



Kitemark
BS 3621



12209,1935
1906,179



CF 714
CF 5531



ANTI COR.
240 Hrs.



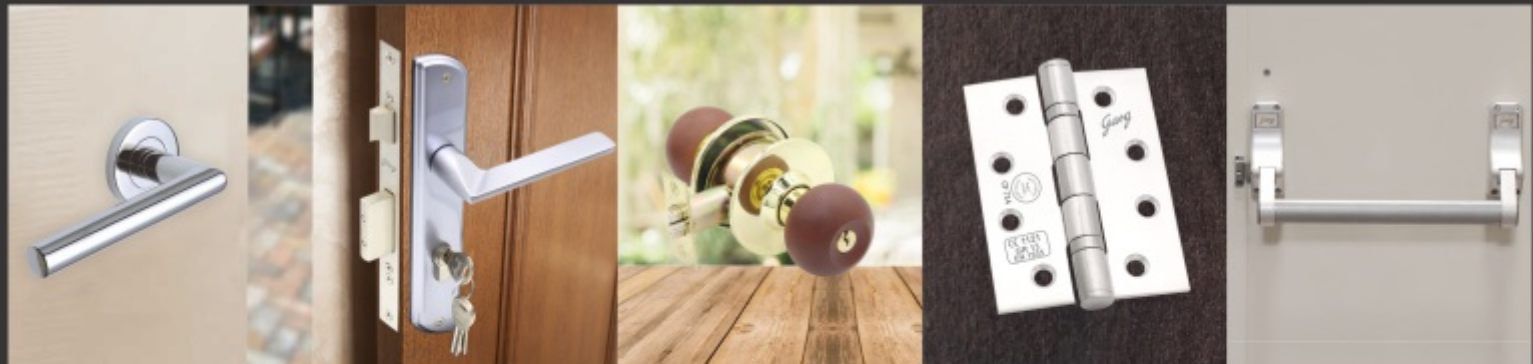
CE



FD 20,30,60
90,120,240



ISI



Architectural Hardware

Product Catalog | 2020 Vol. 04



In year 1948 the group foundation of the company was Laid by Late Mr. D.P. Garg, Founder Chairman of the company, thus started journey into the world of hardware trade as a trading company in Delhi. With his vision, dedication, commitment, business ethics and in-depth knowledge of products the company continued its steady growth into a big distribution house with big list of satisfied customers across length and breadth of the country.

In year 1972 Mr. D.P. Garg was joined by his dynamic and enterprising son Mr. S.M. Garg who like his father inherited the same traits and his wish for technical innovation continued the company's growth in 70's. In 78-79 the company sales reached a point where it became necessary for the company to set up its own production facility, a task that Late Mr. D.P. Garg entrusted to Mr. S.M. Garg. In year 1980, the first of group manufacturing facility was established and came into production, thus opening new horizons for companies future growth.



Some Milestones in Group's History :-

- + In 1948 Mr. D. P. Garg starts trading company which continues steady growth.
- + In 1972 his son Mr. S. M. Garg joins the company.
- + In 1978-79 the company sales reached a point where it became necessary for the company to set up its own production facility.
- + In 1980 D. P. Garg & Co. sets up their first production facility for manufacturing of door hinges.
- + **First time in India.** In 1991 The company starts SS hinge production and gets first ISI license in India for SS Hinges.
- + In 1992 Mr. S. M. Garg is appointed as a member of the ISI advisory committee.
- + In 1998 D.P. Garg & Company gets "ISO 9001:2000" certification.
- + In 1998 D.P. Garg & Company becomes a government recognized export house.
- + **First time in India.** In 1999 the company receives national export award in builder's hardware from the then Hon'ble Prime Minister of India Sh. Atal Bihari Vajpayee.
- + **First time in India.** In 1999 the company achieves class 8 and class 9 of BS certification for ball bearing hinges.
- + In 2000 D.P. Garg & Company becomes the first ever manufacturer from India to introduce Electrophoretic Lacquer Coating Technology for hinges.
- + **First time in India.** In 2001 the company achieves class 4 and class 5 certification for premium hinges.
- + **First time in India.** In 2004 CE-13 certification is awarded to D. P. Garg & Co. for SS Ball Bearing Hinges on passing CE-13 Grading as per EN 1935 : 2002 from Warrington.
- + In 2007 the company moves to modern state of art manufacturing facility at B-210-B, Phase-2 Noida. A fully integrated unit with covered area of 2,00,000 Sq. Ft. The biggest facility in India for its product category.
- + In 2009 the Company starts commercial production of locks and export to the European market.
- + **First time in India.** In 2009 Company receives with Certifire Certificate as SSBB Door Hinges.
- + In 2010 starts lever handle manufacturing & exports.
- + In 2011 the Company upgrades its facility, system to achieves both ISO 14001 and ISO 18001. The Company also adds to its CE range of hinges getting two more CE Certifications CE-7 & Ce-11.
- + In 2012 first Laser Marking machine in house.



- + In 2011 the Company upgrades its facility, system to achieves both ISO 14001 and ISO 18001. The Company also adds to its CE range of hinges getting two more CE Certifications CE-7 & CE-11.
- + In 2012 first Laser Marking machine in house.
- + In 2013, continuing its efforts for adding the Product range, production facility for Zinc die cast Handles, Latches, Locks & other Architectural Hardware like SS Lever Handles, D Pull Handles, Signages etc. Investing more than \$ 2 Millions in modernising plant.
- + In 2014, the company was reissued with Certifire Certificate (CF-714) to their range of Stainless Steel Ball Bearing Hinges.
- + In 2015, the company was awarded 'Star Performer' for the year 2013-14 by EEPC Govt. of India.
- + In 2016, the company installed state of art ETP Plants to reduce impact on environment.
- + **First time in India.** In 2017, two automatic plating plants were added for zinc & chrome plating. D.P. Garg & Co. Pvt. Ltd also received 11 certificates of consistency of performances for the range of Tubular Latches, Mortice Locks & Latches from world renowned certifying body 'Warrington Certification' UK and the Certifire Certificate (CF-5531) again from the world renowned certifying body 'Exova Warrington Certifire Certificate, UK'.
- + **First time in India.** In 2018, D. P. Garg & Co. Pvt. Ltd again became the first ever manufacturer from India to get certified for 'Kitemark' accreditation to BS-3621 for its 5 Lever Mortice Sash Locks & Dead Locks product range.
- + In 2018 company also installed RO Plant to become zero discharge unit, thus becomes green unit and later in the year developed water harvesting to become environmental friendly unit with positive impact on water table.
- + In 2019, company developed finishes in EXB, ZP, CP, that passed in excess of 240 hours neutral salt spray testing done by EXOVA.
- + in 2019, Company has started commercial production of its after passing 400 hours of neutral salt spray tests by EXOVA.
- + In 2019, company has started new venture by starting commercial production of Push Bar Panic Bolt device with Dogging Function (horizontal type) in the range of panic exit hardware.
- + In 2019, Company have got tested more than 250 products from world renowned lab - EXOVA thus expanding range of its tested and certified products.



Late Mr. D.P. Garg
(Founder Chairman)

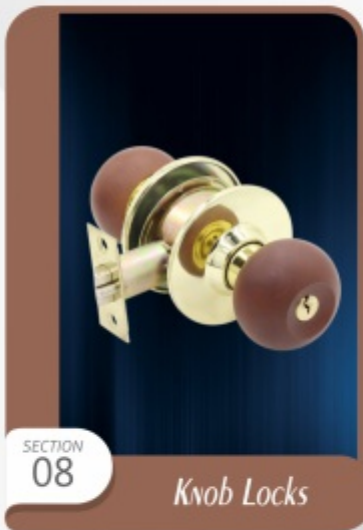
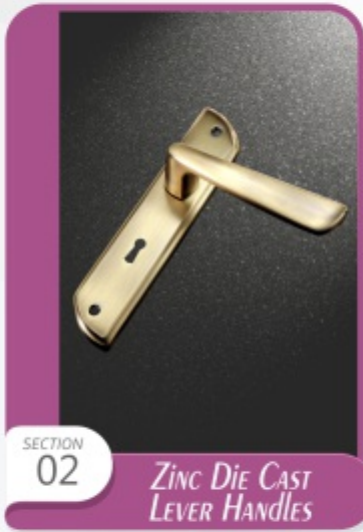
We hold single source responsibility to manufacture full range of steel and stainless steel door hinges / fittings & fasteners with quality production and customised packaging, full customer satisfaction and continuously evolving new and higher standards of performance in terms of consumer demands, interests, timely delivery and competitive prices.

Our dedication towards customer satisfaction is our prime motto.....



