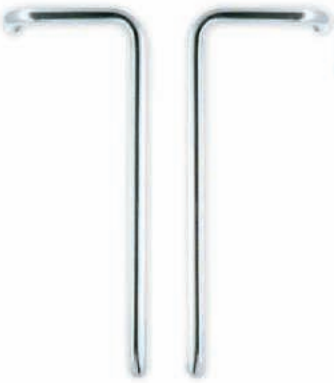


Size/mm.

Art No.	L	D	H	A	W
2921	450	25	75	600	210
2922	450	32	82	600	210



AS 129



Size/mm.

Art No.	L	D	H	W
2231	450	25	70	210
2232	600	25	70	210
2233	800	32	80	210
2234	1000	32	80	210



AS 132



Size/mm.

Art No.	L	D	H
2431	450	25	80
2432	450	32	80

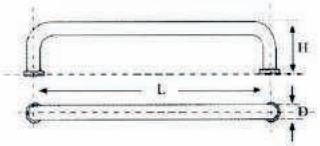


AS 134



Size/mm.

Art No.	L	D	H
2631	305	25	90
2632	350	25	90
2633	305	32	90
2634	350	32	90
2635	450	38	95

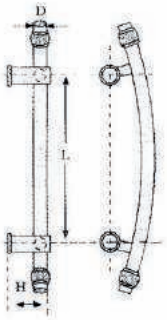


AS 136



Size/mm.

Art No.	L	D	H
2731	200	25	90
2732	305	32	90

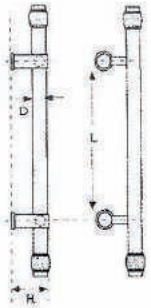


AS 137



Size/mm.

Art No.	L	D	H
2831	200	25	90
2832	305	32	90
2833	350	38	90

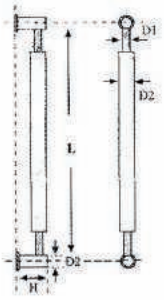


AS 138



Size/mm.

Art No.	L	D1	D2	H
2931	350	20	32	90
2932	450	20	32	90
2933	600	20	32	90

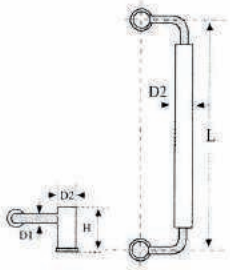


AS 139



Size/mm.

Art No.	L	D1	D2	H
2041	350	20	32	90
2042	450	20	32	90
2043	600	20	32	90

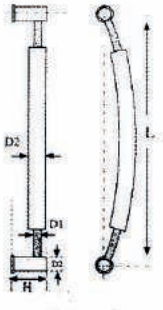


AS 140



Size/mm.

Art No.	L	D1	D2	H
2141	350	20	32	90
2142	450	20	32	90
2143	600	20	32	90



AS 141



Size/mm.

Art No.	L1	L2	D	H
2241	305	450	25	45
2242	450	600	25	45
2243	305	450	32	45
2244	450	600	32	45
2245	600	800	32	45
2246	800	1000	32	45



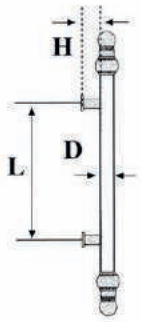


AS 142



Size/mm.

Art No.	L	D	H
2741	450	32	45
2742	600	32	45
2743	800	38	45
2744	1000	38	45

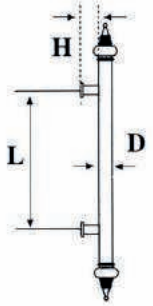


AS 147



Size/mm.

Art No.	L	D	H
2841	450	38	45
2842	600	38	45
2843	800	50	45
2844	1000	50	45

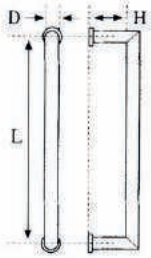


AS 148



Size/mm.

Art No.	L	D	H
2941	305	25	45
2942	350	25	45
2943	305	32	45
2944	350	32	45
2945	450	32	45
2946	450	38	45
2947	600	32	45
2948	600	38	45

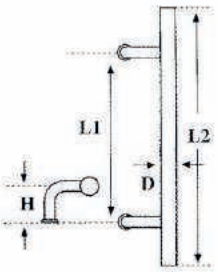


AS 149



Size/mm.

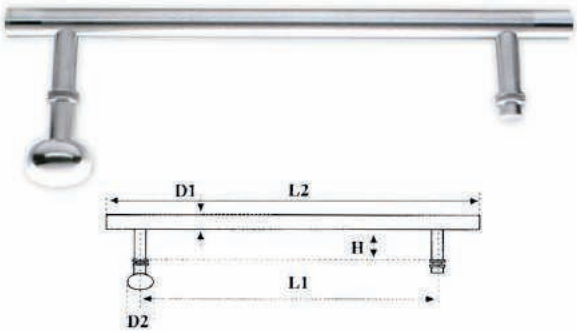
Art No.	L1	L2	D	H
2051	305	450	25	45
2052	450	600	25	45
2053	305	450	32	45
2054	450	600	32	45
2055	600	800	32	45
2056	800	1000	32	45



AS 150

Size/mm.

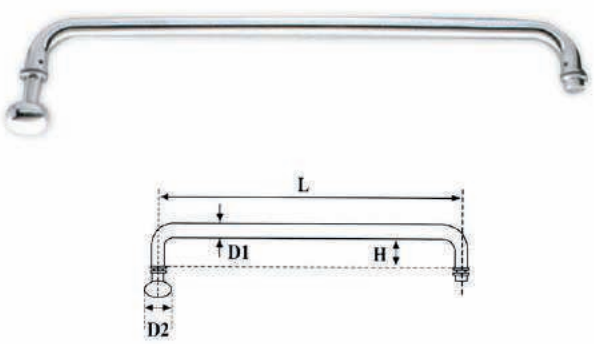
Art No.	L1	L2	D1	D2	H
2151	450	550	25	50	45



AS 151

Size/mm.

Art No.	L	D1	D2	H
2251	450	25	50	45

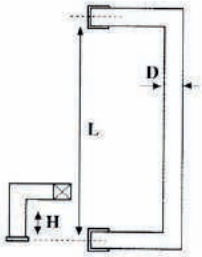


AS 152



Size/mm.

Art No.	L	D	H
2351	305	25x25	45
2352	305	32x32	45
2353	350	25x25	45
2354	350	32x32	45

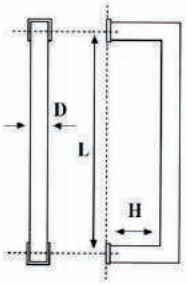


AS 153



Size/mm.

Art No.	L	D	H
2451	305	25x25	45
2452	305	32x32	45
2453	350	25x25	45
2454	350	32x32	45
2455	450	25x25	45
2456	450	32x32	45

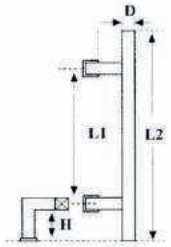


AS 154



Size/mm.

Art No.	L1	L2	D	H
2551	305	450	25x25	45
2552	350	500	25x25	45
2553	305	450	32x32	45
2554	350	500	32x32	45
2555	450	600	32x32	45
2556	600	800	32x32	45
2557	800	1000	32x32	45

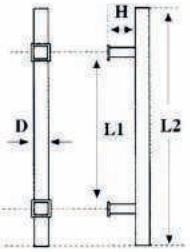


AS 155



Size/mm.

Art No.	L1	L2	D	H
2651	305	450	25x25	45
2652	350	500	25x25	45
2653	305	450	32x32	45
2654	350	500	32x32	45
2655	450	600	32x32	45
2656	600	800	32x32	45
2657	800	1000	32x32	45

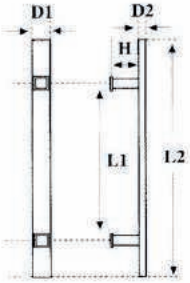


AS 156



Size/mm.

Art No.	L1	L2	D1	D2	H
2751	305	450	40	20	45
2752	350	500	40	20	45
2753	450	600	40	20	45
2754	600	800	40	20	45
2755	800	1000	40	20	45

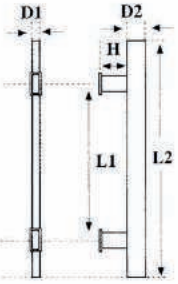


AS 157



Size/mm.

Art No.	L1	L2	D1	D2	H
2851	305	450	20	40	45
2852	350	500	20	40	45
2853	450	600	20	40	45
2854	600	800	20	40	45
2855	800	1000	20	40	45

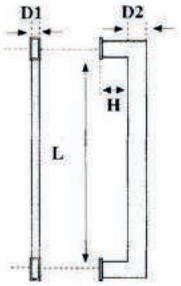


AS 158



Size/mm.

