



WINDSEAL
HARDWARE | TOOLS | ACCESSORIES



TECHNICAL
CATALOGUE FOR
UPVC WINDOW
AND **DOOR** HARDWARE

About Us

We, WINDSEAL Hardware Industries, is a leading ISO 9001:2015 certified uPVC Hardware provider, with a complete range of uPVC Hardware, Tools, & Accessories, that offers integrated innovative solutions in the area of uPVC Hardware products. We are an excellent track record for the best customer satisfaction in manufacturing. Our range includes Sliding Door, Window Hardware and Casement Door & Window Hardware. Our range is also widely appreciated for its optimum quality and reliability.

Our Factory is located in Bowrampet - Hyderabad and Head Office is at Bachupally, Hyderabad 500 090. We have our Branches at LB Nagar - Hyderabad, Yelahanka - Bengaluru, Naity Road- Kolkata. We have never compromised on the quality and the services provided to the customer. We believe in keeping the customers happy and providing them with products at a very competent price.

With a countrywide presence, the company provides customized solutions in windows and doors to suit the harsh climatic and environmental conditions anywhere in India.

We have sophisticated production facilities and eminent resources of technically trained people in our role. We always ensure that the consignment request is being completely verified by the executive and complete the same on specific time period so that we can dispatch the material smoothly to the end client.

BEST QUALITY

WINDSEAL HARDWARE services are committed to meet the highest quality standards without compromising.

ON TIME

We, always respect the customer's time & schedule and deliver on time with right products as per the requirement.

EXPERIENCE

We rely on the Skills and implementation strength of Employees, so that we can meet our customers' satisfaction.



CERTIFICATE

This is to Certify that the Management System of
SHARP SOLUTIONS TECHNOLOGIES

FLAT NO : 101, PLOT NO : 57 & 58, BHAGAVAN RESIDENCY, ROAD NO : 2,
K R C R COLONY, BACHUPALLY, HYDERABAD -500090,
TELANGANA, INDIA

has been audited and found to comply with the requirements of:

ISO 9001:2015
(Quality Management System)

For the Scope of activities described below:

**TRADING OF CCTV, EPABX, COMPUTER ACCESSORIES,
IT SALES AND SERVICES, NETWORKING & AMC.**

Certificate No.: IN241207015

<u>Date of initial registration</u>	<u>Date of this Certificate</u>	<u>Surv. audit on or before/ Certificate expiry</u>	<u>Recertification Due</u>
07 December 2024	07 December 2024	06 December 2025	06 December 2027

Validity of this certificate is subject to successful completion of surveillance audit on or before due date,
in case surveillance audit not conducted this certificate shall be suspended/cancelled.



Director

For verification and updated information concerning the present certificate visit to: www.lmscert.uk/www.lmscert.com
This certificate is property of LMS Assessments Limited and remains valid subject to satisfactory surveillance audits
and shall be returned immediately when demanded.

Accreditation



LMS Assessments Limited

International Office: Bartle House, Oxford Court, Manchester,
M2 3WQ(United Kingdom) Phone : +44-161394 1117

(Company Regd. No. 11029176 Registered in England and Wales)

LMS Assessment Services Private Limited

Corporate Office: TF14, 15 Aarohi arcade, Sector 16, Munshi Puliya,
Indira Nagar, Lucknow - 16, India Phone : +91 955 464 5464

Visit :- www.lmscert.uk/www.lmscert.com

E-mail :- info@lmscert.uk



LMS-FM-109/REV04



WARRANTY CERTIFICATE

We Windseal certify that all our products comes with 10 years of warranty from the date of invoicing. This warranty is for any Manufacturing defects like powder coating stable working of goods etc.



WINDSEAL HARDWARE INDUSTRIES
G2, 9, Sy. No. 220, Kasani Prime, Bachupally,
Hyderabad, 500090, Telangana, India

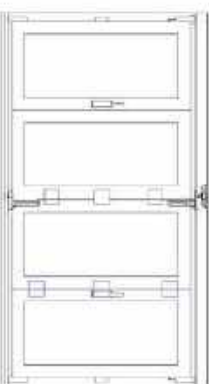
windsealhardware@gmail.com
www.windsealhardware.com



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SYSTEM DETAIL (431)



Number of sashes that open to the left

431

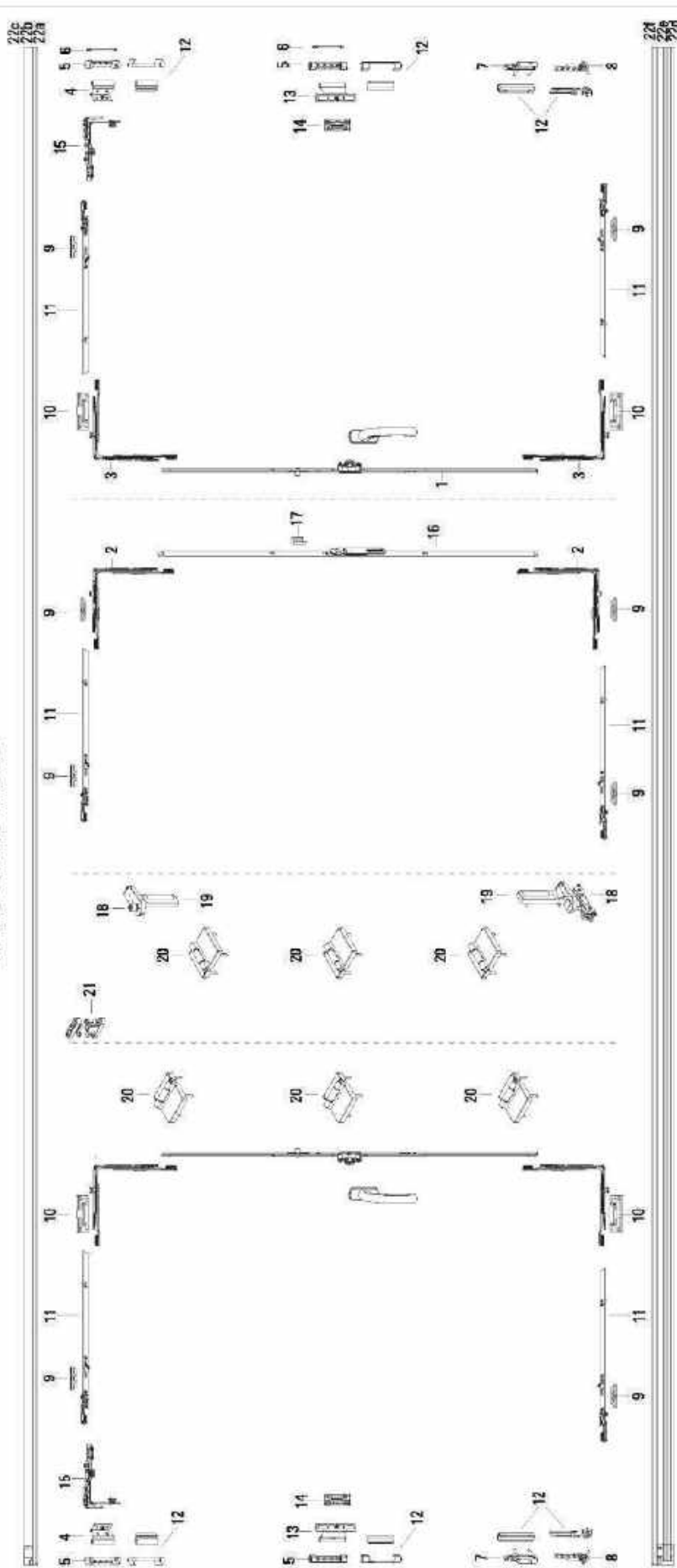
Total number of sashes

Number of sashes that open to the right

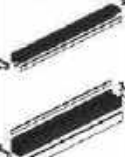


1	Tilt&Turn espagnolette	12	Cover Set
2	Corner transmission standard	13	Middle Hinge
3	Corner transmission security type	14	Hidden Central Hinge
4	Stay Arm Hinge	15	Double Sash Top Hinge
5	Stay Arm Bearing	16	Double Sash Gear
6	Stay Arm Bearing Pin	17	Universal striker for Double Sash
7	Bottom Hinge (Sash Part)	18	Bogie Set
8	Bottom Hinge (Frame Part)	19	Support Bracket Accessories
9	Striker	20	Folding Hinge (20/40)
10	Security striker	21	Set Sash Retaining Device
11	Extension Part	22	Folding Al Track Set

431 (3 LEFT, 1 RIGHT OPENING) HARDWARE TABLE



Sample order for schema 431

TECHNICAL PICTURE	CODE	PART NAME	LENGHT /AXE	COLOUR VARIANT			FOLDING SCHEMA- MIN. QUANTITY											
				WHITE RAL-9016	BLACK RAL-8022	SILVER RAL-9006	321	330	431	532	541	550	633	651	743	761	770	
	141.001.001.001	Bogie set					1	1	1	2	2	2	2	2	3	3	3	
	141.002.001.001	Support brackat Accessories (upvc&timber)					1	1	1	2	2	2	2	2	3	3	3	
	141.003.003.001	Folding 3 m Track set	1 - 3000				1	1	1	1	1	1	1	1	1	1	1	
	141.003.004.001	Folding 4 m Track set	3001 - 4000				1	1	1	1	1	1	1	1	1	1		
	141.003.005.001	Folding 5 m Track set	4001 - 5000				1	1	1	1	1	1	1	1	1	1		
	141.003.006.001	Folding 6 m Track set	5001 - 6000				1	1	1	1	1	1	1	1	1	1		
	141.004.001.001	Set Sash Retaining Device					1	2	2	3	2	2	4	2	4	2	2	
	141.005.001.001	Folding Hinge Set	20/40				3	6	6	9	9	12	12	12	15	15	18	
	141.005.003.001	Folding Hinge Set	20/50															
	141.005.004.001	Folding Hinge Set	30/50															

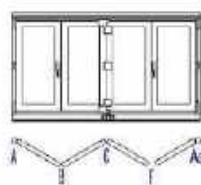
INWARD / OUTWARD OPENING (Z) TYPE



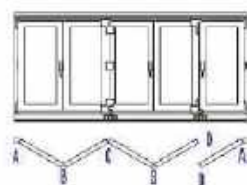
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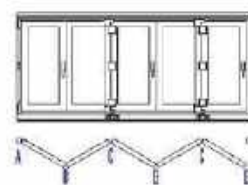
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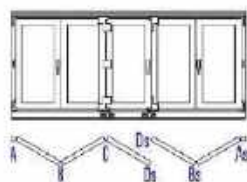
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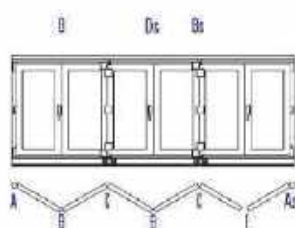
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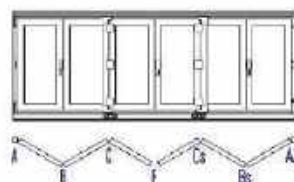
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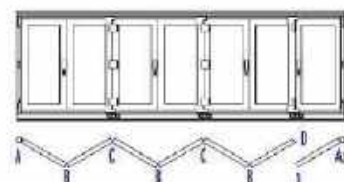
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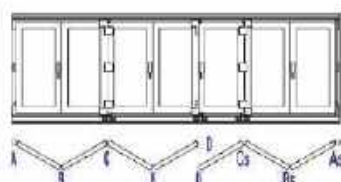
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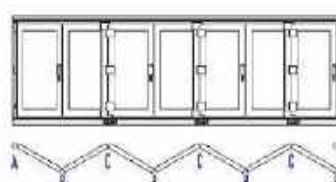
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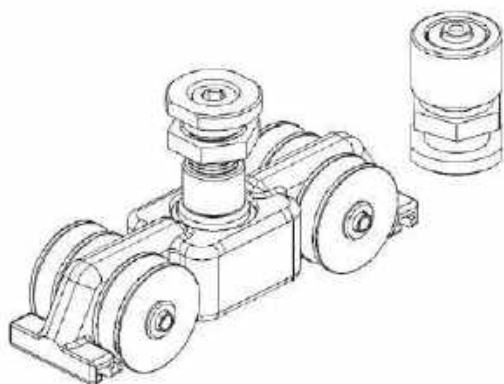
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743

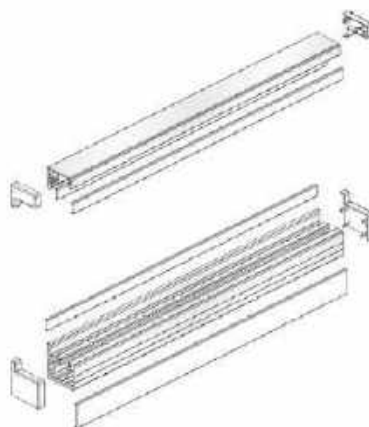


770



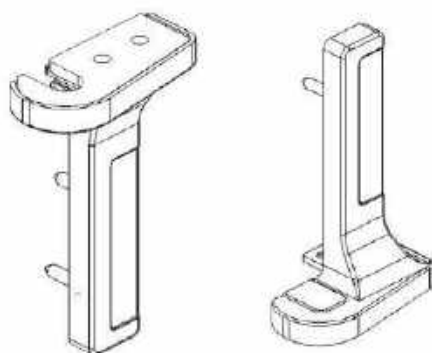
Bogie Set

CODE : 2301



Folding Track Set

CODE : 2309



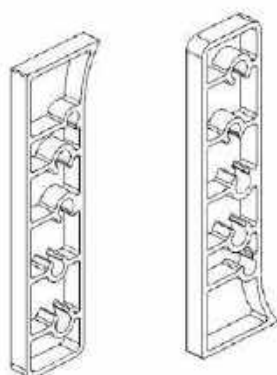
Support bracket Accessories

CODE : 2325



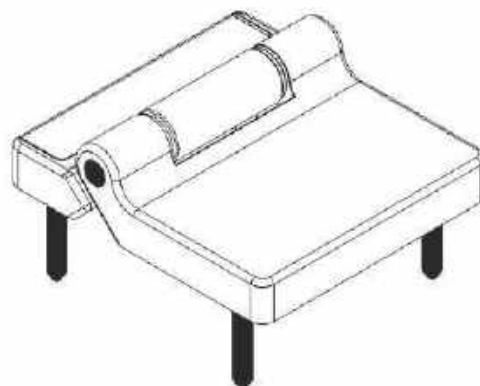
Set Sash Retaining Device

CODE : 2315



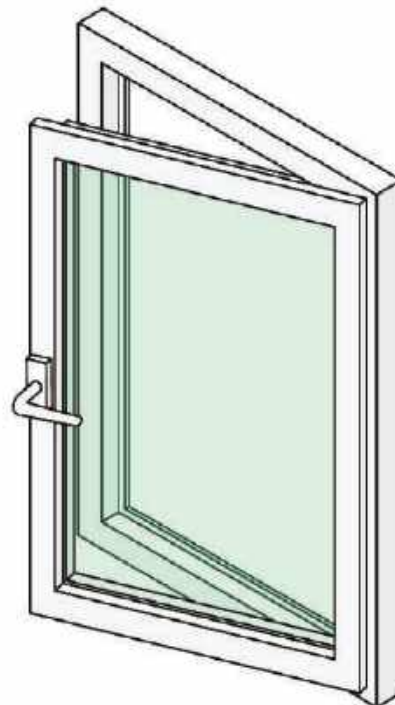
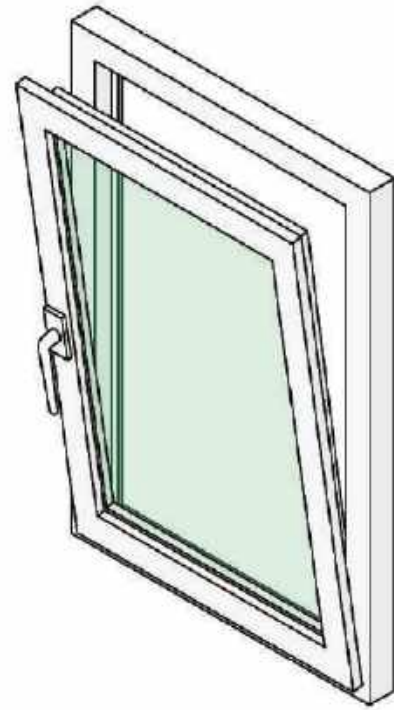
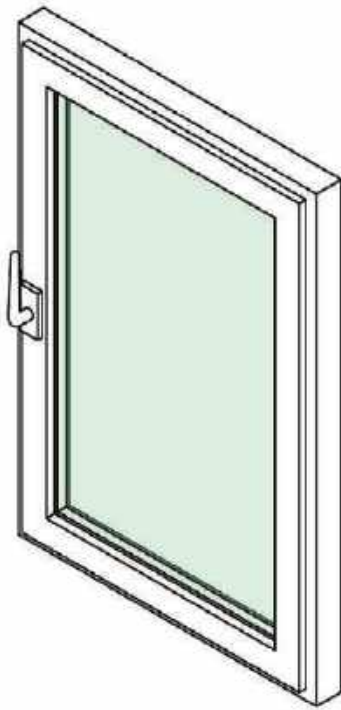
Packers support bracket