Mr. S.M. Garg
Chairman

Mr. S.M.Garg, an enterprising torch bearer, is expanding the companies's horizon with his innovative ideas by generating all round glory and diversifying into a group. The group is wholly owned by Garg Family. Under the dynamic supervision and guidance of Mr. S.M. Garg, the Group has ten fully integrated manufacturing units of Builders Hardware with latest technology machines and highly professional manpower capable of executing any task as per the customer's requirements.







Our Founder Chairman, Mr. D.P. Garg, receiving national Export Award in Builder's Hardware from the then Hon'ble Prime Minister of India Late S. Atal Bihari Vajpayee



Our Chairman Mr. S. M. Garg Receiving Northern Regional Award for Export Excellence from EEPC.



Our Chairman Mr. S. M. Garg greeting Hon'ble Prime Minister of INDIA Sh. Narendra Modi



Our Chairman Mr. S. M Garg greeting Hon'ble President of INDIA Sh. Ram Nath Kovind



Our Chairman Mr. S. M Garg, Receiving EEPC Award for Export Excellence



Our Chairman Mr. S. M Garg, Receiving Northern Regional Award for Export Excellence

LOCK ASSEMBLY DEPARTMENT



* Assembly line based on international standard at per with European Facilities.

PRESS SHOP DEPARTMENT



* Over 250 power presses for complete in house production.

Visit us at : www.garg-hinges.com, www.garglocks.co.in, www.elitelocks.co.in

ETP Plant & RO Plant



* Zero discharge plant - Our commitment for better environment future.

R&D, Tool Room



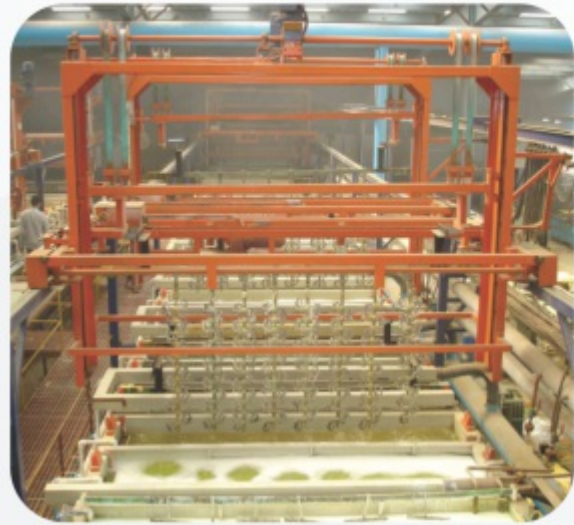
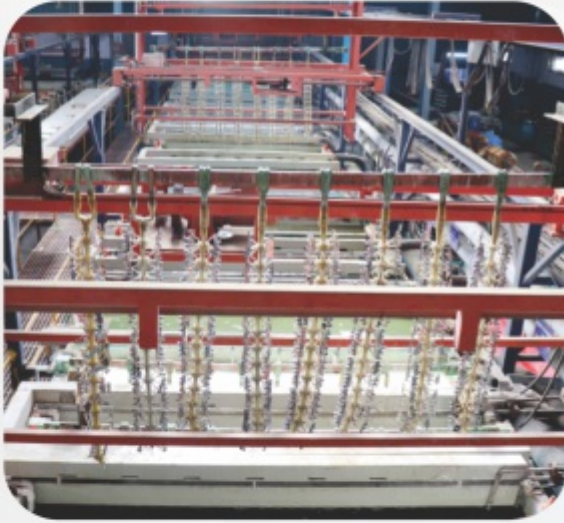
* Biggest Tool Room In Hardware Industry. Over 150 R&D, tool room staff to take care of in house testing.

PACKAGING DEPARTMENT



* Inhouse packing of Skin, Bag, Tag & Clam packings

PLATING DEPARTMENT



* Automatic plating plants to ensure highest plating quality.

WAREHOUSE DEPARTMENT



* OVER 1,00,000 Sq ft Warehousing & Stock holding area

Visit us at : www.garg-hinges.com, www.garglocks.co.in, www.elitelocks.co.in



KITE MARK

British standard approved product, deemed to be highest quality product in UK.



CE MARKING

CE Marking is a mandatory conformance mark on products placed on the market, With the CE Marking on a product, the manufacturer ensures that the product is in conformity with the essential requirements of the applicable Construction Products Directive.



FIRE DOORS HARDWARE

Suitable for use on fire doors.



CERTIFIRE

CERTIFIRE is an independent third party certification scheme that assures performance, quality, reliability and traceability of fire protection products.



HANDICAP

Suitable to meet the needs of disabled people.



BS EN 1906

BS EN1906

BS EN1906 is the British/European standard requirement for lever handles and knob furniture.



BS EN 12209

BS EN12209

BS EN12209 is the British/European standard requirement for locks, latches and locking plates.



BS EN 1303

BS EN1303

BS EN1303 is the British/European standard requirement for cylinders for locks.



BS EN 1935

BS EN1935

BS EN1935 is the British/European standard requirement for single axis hinges.



BS EN 1154

BS EN1154

BS EN1154 is the British/European standard requirement for controlled door closing devices.



BS EN 1125

BS EN1125

BS EN1125 is the British/European standard requirement for panic exit devices operated by a horizontal bar.



ISO

ISO 9001:2015 | ISO 14000:2015 | OHSAS 18001:2007 - Registered Company



ISI MARK

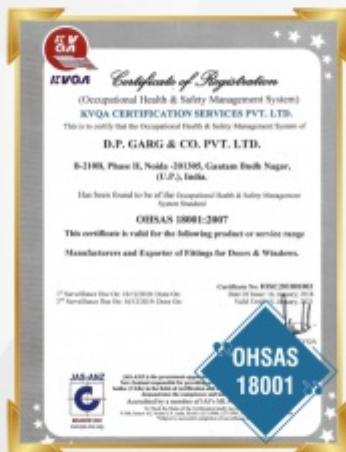
ISI is the Indian standard mark for industrial products in India.



10 Years Mechanical Guarantee | 5 Years Mechanical Guarantee



KITEMARK





warrington
certification

Notified body No. 1121

Certificate of constancy of performance

1121-CPB-AG3180

In accordance with Regulation (EU) 2016/1624 of the European Parliament and of the Council of 14 March 2016 on Construction Products Regulation (CPR), this certificate applies to the construction product:

DP Garg
Range of Locksets, Latches & Bathroom locks
See Annex A

Intended use: For use on fire-rated compartment doors

Essential Characteristics	Performance	Technical Specification
Resistance to fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Self-closing device	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.2 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.3 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.4 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.5 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Ability to maintain the door in the closed position in the event of fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Conformity of the product to the requirements of the standard	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1

BSEN 12209

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warrington
certification

Notified body No. 1121

Certificate of constancy of performance

1121-CPB-AG3180

In accordance with Regulation (EU) 2016/1624 of the European Parliament and of the Council of 14 March 2016 on Construction Products Regulation (CPR), this certificate applies to the construction product:

DP Garg
Range of Locksets, Latches & Bathroom locks
See Annex A

Intended use: For use on fire-rated compartment doors

EN 12209-2003AC 2008

The product falls within the scope of the standard.

CE

BSEN 12209

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warrington
certification

Notified body No. 1121

Certificate of constancy of performance

1121-CPB-AG3185

In accordance with Regulation (EU) 2016/1624 of the European Parliament and of the Council of 14 March 2016 on Construction Products Regulation (CPR), this certificate applies to the construction product:

DP Garg
Range of Lever Mortice Deadlocks – See Annex A

Intended use: For use on fire-rated compartment doors

Essential Characteristics	Performance	Technical Specification
Resistance to fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Self-closing device	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.2 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.3 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.4 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.5 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Ability to maintain the door in the closed position in the event of fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Conformity of the product to the requirements of the standard	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1

BSEN 12209

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warrington
certification

Notified body No. 1121

Certificate of constancy of performance

1121-CPB-AG3184

In accordance with Regulation (EU) 2016/1624 of the European Parliament and of the Council of 14 March 2016 on Construction Products Regulation (CPR), this certificate applies to the construction product:

DP Garg
Range of Tubular Locksets – See Annex A

Intended use: For use on fire-rated compartment doors

Essential Characteristics	Performance	Technical Specification
Resistance to fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Self-closing device	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.2 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.3 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.4 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.5 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Ability to maintain the door in the closed position in the event of fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Conformity of the product to the requirements of the standard	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1

BSEN 12209

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warrington
certification

Notified body No. 1121

Certificate of constancy of performance

1121-CPB-AG3148

In accordance with Regulation (EU) 2016/1624 of the European Parliament and of the Council of 14 March 2016 on Construction Products Regulation (CPR), this certificate applies to the construction product:

DP Garg
Range of Mortice Deadlocks – See Annex A

Intended use: For use on fire-rated compartment doors

Essential Characteristics	Performance	Technical Specification
Resistance to fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Self-closing device	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.2 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.3 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.4 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.5 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Ability to maintain the door in the closed position in the event of fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Conformity of the product to the requirements of the standard	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1