Art No.	L	D1	D2	H
2951	305	20	40	45
2952	350	20	40	45
2953	450	20	40	45
2954	600	20	40	45
2955	800	20	40	45

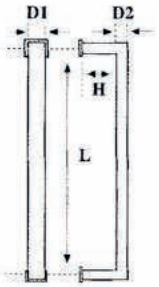


AS 159

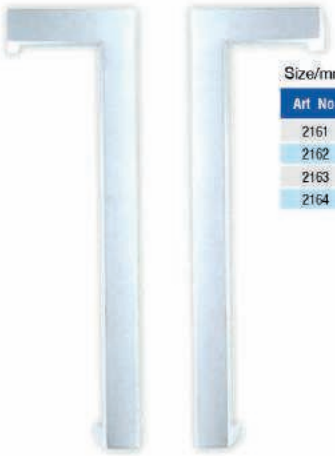


Size/mm.

Art No.	L	D1	D2	H
2061	305	40	20	45
2062	350	40	20	45
2063	450	40	20	45
2064	600	40	20	45
2065	800	40	20	45

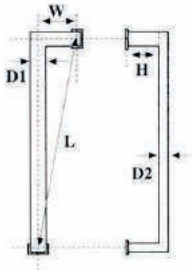


AS 160



Size/mm.

Art No.	L	D1	D2	H	W
2161	450	40	20	45	210
2162	600	40	20	45	210
2163	800	40	20	45	210
2164	1000	40	20	45	210

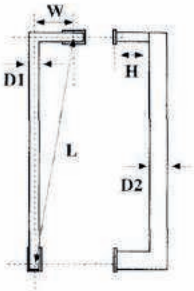


AS 161



Size/mm.

Art No.	L	D1	D2	H	W
2261	450	20	40	45	210
2262	600	20	40	45	210
2263	800	20	40	45	210
2264	1000	20	40	45	210

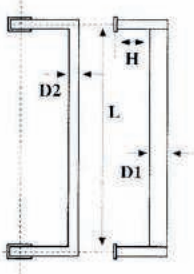


AS 162



Size/mm.

Art No.	L	D1	D2	H
2361	305	40	20	45
2362	350	40	20	45
2363	450	40	20	45
2364	600	40	20	45
2365	800	40	20	45

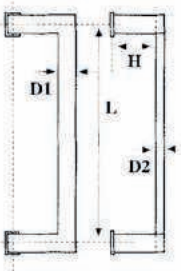


AS 163

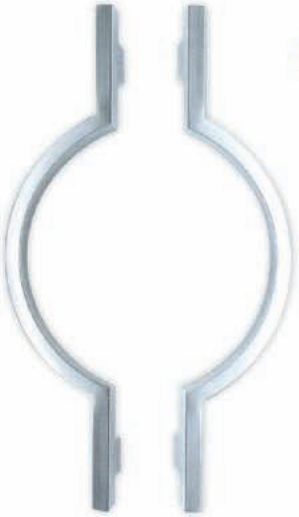


Size/mm.

Art No.	L	D1	D2	H
2461	305	40	20	45
2462	350	40	20	45
2463	450	40	20	45
2464	600	40	20	45
2465	800	40	20	45

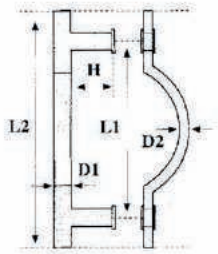


AS 164



Size/mm.

Art No.	L1	L2	D1	D2	H
2561	450	550	40	20	45

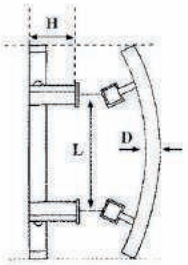


AS 165



Size/mm.

Art No.	L	D	H
2661	305	32x32	80

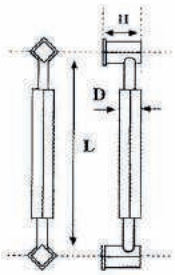


AS 166

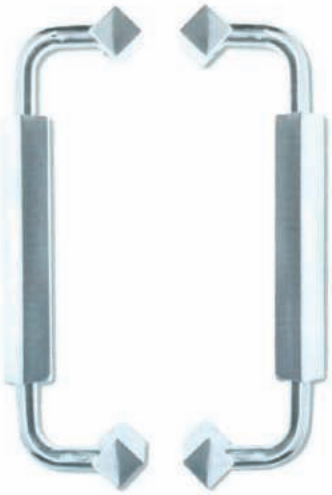


Size/mm.

Art No.	L	D	H
2761	350	32x32	80
2762	450	32x32	80
2763	600	32x32	80

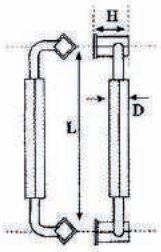


AS 167



Size/mm.

Art No.	L	D	H
2861	350	32x32	80
2862	450	32x32	80
2863	600	32x32	80

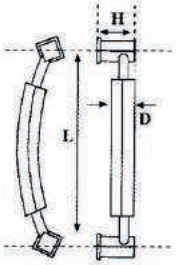


AS 168



Size/mm.

Art No.	L	D	H
2961	350	32x32	80
2962	450	32x32	80
2963	600	32x32	80

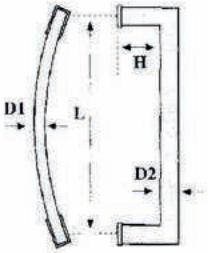


AS 169



Size/mm.

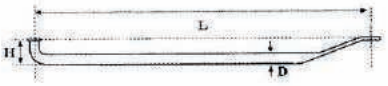
Art No.	L	D1	D2	H
2171	350	20	40	45
2172	450	20	40	45
2173	600	20	40	45



AS 171

Size/mm.

Art No.	L	D	H
2271	900	32	75
2272	1000	32	90





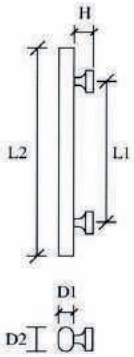
AS 172

Size/mm.

Art No.	L1	L2	D1	D2	H
2371	400	600	25	36	45
2372	600	800	25	36	45
2373	800	1000	25	36	45
2374	1000	1200	25	36	45



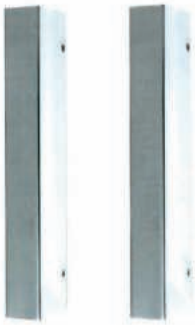




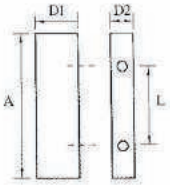
AS 173

Size/mm.

Art No.	L	A	D1	D2
2471	200	300	40	20
2472	150	200	40	20
2473	200	300	50	25
2474	150	200	50	25







AS 174



Size/mm.

Art No.	L	D	H	A
2671	305	25	85	450
2672	450	25	85	600
2673	600	25	85	800
2674	800	25	85	1000

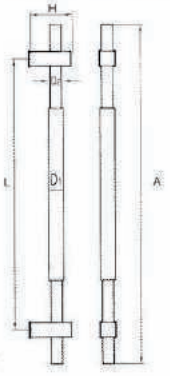


AS 176



Size/mm.

Art No.	L	D1	D2	H	A
2771	305	32	25	85	450
2772	450	32	25	85	600
2773	600	32	25	85	800
2774	800	32	25	85	1000



AS 177



Size/mm.

Art No.	L	D1	D2	H
2871	350	32x32	25	85
2872	450	32x32	25	85
2873	600	32x32	25	85

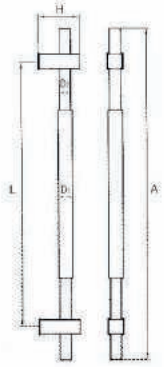


AS 178



Size/mm.

Art No.	L	D1	D2	H	A
2971	305	32x32	25	85	450
2972	450	32x32	25	85	600
2973	600	32x32	25	85	800
2974	800	32x32	25	85	1000

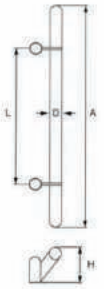


AS 179



Size/mm.

Art No.	L	D	H	A
2081	305	32	85	450
2082	450	32	85	600
2083	600	32	85	800
2084	800	32	85	1000

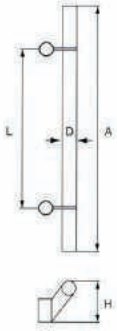


AS 180



Size/mm.