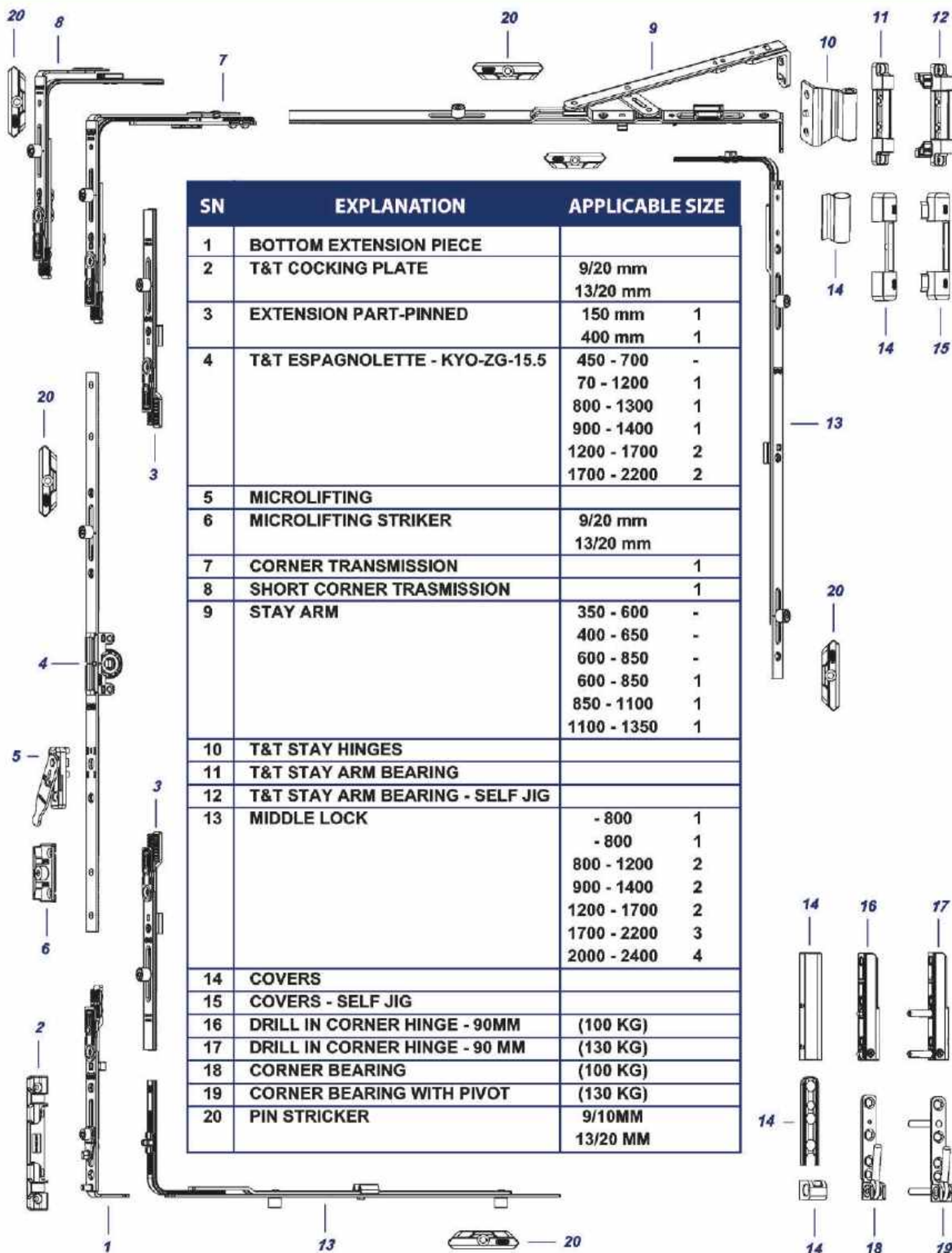
CODE : 2329



Folding Hinge Set 30/50 Axis

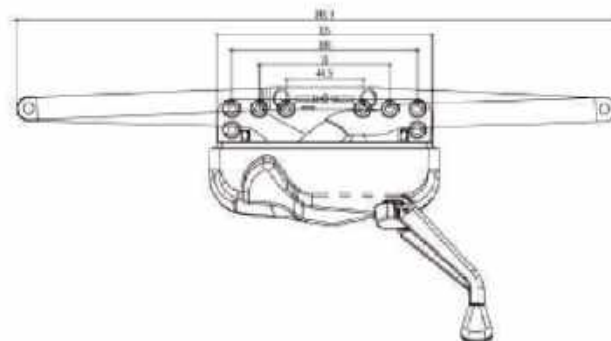
CODE : 2351





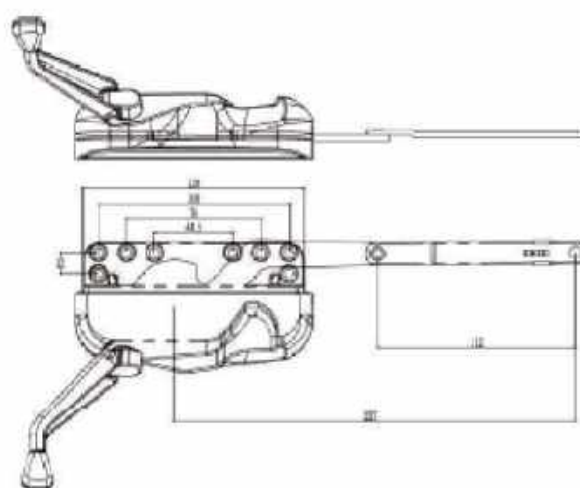
SN	EXPLANATION	APPLICABLE SIZE	
1	BOTTOM EXTENSION PIECE		
2	T&T COCKING PLATE	9/20 mm	
		13/20 mm	
3	EXTENSION PART-PINNED	150 mm	1
		400 mm	1
4	T&T ESPAGNOLETTE - KYO-ZG-15.5	450 - 700	-
		70 - 1200	1
		800 - 1300	1
		900 - 1400	1
		1200 - 1700	2
		1700 - 2200	2
5	MICROLIFTING		
6	MICROLIFTING STRIKER	9/20 mm	
		13/20 mm	
7	CORNER TRANSMISSION		1
8	SHORT CORNER TRANSMISSION		1
9	STAY ARM	350 - 600	-
		400 - 650	-
		600 - 850	-
		600 - 850	1
		850 - 1100	1
		1100 - 1350	1
10	T&T STAY HINGES		
11	T&T STAY ARM BEARING		
12	T&T STAY ARM BEARING - SELF JIG		
13	MIDDLE LOCK	- 800	1
		- 800	1
		800 - 1200	2
		900 - 1400	2
		1200 - 1700	2
		1700 - 2200	3
		2000 - 2400	4
14	COVERS		
15	COVERS - SELF JIG		
16	DRILL IN CORNER HINGE - 90MM	(100 KG)	
17	DRILL IN CORNER HINGE - 90 MM	(130 KG)	
18	CORNER BEARING	(100 KG)	
19	CORNER BEARING WITH PIVOT	(130 KG)	
20	PIN STRICKER	9/10MM	
		13/20 MM	

Y Series Wonder Operator



Product	Code No	Central Length "L" (mm)
Y Series Wonder Operator	01/1506L(R)	348.9 mm (13.7")
	01/1508L(R)	228.6 mm (9.0")
	01/150L(R)	406.4 mm (16.0")
	01/1510L(R)	533.4 mm (21.0")

Y Series Wonder Single Arm Operator



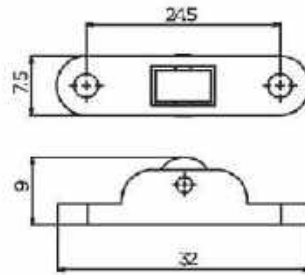
Product	Serial No.	(L) Central Length
Y Series Wonder Single Arm Operator	01/0113 (R)	7.5" (190.5 mm)
	01/0114 (R)	9.5" (241.3 mm)
	01/0115 (R)	13.5" (342.9 mm)



Description	Loading Capacity (Pair)	Height / Width (mm)
Vertical Sliding 350 mm	13 Kgs	800 / 360
Vertical Sliding 400 mm	17 Kgs	900 / 410
Vertical Sliding 450 mm	17 Kgs	1000 / 460
Vertical Sliding 500 mm	17 Kgs	1100 / 510
Vertical Sliding 550 mm	17 Kgs	1200 / 560
Vertical Sliding 600 mm	22 Kgs	1300 / 610