BSEN 12209

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warrington
certification

Notified body No. 1121

Certificate of constancy of performance

1121-CPB-AG3181

In accordance with Regulation (EU) 2016/1624 of the European Parliament and of the Council of 14 March 2016 on Construction Products Regulation (CPR), this certificate applies to the construction product:

DP Garg
Range of Locksets, Night Latches, Latches & Bathroom locks
See Annex A

Intended use: For use on fire-rated compartment doors

Essential Characteristics	Performance	Technical Specification
Resistance to fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Self-closing device	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.2 The locking force of lock	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
2.2.3 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
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2.2.5 The locking force of latch	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Ability to maintain the door in the closed position in the event of fire	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1
Conformity of the product to the requirements of the standard	EN 1634-1:2013 Class 1	EN 1634-1:2013 Class 1

BSEN 12209

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METALLURGICAL SERVICES PVT. LTD.
Exova

TEST CERTIFICATE

Lab No: MS/2024/011 Date: 20/06/2024 Page 1 of 2

Issued to: **WILL OF GARG AND COMPANY PVT. LTD.**

Test Method: **BS EN 12469 (2007)**

SALT SPRAY TEST

Test Method	BS EN 12469 (2007)
Test Solution	5% Sodium Chloride (NaCl)
Test Temperature	35 °C
Fog Collection Volume	1.0 (0.8 - 1.2) ml/h
Fog Collection pH	4.0 ± 0.1
Specific Conductivity (Deionised Water)	100 µS/cm
Fog Exposure Time (20 g/l NaCl)	24 Hours
Observation Interval	24 Hours
Test Method	BS EN 12469 (2007)
Test Completed on	20/06/2024
Observed	

EXOVA SALT SPRAY TEST REPORT

METALLURGICAL SERVICES PVT. LTD.
Exova

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Lab No: MS/2024/012 Date: 20/06/2024 Page 1 of 2

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Test Completed on	20/06/2024
Observed	

EXOVA SALT SPRAY TEST REPORT

METALLURGICAL SERVICES PVT. LTD.
Exova

TEST CERTIFICATE

Lab No: MS/2024/013 Date: 20/06/2024 Page 1 of 2

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Test Completed on	20/06/2024
Observed	

EXOVA SALT SPRAY TEST REPORT

Standards & Certification

BS EN1906 Lever Handle and Knob Furniture

BS EN 1906 classifies door furniture by using an 8 digit coding system. A similar classification applies to all building hardware product standards so that complementary items of hardware can be specified to, for instance, a common level of corrosion resistance, category of use, etc. Each digit refers to a particular feature of the product measured against the standard's performance requirement.

Digit - 1 Category of Use

Four Grades are identified:

- Grade 1 : medium frequency of use with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors;
- Grade 2 : medium frequency of use by people with some incentive to exercise care but where there is some chance of misuse, e.g. internal office doors;
- Grade 3 : high frequency of use by public or other with little incentive to exercise care and with a high chance of misuse, e.g. public office doors;
- Grade 4 : high frequency of use on door which are subject to frequent violent use, e.g. football stadiums, oil rigs, public toilets, etc.

Digit 2 - Durability

Two grades of durability are identified:

- Grade 6 : medium use - 100 000 cycles
- Grade 7 : high use - 200 000 cycles;

The tests undertaken to achieve these grades involve the application of additional forces to the door furniture in order to stimulate the condition of use likely to be experienced in the field.

Digit 3 - Test door mass

No requirement

Digit 4 - Fire resistance

Two grade of fire resistance are identified :

- grade 0 : not approved for use on fire/smoke door assemblies;
- grade 1 : suitable for use on fire/ smoke door assemblies;

Note : A grade 1 classification means only that the furniture has been designed for use on fire/ smoke control door; the actual fire performance achieved (e.g. fire integrity of 30 minutes on a partially glazed timber door etc.) will be contained in a separate fire test report.

Digit 5 - Safety

Two grade of safety are identified

- grade 0 : normal use;
- grade 1 : safety application - to quality for this grade, handle must have high strength handle-to-plate and plate-to-door fixing and/or handle-to-spindle fixing, such that they would withstand a person grabbing in order to prevent falling. It is recommended that only safety furniture is used at the top of cellar steps or other staircases.

Digit 6 - Corrosion resistance

Five grade of identified according to EN 1670 :

- grade 0 : no defined corrosion resistance;
- grade 1 : mild resistance - minimum requirement for internal use;
- grade 2 : moderate resistance;
- grade 3 : high resistance - minimum requirement for external use;
- grade 4 : very high resistance - recommended for use in exposed marine atmospheres or very polluted industrial environment;

Note : Product intended to develop a natural patina (such as bronze or brass) are not requirement to comply with any requirements.

Digit 7 - Security

Five grade of identified :

- grade 0 : not approved for use on burglary resistant doors;
- grade 1 : mild burglary resistance;
- grade 2 : moderate burglary resistance;
- grade 3 : high burglary resistance;
- grade 4 : extra high burglary resistance;

Note : The main requirement include resistance to drilling, close fitting plates or escutcheons to help protect the lock and support the cylinder. They must be resistant to removal from the outside of the door and make provision to minimize the cylinder projection to a maximum of 3mm. Full details of the requirement can be found in BS EN 1906.

Digit 8 - Type of operation

Three operation types are identified :

- Type A : Spring assisted furniture;
- Type B : Spring loaded furniture;
- Type U : Unsprung furniture.

BS EN 12209 Building Hardware - Lock Bodies, Latches, Dead lock, Lever Lock BS EN 12209
Classifies lock bodies & lever based lock using an 11 digit coding system which is listed as below :

Digit 1 – Category of use

Three categories of use are identified:

- Grade 1: low frequency of use by people with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors;
- Grade 2: medium frequency of use by people with some incentive to exercise care but where there is some chance of misuse, e.g. internal office doors;
- Grade 3: high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse, e.g. public doors.

Digit 2 - Durability

Twelve grades are identified with minimum figures for deadbolt and snib operation, and latch bolt operation with and without side load, as shown. The side load is applied to the latch bolt when it is being withdrawn.

		Increasing side load				
↑ No. of operations	Grade C	Grade H	Grade M	Grade S	Grade X	
	Grade B	Grade G	Grade L	Grade R	Grade W	
	Grade A	Grade F				

Digit 3 - Door mass and closing force

Nine grades are identified with maximum figures for closing force at various door masses as shown. Note: closing force is from a standing start i.e. fully extended latch bolt in contact with striking plate at start of test.

Maximum closing force	Door mass		
	up to 100kg	up to 200kg	above 200kg
15N	Grade 7	Grade 8	Grade 9
25N	Grade 4	Grade 5	Grade 6
50N	Grade 1	Grade 2	Grade 3

Digit 4 – Fire resistance

Two grades are identified:-

- grade 0: not approved for use on fire/smoke door assemblies;
- grade 1: suitable for use on fire/smoke door assemblies tested to BS EN 1634-1 etc.

Note 1. A grade 1 classification means only that the lock has been designed for use on fire/smoke control doors; the actual fire performance achieved (e.g. fire integrity of 30 minutes on a partially glazed timber door etc.) will be contained in a separate fire test report.

Note 2. Where a product is intended for fire/smoke door use (i.e. a "1" in box), it must be possible to demonstrate compliance with the Essential Requirements of the Construction Products (Amendments) Regulations. It is recommended that the product should bear the CE mark (see section on CE marking).

Digit 5 – Safety

No requirement, but note: a lock or latch conforming to this standard can, at the same time, also be part of an exit device conforming to BS EN 179 or BS EN 1125.

Digit 6 – Corrosion resistance

Eight grades are identified with neutral salt-spray (NSS) corrosion resistance grades from BS EN 1670:1998, with and without temperature resistance as

Corrosion resistance (NSS)	Temperature resistance	
	No requirement	-20C TO +80C
240 hours	Grade D	Grade G
96 hours	Grade C	Grade F
48 hours	Grade B	Grade E
24 hours	Grade A	
No requirement	Grade 0	

Digit 7 – Security and drill resistance

Seven grades are identified with minimum figures for requirements relating to physical attack, with or without drilling of the lock case, as shown:

Increasing resistance to attack	No drilling requirement	Drilling requirement
	Grade 6	Grade 7
	Grade 4	Grade 5
	Grade 3	
	Grade 2	
	Grade 1	

Digit 8- Field of door application

Fifteen grades are identified for differing applications - hinged and sliding doors with rim or mortice locks with either keyless egress from inside or key locking from both sides. The grading determines which application is appropriate. In addition, there is requirement that lock/latch should not be removable from outside or, for grades K to R, from inside using "standard" tools. Grades H and P require support for the lock case when installed.