Art No.	L	D	H	A
2181	305	32	85	450
2182	450	32	85	600
2183	600	32	85	800
2184	800	32	85	1000

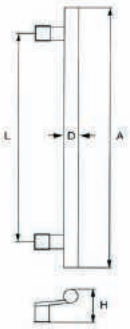


AS 181



Size/mm.

Art No.	L	D	H	A
2281	305	32	85	450
2282	450	32	85	600
2283	600	32	85	800
2284	800	32	85	1000

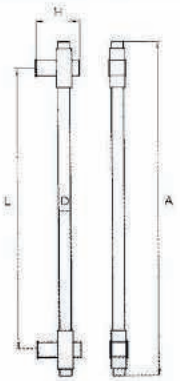


AS 182



Size/mm.

Art No.	L	D	H	A
2381	305	25	85	450
2382	450	25	85	600
2383	600	25	85	800
2384	800	25	85	1000



AS 183

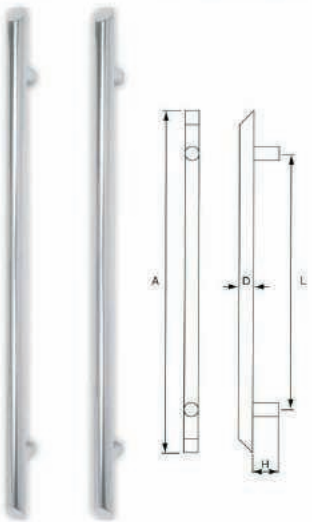


Size/mm.

Art No.	L	D	H	A
2481	450	32	75	800
2482	600	32	75	1000
2483	800	32	75	1200



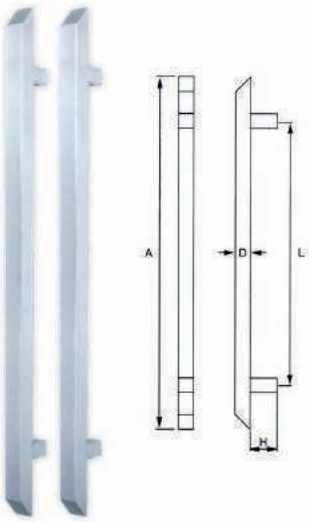
AS 184



Size/mm.

Art No.	L	D	H	A
2581	305	25	45	450
2582	450	25	45	600
2583	305	32	45	450
2584	450	32	45	600
2585	600	32	45	800
2586	800	32	45	1000

AS 185



Size/mm.

Art No.	L	D	H	A
2681	305	32x32	45	450
2682	450	32x32	45	600
2683	600	32x32	45	800
2684	800	32x32	45	1000

AS 186



Size/mm.

Art No.	L	D1	D2	H
2781	305	40	20	45
2782	350	40	20	45
2783	450	40	20	45
2784	600	40	20	45

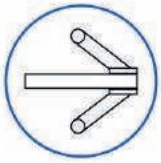


AS 187



Size/mm.

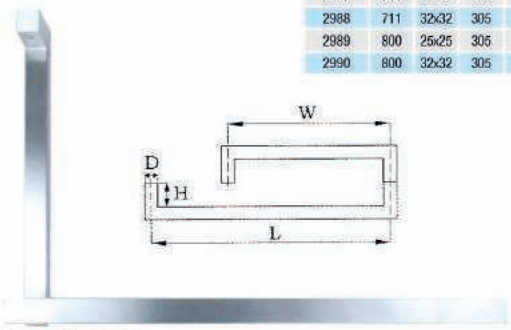
Art No.	L1	L2	D	H
2881	305	450	32	45
2882	450	600	32	45
2883	600	800	32	45
2884	800	1000	32	45
2885	450	600	38	45
2886	600	800	38	45
2887	800	1000	38	45



AS 188

Size/mm.

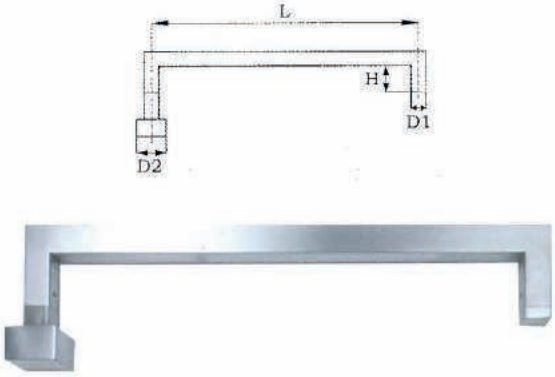
Art No.	L	D	W	H
2981	450	25x25	305	45
2982	450	32x32	305	45
2983	500	25x25	305	45
2984	500	32x32	305	45
2985	600	25x25	305	45
2986	600	32x32	305	45
2987	711	25x25	305	45
2988	711	32x32	305	45
2989	800	25x25	305	45
2990	800	32x32	305	45



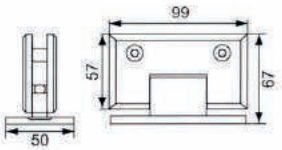
AS 189

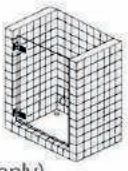
Size/mm.

Art No.	L	D1	D2	H
3000	450	25x25	50x50	45

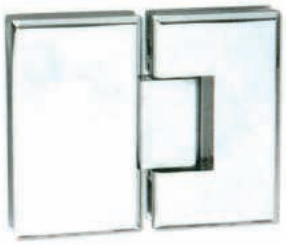
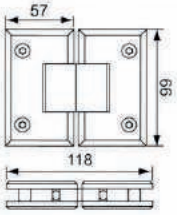


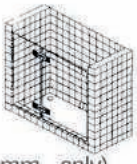
AS 190

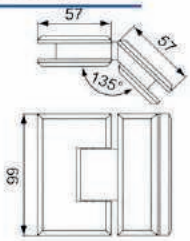


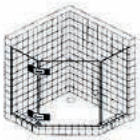
AS 303
Single hinge (Wall/Glass)
for shower doors or light doors. (8-10 mm. only)

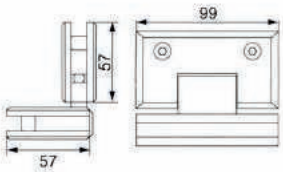


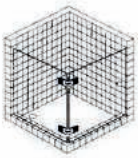
AS 304 (180°)
Double hinges (Glass/Glass)
for shower doors or light doors. (8-10 mm. only)

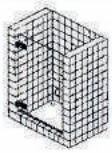


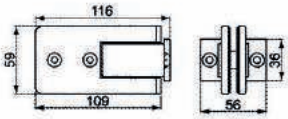
AS 3041 (135°)
Double hinges (Glass/Glass)
for shower doors or light doors. (8-10 mm. only)

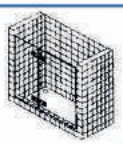


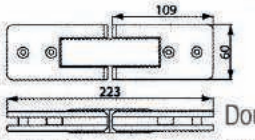
AS 3049 (90°)
Double hinges (Glass/Glass)
for shower doors or light doors. (8-10 mm. only)



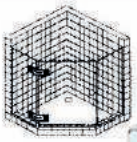


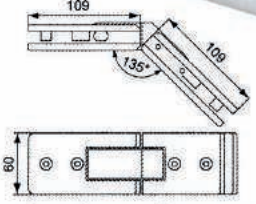
AS 309
Single hinge (Wall/Glass)
for shower doors or light doors. (8-10 mm. only)



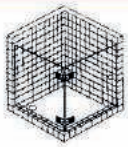
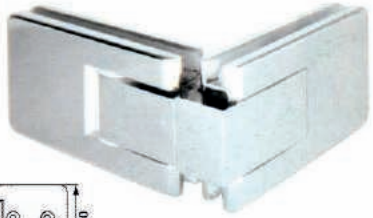
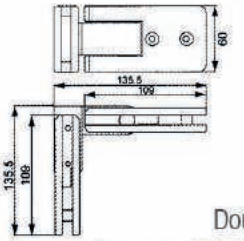


AS 310 (180°)
Double hinges (Glass/Glass)
for shower doors or light doors. (8-10 mm. only)

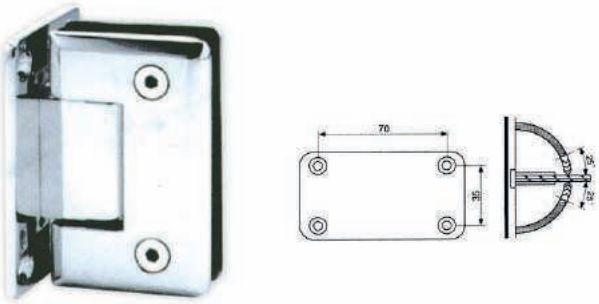




AS 3101 (135°)
Double hinges (Glass/Glass)
for shower doors or light doors. (8-10 mm. only)