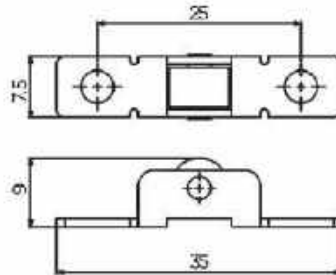
7.5mm Mesh Roller Nylon Frame

CODE : 1001
FRAME : NYLON
WHEEL : MS/BRASS
CAPACITY : 10KG/PAIR



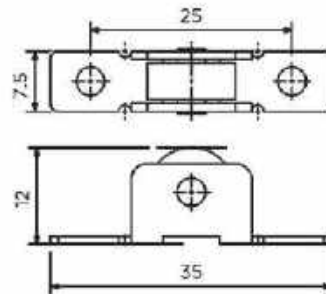
7.5mm Mesh Roller Metal Frame

CODE : 1002
FRAME : MS
WHEEL : NYLON
CAPACITY : 10KG/PAIR



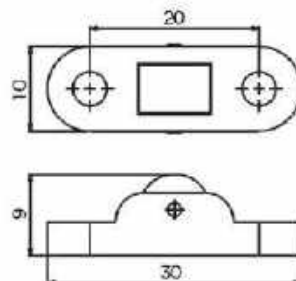
7.5mm Mesh Roller 12mm Height

CODE : 1003
FRAME : MS
WHEEL : NYLON
CAPACITY : 10KG/PAIR



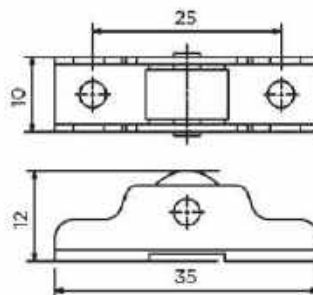
10mm Mesh Roller Nylon Frame

CODE : 1004
FRAME : NYLON
WHEEL : MS/BRASS
CAPACITY : 12KG/PAIR



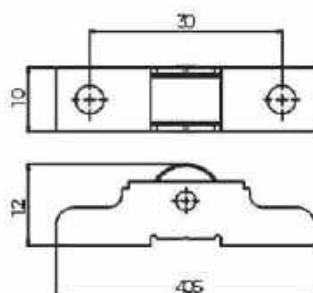
10mm Mesh Roller Steel Frame

CODE : 1005
FRAME : MS
WHEEL : NYLON
CAPACITY : 15KG/PAIR



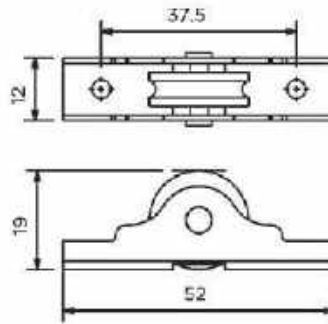
10mm Mesh Roller SS

CODE : 1006
FRAME : SS 430
WHEEL : NYLON
CAPACITY : 18KG/PAIR



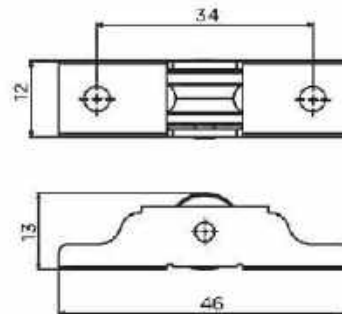
12mm Ball Bearing Roller

CODE : 1007
FRAME : MS
WHEEL : BALL BEARING
CAPACITY : 55KG/PAIR



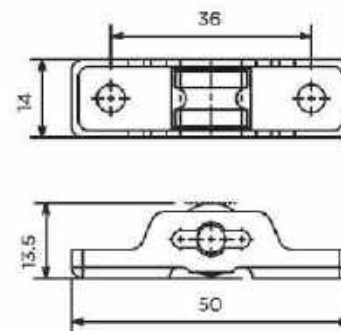
12mm Groove Roller

CODE : 1007A
FRAME : SS
WHEEL : NYLON
CAPACITY : 30KG/PAIR



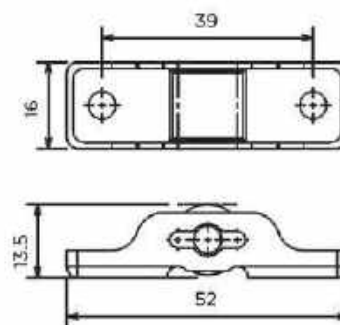
14mm Groove Roller

CODE : 1008
FRAME : MS
WHEEL : NYLON
CAPACITY : 35KG/PAIR



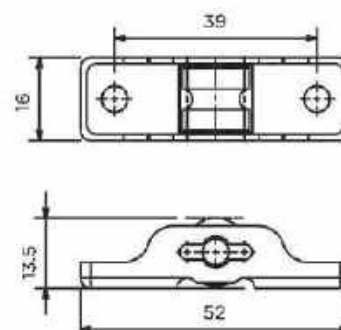
16mm Flat Roller WH

CODE : 1009
FRAME : MS
WHEEL : NYLON
CAPACITY : 40KG/PAIR



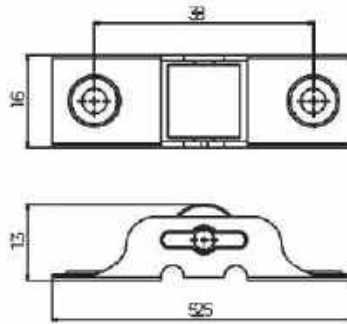
16mm Groove Roller WH

CODE : 1010
FRAME : MS
WHEEL : NYLON
CAPACITY : 40KG/PAIR



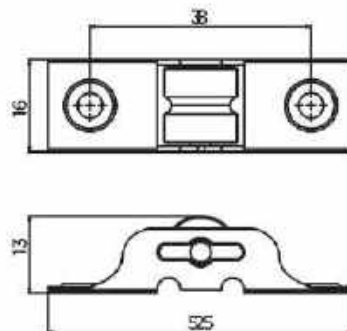
16mm Flat Roller SS

CODE : 1011
FRAME : SS 430
WHEEL : NYLON
CAPACITY : 45KG/PAIR



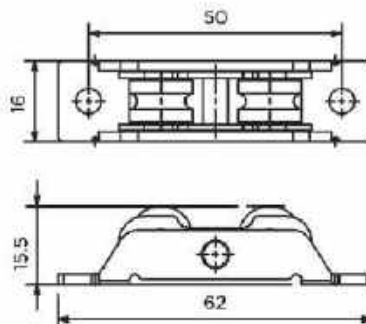
16mm Groove Roller SS

CODE : 1012
FRAME : SS 430
WHEEL : NYLON
CAPACITY : 45KG/PAIR



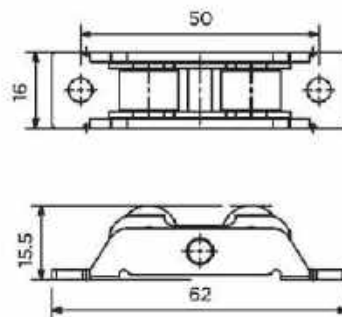
Double Swing Groove Roller

CODE : 1013
FRAME : MS
WHEEL : NYLON
CAPACITY : 60KG/PAIR



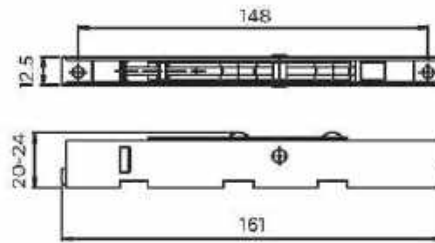
Double Swing Flat Roller

CODE : 1014
FRAME : MS
WHEEL : NYLON
CAPACITY : 60KG/PAIR



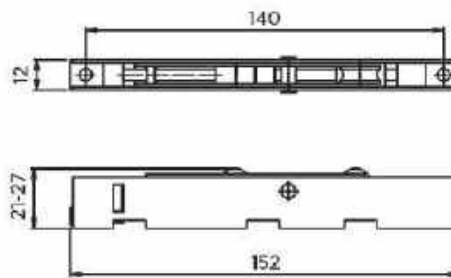
Adjustable Door Roller

CODE : 1015
FRAME : MS
WHEEL : NYLON
CAPACITY : 90KG/PAIR



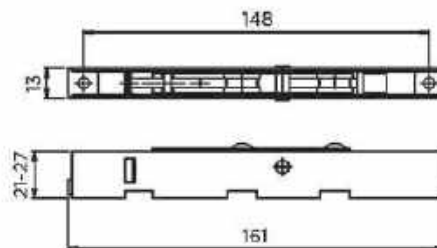
Adjustable Door Roller Premium

CODE : 1015P
FRAME : MS
WHEEL : NYLON PA
CAPACITY : 100KG/PAIR



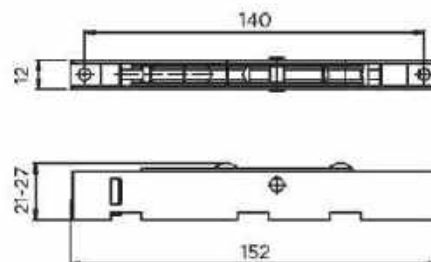
Adjustable Door Roller-Metal Wheel

CODE : 1016M
FRAME : MS
WHEEL : METAL
CAPACITY : 110KG/PAIR



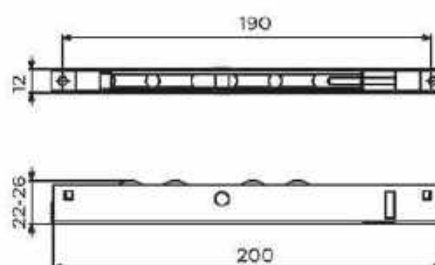
Adjustable Door Roller-Brass Wheel

CODE : 1016B
FRAME : MS
WHEEL : BRASS COATED
CAPACITY : 120KG/PAIR



Adjustable 4 Wheel Door Roller

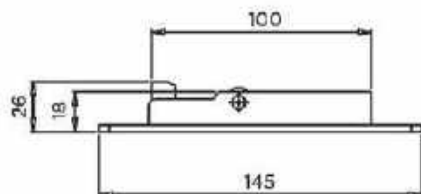
CODE : 1017
FRAME : SS 304
WHEEL : NYLON
CAPACITY : 130KG/PAIR





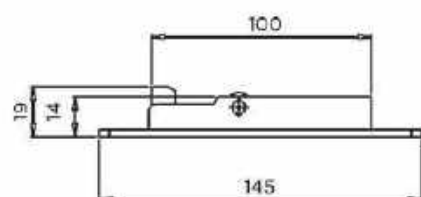
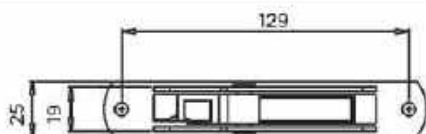
Touch Lock

CODE : 1101



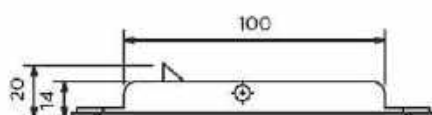
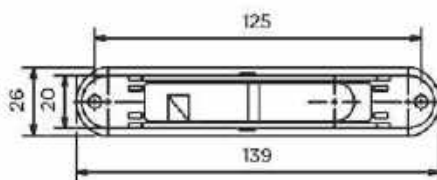
Touch Lock Slim