Digit 9- Type of key operation and locking

Nine grades are identified for differing types of key operation. The grading determines how the lock is assessed for deadlocking requirement as shown. In addition, there is maximum key torque operating requirement of 1.5 Nm and a minimum key strength requirement of 2.5 Nm

- Grade O : not applicable
- Grade A : cylinder lock or latch; manually locking;
- Grade B : cylinder lock or latch; automatically locking;
- Grade C : cylinder lock or latch; manually locking with intermediate locking;
- Grade D : cylinder lock or latch; manually locking;
- Grade E : lever or latch; automatically locking;
- Grade F : lever of latch; manually locking with intermediate locking;
- Grade G : lock or latch without key operation; manually locking;
- Grade H : lock without key operation; automatically locking;

Digit 10- Type of spindle operation

Five grades are identified

- Grade 0 : lock without follower;
- Grade 1 : lock with sprung lever or knob;
- Grade 2 : lock with light unsprung lever;
- Grade 3 : lock with heavy unsprung lever;
- Grade 4 : Lock with manufacturer’s own specification furniture.

Digit 11 - Key identification

Nine grades are identified relating to the number of differs and levers. Grade O relates to a latch with no locking action:-

		No of levers →							
No of differs									Grade H
					Grade F			Grade G	
				Grade D			Grade E		
			Grade B			Grade C			
		Grade A							
	Grade 0								

BS EN 1634 Part 1 : 2000

Is the European Fire Safety Standard for determining the fire resistance of door and shutter assemblies including hardware designed for installations within openings incorporated in vertical separating elements (doorsets).

Locks can be assessed to be suitable on :-

- FD30 (30 minute) Fire Doors
- FD60 (60 minute) Fire Doors

BS EN 1303 Euro Cylinders for locks

BS EN 13.3 Classifies Euro Profile cylinder using an 8 digit coding system which is listed as below:

Digit 1 – Category of use

One category is identified:

- grade 1 : For use by people with a high incentive to exercise care and with a small chance of misuse

Digit 1 – Category of use

One category is identified:

- grade 1 : For use by people with a high incentive to exercise care and with a small chance of misuse

Digit 2 – Durability

Three grades are identified according to the number of test cycles achieved :

- grade 4 : 25000 cycles;
- grade 5 : 50000 cycles;
- grade 6 : 100000 cycles.

Digit 3 – Door mass

One grade is identified

- grade 0 : No requirement

Digit 4 – Fire resistance

Two grades are identified :

- grade 0 : not suitable for/smoke resistant door assemblies.
- grade 1 : suitable for fire/smoke resistant door assemblies subject to satisfactory assessment of the contribution of the cylinder to the fire resistance of the specified fire/ smoke door assemblies. Such assessment is beyond the scope of this European standard(see EN 1634-1), it must be possible to demonstrate compliance with the Essential requirement of the construction products (Amendments) Regulations. It is recommended that the product should bear the CE mark (see section on CE marking).

Digit 5 – Safety

One grade is identified :

- grade 0 : No requirement

Digit 6 – Corrosion and temperature resistance

Four grades are identified as follows:-

- grade 0 : no corrosion or temperature resistance requirements;
- grade A :BS EN 1670 Grade 3 corrosion resistance (96 hours NSS) : no temperature resistance requirement;
- grade B : No corrosion resistance requirement : resistance to - 20/+80 C temperature extremes;
- grade C : BS EN 1670 Grade 3 corrosion resistance: resistance to -20/+80 C temperature extremes.

Note. No distinction is made between the inside and the outside of either the cylinder and/ or the door. On completion of the test, the cylinder must operate.

Digit 7 - Key related security

Six grades are identified and the principal requirements are summarised in table 1 below:

	Grade					
	1	2	3	4	5	6
Minimum number of effective differs	100	300	15,000	30,000	30,000	30,000
Minimum number of movable levers, pins, discs, etc	2	3	5	5	6	6
Coding on key could disclose combination	Yes	Yes	Yes	Yes	Yes	Yes
Torque resistance of plug	2.5	5Nm	15Nm	15Nm	15Nm	15Nm

Digit 8 - Attack resistance

Three grades are identified and the principal requirement are summarised in table 2 below:

	Grade		
	0	1	2
Resistance to drilling (nett drilling time)	-	3/5 mins	5/10 mins
Resistance to chisel attack (Number of defined blows)	-	30	40
Resistance to twisting attack (number of defined twists)	-	20	30
Resistance to Plug/Cylinder extraction (pull load)	-	15kN	15kN
Torque resistance of plug/cylinder	-	20Nm	30Nm

Technical Considerations

Normally, three or four hinges are fitted to each door. Their position are determined by the weight of door and its resistance to wrapping or whipping will advise which of the position variations shown below should be used. Hinge specifications are also determined by the adjusted door weight (based on the actual weight supplied by the manufacture).

Adjusted door weight calculation table			
Actual Door Weight (kg)	Door of excess width, Please refer to side loading Calculation table		Final Door Weight (kg)
	Door Closer	+20%	
	Door Closer (Back check)	+75%	
	Extra Heavy Use	+20%	
	Light Use	+10%	

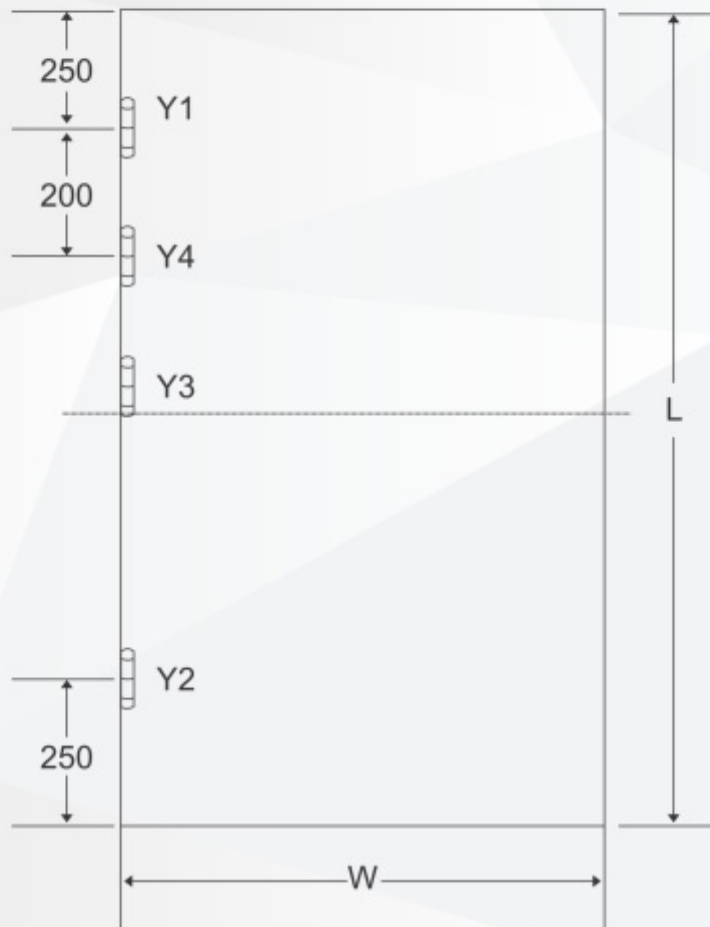
Hinges for use with door of excess widths

Wider doors obviously increase the pressure and bending moment exerted on the hinge. This must be allowed for by reduction in the maximum mass of the door leaf supported by each grade of hinges.

The factors by which the mass has to be adjusted for excessive widths of door are calculated by dividing the door heights by its width. For a factor of 2 or greater, no allowance has to be made. When the factor is less than 2, the door mass has to be increased by the value required are shown in the side loading calculations table shown below.

REMEMBER: Garg are active supporters of independent trade bodies such as GAI CERTIFIRE, CE, BS, ISI in order to keep abreast of market trends and the needs of customer.

Side loading calculations			
Door Size		Factor	Normal Increase of mass of door leaf %
Door height (mm)	Door width (mm)		
2000	1000	2	0
2000	1050	1.9	10
2000	1100	1.82	18
2000	1150	1.74	26
2000	1200	1.66	33
2000	1250	1.6	40



These are approximate Hinge fitting however actual position hinge to hinge

Hinges are centerline saves warping or deformation in soft wood door, humid wood door, fire door & smoke doors.

Top hinge is prone to maximum load and gets deformed in maximum cases.

Deformation being Uncurling, Cracking, Excessive wear in hinges.

For door less than 20 kg two hinges are enough at Y1, Y2.

For non fire rated door & weight between 20 kg & 40 kg position Y1, Y4, Y2

For fire door & doors above 40 kg four hinges are advise at position Y1, Y2, Y3, Y4

Hinges must be properly aligned, if they are unaligned they cause excessive load & increased wear on top hinge.