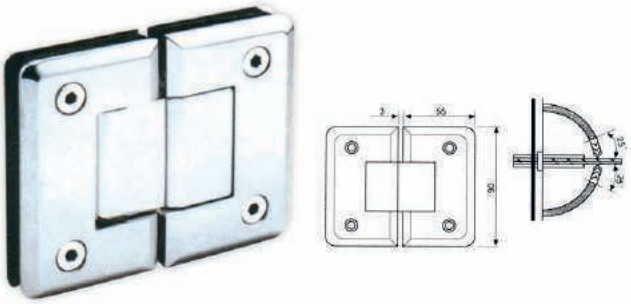




AS 3109 (90°)
Double hinges (Glass/Glass)
for shower doors or light doors. (8-10 mm. only)



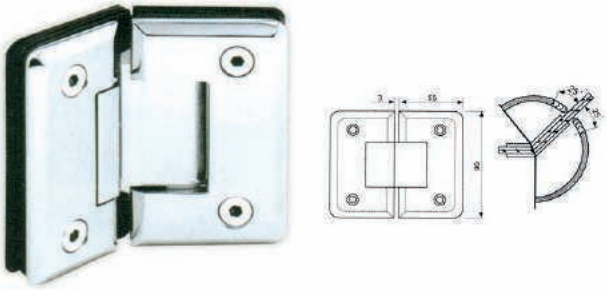
AS 303 A

Double action spring return door from 25°
in each direction



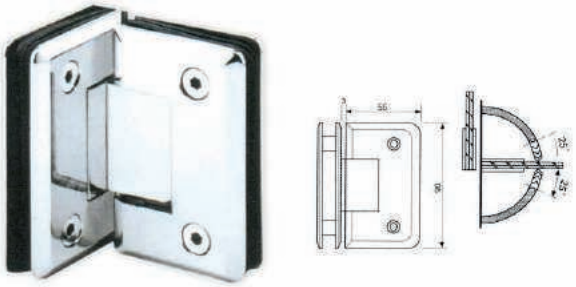
AS 304 A (180°)

Double action spring return door from 25°
in each direction



AS 3041 A (135°)

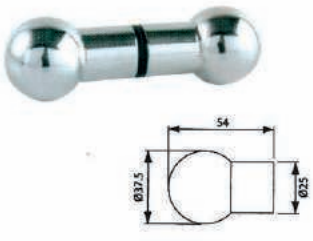
Double action spring return door from 25°
in each direction



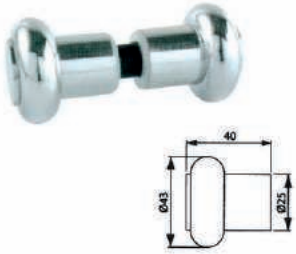
AS 3049 A (90°)

Double action spring return door from 25°
in each direction

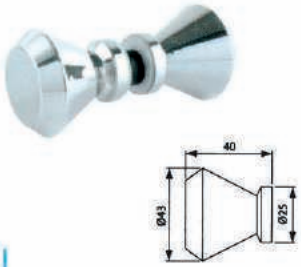
ปุ่มจับประตูกระจกห้องน้ำ | GLASS DOOR KNOBS



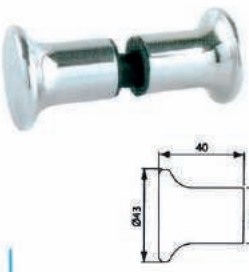
AK-1



AK-2



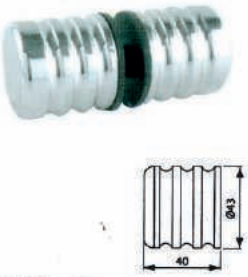
AK-3



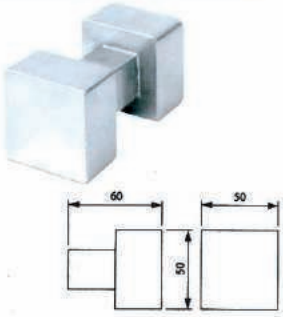
AK-4



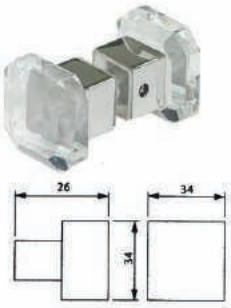
AK-5



AK-6



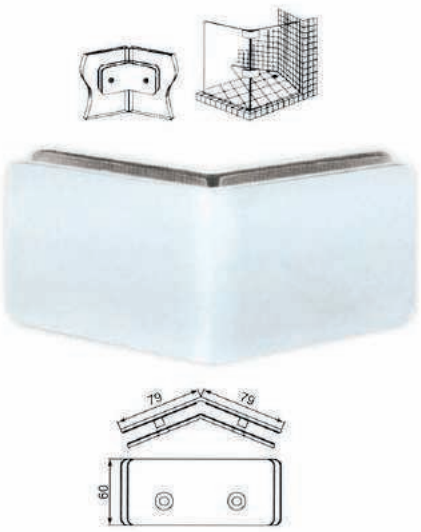
AK-8



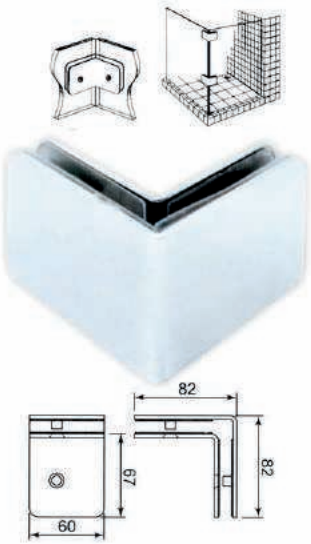
AK-9



AS 430

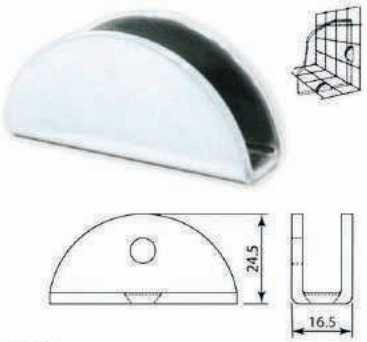


AS 431 (135°)

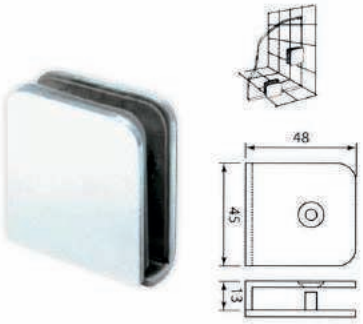


AS 439 (90°)

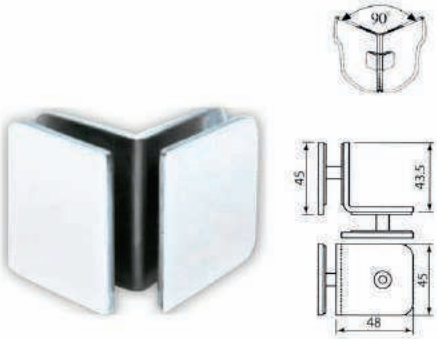
ตัวหนีบกระจกห้องน้ำรุ่นเล็ก SMALL SHOWER FITTING



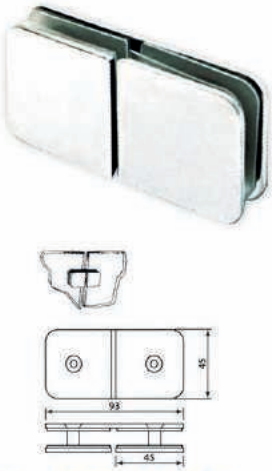
AS 501
For fixing glass panel to wall or floor
For 8 mm. & 10 mm. glass



AS 502
For fixing glass panel to wall or floor
For 8 mm. & 10 mm. glass



AS 503 (90°)
For fixing two glass panels as a 90° angle
For 8 mm. & 10 mm. glass



AS 504 (180°)
To hold two glass panels in line
For 8 mm. & 10 mm. glass



AS 505 (135°)
For fixing two glass panels as a 135° angle For 8 mm. & 10 mm. glass