CODE : 1101LS



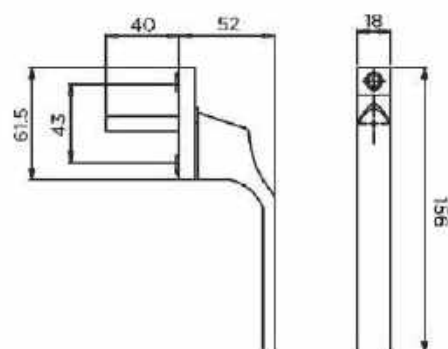
LG Touch Lock

CODE : 1106



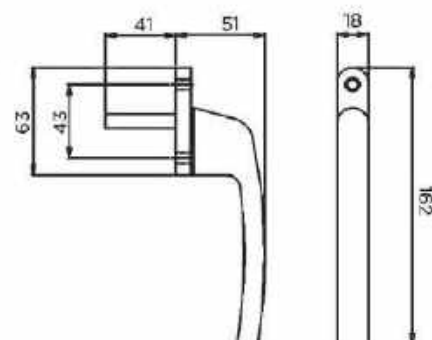
Casement Handle Spindle

CODE : 1107



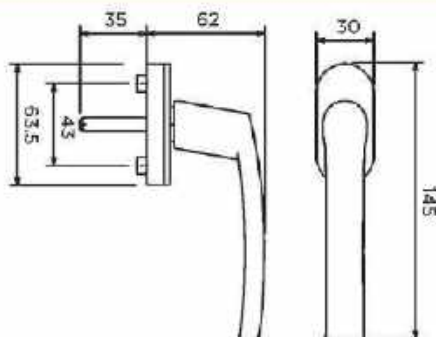
Casement Handle American

CODE : 1108



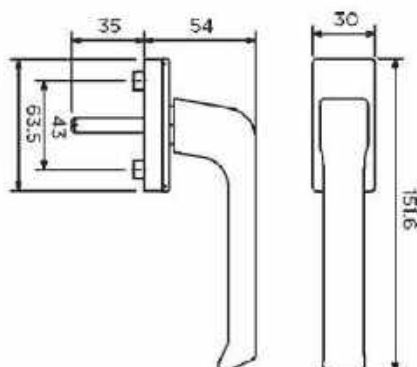
Sliding Handle

CODE : 1109



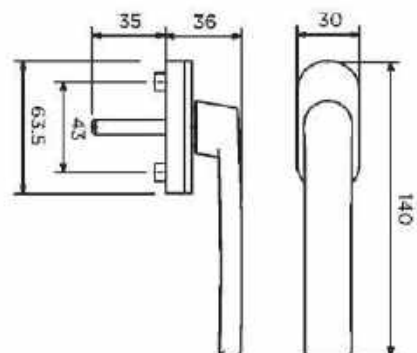
Door Handle

CODE : 1110



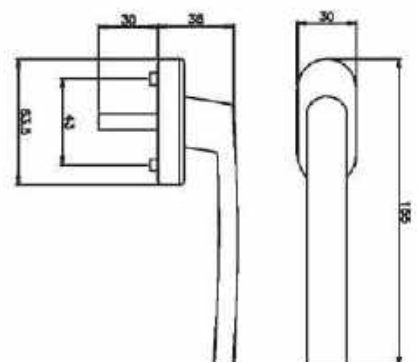
Short Neck Handle Small

CODE : 1111



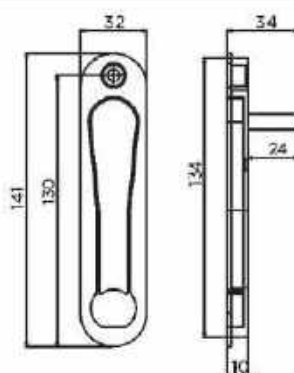
Short Neck Handle Big

CODE : 1111B



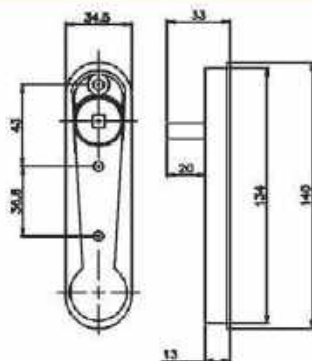
Popup Handle Slim

CODE : 1112



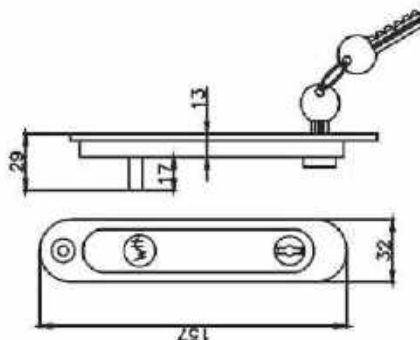
Popup Handle WH

CODE : 1113



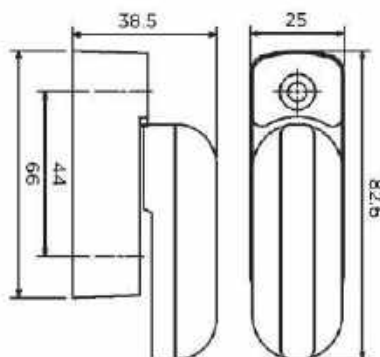
Popup Handle With Key

CODE : 1114



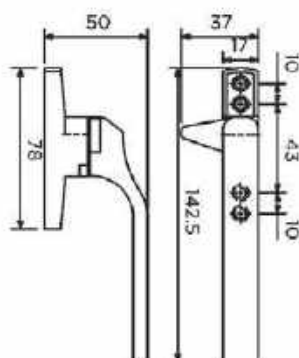
T Lock

CODE : 1117



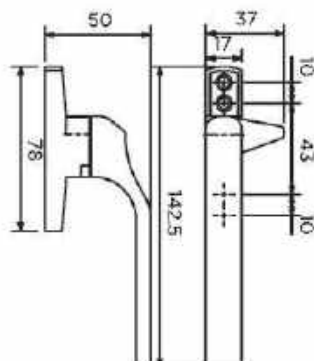
Cockspur Handle R

CODE : 1119R



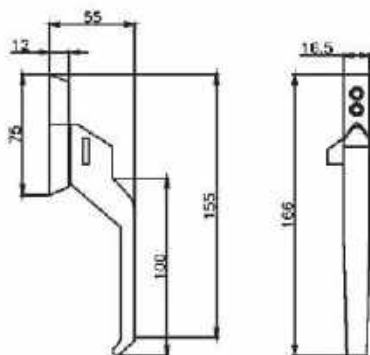
Cockspur Handle L

CODE : 1119L



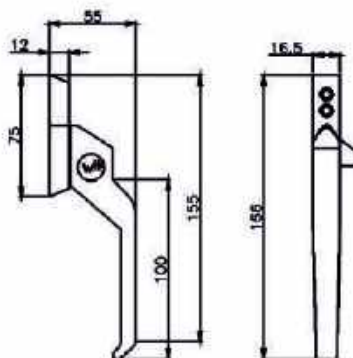
Cockspur Handle PR R

CODE : 1120R



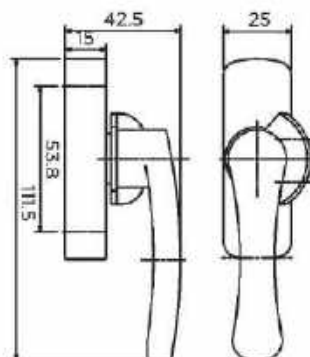
Cockspur Handle PR L

CODE : 1120L



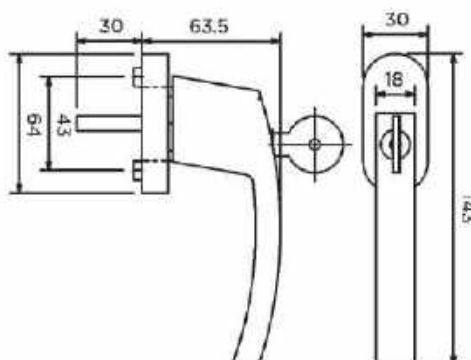
Crescent Lock

CODE : 1122



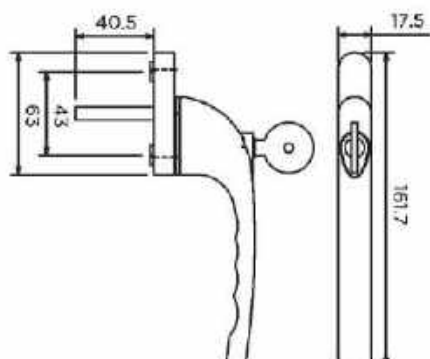
Sliding Handle With Key

CODE : 1123



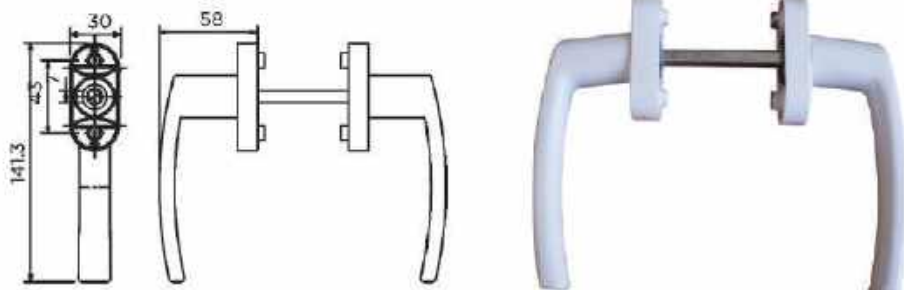
Casement Handle Press And Key

CODE : 1124



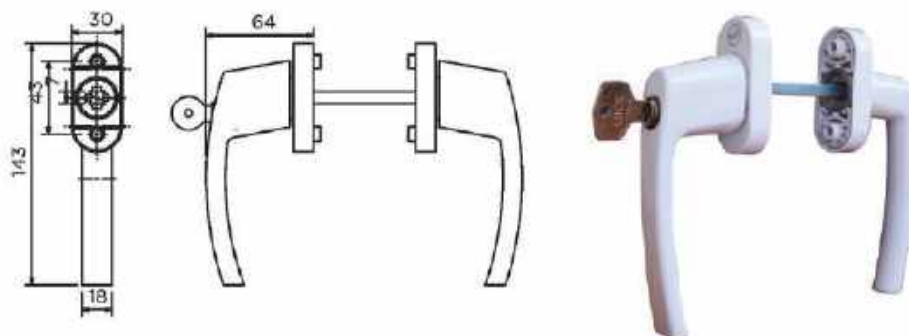
Double Handle Without Key

CODE : 1125



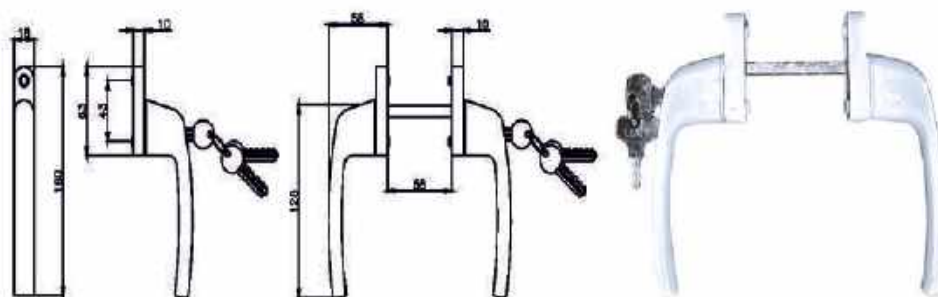
Double Handle With One Side Key

CODE : 1126



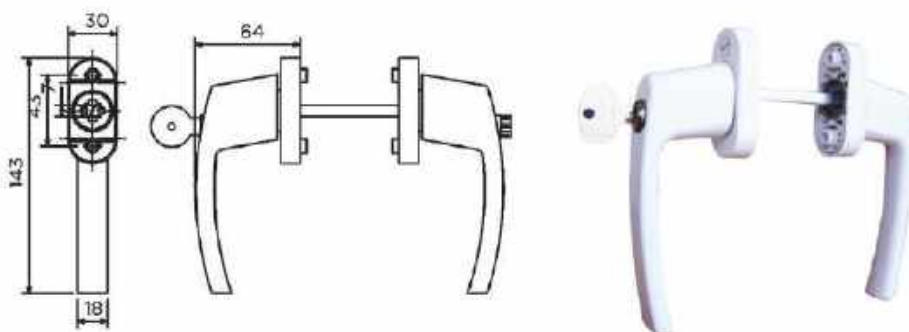
Double Handle With One Side Key Sash

CODE : 1126S



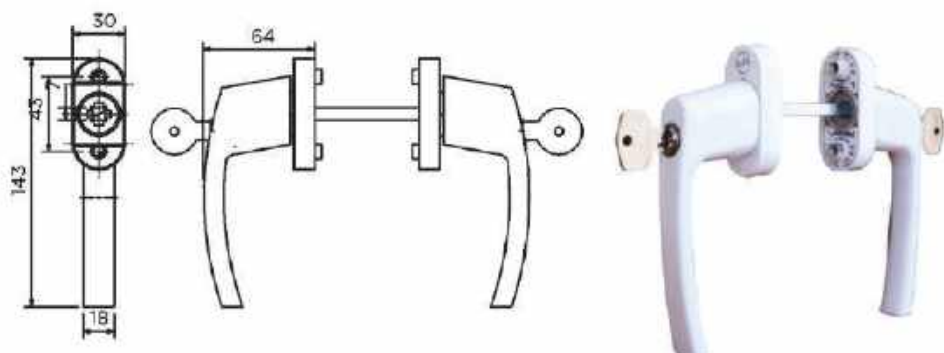
Double Handle With One Side Key One Side Knob

CODE : 1127



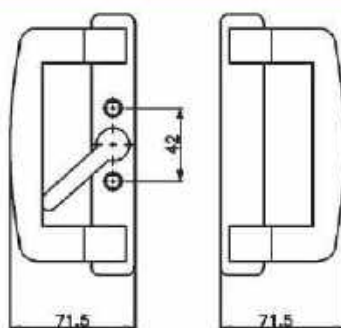
Double Handle With Both Side Keys

CODE : 1128



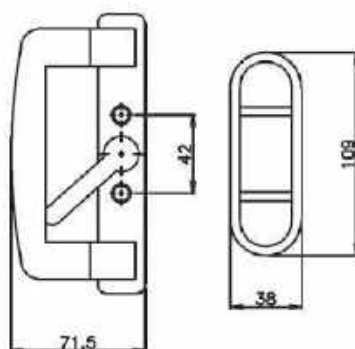
Dummy D Handle Non-Lockable

CODE : 1129



Dummy D Handle With Mesh Provision

CODE : 1130



L-Key Handle

CODE : 1131



C Handle

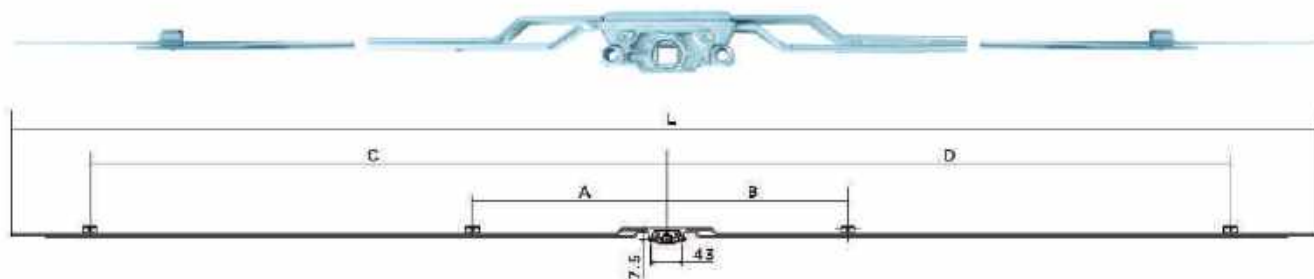
CODE : 1115



U Handle

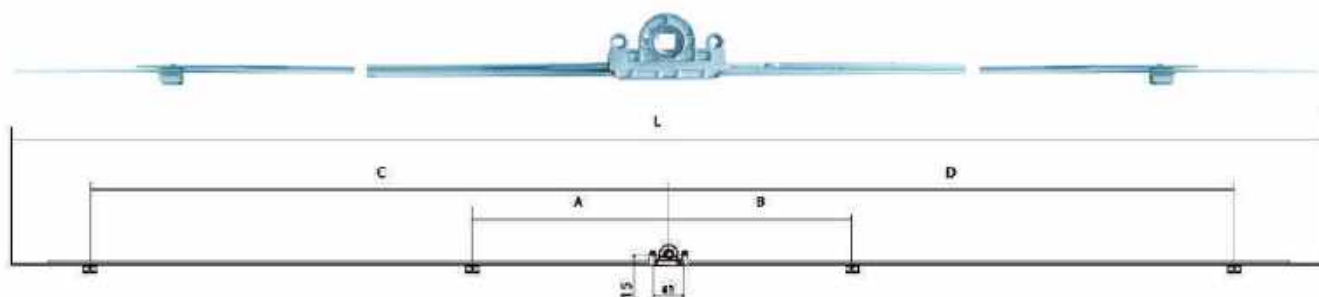
CODE : 1116





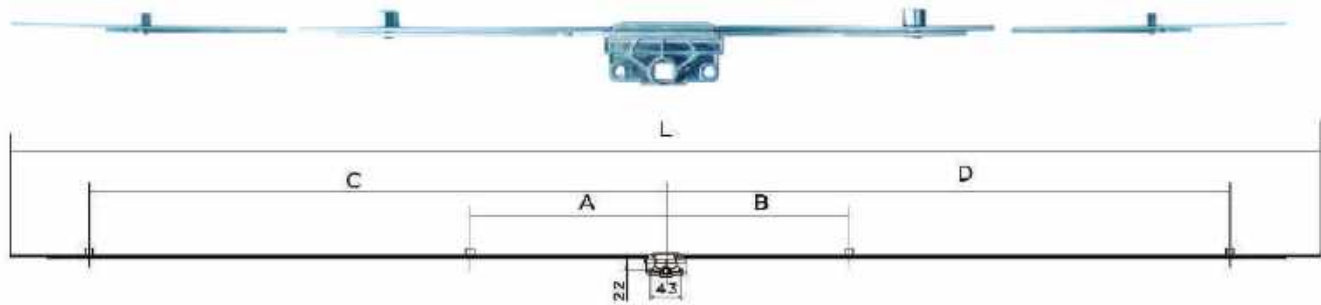
7.5mm BS Sliding Espag

Product Code	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	
7508	800	-	-	290	272	2
7510	1000	-	148	390	372	3
7512	1200	-	148	490	472	3
7514	1400	166	48	590	572	4
7516	1600	231	213	690	672	4
7518	1800	266	248	790	772	4
7520	2000	286	268	890	872	4



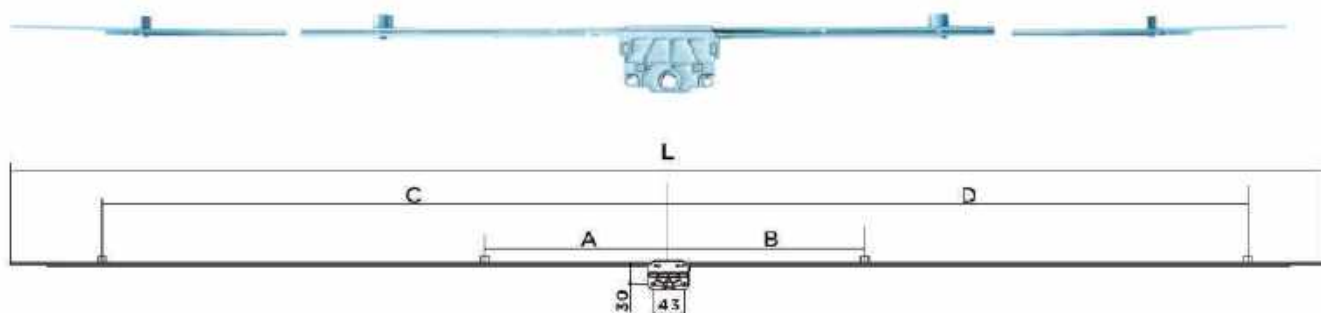
15mm BS Sliding Espag

Product Code	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	
1512	1200	-	151	493	475	3
1514	1400	169	151	593	575	4
1516	1600	234	216	693	675	4
1518	1800	269	251	793	775	4
1520	2000	289	271	893	875	4



22mm BS Casement Espag

Product Code	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	
2240	400	-	-	136	118	2
2260	600	-	-	193	175	2
2280	800	-	-	293	275	2
2210	1000	-	151	393	375	3
2212	1200	-	151	493	475	3
2214	1400	169	151	593	575	4
2216	1600	234	216	693	675	4
2218	1800	269	251	793	775	4

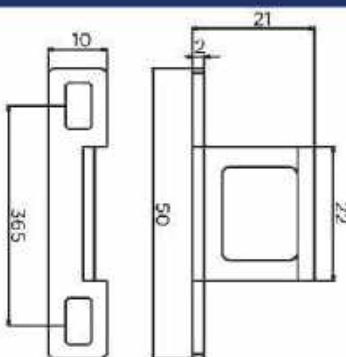


30mm BS Casement Espag

Product Code	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	
3014	1400	169	151	593	575	3
3016	1600	234	216	693	675	4
3016	1800	269	251	793	775	4