Suggested duty cycles for doors

Residential low use doors	10,000 Cycles
Residential high use doors	25,000 Cycles
office low use	25,000 Cycles
Main Door	2,00,000 Cycles

Standards and Certification BS EN1935 Single Axis Hinges

BS EN 1935 classifies door furniture by using 8 digit coding system. A similar classification applies to all building hardware product standards so that complementary items of hardware can be specified to, for instance, a common level of corrosion resistance, category of use etc. Each digit refers to a particular features of the product measured against the standards performance requirements.

Digit 1 – Category of use

Four categories of use are identified:

- grade 1 : Light duty;
- grade 2 : medium duty;
- grade 3 : heavy duty;
- grade 4 : severe duty.

Digit 2 – Durability

Three grades are identified for single axis hinges manufactured to this European Standard:

- grade 3 : 10,000 test cycles, for light duty hinges on windows only;
- grade 4 : 25,000 test cycles, for light duty hinges on windows and doors;
- grade 7 : 2,00,000 test cycles, for medium, heavy and severe duty hinges on door only.

Digit 3 – Test Door Mass

Eight door mass grades related to single axis hinges are identified in this European Standard as shown in Table 1 below.

Table	
Test door mass grade	Door mass
0	10 kg
1	20 kg
2	40 kg
3	60 kg
4	80 kg
5	100 kg
6	120 kg
7	160 kg

Digit 4 – Suitability for fire/smoke door use

Two grades of suitability are identified for single axis hinges:

- grade 0 : not suitable for fire/smoke resistant door assemblies subject to satisfactory assessment of the contribution of the single axis hinge to the fire resistant of the specified fire/smoke door assemblies. Such assessment is beyond the scope of this European standard (see EN 1634 – 1)
- grade 1 : Suitable for fire door. The details are provided with test report if suitable for every 30 or 60.

Digit 5 – Safety

Single axis hinges are required to satisfy the essential requirement of safety in use. Therefore, only grade 1 is identified.

Digit 6 – Corrosion Resistance

Five grades of corrosion resistance are identified in accordance with EN 1670:

Grade 0 : no defined corrosion resistance;

Grade 1 : mild resistance;

Grade 2: moderate resistance;

Grade 3 : high resistance;

Grade 4 : very high resistance.

Digit 7 – Security

Two grades of security are identified for single axis hinges:

Grade 0 : not suitable for use on burglar-resistance door assemblies;

Grade 1 : suitable for application requiring a degree of security. Annex C of this European standard details the hinges grade to use for the level of security required.

Digit 8 – Hinge Grade

Fourteen grades are identified in this European standard and are details in table 2 below. The full classification is shown in the standard below:

Hinge grade	Usage	Test Cycles	Hinge grade
1	Window	10 000	10 kg
2	Window	10 000	20 kg
3	Window/door	25 000	20 kg
4	Door	200 000	20 kg
5	Window	10 000	40 kg
6	Window/door	25 000	40 kg
7	Door	200 000	40 kg
8	Window	10 000	60 kg
9	Door	25 000	60 kg
10	Door	200 000	60 kg
11	Door	200 000	80 kg
12	Door	200 000	100 kg
13	Door	200 000	120 kg
14	Door	200 000	160 kg

BS EN1634 Part 1 : 2000

Is the European fire Safety Standard for determining the fire resistance of door and shutter assemblies including hardware designed for installation within openings incorporated in vertical separating elements (doorsets)

Locks can be assessed to be suitable on :-

Fd30 (30 minute) Fire Doors

FD60 (60 minutes) Fire Doors

CE Marking

CE Marking is the easiest and safest route to providing compliance with the latest UK construction Products Directive for hardware used on fire, smoke and escape doors.

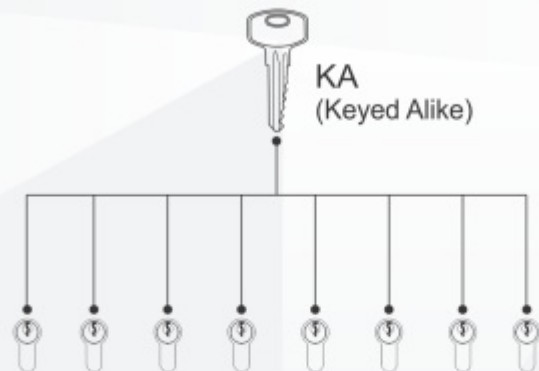
CE Marking indicates that the product has been 3rd party performance tested where applicable and is produced in a factory which has satisfactory production control systems. All of these have been assessed by an authorised certification body.

Keyed to Differ

Cylinder to differ all operated by individual keys
all operated by individual keys all different to each other.

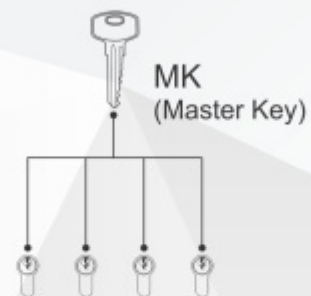
Keyed Alike Suite (KA)

In keyed alike arrangement all cylinders are operated by same key. This gives an arrangement where one key will open a group of locks. Not to be confused with a master keyed suite. Cylinder can also be keyed alike to be euro profile, oval and rim cylinders. This is useful where a combination of cylinder mortice lock cases and cylinder rim night latches are being used.



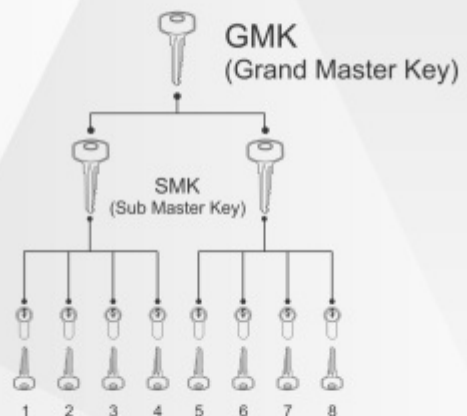
Master Key Suited (MK)

Master key suites are used when it is necessary to have more than one key open a group of locks. In these instances all cylinder irrespective of their individual keys are controlled by one key known as master key.



Grand master key suites (GMK)

Grand master key suites are used when it is necessary to have more than one master key group. These groups are referred to a sub suites. In these instances all cylinder irrespective of their sub suite, are controlled by one key known as the grand master key.





Brass Lever Handles

01



MIRA

ITEM CODE	SIZE
BLH0011	10"
BLH0010	ON ROSE

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Brass.
- Anti-Bacterial and Anti Virus Coated.
- Available on rose and on 10" Back Plate.

Finish Available - Satin, Brass, Antique.



FLEXA

ITEM CODE	SIZE
BLH0017	10"
BLH0016	ON ROSE

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Brass.
- Anti-Bacterial and Anti Virus Coated.
- Available on rose and on 10" Back Plate.

Finish Available - Satin, Brass, Antique.



BEVERLY

ITEM CODE	SIZE
BLH0023	10"
BLH0022	ON ROSE

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Brass.
- Anti-Bacterial and Anti Virus Coated.
- Available on rose and on 10" Back Plate.

Finish Available - Satin, Brass, Antique.



CREMONA

ITEM CODE	SIZE
BLH0002	10"
BLH0001	ON ROSE

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Brass.
- Anti-Bacterial and Anti Virus Coated.
- Available on rose and on 10" Back Plate.

Finish Available - Satin, Brass, Antique.