AS 506
For fixing glass panel to wall or floor For 8 mm. & 10 mm. glass

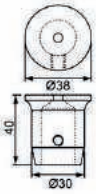


AS 507
For fixing glass panel to wall or floor For 8 mm. & 10 mm. glass

Tubular Type

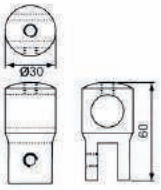

AS 900


AS 901



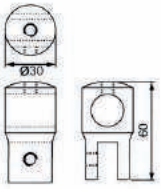

AS 902

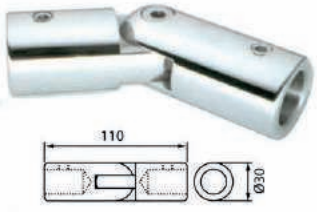

AS 903




AS 904

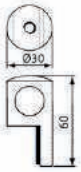

AS 905





AS 906

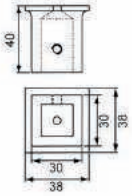

AS 907



Square Type

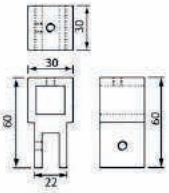

ASQ 800


ASQ 801



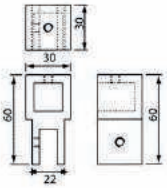

ASQ 802


ASQ 803




ASQ 804

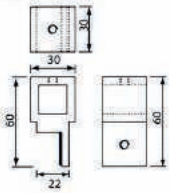

ASQ 805



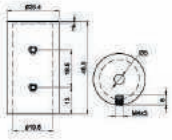


ASQ 806


ASQ 807




AC 01




AC 02




AC 03

STAINLESS STEEL U CHANNEL
(12x12x12 mm.) x 3m.
(15x15x15 mm.) x 3m.
(Any length made to order)

AC 06


(STAINLESS STEEL DOOR SEAL)
LENGTH 800, 900, 1000 mm.

AC 04


STAINLESS STEEL PIPE (Ø19 mm.)
(Any length made to order)

AC 05

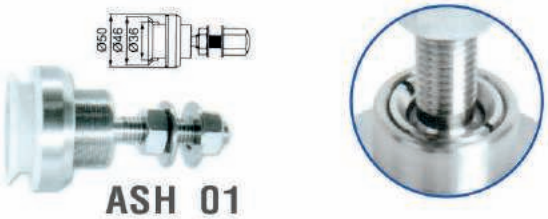

STAINLESS STEEL PIPE (19x19 mm.)
(Any length made to order)

POLYCARBONATE SEAL



CS 10 CS 11 CS 12 CS 12B CS 13 CS 14 CS 15 CS 16 CS 17 CS 17B CS 18 CS 19

SWIVEL BOLT JOINT



ASH 01



ASH 02

FIXED POINT

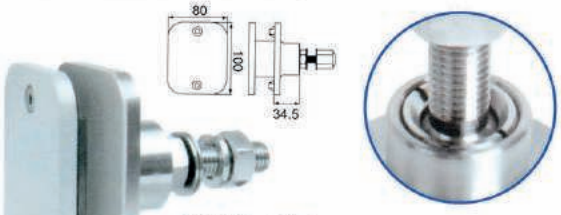


ASH 03



ASH 04

SWIVEL BOLT JOINT
(NON-DRILLED FIXINGS)

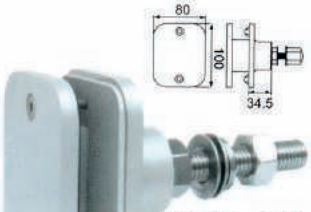


ASH 07



ASH 05

FIXED POINT
(NON-DRILLED FIXINGS)

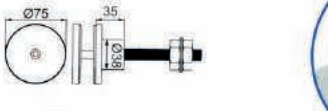


ASH 08

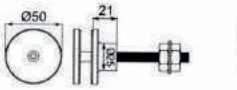


ASH 06

SWIVEL BOLT JOINT
(NON-DRILLED FIXINGS)



ASH 10



ASH 09

FIXED POINT
(NON-DRILLED FIXINGS)