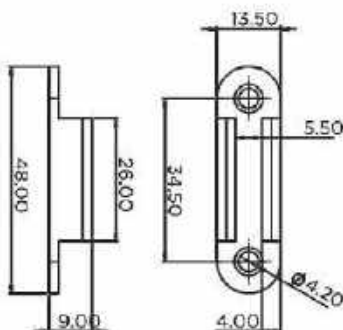
SS Keep

CODE : 3001



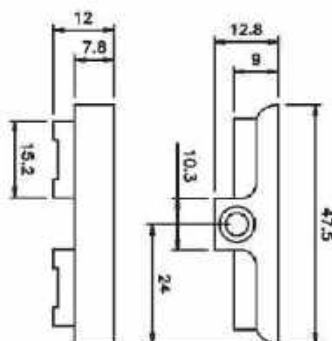
Sliding Striker

CODE : 3003



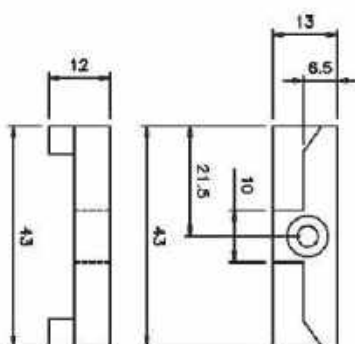
Casement Striker - 9mm Axis

CODE : 3005



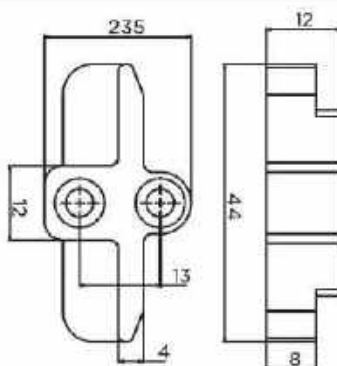
Casement Striker - 13mm Axis

CODE : 3006



Casement Striker - 22mm Axis

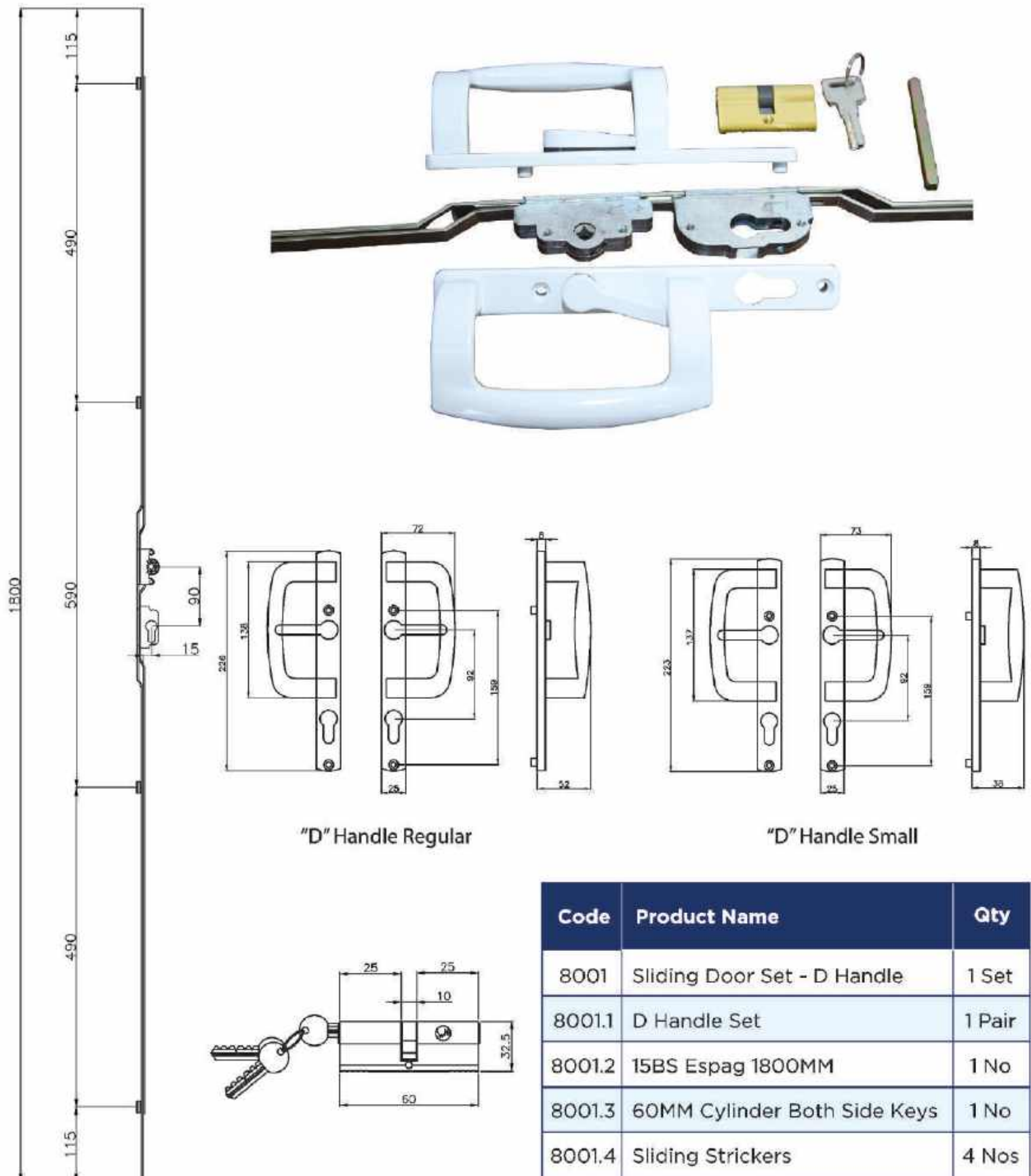
CODE : 3007





Sliding Door Set - D Handle

CODE : 8001



"D" Handle Regular

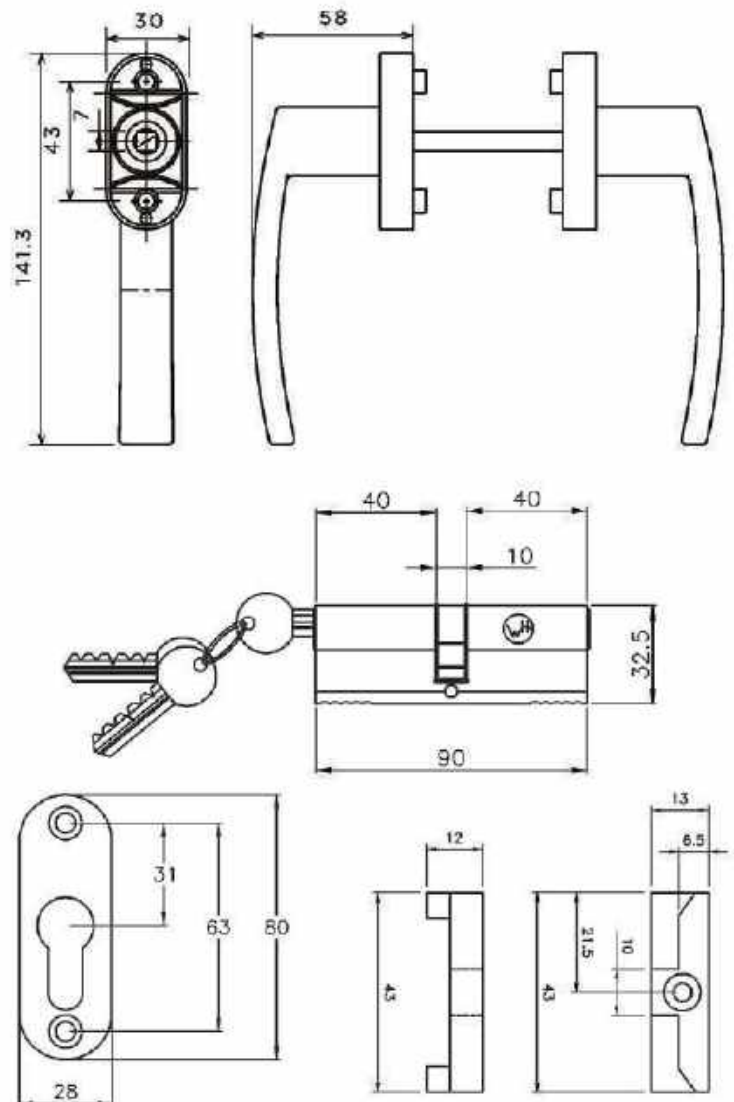
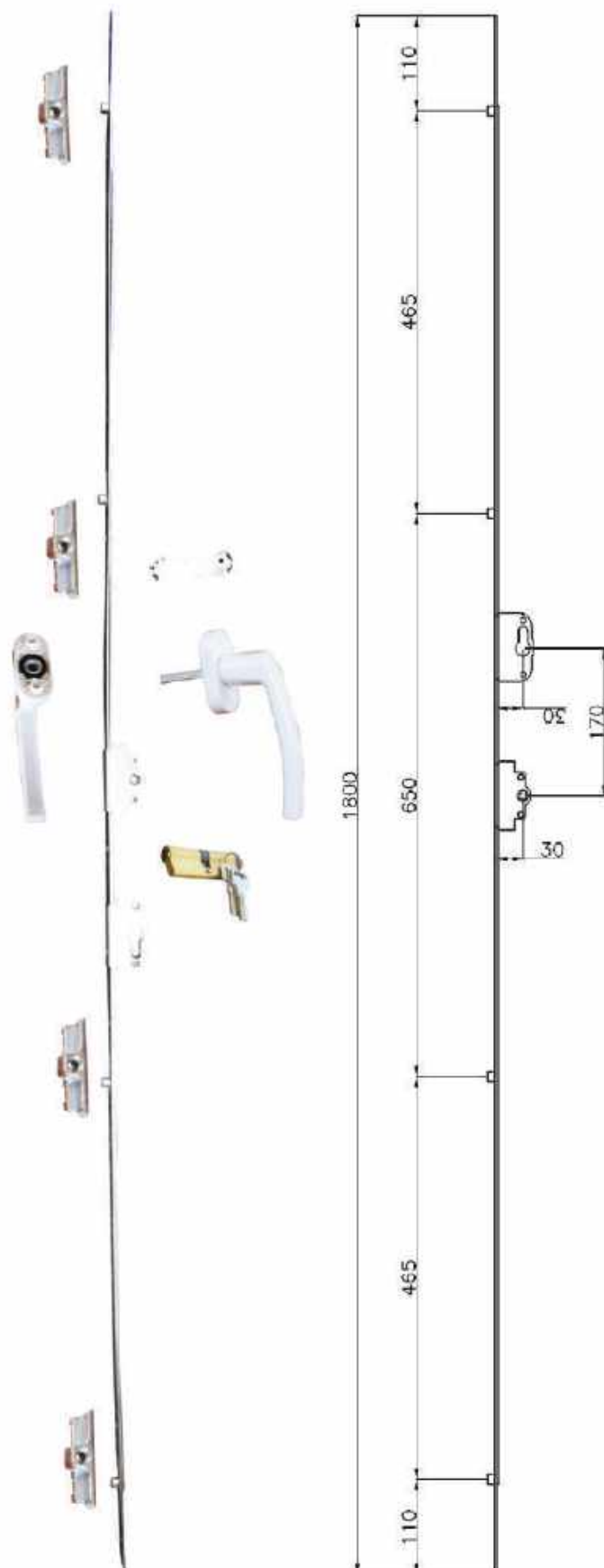
"D" Handle Small

Code	Product Name	Qty
8001	Sliding Door Set - D Handle	1 Set
8001.1	D Handle Set	1 Pair
8001.2	15BS Espag 1800MM	1 No
8001.3	60MM Cylinder Both Side Keys	1 No
8001.4	Sliding Strickers	4 Nos



Casement Door Set - Regular

CODE : 8002



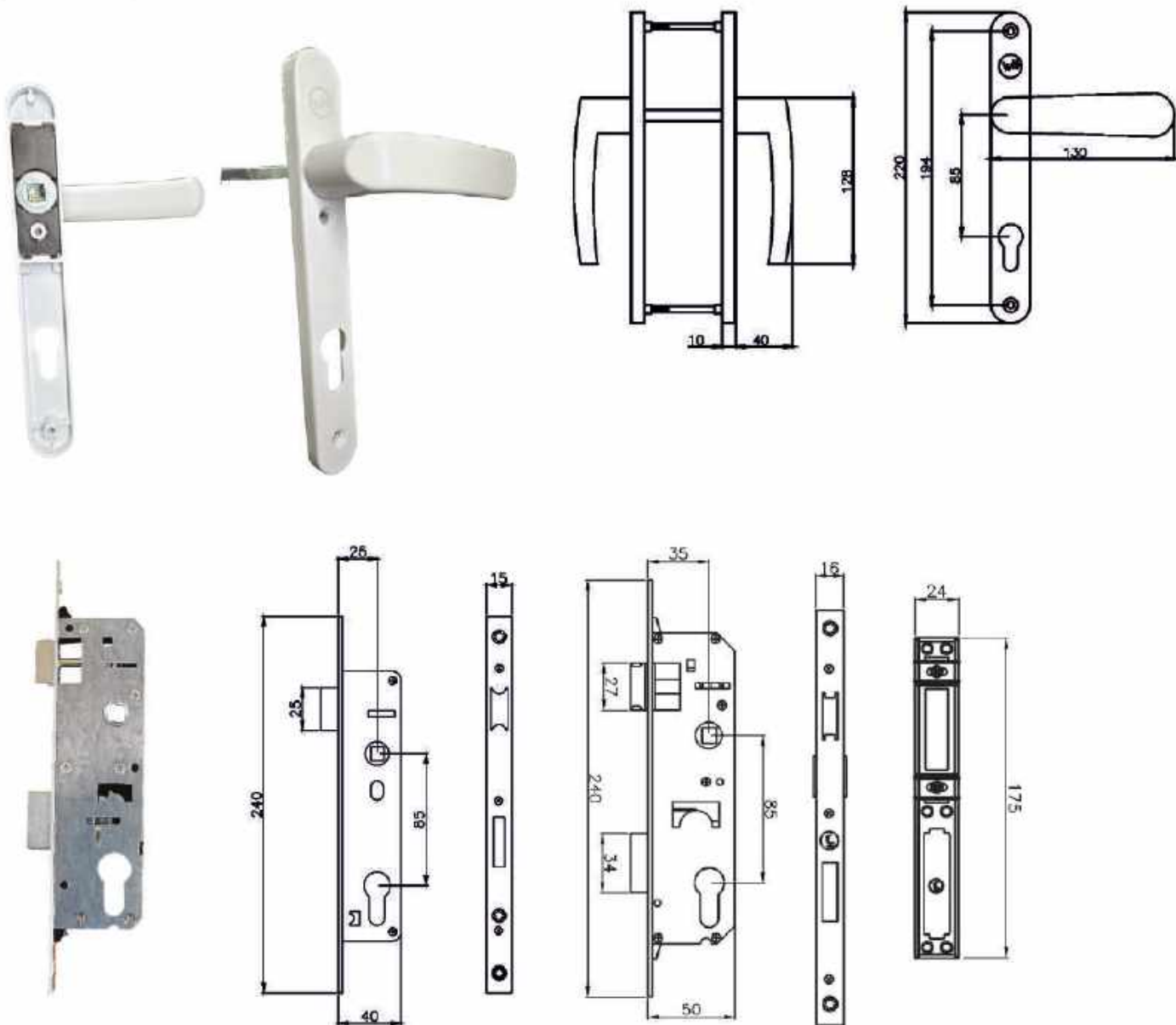
Code	Product Name	Qty
8002	Casement Door Set - Regular	1 Set
8002.1	Casemet Handle	1 Pair
8002.2	30BS Espag 1800MM	1 No
8002.3	90MM Cylinder Both Side keys	1 No
8002.4	Casement Strickers	4 Nos
8002.5	Cylinders Caps	2 Nos



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Mortise Lock

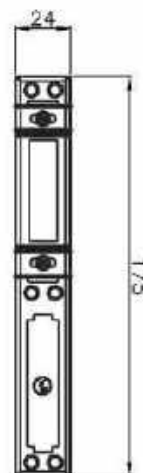
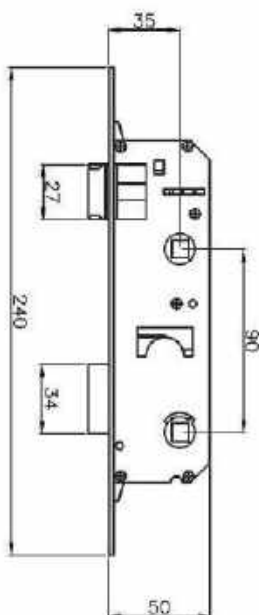
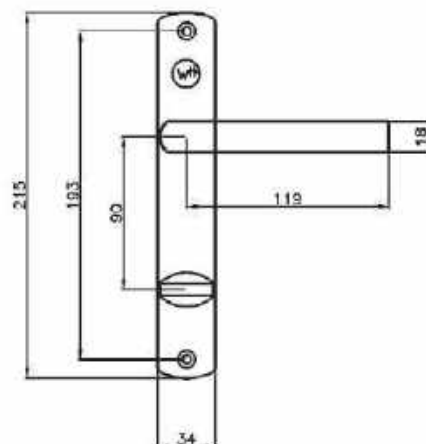
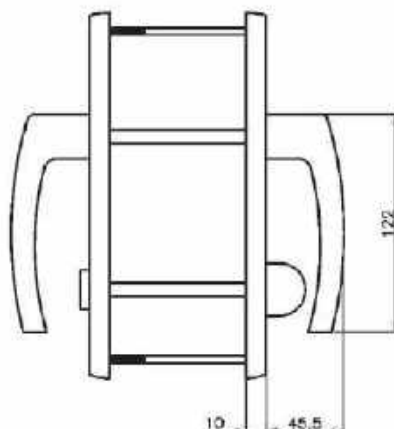
CODE : 8004



Code	Product Name	Qty
8004	Mortise Lock	1 Set
8004.1	Handles	1 Pair
8004.2	Door Lock With Cylinder Hole	1 No
8004.3	Latch	1 No
8004.4	90mm Cylinder Both Side Keys	1 No

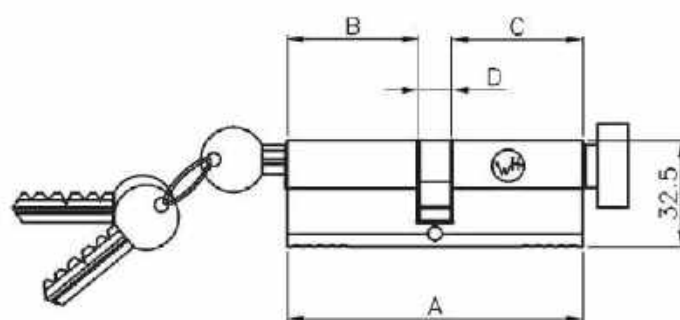
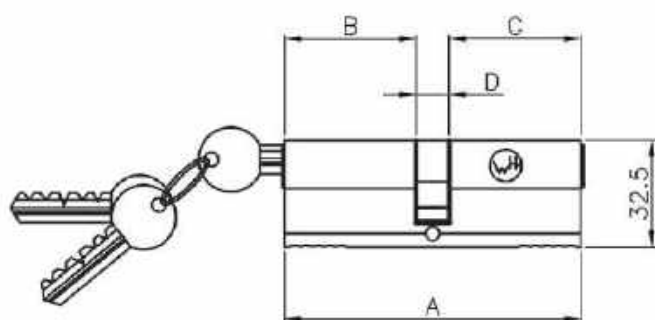
Bathroom Door Lock

CODE : 8005



Code	Product Name	Qty
8005	Bathroom Door Lock	1 Set
8005.1	Handles	1 Pair
8005.2	Bathroom Door Lock Centre Body	1 No
8005.3	Latch	1 No

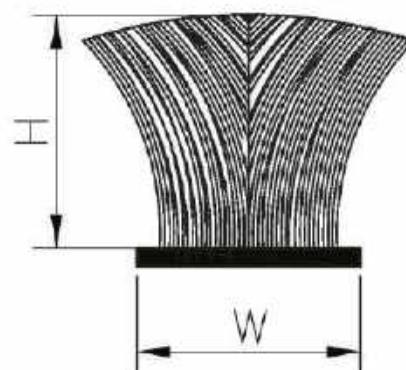
Cylinder



Code	Product Name	A	B	C	D
8006	60MM Cylinder Both Side Keys	60	25	25	10
8007	60MM Cylinder One Side Key One Side Knob	60	25	25	10
8008	90MM Cylinder Both Side Keys	90	40	40	10
8009	90MM Cylinder One Side Key One Side Knob	90	40	40	10
8009A	90MM Cylinder Both Side Keys	90	45	35	10