Zinc Die Cast Lever Handles

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

GLAM

ITEM CODE	SIZE
LHZ2001	8"
LHZ2002	10"

FEATURES:-

- Tested as per EN 1906 to 2 lakh cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

KEMP

ITEM CODE	SIZE
LHZ2021	8"
LHZ2022	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

YELLOW

ITEM CODE	SIZE
LHZ2041	8"
LHZ2042	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

TORRY

ITEM CODE	SIZE
LHZ2061	8"
LHZ2062	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

ROPE

ITEM CODE	SIZE
LHZ2081	8"
LHZ2082	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

LEAF

ITEM CODE	SIZE
LHZ2101	8"
LHZ2102	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

PITA

ITEM CODE	SIZE
LHZ2121	8"
LHZ2122	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

POLLY

ITEM CODE	SIZE
LHZ2141	8"
LHZ2142	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

EVEREST

ITEM CODE	SIZE
LHZ2161	8"
LHZ2162	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

DIVINE

ITEM CODE	SIZE
LHZ1021	8"
LHZ1022	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

OVAL

ITEM CODE	SIZE
LHZ2181	8"
LHZ2182	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

COUPE

ITEM CODE	SIZE
LHZ2201	8"
LHZ2202	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

PIXEL

ITEM CODE	SIZE
LHZ2221	8"
LHZ2222	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

SWITCH

ITEM CODE	SIZE
LHZ2241	8"
LHZ2242	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

TURTLE

ITEM CODE	SIZE
LHZ2261	8"
LHZ2262	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

DRAGON

ITEM CODE	SIZE
LHZ2281	8"
LHZ2282	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

STRAUGHT

ITEM CODE	SIZE
LHZ2301	8"
LHZ2302	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

NEVADA

ITEM CODE	SIZE
LHZ2321	8"
LHZ2322	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

ALABAMA

ITEM CODE	SIZE
LHZ2341	8"
LHZ2342	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

OHIO

ITEM CODE	SIZE
LHZ2361	8"
LHZ2362	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

CLANTON

ITEM CODE	SIZE
LHZ2381	8"
LHZ2382	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

SELMA

ITEM CODE	SIZE
LHZ2401	8"
LHZ2402	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

MARION

ITEM CODE	SIZE
LHZ2421	8"
LHZ2422	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

ETCH

ITEM CODE	SIZE
LHZ2441	8"
LHZ2442	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

FELIX

ITEM CODE	SIZE
LHZ2461	8"
LHZ2462	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

GAMBO

ITEM CODE	SIZE
LHZ2481	8"
LHZ2482	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

POUND

ITEM CODE	SIZE
LHZ2501	8"
LHZ2502	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

GARY

ITEM CODE	SIZE
LHZ2521	8"
LHZ2522	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

HEMP

ITEM CODE	SIZE
LHZ2541	8"
LHZ2542	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

TRUST

ITEM CODE	SIZE
LHZ2561	8"
LHZ2562	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

TWIG

ITEM CODE	SIZE
LHZ2581	8"
LHZ2582	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

DELI

ITEM CODE	SIZE
LHZ2601	8"
LHZ2602	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

ELEGANCE

ITEM CODE	SIZE
LHZ1031	8"
LHZ1031	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

TRIANGLE

ITEM CODE	SIZE
LHZ2621	8"
LHZ2622	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

DELTA

ITEM CODE	SIZE
LHZ2641	8"
LHZ2642	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

BROX

ITEM CODE	SIZE
LHZ2661	8"
LHZ2662	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

NIAGRA

ITEM CODE	SIZE
LHZ2681	8"
LHZ2682	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

PIE

ITEM CODE	SIZE
LHZ2701	8"
LHZ2702	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

ACURA

ITEM CODE	SIZE
LHZ2721	8"
LHZ2722	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

CANINO

ITEM CODE	SIZE
LHZ1017	8"
LHZ1017	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

MONTANA

ITEM CODE	SIZE
LHZ2741	8"
LHZ2742	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

LOWA

ITEM CODE	SIZE
LHZ2761	8"
LHZ2762	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

SUN

ITEM CODE	SIZE
LHZ2781	8"
LHZ2782	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

ALASKA

ITEM CODE	SIZE
LHZ2801	8"
LHZ2802	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

SHINE

ITEM CODE	SIZE
LHZ1051	8"
LHZ1051	10"

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- 5 mm spindle also included with bathroom version.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

OLIVIA

ITEM CODE	SIZE
LHZ0018	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

ALEXANDER

ITEM CODE	SIZE
LHZ0019	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

EDINBURGH

ITEM CODE	SIZE
LHZ0023	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

LINDISFARNE

ITEM CODE	SIZE
LHZ0024	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

BERKELEY

ITEM CODE	SIZE
LHZ0331	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

RABY

ITEM CODE	SIZE
LHZ0032	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

CHESTOR

ITEM CODE	SIZE
LHZ0034	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

TREMATION

ITEM CODE	SIZE
LHZ0036	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

CORBY

ITEM CODE	SIZE
LHZ1100	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.

02



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

HAYTON

ITEM CODE	SIZE
LHZ1014	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

AUCKLAND

ITEM CODE	SIZE
LHZ1025	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

LUMLEY

ITEM CODE	SIZE
LHZ0831	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

NATION

ITEM CODE	SIZE
LHZ1066	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

TRUST

ITEM CODE	SIZE
LHZ0961	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.



1906
Gr-3



200 Hours.



FIRE TESTED
FD-30/60

FLORIDA

ITEM CODE	SIZE
LHZ0565	ON ROSE

FEATURES:-

- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Zinc alloy.

Different Finishes Available on Request.

NOTE

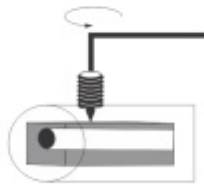


Stainless Steel Lever Handles

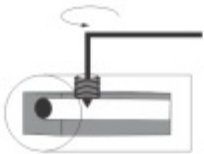
Garg stainless steel lever and pull handles are manufactured from chrome nickel steel SS 304 & 316. Characteristics such as longevity and corrosion resistance have established stainless steel as a popular material in the manufacture of architectural fittings.

Manufactured by Garg in India using the latest engineering technology & computer aided designs our stainless steel range of levers, pull handles & accessories are available in both satin and polished finishes.

Full Profile Spindle



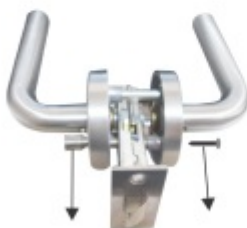
The spindle is very easily introduced into the lever handle keeping the thin wall side towards the grub screw



While tightening the grub screw with allen key it comes in contact with the hollow spindle & on further application of torque using the allen key the grub screw punches the thin wall of hollow spindle & on complete tightening completely integrates the lever handle & the spindle



Two Point Pinning



Snib For Lock In case of emergency can be unlocked with the help of a pin

Spindles

Hollow profile spindle

Garg have developed a hollow profile spindle which for the first time features a method of fitting & securing the inside lever handle onto the door. Supplied in 8 mm only, the spindle is compatible with most of the popular locks currently manufactured.

Having determined the correct position of the lever handle, a special pointed grub screw is tightened into the neck of the handle by means of an allen key.

The grub screw enters the spindle by puncturing the thin wall of center hollow spindle and forces it to separate forming a close fit against the lock follower, providing a very secure location.

Due to the design of the spindle, the grub screw cannot become loose through vibration or the continuous opening and closing of the door. In the event of the handle needing to be adjusted, this is easily solved by removing the grub screw with an allen key relocating it.

It also enhances life of locks & lever handles by virtually integrating all into a single unit.

SPECIAL FEATURES OF SS LEVER HANDLE

- ▶ Handle made of Stainless steel of Grade 304
- ▶ 2,00,000 cycles
- ▶ High quality finish modern new design to suit all interior designs
- ▶ Better performance as compare to lever handle of different materials
- ▶ High corrosion resistance
- ▶ 2 point pinning + grub screw for rigid construction to increase handle life
- ▶ Available in satin and two tone finish

SPECIAL FEATURES OF SS LEVER HANDLE WITH PRIVACY FUNCTION

- ▶ Handle made of Stainless steel of Grade 304
- ▶ High quality finish modern new design to suit all interior designs
- ▶ Better performance as compare to lever handle of different materials
- ▶ High corrosion resistance
- ▶ Modern Design
- ▶ In Built privacy function eliminates need for expensive locks and bolts
- ▶ Available in Satin finish

SPECIAL FEATURES OF PULL HANDLE

- ▶ Handle made of Stainless steel of Grade 304
- ▶ Modern Design to suit requirement for modern interior designs
- ▶ Inter changeable designs as center distance is same across all models
- ▶ Available in Satin, Mirror & Two tone finish



1906



200 Hours.



FIRE TESTED
FD-30/60

SEA

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0001	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

D TYPE

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0002	304	140	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

L TYPE

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0003	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01

03



1906



200 Hours.



FIRE TESTED
FD-30/60

FORD

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0004	304	140	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

EURO

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0005	304	140	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

S TYPE

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0006	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01



1906



200 Hours.



FIRE TESTED
FD-30/60

C TYPE

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0007	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

MARC

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0008	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

FAWN

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0009	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01

03



1906



200 Hours.



FIRE TESTED
FD-30/60

COVE

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0010	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

LEE

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0011	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

JERRY

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0012	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01



1906



200 Hours.



FIRE TESTED
FD-30/60

ASH

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0013	304	142	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

DREAM

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0014	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

GALE

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0015	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01

03



1906



200 Hours.



FIRE TESTED
FD-30/60

ROSS

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0016	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

DEVON

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0017	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

TROY

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0018	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01



1906



200 Hours.



FIRE TESTED
FD-30/60

CROY

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0019	304	142	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

ROY

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0020	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

ORIEL

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0021	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01

03



1906



200 Hours.



FIRE TESTED
FD-30/60

CEO

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0022	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

CROWN

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0023	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

FLORA

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0024	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01



1906



200 Hours.



FIRE TESTED
FD-30/60

DAVIS

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0025	304	142	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

OASIS

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0026	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

WALNUT

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0027	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01

03



1906



200 Hours.



FIRE TESTED
FD-30/60

JOLLY

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0028	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

PERK

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0029	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

ITALIAN

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0030	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01



D TYPE - PRIVACY FUNCTION (INCLUDES LATCH)

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0102	304	142	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- In Built Privacy Function Eliminates Need For Expensive Locks.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.