ASH 12



ASH 11

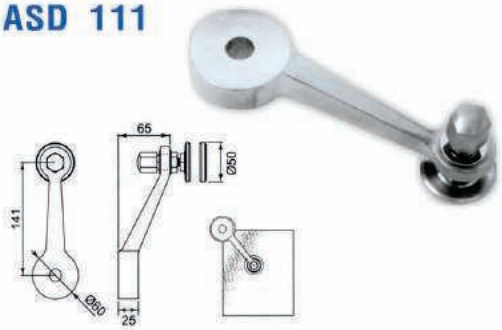
ASP 01



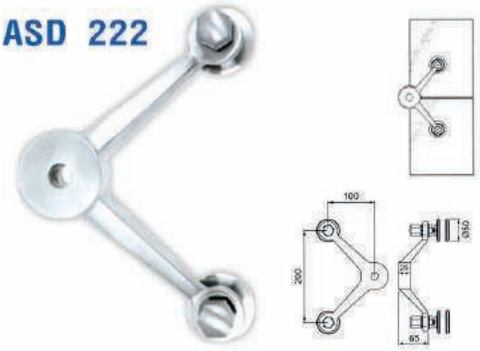
ASP 02



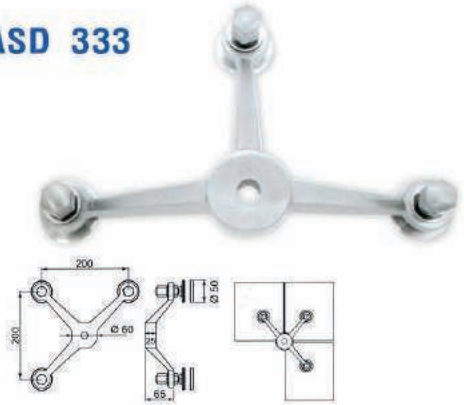
ASD 111



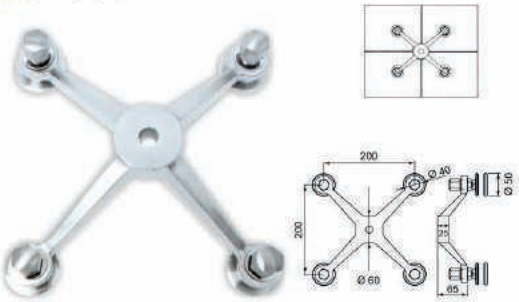
ASD 222



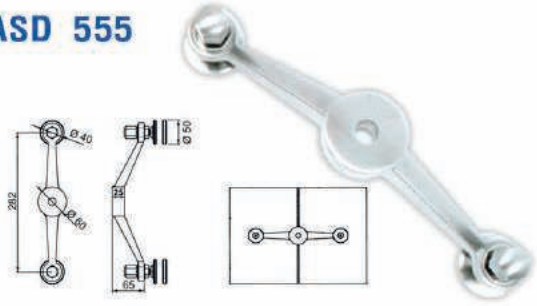
ASD 333



ASD 444



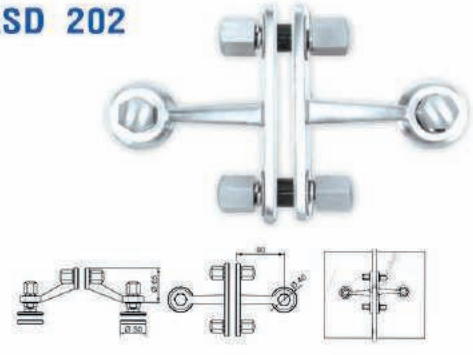
ASD 555



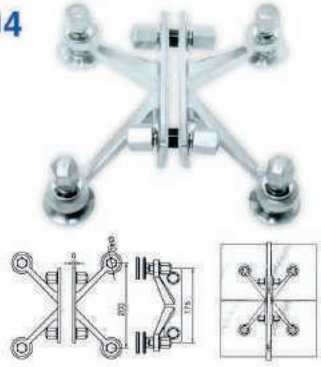
ASD 666



ASD 202



ASD 404



HANDRAIL ACCESSORIES
อุปกรณ์หนีบกระจกแท่งกลม



ARM STRONG | FS-513













HANDRAIL SUPPORTS AND STANDOFF PINS

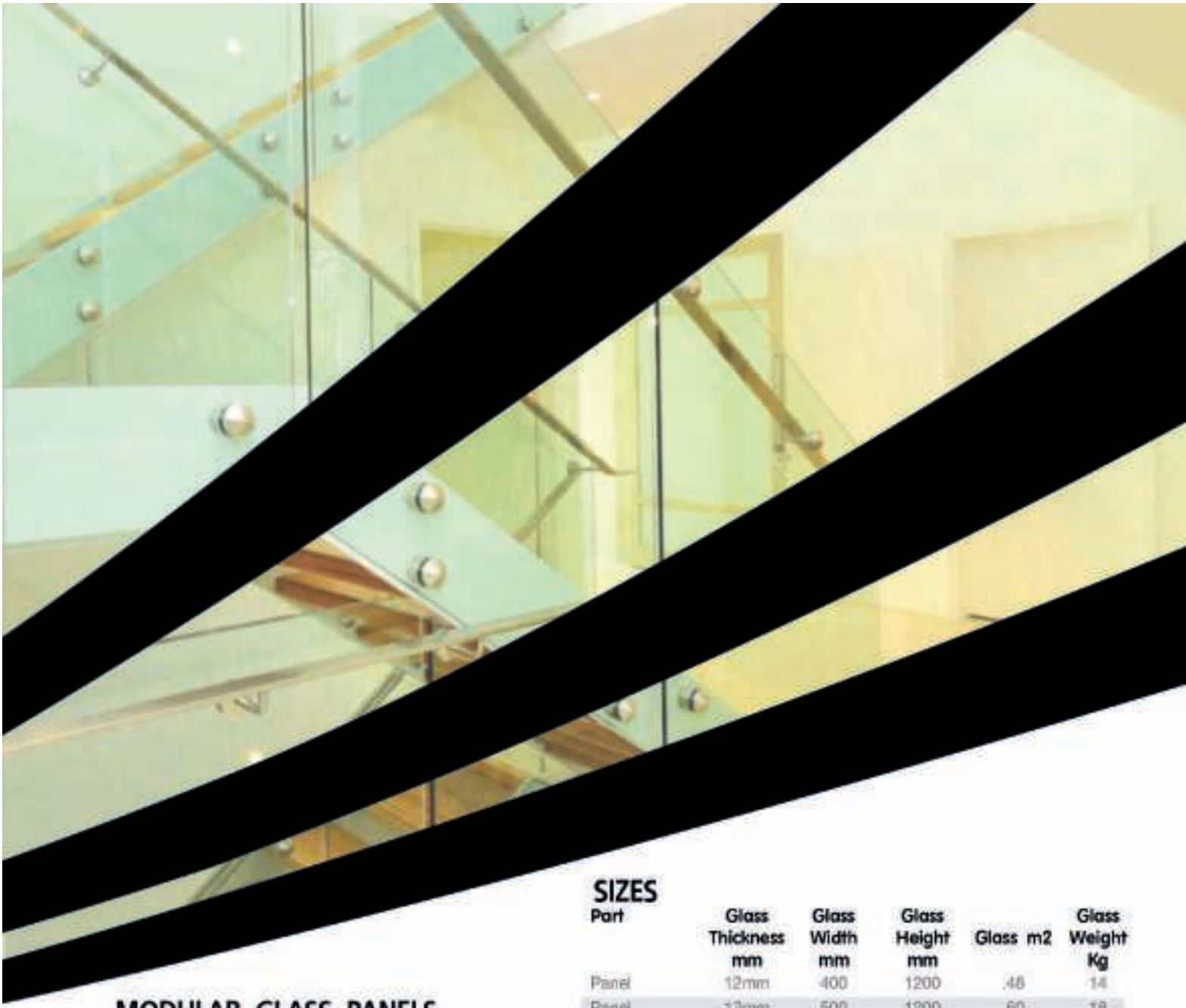
- Mirror or satin finish available
- 304 grade stainless steel
- Solid rods with stylish cone cap [38 mm diameter / 30 mm diameter]

HAND RAIL SUPPORT

STANDOFF PIN



GS 01 GS 02 GS 03 GS 04



MODULAR GLASS PANELS

- Toughened glass with glazing certificate available
- Large quantities of pre-cut sizes in stock
- Custom-cut panels available to order
- Custom coating and tinting also available

STANDOFF PIN



GS 05

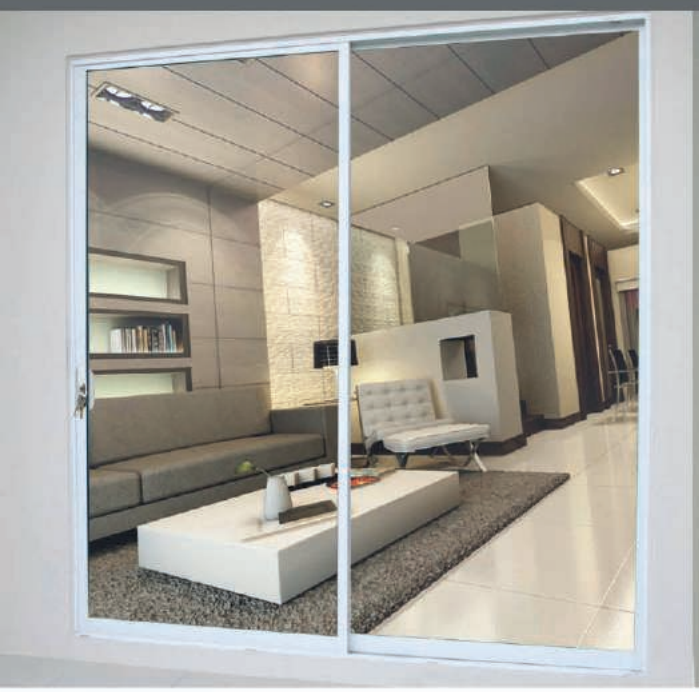


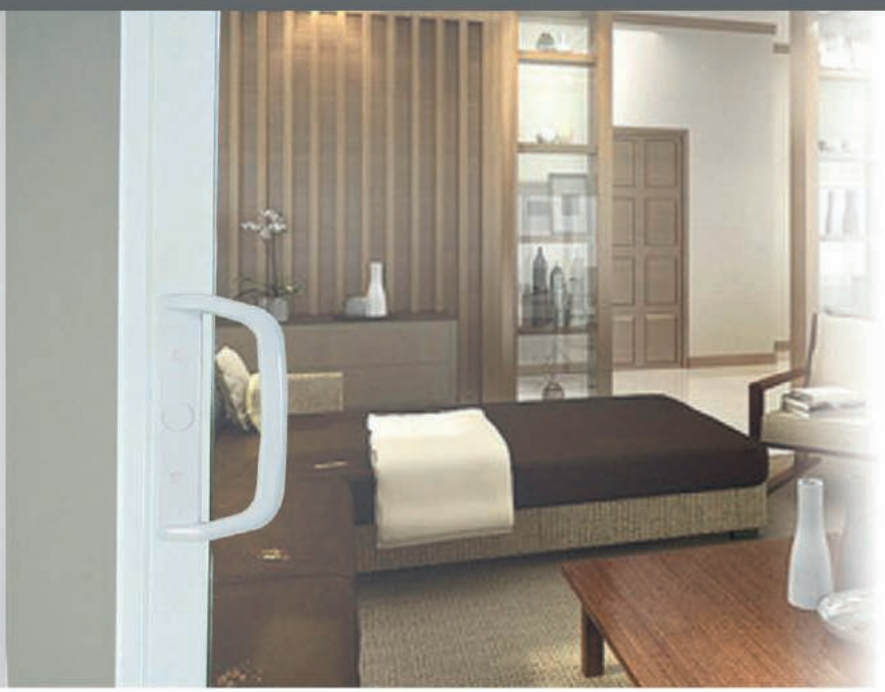
GS 06

SIZES

Part	Glass Thickness mm	Glass Width mm	Glass Height mm	Glass m2	Glass Weight Kg
Panel	12mm	400	1200	.48	14
Panel	12mm	500	1200	.60	18
Panel	12mm	600	1200	.72	22
Panel	12mm	700	1200	.84	25
Panel	12mm	800	1200	.96	29
Panel	12mm	900	1200	1.08	32
Panel	12mm	1000	1200	1.20	32
Panel	12mm	1100	1200	1.32	40
Panel	12mm	1200	1200	1.44	43
Panel	12mm	1300	1200	1.56	47
Panel	12mm	1400	1200	1.68	50
Panel	12mm	1500	1200	1.80	54
Panel	12mm	1600	1200	1.92	58
Panel	12mm	1700	1200	2.04	61
Panel	12mm	1800	1200	2.16	65
Panel	12mm	1900	1200	2.28	68
Panel	12mm	2000	1200	2.40	72
Gate	12mm	900	1200	1.08	32
Gate*	12mm	850	1200	1.02	30.6
Gate	12mm	800	1200	0.96	28.8
Gate	12mm	900	1200	1.08	21.6
Gate	12mm	850	1200	1.02	20.4
Gate	12mm	800	1200	0.96	19.2