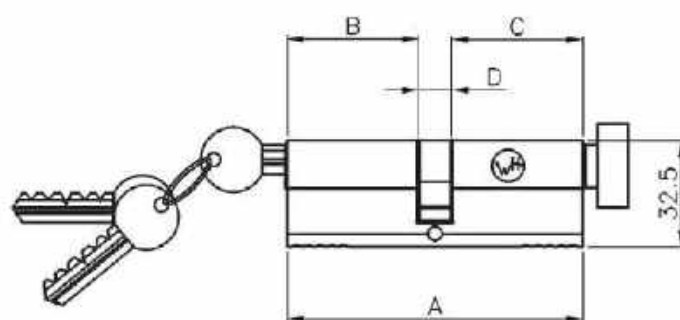
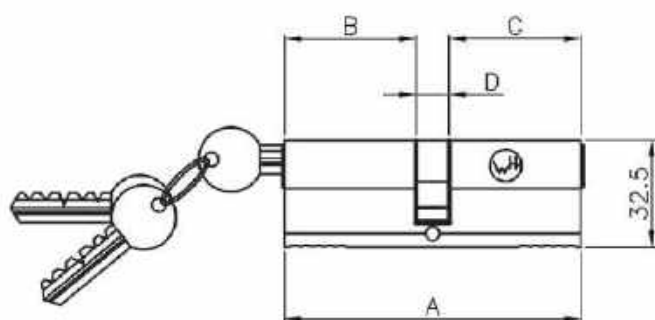
Wool Pile WH

CODE : 1161



WIDTH	4.8	5.8	6.0	6.8	6.0	6.8
HEIGHT	6.0	6.0	6.0	6.0	10	10

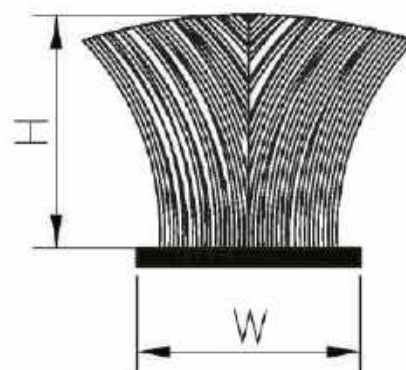
Cylinder



Code	Product Name	A	B	C	D
8006	60MM Cylinder Both Side Keys	60	25	25	10
8007	60MM Cylinder One Side Key One Side Knob	60	25	25	10
8008	90MM Cylinder Both Side Keys	90	40	40	10
8009	90MM Cylinder One Side Key One Side Knob	90	40	40	10
8009A	90MM Cylinder Both Side Keys	90	45	35	10

Wool Pile WH

CODE : 1161

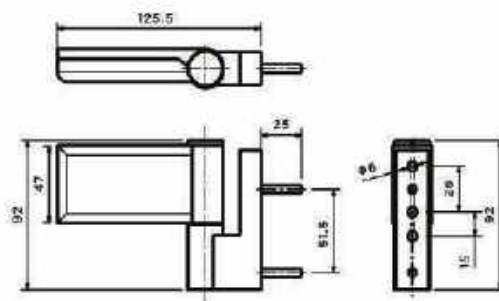


WIDTH	4.8	5.8	6.0	6.8	6.0	6.8
HEIGHT	6.0	6.0	6.0	6.0	10	10

3D Hinge

WEIGHT CAPACITY : 120 KG/PAIR

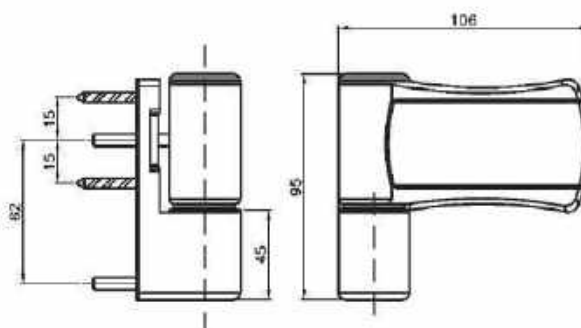
CODE : 9001



3D Door Hinge Eco

WEIGHT CAPACITY : 125 KG/PAIR

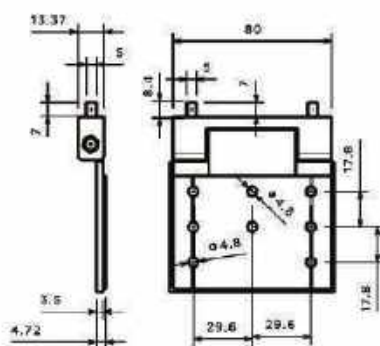
CODE : 9002



2D Hinge

WEIGHT CAPACITY : 40 KG/PAIR

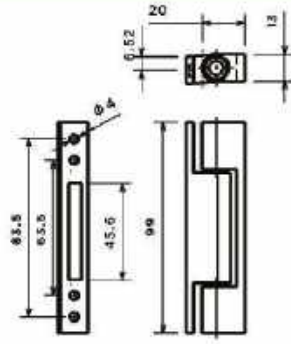
CODE : 9003



Butt Hinge Small - 75mm

WEIGHT CAPACITY : 40 KG/PAIR

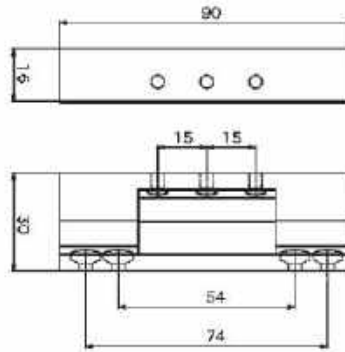
CODE : 9004



Butt Hinge Large - 90mm

WEIGHT CAPACITY : 60 KG/PAIR

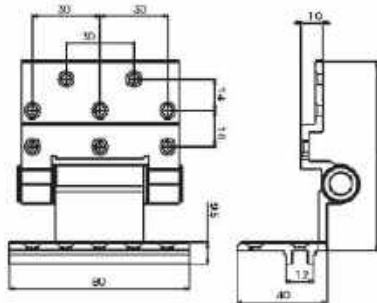
CODE : 9005



Concealed Hinge Small - 75mm

WEIGHT CAPACITY : 60 KG/PAIR

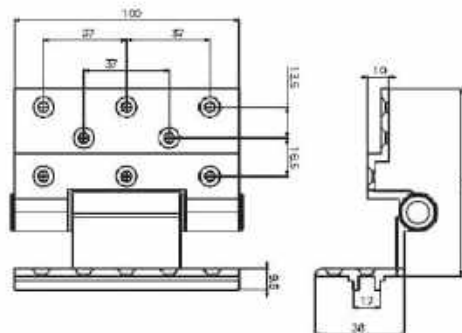
CODE : 9006



**Concealed Hinge
Large - 100mm**

WEIGHT CAPACITY : 80 KG/PAIR

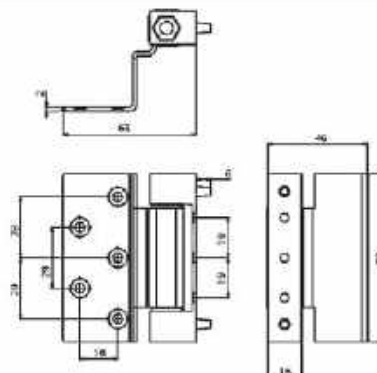
CODE : 9007

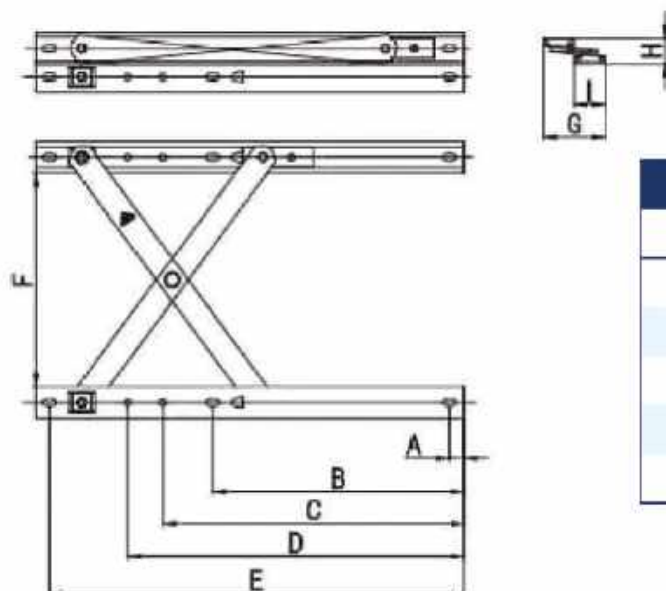


L Hinge

WEIGHT CAPACITY : 40 KG/PAIR

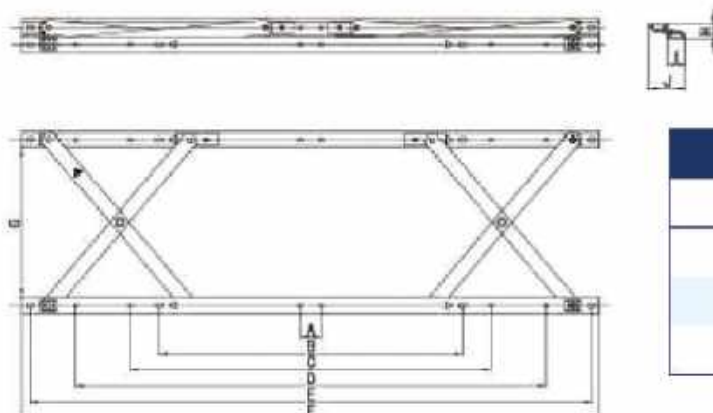
CODE : 9008



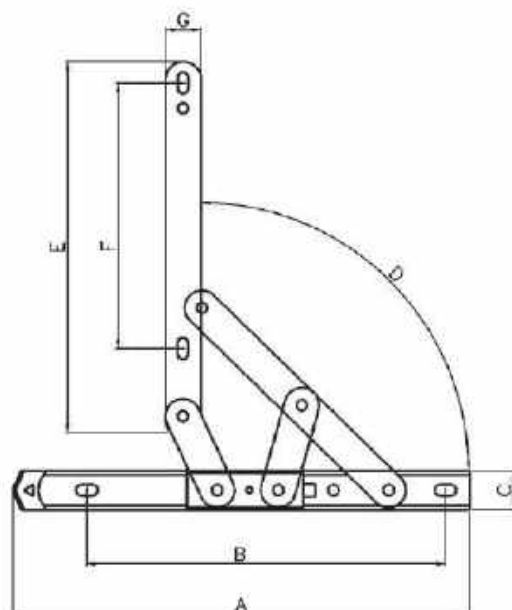


Installatin Size (mm)									
ITEM	A	B	C	D	E	F	G	I	H
4012P	10	176	211	235.5	290.5	150	44	22	18-20
4014P	10	184	219	285.5	340.5	180	44	22	18-20
4016P	10	164	199	335.5	390.5	180	44	22	18-20
4018P	10	154	189	365.5	440.5	180	44	22	18-20
4020P	10	144	179	435.5	490.5	180	44	22	18-20

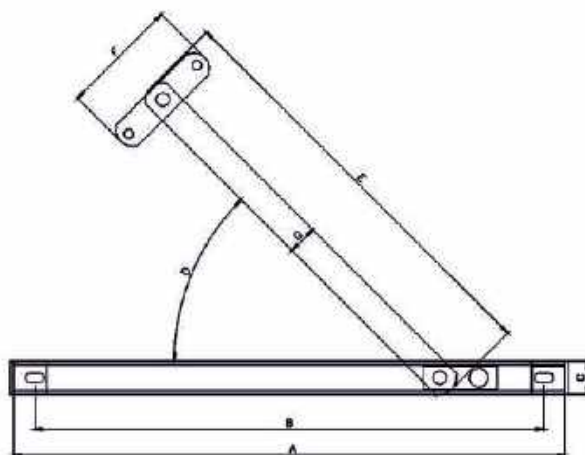
Note : Max Window Height: 700mm
Max Window Width : 1000mm
Max Window weight: 40kgs



Installatin Size (mm)									
ITEM	A	B	C	D	E	F	G	I	H
4024P	25	354	424	471	580	600	150	22	18-20
4028P	25	368	438	571	681	700	180	22	18-20
4032P	25	328	398	671	781	800	180	22	18-20

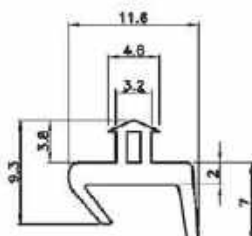


Code	Size (A)		(B)	Frame Width (C)	Opening Degree (D)	(E)	(F)	(G)	Thickness	Wt Capacity	Stack Height
4008	8"	209	165	18MM	80°	170	120	15.5	2.0	15	15MM
4010	10"	268	225	18MM	90°	204	155	15.5	2.0/2.5	17	15MM
4012	12"	311	267	18MM	90°	226	175	15.5	2.0/2.5	20	15MM
4014	14"	365	318	18MM	90°	258	210	15.5	2.0/2.5	24	15MM
4016	16"	405	357	18MM	90°	258	210	15.5	2.5	26	15MM
4018	18"	457	412	18MM	90°	258	210	15.5	2.5	29	15MM
4020	20"	503	460	18MM	85°	355	310	15.5	3.0	35	15MM
4024	24"	602	560	18MM	85°	380	335	15.5	3.0	43	15MM

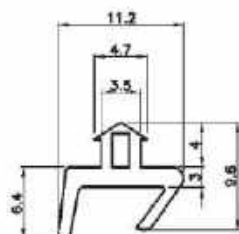


SIZE	A	B	FRAME WITH (C)	OPENING DEGREE (D)	E	F	G	THICKNESS	STACK HEIGHT
8"	203	180	18.5	90*	132.5	64	16	2	15
10"	254	230	18.5	90*	184	64	16	2	15
12"	305	282	18.5	90*	228	64	16	2	15
14"	356	335	18.5	90*	284	64	16	2	15