L TYPE - PRIVACY FUNCTION (INCLUDES LATCH)

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0103	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- In Built Privacy Function Eliminates Need For Expensive Locks.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.



FORD - PRIVACY FUNCTION (INCLUDES LATCH)

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0104	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- In Built Privacy Function Eliminates Need For Expensive Locks.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, FD60.

* Features as Shown on Page No. SLH-01

03



1906



200 Hours.



FIRE TESTED
FD-30/60

SEA - Ø22

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0201	304	135	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

D TYPE - Ø22

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0202	304	140	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS



1906



200 Hours.



FIRE TESTED
FD-30/60

L TYPE - Ø22

ITEM CODE	SS GRADE	LENGTH	ROSE DIA	HEIGHT
LHE0203	304	140	52	10

Note : Also available as Unsprung Lever with Rose Height 5 mm

FEATURES:-

- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material Stainless Steel.
- Tested as per EN 1906 to 2 lac cycle.
- Tested as per EN 1634 to FD30, Fd60.

Finish Available : SP, PSS

* Features as Shown on Page No. SLH-01



1906



200 Hours.



FIRE TESTED
FD-30/60

AQUILA

ITEM CODE	SIZE
SHZ0004	8"

FEATURES:-

- Tested as per EN 1906 to 2 lakh cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material High Quality Stainless Steel.



1906



200 Hours.



FIRE TESTED
FD-30/60

URSA

ITEM CODE	SIZE
SHZ0005	8"

FEATURES:-

- Tested as per EN 1906 to 2 lakh cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material High Quality Stainless Steel.



1906



200 Hours.



FIRE TESTED
FD-30/60

CANIS

ITEM CODE	SIZE
SHZ0006	8"
SHZ0006	10"

FEATURES:-

- Tested as per EN 1906 to 2 lakh cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material High Quality Stainless Steel.

03



ORION

ITEM CODE	SIZE
SHZ0001	8"

FEATURES:-

- Tested as per EN 1906 to 2 lakh cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material High Quality Stainless Steel.



GEMINI

ITEM CODE	SIZE
SHZ0002	8"
SHZ0002	10"

FEATURES:-

- Tested as per EN 1906 to 2 lakh cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material High Quality Stainless Steel.



LYRA

ITEM CODE	SIZE
SHZ0003	8"
SHZ0003	10"

FEATURES:-

- Tested as per EN 1906 to 2 lakh cycle.
- Tested as per EN 1634 to FD30, FD60.
- Sprung, for use with standard duty followers.
- 8 mm square spindle included for lever operation.
- Material High Quality Stainless Steel.



Stainless Steel Pull Handles

04



H TYPE

CODE	DIAMETER (D)	CENTER TO CENTER (C)	OVER ALL LENGTH (L)
PHE22001	Ø22	200	270
	Ø22	250	320
	Ø22	300	370
PHE25001	Ø25	350	420
	Ø25	400	470
	Ø25	450	520
	Ø25	500	570
PHE32001	Ø32	600	670
	Ø32	800	870
	Ø32	1000	1070

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as bolt fix and concealed fix.



C TYPE

CODE	DIAMETER (D)	CENTER TO CENTER (C)
PHE19002	Ø19	200
	Ø19	250
	Ø19	300
PHE22002	Ø22	200
	Ø22	250
	Ø22	300
PHE25002	Ø25	350
	Ø25	400
	Ø25	450
	Ø25	500

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as bolt fix and concealed fix.

* Stainless Steel Grade 304



200 Hours.



FIRE TESTED
FD-30/60

D TYPE

CODE	DIAMETER (D)	CENTER TO CENTER (C)	CODE	DIAMETER (D)	CENTER TO CENTER (C)
PHE19003	Ø19	150	PHE25003	Ø25	350
	Ø19	200		Ø25	400
	Ø19	250		Ø25	450
	Ø19	300		Ø25	500
PHE22003	Ø22	150	PHE32003	Ø32	600
	Ø22	200		Ø32	800
	Ø22	250		Ø32	1000
	Ø22	300			

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as bolt fix and concealed fix.



200 Hours.



FIRE TESTED
FD-30/60

T TYPE

CODE	DIAMETER (D)	CENTER TO CENTER (C)
PHE22004	Ø22	200
	Ø22	250
	Ø22	300

FEATURES:-

1. Material Stainless Steel.
2. Back to back mounting.
3. Available as bolt fix and concealed fix.

* Stainless Steel Grade 304

04



U TYPE

CODE	DIAMETER (D)	CENTER TO CENTER (C)
PHE22005	Ø22	200
	Ø22	250
	Ø22	300
PHE25005	Ø25	350
	Ø25	400
	Ø25	450

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as bolt fix and concealed fix.



S TYPE

CODE	DIAMETER (D)	CENTER TO CENTER (C)	OVER ALL LENGTH (L)
PHC32006	Ø32	300	450

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as bolt fix and concealed fix.

* Stainless Steel Grade 304



PHE...013

GREEN

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as concealed fix .
- Size Available - 200MM, 250MM, 300MM



PHE...010

OMICRON

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as concealed fix .
- Size Available - 200MM, 250MM, 300MM



PHE...009

GAMMA

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as concealed fix .
- Size Available - 200MM, 250MM, 300MM

* Stainless Steel Grade 304

04



PHE...028



200 Hours.



FIRE TESTED
FD-30/60

PHANTOM

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as concealed fix
- Size Available - 200MM, 250MM, 300MM



PHE...037



200 Hours.



FIRE TESTED
FD-30/60

ICE

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as concealed fix .
- Size Available - 200MM, 250MM, 300MM



PHE...503



200 Hours.



FIRE TESTED
FD-30/60

OXFORD

FEATURES:-

- Material Stainless Steel.
- Back to back mounting.
- Available as concealed fix
- Size Available - 200MM, 250MM, 300MM

* Stainless Steel Grade 304



Mortise Locks & Latches

CE EURO PROFILE SASH LOCK BODY (72MM CENTER)

05



TECHNICAL DATA

ITEM CODE	BACKSET	CASE SIZE	CENTRE DISTANCE
LAL4005	50	78X165	72
LAL4029	55	83X165	72
LAL4053	60	88X165	72

2 M 4 1 0 F 2 B C 1 0

FEATURES:-

- Easily reversible mechanism .
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Zinc Dead Bolt, Brass Follower.
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL4006,LAL4030,LAL4054)

CE BATHROOM LOCK BODY DOUBLE TURN (72MM CENTER)



TECHNICAL DATA

ITEM CODE	BACKSET	CASE SIZE	CENTRE DISTANCE
LAL4125	50	78X165	72
LAL4131	55	83X165	72
LAL4137	60	88X165	72

2 M 4 1 0 F 2 B G 1 0

FEATURES:-

- Easily reversible mechanism
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Zinc Dead Bolt, Brass Follower
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Turn for 5mm Square Snib.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Single Turn (LAL4111,LAL4117)

Also Available in Single Turn Radius Corner (LAL4112,LAL4118)

Also Available in Double Turn Radius Corner (LAL4126,LAL4132,LAL4138)

CE EURO PROFILE LATCH ONLY IN SASH LOCK BODY (72MM CENTER)



TECHNICAL DATA

ITEM CODE	BACKSET	CASE SIZE	CENTRE DISTANCE
LAL4011	50	78X165	72
LAL4035	55	83X165	72
LAL4059	60	88X165	72

2 M 4 1 0 F - B C 1 0

FEATURES:-

- Easily reversible mechanism .
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Follower.
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL4012,LAL4036,LAL4060)

CE EURO PROFILE DEAD ONLY IN SASH LOCK BODY (72MM CENTER)



TECHNICAL DATA

ITEM CODE	BACKSET	CASE SIZE	CENTRE DISTANCE
LAL4017	50	78X165	72
LAL4041	55	83X165	72
LAL4065	60	88X165	72

2 M 4 1 0 F 2 B C 0 0

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Zinc Dead Bolt
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.
- Turn for 5mm Square Snib.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL4018,LAL4042,LAL4066)

EURO PROFILE LOCK BODY SINGLE THROW (72 MM)

05



12209



FIRE TESTED
FD-20/30/60

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1630	55X72	55	83X165
LAL1631	60X72	60	88X165

3 X 8 1 1 G 3 B C 2 0

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Available with bolt through provision for 38 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL1632,LAL1633)

EURO PROFILE LOCK BODY DOUBLE THROW (72MM)