*High quality gate hardware and chemical fixings also available

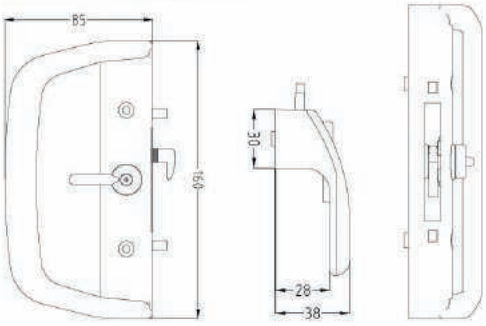


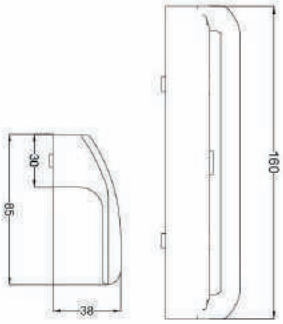


HZ QP



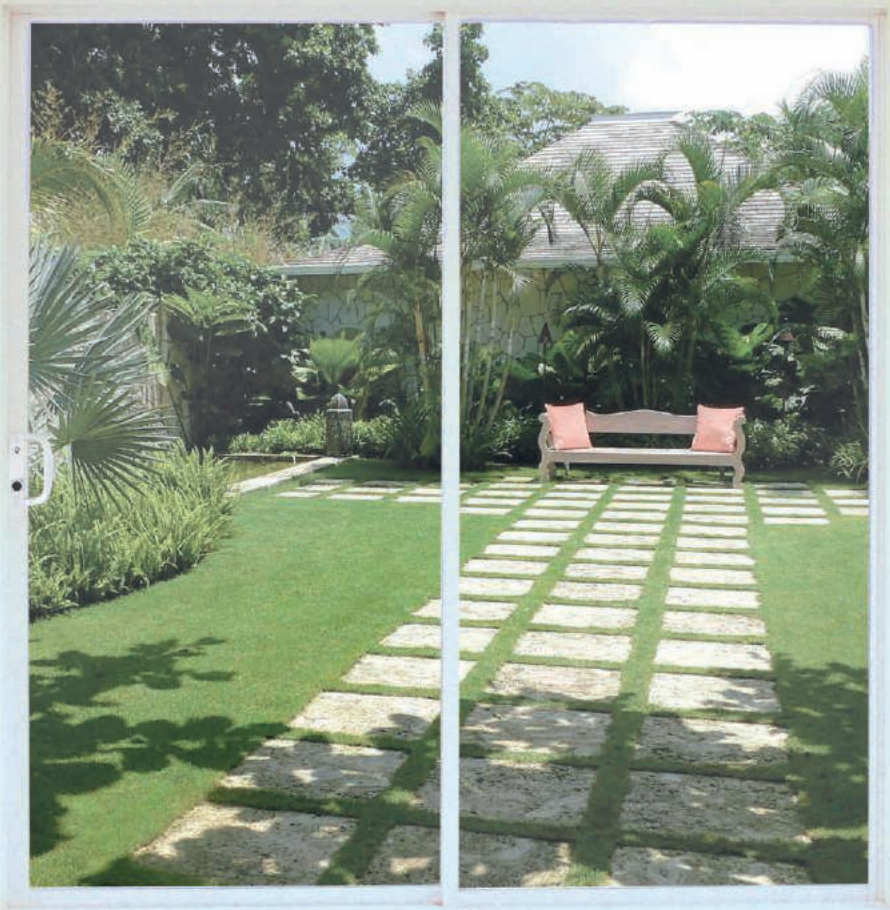






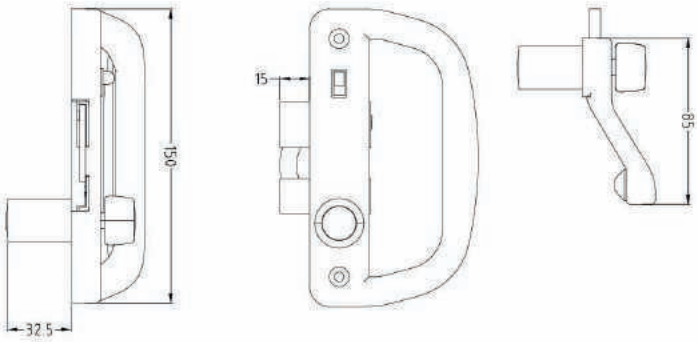


Sliding Handle



HZ CY







ลูกล้อประตูเลื่อน สำหรับใช้กับเฟรมปกติ



RL 401



RL 402



RL 403



RL 404



RL 405



RL 406



RL 407



RL 408



RL 409

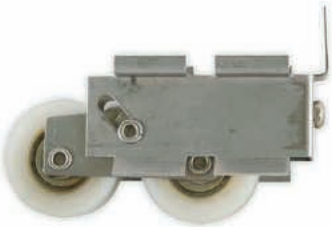
ลูกล้อประตูเลื่อน สำหรับใช้กับเฟรมพิเศษ



RL 411



RL 412



RL 413



RL 414

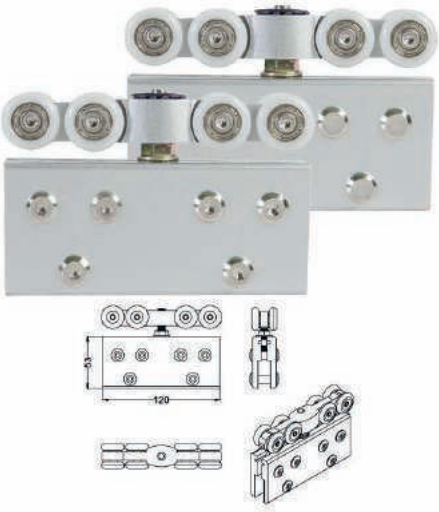


RL 415



RL 416

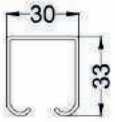
ชุดบานเลื่อนพิเศษ **SLIDE DOOR**



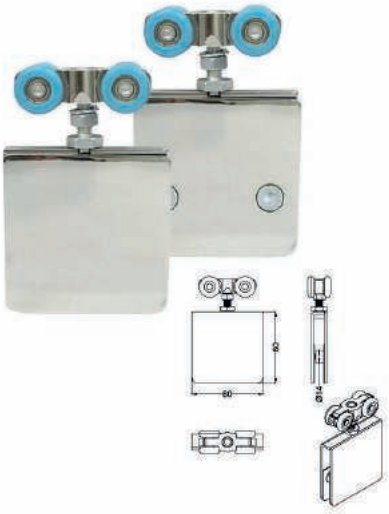
SCG-10

Aluminium Extrusion





AL-012



SCG-20

ล็อคกลางบานเลื่อน **CRESCENT LOCK**



CL 01 CR 01



SCL 01 SCR 01

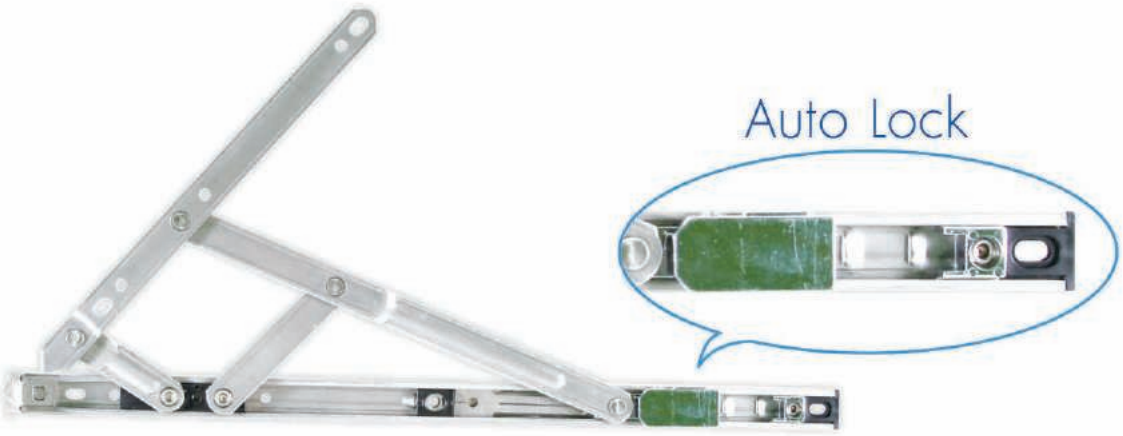
ยางกันกระแทก



BA 10

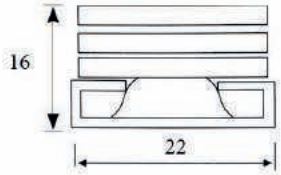
HEAVY DUTY 4 BAR HINGES

HD 4



Size/mm.