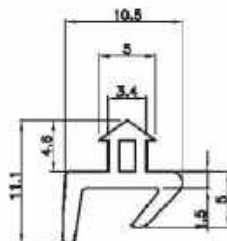
NOTE : ALL SIZE IN MM



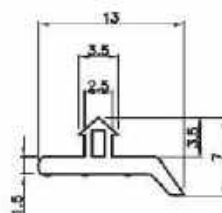
K-TYPE 2MM
CODE : 1401A



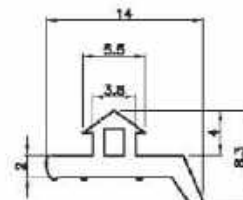
K-TYPE 3MM
CODE : 1401



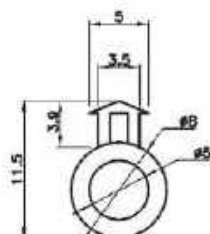
SIMTA
CODE : 1402



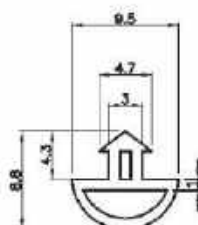
L-TYPE Small
CODE : 1403



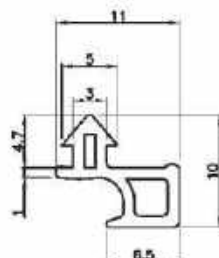
L-TYPE BIG
CODE : 1404



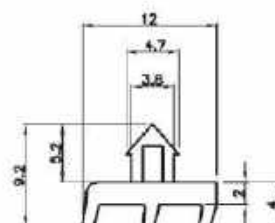
O-TYPE
CODE : 1405



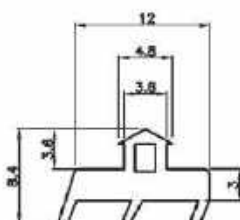
D-TYPE
CODE : 1406



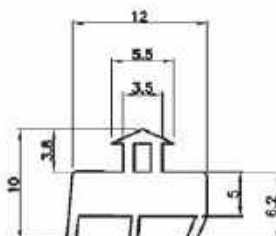
LG-TYPE
CODE : 1407



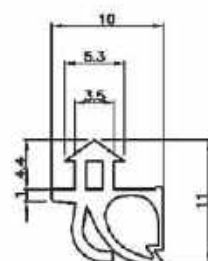
B-TYPE 2MM
CODE : 1419



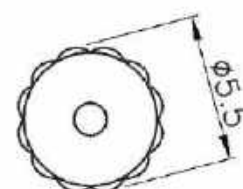
E-TYPE 3MM
CODE : 1420



E-TYPE 5MM
CODE : 1421

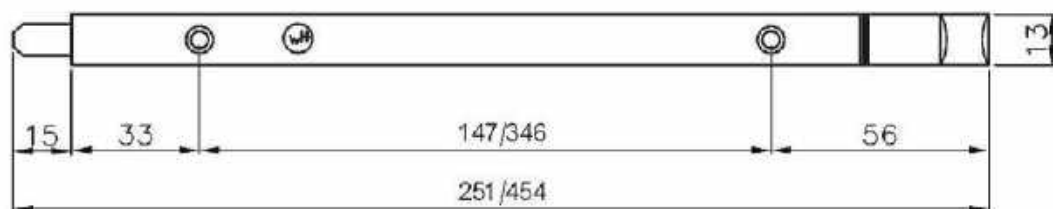


KOMERLING
CODE : 1422



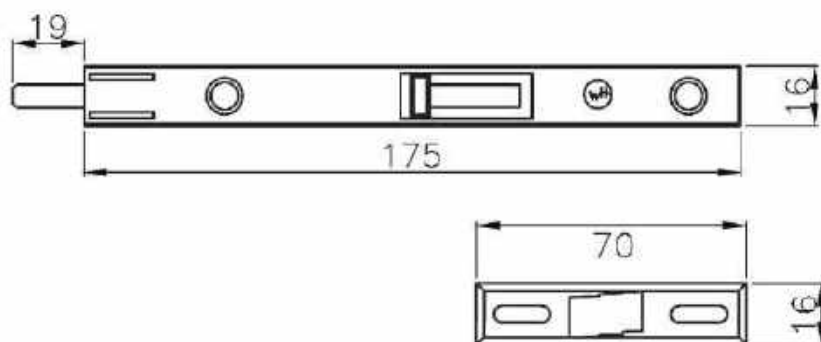
Shoot Bolt For Door (Powder Coated) 9.5"/18" Length

CODE : 2803 / 2803B



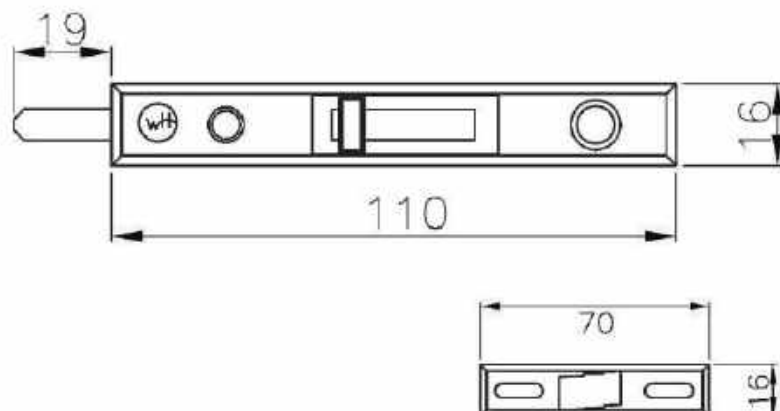
Shoot Bolt For Door (Zinc Coated)

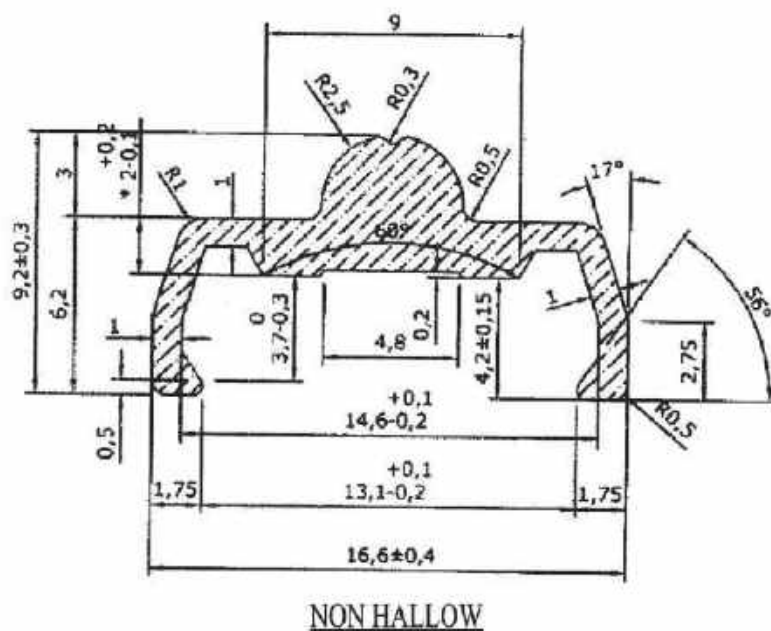
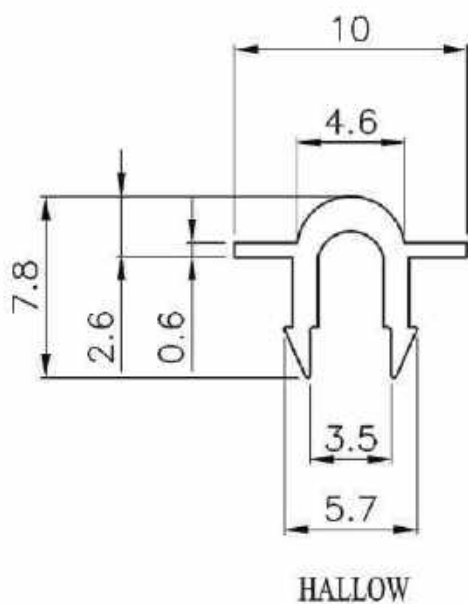
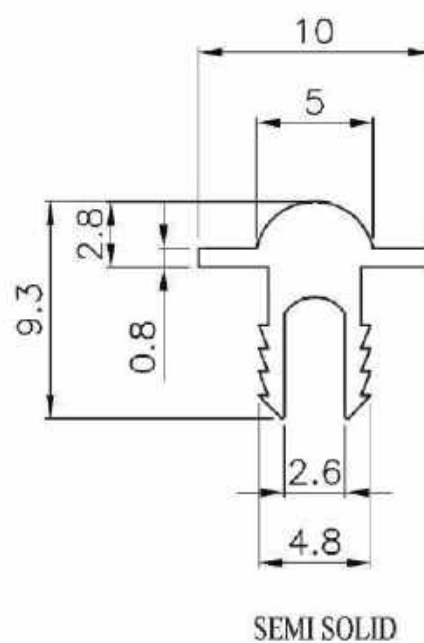
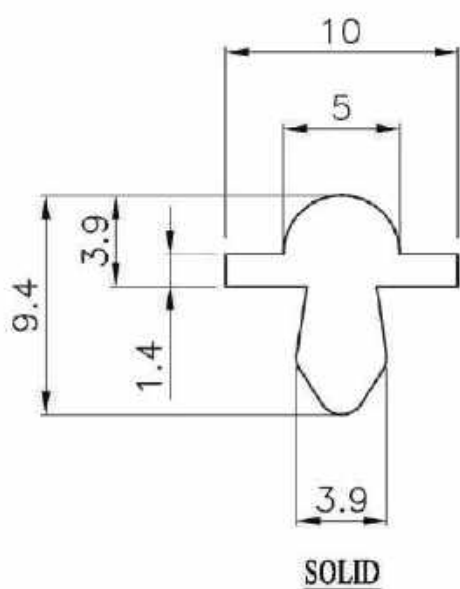
CODE : 2805



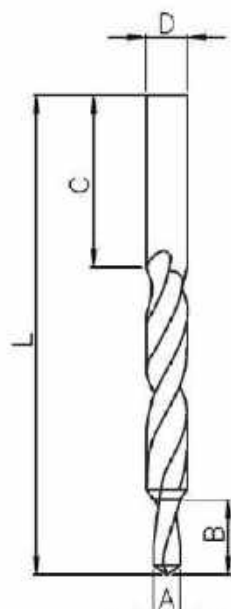
Shoot Bolt For Window (Zinc Coated) 5" Length

CODE : 2806

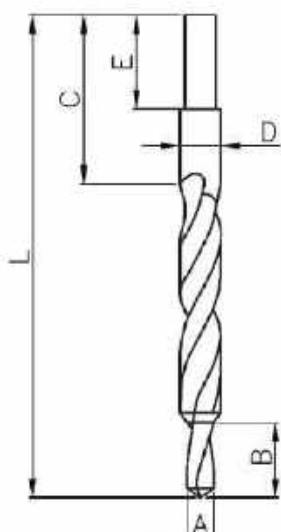




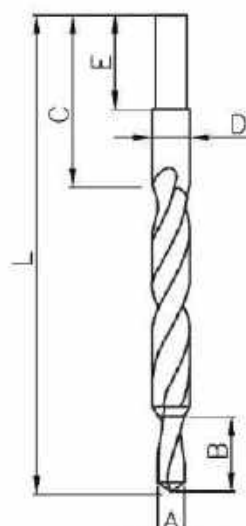
Drill Bit 8/13mm (8x13x150)



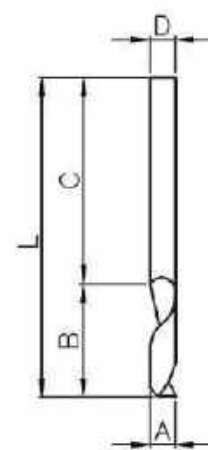
CODE:2816



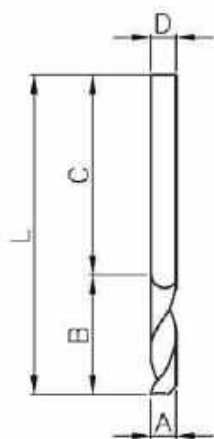
CODE:2816A



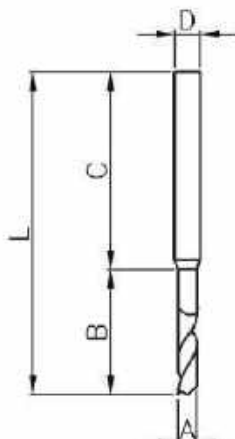
CODE:2816C



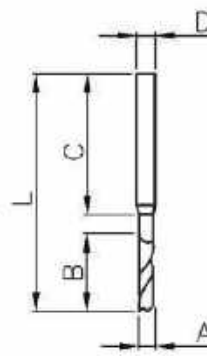
CODE:2817



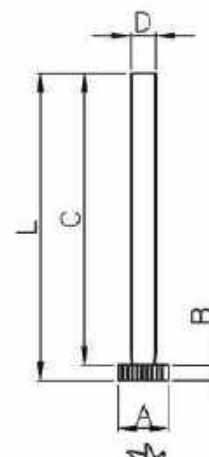
CODE:2818



CODE:2818B



CODE:2819



CODE:2820

Code	Size (A)	(B)	Frame Width (C)	L	A	B	C	D	E
2816	Drill Bit 8/13mm (8x13x150)			150	8	24	55	13	-
2816A	Step Drill Bit 8/13mm (8x12x150)			150	8	24	54	13	30
2816C	Step Drill Bit 8/12mm (8x12x150)			150	8	24	54	12	30
2817	Routing Bit 6mm (6x100)			100	6	32	68	6	-
2818	Routing Bit 8mm (8x100)			100	8	34	66	8	-
2818B	Routing Bit 8mm Step (8x100)			100	6	40	60	8	-
2819	Drainage bit (6x75)			75	4	25	45	6	-
2820	Star Water Slot Bit			100	16	5	95	8	-



Frame Fixing Fasteners : 8x60

Frame Fixing Fasteners : 8x80

Frame Fixing Fasteners : 8x100

Frame Fixing Fasteners : 10x100

Frame Fixing Fasteners : 10x120

Frame Fixing Fasteners : 10x140

Frame Fixing Fasteners : 10x160



CSK Self Drilling Screws 3.9x13

CSK Self Drilling Screws 3.9x16

CSK Self Drilling Screws 3.9x19

CSK Self Drilling Screws 3.9x25

CSK Self Drilling Screws 3.9x32

CSK Self Drilling Screws 3.9x38

CSK Self Drilling Screws 4.2x50

CSK Self Drilling Screws 4.2x60

CSK Self Drilling Screws 4.2x75



PAN Head Self Drilling Screws 4x16

PAN Head Self Drilling Screws 4x19

PAN Head Self Drilling Screws 4x25

PAN Head Self Drilling Screws 4x32

PAN Head Self Drilling Screws 4x38

PAN Head Self Drilling Screws 4x50

PAN Head Self Drilling Screws 4x60

PAN Head Self Drilling Screws 4x75



CSK Self Tapping Screws 3.9x13

CSK Self Tapping Screws 3.9x16

CSK Self Tapping Screws 3.9x19

CSK Self Tapping Screws 3.9x25

CSK Self Tapping Screws 3.9x32

CSK Self Tapping Screws 3.9x38

CSK Self Tapping Screws 4.2x50

CSK Self Tapping Screws 4.2x60

CSK Self Tapping Screws 4.2x75



PAN Head Self Tapping Screws 4x13

PAN Head Self Tapping Screws 4x16

PAN Head Self Tapping Screws 4x19

PAN Head Self Tapping Screws 4x25

PAN Head Self Tapping Screws 4x32

PAN Head Self Tapping Screws 4x38

PAN Head Self Tapping Screws 4x50

PAN Head Self Tapping Screws 4x60

PAN Head Self Tapping Screws 4x75

SS Mesh



SS Mesh (0.25mm)	2.5x50 (125 Feet)
SS Mesh (0.25mm)	3.0x50 (150 Feet)
SS Mesh (0.25mm)	3.5x50 (175 Feet)
SS Mesh (0.25mm)	4.0x50 (200 Feet)
SS Mesh (0.25mm)	5.0x50 (250 Feet)
SS Mesh (0.19mm)	3.0x100 (300 Feet)
SS Mesh (0.19mm)	4.0x100 (400 Feet)
SS Mesh (0.19mm)	5.0x100 (500 Feet)

Aluminium Mesh



Aluminium Mesh	2.5x100 (250 Feet)
Aluminium Mesh	3.0x 100 (300 Feet)
Aluminium Mesh	3.5x100 (350 Feet)
Aluminium Mesh	4.0x100 (400 Feet)
Aluminium Mesh	5.0x100 (500 Feet)
Aluminium Mesh	14x14 - 3.0x100 (300 Feet)
Aluminium Mesh	14x14 - 4.0x100 (400 Feet)
Aluminium Mesh	14x14 - 5.0x100 (500 Feet)
Aluminium Mesh Black	18x16 - 3.0x100 (300 Feet)
Aluminium Mesh Black	18x16 - 4.0x100 (400 Feet)
Aluminium Mesh Black	18x16 - 5.0x100 (500 Feet)