Art No.	Length (inch)	Angle	Max.Size of Windo	
			L(mm)	W(mm)
HD4-8	8	60	500	800
HD4-10	10	70	500	810
HD4-12	12	50	580	850
HD4-14	14	60	700	1150
HD4-16	16	25	800	1200
HD4-18	18	20	850	1300
HD4-20	20	45	950	1300
HD4-24	24	45	980	1350



SUPPORT ARM

SP 01



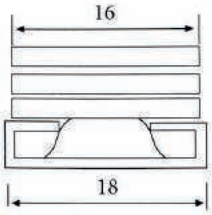
Size/mm.

Art No.	Length (inch)
SP01-8	8
SP01-10	10
SP01-12	12

FRICTION HINGES

HD 41





Size/mm.

Art No.	Length (inch)	Angle	Max.Size of Windo	
			L(mm)	W(mm)
HD41-8	8	60	500	800
HD41-10	10	70	500	810
HD41-12	12	50	580	850
HD41-14	14	60	700	1150
HD41-16	16	25	800	1200
HD41-18	18	20	850	1300
HD41-20	20	45	950	1300

LIMIT DEVICE HINGES

LM 01



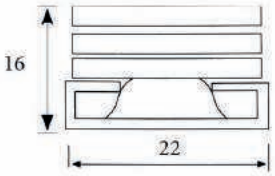
Size/mm.

Art No.	Length (inch)	Angle	Max.Size of Windo	
			L(mm)	W(mm)
LM01-8	8	60	500	800
LM01-10	10	70	500	810
LM01-12	12	50	580	850
LM01-16	16	25	800	1200

FRICTION HINGES (SLIDE UP)

AS 220





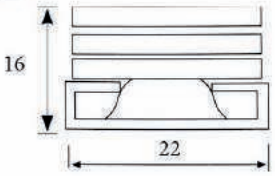
Size/mm.

Art No.	Length (inch)	Angle	Max.Size of Windo	
			L(mm)	W(mm)
AS220-16	16	25	800	1200
AS220-18	18	20	850	1300
AS220-20	20	45	950	1300
AS220-24	24	45	980	1350

FRICTION HINGES (SLIDE DOWN)

AS 220B





Size/mm.

Art No.	Length (inch)	Angle	Max.Size of Windo	
			L(mm)	W(mm)
AS 220B-12	12	50	580	850
AS 220B-16	16	25	800	1200
AS 220B-18	18	20	850	1300
AS 220B-20	20	45	950	1300
AS 220B-24	24	45	980	1350

CAMLOCK WINDOW HANDLE

TP-2011



TP-2011



TP-2012



TP-2012



R / ขวา
L / ซ้าย

Colour ☐ White (สีขาว) ■ Silver (สีอลูมิเนียม) ■ Brown (สีชา) ■ Black (สีดำ)

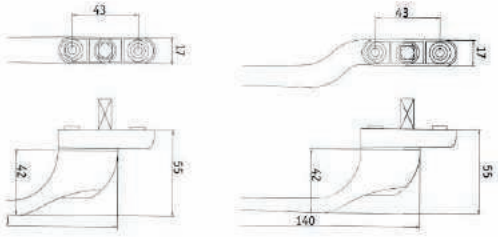
WINDOW HANDLE



900 901 902

KW

- Cast from die-cast zinc alloy
- Wide selection of spindle lengths available
- Push-to-release opending
- Available in key-locking and non-locking versions
- Available in inline or cranked
- BBA Compliant
- Egress option is also available



MODEL 1



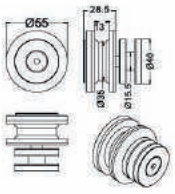
ลูกล้อสแตนเลส

Satin Mirror Platinum



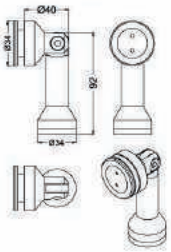
GS 1201





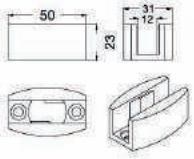
GS 1206





GS 1205





MODEL 2



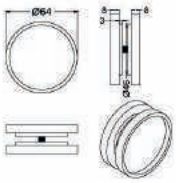
ลูกล้อสแตนเลส

Satin Mirror Platinum



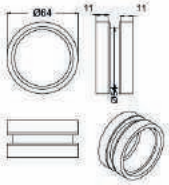
GS 1204-01





GS 1204-02





HB - A 02 - 01



HB - A 02 - 02

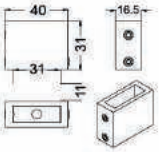


HB - A 02 - 03



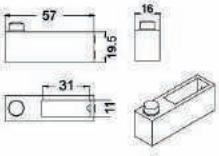
HB - A 02 - 04





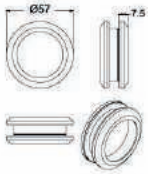
HB - A 02 - 05





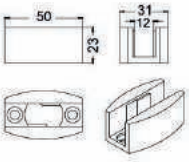
HB - A 02 - 07





GS 1205







THAI-FRENCH INNOVATION INSTITUTE (TFII)
King Mongkut's University of Technology North Bangkok

TEST REPORT

Company	TRAKUL THAI PRODUCTS CO., LTD.
Test problem	Determination of Mechanical Test
Test method	Compression Test
Test object	Material Testing
Material Specification	Stainless Steel Part: See Picture
Date of test	25 JULY 2011

1. COMPRESSION TEST

Photograph of specimen before test(A) ,Specimen test method (B) and Specimen after test(C)

Specimen No.	Compression Yield Load		Compression Ultimate Load		Type of Failure & Location
	(kN)	(kgf)	(kN)	(kgf)	
CT-01	9.22	939.89	16.85	1,717.63	No Fracture(no.C)

This report reflects our findings at time and place of inspection only

Tested by (Mr.Surachet KAEWNGAM) Lab Engineer

Approved by Head of Welding Technology Department

WELDING TECHNOLOGY DEPARTMENT



THAI-FRENCH INNOVATION INSTITUTE (TFII)
King Mongkut's University of Technology North Bangkok

TEST REPORT

Company	TRAKUL THAI PRODUCTS CO., LTD.
Test problem	Determination of Mechanical Test
Test method	Tensile Test
Test object	Material Testing
Material Specification	ตีตราเหล็กรูป HUSZA ขึ้นรูป 1 ปีก BL102/KP1
Date of test	11 October 2011

This is report that the specimens were submitted to our laboratory for the purpose of tests.
The results of tests were as follows

1. TENSILE TEST

Photograph of Specimen No.HUSZA-KP1-01 and Specimen test method

Specimen No.	Tensile Ultimate Load		Remark
	(kN)	(kgf)	
HUSZA-KP1-01	0.677	68.91	-

This report reflects our findings at time and place of inspection only

Tested by (Mr.Surachet KAEWNGAM) Lab Engineer

Approved by Head of Welding Technology Department

WELDING TECHNOLOGY DEPARTMENT





THAI-FRENCH INNOVATION INSTITUTE (TFII)
King Mongkut's University of Technology North Bangkok

TEST REPORT

Company	TRAKUL THAI PRODUCTS CO., LTD.
Test problem	Determination of Mechanical Test
Test method	Compression Test
Test object	Material Testing
Material Specification	ตีตราเหล็กรูป HUSZA ขึ้นรูป BL102/TW
Date of test	11 October 2011

This is report that the specimens were submitted to our laboratory for the purpose of tests.
The results of tests were as follows

1. COMPRESSION TEST

Photograph of Specimen No.HUSZA-TW-01 and Specimen test method

Specimen No.	Compression Ultimate Load		Remark
	(kN)	(kgf)	
HUSZA-TW-01	2.464	251.172	-

This report reflects our findings at time and place of inspection only

Tested by (Mr.Surachet KAEWNGAM) Lab Engineer

Approved by Head of Welding Technology Department

WELDING TECHNOLOGY DEPARTMENT



บริษัท ตระกูลไทย โปรดักส์ จำกัด รวมทั้งบริษัทในเครือฯ

เป็นทั้งผู้ผลิตและจำหน่าย (ขายส่ง) วัสดุอุปกรณ์

• อลูมิเนียม • ท่อสแตนเลส • อุปกรณ์ก่อสร้าง

• และอุปกรณ์สำหรับเฟอร์นิเจอร์ทุกชนิด

นอกจากนี้ทางบริษัท ฯ ยังเป็นหนึ่งในผู้นำเข้าสินค้าจากต่างประเทศรายใหญ่ของไทย

บริษัท ตระกูลไทย โปรดักส์ จำกัด
TRAKUL THAI PRODUCTS CO., LTD.
22/271 ซอยเพชรเกษม 69 แขวงหนองค้างพลู เขตหนองแขม กรุงเทพฯ 10160
Tel. : 0 2807 4381 (Autoline) Fax : 0 2807 5329, 0 2807 4941
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