Nylon Mesh



Nylon Mesh	3.0x100 (300 Feet)
Nylon Mesh	4.0x100 (400 Feet)
Nylon Mesh	5.0x100 (500 Feet)



Corner Cleaning Machine

CODE : 8801



Internal Cleaning (Inner) Machine

CODE : 8802



External Cleaning (Outer) Machine

CODE : 8803



Water Slot Hand Tool 45°

CODE : 8804



Water Slot Hand Tool 0°

CODE : 8805



Water Slot Hand Tool 90°

CODE : 8808



Portable Welding Machine

CODE : 8806



Top & Bottom Cleaning Tool

CODE : 8807



Interlock Punching Tool

CODE : 8809



Gasket Mesh Tool

CODE : 2837



Moon Knife

CODE : 2846



Air Block Gun

CODE : 2850



Digital Measuring Meter

CODE : 2857



V Cutter

CODE : 2863



Angle Cutter

CODE : 2864



Thermocouple

CODE : 2865



Corner Cleaning Hand Tool

CODE : 2868



Heating Plate

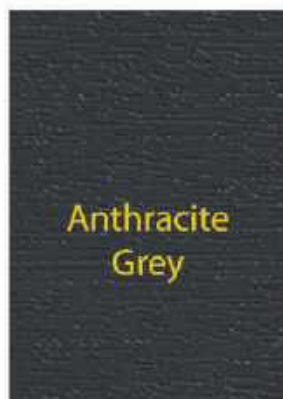
CODE : 9999

Touch Pens

CODE : 2410



(Available in five colours)



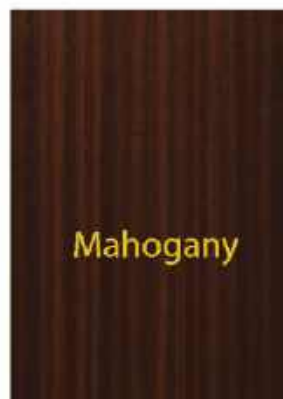
Anthracite
Grey



Dark oak



Golden Oak



Mahogany



Walnut





Fastner Cap

CODE : 2301



Window Spacer

CODE : 2308



Door Spacer

CODE : 2309



Fixed Louvers

CODE : 2315



Bump Stopper

CODE : 2320



Anti lift Block

CODE : 2325



U Packers

CODE : 2329



Glass Packer

CODE : 2338



Mesh Stopper

CODE : 2351



Bump Stopper Small

CODE : 2020S



Sash Stopper

CODE : 2318



Cavity Lift Block

CODE : 2342



Drainage Cap

CODE : 2305



I Type Mesh Handle

CODE : 2344



Antilift Block - L Type

CODE : 2352



Movable Louvers

CODE : 2859



Casement Wedge

CODE : 2311



Sliding Sash Stopper

CODE : 2345





 JYOTHI SPECTRO ANALYTICAL		Document No: JSA/1119/28 Nov 2023 Doc. 01.01.02.03	
TEST REPORT			
Work Order No. :	JA-28-01299	Work Order Issue :	15-01-2023
Lab No. :	40875	Test Report Date :	15-01-2024
Test Report No. :	71345	Sample Received on :	12-01-2023
Extension Paper & Findings M/S. VIKALGICAL INDUSTRIES VIKALGICAL INDUSTRIES, TADURAI, P.O. NO. 22, SIDDHAPET KULDEBAPUR, COIMBATORE-641002		Tested Date :	12-01-2023
		Set up by User By :	Paty
TESTS Specification : AS 430 Test : CHEMICAL ANALYSIS Identification : 16494 (COINTEGRATED) AS 430 Sample Received At : TEST LAB/02		Ref. No. : 15-01-2024	
1. Summary			
1.1. ITEM & ALLOYS			
CHEMICAL ANALYSIS		Test Method : IS-229 (2007) V0202.002	
Customer : M/s. Pradyumn CO-229			
	Result	Acceptance Limit	
C	0.004	0.139 ppm	
Pb	0.01	1.00 ppm	
As	0.00	0.00 ppm	
Se	0.01	0.00 ppm	
Si	0.01	1.00 ppm	
Ag	0.00	10.00 ppm	
Approved By:			
Reviewed By:			
 Checked By		 Authorized Signatory M. Pradyumn CO-229	

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JYOTHI SPECTRO ANALYTICAL PVT LTD.
 A-38, SHI. BALARANGA HYDERABAD, 500035.
 Website : www.jyothispectro.com
 Email : info@jyothispectro.com, sales@jyothispectro.com, marketing@jyothispectro.com
 Registered by: Dept. of Metrology, Government of India, New Delhi, India. (C-18, 2014)

 KARNATAKA TEST HOUSE PVT. LTD. MATERIAL TESTING LABORATORY # 77/144, 2nd & 3rd Stage, 2nd Phase, 8th Cross, 17th Main Road, Hebbalpur, Bangalore - 560 024, Tel: +91 80 26315 31, 31783329 E-mail: kthb@grat.com Website: www.karnatakatesthouse.com				
Report No: KTHB/1273-1996-2023		Date: 06/02/2023		
CHEMICAL TEST REPORT ON MHR				
Name of the Customer :	M/s. Winchard Hardware Industries 6007, Eagle Village, Pongalur Farm, Kozhikode, Kerala - 686 061.			
Source of Sample :	Supplied by Customer			
Name of Sample :	Iron			
Sample Identification No. :	SS 194-MSI			
Customer Reference :	Letter dated 26.05.2022			
Sample Received on :	10.01.2023			
Place of Test :	M/s. Maxco Laboratories, Bangalore.			
CHEMICAL ANALYSIS :				
Sl. No	Chemical Constituents	Results	Max. Limits as per Specification of IS 4700:2001 Grade of ASTM A270-A279 M-17	Test used reference
1.	Carbon (C) %	0.027	0.095	IS 4700:2001 (RA-2018)
2.	Manganese (Mn) %	0.248	0.30	
3.	Silicon (Si) %	0.297	0.30	
4.	Sulphur (S) %	0.023	0.030	
5.	Phosphorus (P) %	0.037	0.047	
6.	Chromium (Cr) %	0.418	16.00-20.00	
7.	Nickel (Ni) %	0.443	0.10-0.43	
The Chemical Composition of the tested sample conforms to S20-000241 Grade of ASTM A270/A279 M-17. * As furnished by the Customer				
For KARNATAKA TEST HOUSE PVT. LTD.  Reviewed & Approved by (MANULA R) TECHNICAL MANAGER				
Notes : 1. This report is valid for experimental use only. Self-inspection and proper operation is necessary. 2. The results listed refer only to the tested material and are applicable dimensions.				
*** End of Report ***				

 JYOTHI SPECTRO ANALYTICAL	TEST REPORT																																
Work Order No. : JSA-22-0036 Lab No. : H471 Test Report No. : 67/88	Work Order Date : 28-12-2022 Test Report Date : 27-12-2022																																
Customer Name & Address : M/S. WINDOSOL MANUFACTURING INDUSTRIES WINDOSOL MANUFACTURING INDUSTRIES, PONDICHERRY ROAD, KALAKATTAL, PONDICHERRY 605 002	Sample Received on : 26-12-2022 Tested Date : 27-12-2022 Sample Received by : Party																																
Art. No. : WINDOSOL 10000 Specification : IS-910 Method : CHEMICAL ANALYSIS Identification : IS-2011-2022 Sample Received As : TEST SAMPLE	Art. Desc. : 26-12-2022																																
1. METHOD: IS-11777																																	
CHEMICAL ANALYSIS																																	
Test Method: IS-2255/IS-2255/IS-2255																																	
Tested by: Mr. Sridharan, JSA-22-0036																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sl. No.</th> <th>Parameter</th> <th>Result</th> <th>Acceptance</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Moisture</td> <td>0.00</td> <td>0.00 % max</td> </tr> <tr> <td>02</td> <td>Acidity</td> <td>1.70</td> <td>3.00 max</td> </tr> <tr> <td>03</td> <td>Alkalinity</td> <td>2.00</td> <td>0.04 max</td> </tr> <tr> <td>04</td> <td>Cl- (ppm)</td> <td>0.00</td> <td>0.00 % max</td> </tr> <tr> <td>05</td> <td>SO₄ (ppm)</td> <td>0.10</td> <td>2.00 max</td> </tr> <tr> <td>06</td> <td>Fe (ppm)</td> <td>35.75</td> <td>17.00-18.00</td> </tr> <tr> <td>07</td> <td>Ca (ppm)</td> <td>0.10</td> <td>0.20-0.30</td> </tr> </tbody> </table>	Sl. No.	Parameter	Result	Acceptance	01	Moisture	0.00	0.00 % max	02	Acidity	1.70	3.00 max	03	Alkalinity	2.00	0.04 max	04	Cl- (ppm)	0.00	0.00 % max	05	SO ₄ (ppm)	0.10	2.00 max	06	Fe (ppm)	35.75	17.00-18.00	07	Ca (ppm)	0.10	0.20-0.30	
Sl. No.	Parameter	Result	Acceptance																														
01	Moisture	0.00	0.00 % max																														
02	Acidity	1.70	3.00 max																														
03	Alkalinity	2.00	0.04 max																														
04	Cl- (ppm)	0.00	0.00 % max																														
05	SO ₄ (ppm)	0.10	2.00 max																														
06	Fe (ppm)	35.75	17.00-18.00																														
07	Ca (ppm)	0.10	0.20-0.30																														
Remarks: REACTION OF SAMPLE WITH OTHERS WILL BE DONE TO CONFIRM THE RESULT.																																	
 Checked By  Authorized Signatory Mr. Sridharan																																	

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JYOTHI SPECTRO ANALYTICAL PVT. LTD. A. 96, BALAJIPAL, HYDRABAD-500016
 Mobile : 91-9-00462225/54/73, website : www.jyothispectro.com
 e-mail : jyothispectro@gmail.com, jyothispectro@yahoo.co.in, jyothispectro@rediffmail.com
 Accredited by: Association of Laboratories, 91 with Reg. No. 10087-20-10-22-2000

 JYOTHI SPECTRA ANALYSIS	TEST REPORT	Customer No. 0047 / 700732 New Delhi, 22-07-2023  
Work Order No. : 143A-22-30542 Lab No. : 143254 Test Report No. : 07115 Customer Name & Address M/S WINDESA INDUSTRIES WINDESA INDUSTRIES PVT. LTD., 10/10, 11/11, 12/12, 13/13, 14/14, 15/15, 16/16, 17/17, 18/18, 19/19, 20/20, 21/21, 22/22, 23/23, 24/24, 25/25, 26/26, 27/27, 28/28, 29/29, 30/30, 31/31, 32/32, 33/33, 34/34, 35/35, 36/36, 37/37, 38/38, 39/39, 40/40, 41/41, 42/42, 43/43, 44/44, 45/45, 46/46, 47/47, 48/48, 49/49, 50/50, 51/51, 52/52, 53/53, 54/54, 55/55, 56/56, 57/57, 58/58, 59/59, 60/60, 61/61, 62/62, 63/63, 64/64, 65/65, 66/66, 67/67, 68/68, 69/69, 70/70, 71/71, 72/72, 73/73, 74/74, 75/75, 76/76, 77/77, 78/78, 79/79, 80/80, 81/81, 82/82, 83/83, 84/84, 85/85, 86/86, 87/87, 88/88, 89/89, 90/90, 91/91, 92/92, 93/93, 94/94, 95/95, 96/96, 97/97, 98/98, 99/99, 100/100, 101/101, 102/102, 103/103, 104/104, 105/105, 106/106, 107/107, 108/108, 109/109, 110/110, 111/111, 112/112, 113/113, 114/114, 115/115, 116/116, 117/117, 118/118, 119/119, 120/120, 121/121, 122/122, 123/123, 124/124, 125/125, 126/126, 127/127, 128/128, 129/129, 130/130, 131/131, 132/132, 133/133, 134/134, 135/135, 136/136, 137/137, 138/138, 139/139, 140/140, 141/141, 142/142, 143/143, 144/144, 145/145, 146/146, 147/147, 148/148, 149/149, 150/150, 151/151, 152/152, 153/153, 154/154, 155/155, 156/156, 157/157, 158/158, 159/159, 160/160, 161/161, 162/162, 163/163, 164/164, 165/165, 166/166, 167/167, 168/168, 169/169, 170/170, 171/171, 172/172, 173/173, 174/174, 175/175, 176/176, 177/177, 178/178, 179/179, 180/180, 181/181, 182/182, 183/183, 184/184, 185/185, 186/186, 187/187, 188/188, 189/189, 190/190, 191/191, 192/192, 193/193, 194/194, 195/195, 196/196, 197/197, 198/198, 199/199, 200/200, 201/201, 202/202, 203/203, 204/204, 205/205, 206/206, 207/207, 208/208, 209/209, 210/210, 211/211, 212/212, 213/213, 214/214, 215/215, 216/216, 217/217, 218/218, 219/219, 220/220, 221/221, 222/222, 223/223, 224/224, 225/225, 226/226, 227/227, 228/228, 229/229, 230/230, 231/231, 232/232, 233/233, 234/234, 235/235, 236/236, 237/237, 238/238, 239/239, 240/240, 241/241, 242/242, 243/243, 244/244, 245/245, 246/246, 247/247, 248/248, 249/249, 250/250, 251/251, 252/252, 253/253, 254/254, 255/255, 256/256, 257/257, 258/258, 259/259, 260/260, 261/261, 262/262, 263/263, 264/264, 265/265, 266/266, 267/267, 268/268, 269/269, 270/270, 271/271, 272/272, 273/273, 274/274, 275/275, 276/276, 277/277, 278/278, 279/279, 280/280, 281/281, 282/282, 283/283, 284/284, 285/285, 286/286, 287/287, 288/288, 289/289, 290/290, 291/291, 292/292, 293/293, 294/294, 295/295, 296/296, 297/297, 298/298, 299/299, 300/300, 301/301, 302/302, 303/303, 304/304, 305/305, 306/306, 307/307, 308/308, 309/309, 310/310, 311/311, 312/312, 313/313, 314/314, 315/315, 316/316, 317/317, 318/318, 319/319, 320/320, 321/321, 322/322, 323/323, 324/324, 325/325, 326/326, 327/327, 328/328, 329/329, 330/330, 331/331, 332/332, 333/333, 334/334, 335/335, 336/336, 337/337, 338/338, 339/339, 340/340, 341/341, 342/342, 343/343, 344/344, 345/345, 346/346, 347/347, 348/348, 349/349, 350/350, 351/351, 352/352, 353/353, 354/354, 355/355, 356/356, 357/357, 358/358, 359/359, 360/360, 361/361, 362/362, 363/363, 364/364, 365/365, 366/366, 367/367, 368/368, 369/369, 370/370, 371/371, 372/372, 373/373, 374/374, 375/375, 376/376, 377/377, 378/378, 379/379, 380/380, 381/381, 382/382, 383/383, 384/384, 385/385, 386/386, 387/387, 388/388, 389/389, 390/390, 391/391, 392/392, 393/393, 394/394, 395/395, 396/396, 397/397, 398/398, 399/399, 400/400, 401/401, 402/402, 403/403, 404/404, 405/405, 406/406, 407/407, 408/408, 409/409, 410/410, 411/411, 412/412, 413/413, 414/414, 415/415, 416/416, 417/417, 418/418, 419/419, 420/420, 421/421, 422/422, 423/423, 424/424, 425/425, 426/426, 427/427, 428/428, 429/429, 430/430, 431/431, 432/432, 433/433, 434/434, 435/435, 436/436, 437/437, 438/438, 439/439, 440/440, 441/441, 442/442, 443/443, 444/444, 4		



WINDSEAL

HARDWARE | TOOLS | ACCESSORIES

FACTORY

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