12209



FIRE TESTED
FD-20/30/60

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1679	50X72	50	78X165
LAL1661	55X72	55	83X165
LAL1662	60X72	60	88X165

3 X 8 1 1 G 3 B C 2 0

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Available with bolt through provision for 38 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL1680,LAL1663,LAL1664)

EURO PROFILE LATCH ONLY IN LOCK BODY (72MM)



12209



FIRE TESTED
FD-20/30/60

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1683	50X72	50	78X165
LAL1644	55X72	55	83X165
LAL1645	60X72	60	88X165

3	X	8	1	1	G	-	B	C	2	0
---	---	---	---	---	---	---	---	---	---	---

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Follower.
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL1684,LAL1646,LAL1647)

EURO PROFILE DEAD ONLY IN LOCK BODY SINGLE THROW (72 MM)



12209



FIRE TESTED
FD-20/30/60

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1648	55X72	55	83X165
LAL1649	60X72	60	88X165

3	X	8	1	1	G	3	B	C	0	0
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FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Brass Dead Bolt
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.
- Turn for 5mm Square Snib.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL1650,LAL1651)

EURO PROFILE DEAD ONLY LOCK BODY DOUBLE THROW (72MM)

05



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1685	50X72	50	78X165
LAL1675	55X72	55	83X165
LAL1676	60X72	60	88X165

3 X 8 1 1 G 3 B C 0 0

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Brass Dead Bolt
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.
- Turn for 5mm Square Snib.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL1686,LAL1677,LAL1678)

BATHROOM LOCK BODY 78MM CENTER



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1625	60X78	60	88X165
LAL1626	60X78	60	88X165
LAL1627	60X78	60	88X165
LAL1628	60X78	60	88X165

3 X 8 1 0 G - B G 2 0

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- LAL1625 Single Throw Variant, LAL1626 Single Throw Radius Corner Variant, LAL1627 Double Throw Variant, LAL1628 Double Throw Radius Corner Variant
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

EURO PROFILE LOCK BODY SINGLE THROW (85MM CENTER)



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL5637	55X85	55	83X165
LAL5638	60X85	60	88X165

3 X 8 1 1 G 3 B C 2 0

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Available with bolt through provision for 38 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL5641,LAL5642)

EURO PROFILE LOCK BODY DOUBLE THROW (85MM CENTER)



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL5601	50X85	50	78X165
LAL5602	55X85	55	83X165
LAL5603	60X85	60	88X165

3 X 8 1 1 G 3 B C 2 0

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Available with bolt through provision for 38 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL5610,LAL5611,LAL5612)

EURO PROFILE DEAD ONLY IN BODY DOUBLE THROW (85MM CENTER)

05



12209



FIRE TESTED
FD-20/30/60

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL5607	50X85	50	78X165
LAL5608	55X85	55	83X165
LAL5609	60X85	60	88X165

3 X 8 1 1 G 3 B C 0 0

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Brass Dead Bolt
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.
- Turn for 5mm Square Snib.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL5616,LAL5617,LAL5618)

CE EURO PROFILE LOCK BODY (85MM CENTER)



12209



CF 5531



CE



FIRE TESTED
FD-20/30/60/90/120

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL3008	45X85	45	70X170
LAL3009	50X85	50	75X170
LAL3010	55X85	55	80X170
LAL3011	60X85	60	85X170

2 M 4 1 0 F 2 B C 1 0

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

EURO PROFILE LATCH ONLY IN LOCK BODY (85MM CENTER)



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL3020	45X85	45	70X170
LAL3021	50X85	50	75X170
LAL3022	55X85	55	80X170
LAL3023	60X85	60	85X170

2	M	4	1	0	F	-	B	C	1	0
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FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Follower.
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner
(LAL3056,LAL3057,LAL3058,LAL3059)

EURO PROFILE DEAD ONLY IN LOCK BODY (85MM CENTER)



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL3032	45X85	45	70X170
LAL3033	50X85	50	75X170
LAL3034	55X85	55	80X170
LAL3035	60X85	60	85X170

2	M	4	1	0	F	2	B	C	0	0
---	---	---	---	---	---	---	---	---	---	---

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Zinc Dead Bolt
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.
- Turn for 5mm Square Snib.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner
(LAL3068,LAL3069,LAL3070,LAL3071)

EURO PROFILE LATCH ONLY IN LOCK BODY (85MM CENTER)

05



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL5604	50X85	50	78X165
LAL5605	55X85	55	83X165
LAL5606	60X85	60	88X165

3 X 8 1 1 G - B C 2 0

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Follower.
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL5613,LAL5614,LAL5615)

EURO PROFILE DEAD ONLY LOCK IN BODY SINGLE THROW (85MM CENTER)



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL5639	55X85	55	83X165
LAL5640	60X85	60	88X165

3 X 8 1 1 G 3 B C 0 0

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Brass Dead Bolt
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.
- Turn for 5mm Square Snib.
- Compatible with LAA1235, LAA1240, LAA1245.

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL5643,LAL5644)

NIGHT LATCH 85 MM CENTER



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1738	50X85	50	75X170
LAL1739	55X85	55	80X170
LAL1740	60X85	60	85X170

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Zinc Follower.
- Available with bolt through provision for 38 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles
- Operation: Latch operated by Euro Cylinders and Lever Handle

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL1744,LAL1745,LAL1746)

NIGHT LATCH 72MM CENTER



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL1735	50X72	50	75X170
LAL1736	55X72	55	80X170
LAL1737	60X72	60	85X170

FEATURES:-

- Easily reversible mechanism by turning live bolt as suitable for inward / outward opening door & screwing main face plate.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Zinc Follower.
- Available with bolt through provision for 38 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles
- Operation: Latch operated by Euro Cylinders and Lever Handle

Finish Available: SS / SATIN / POLISHED

Also Available In Radius Corner (LAL1741,LAL1742,LAL1743)

EURO PROFILE CYLINDER 4 BULLET LOCK BODY



12209



CF 5531



FIRE TESTED
FD 20 to 120



CE

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL3545	50X85	50	75X170
LAL3546	55X85	55	80X170
LAL3547	60X85	60	85X170

2	M	4	1	O	F	2	B	C	1	O
---	---	---	---	---	---	---	---	---	---	---

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, 4 Hardened Steel Bullet Pins, Brass Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.

Finish Available: SS / SATIN / POLISHED

EURO PROFILE CYLINDER TRI PIN LOCK BODY



12209



CF 5531



FIRE TESTED
FD 20 to 120



CE

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL3556	45X85	45	70X175
LAL3557	50X85	50	75X170
LAL3558	55X85	55	80X170
LAL3559	60X85	60	85X170

2	M	4	1	O	F	2	B	C	1	O
---	---	---	---	---	---	---	---	---	---	---

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Tripin deadbolt, Brass Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.

Finish Available: SS / SATIN / POLISHED

EURO PROFILE CYLINDER 2 BULLET + BOLT LOCK BODY



12209



CF 5531



FIRE TESTED
FD 20 to 120



CE

TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LAL3605	50X85	50	75X170
LAL3606	55X85	55	80X170
LAL3607	60X85	60	85X170

2 | M | 4 | 1 | 0 | F | 2 | B | C | 1 | 0

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Deadbolt with Two Hardened Steel Bullets, Brass Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.

Finish Available: SS / SATIN / POLISHED

05

ENDURO LOCK BODY



LLL0201

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Tripin deadbolt, Brass / Sintered Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.

Finish Available: SS / SATIN / POLISHED

ENDURO LOCK BODY TRI PIN



LLL B0202

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Tripin deadbolt, Brass / Sintered Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.

Finish Available: SS / SATIN / POLISHED

ENDURO LOCK BODY 4 BOLT



LLL B0203

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Tripin deadbolt, Brass / Sintered Follower.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.

Finish Available: SS / SATIN / POLISHED

EURO CYLINDER LOCK BODY



LLLB0001

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Zinc Dead Bolt, Brass Follower.
- Backset 50 mm
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.

Finish Available: SS / SATIN / POLISHED

EURO CYLINDER LOCK BODY



LLLB0002

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Zinc Dead Bolt, Brass Follower.
- Backset 60 mm
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.

Finish Available: SS / SATIN / POLISHED

EURO CYLINDER LOCK BODY

05



LLLB0011

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Backset 50 mm
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.

Finish Available: SS / SATIN / POLISHED

EURO CYLINDER LOCK BODY



LLLB0012

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Dead Bolt, Brass Follower.
- Backset 60 mm
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.
- Available as latch only and dead lock only variants.

Finish Available: SS / SATIN / POLISHED

ROLLER LOCK BODY



TECHNICAL DATA

ITEM CODE	SIZE	BACKSET	CASE SIZE
LLL0013	50X85	50	75X170

FEATURES:-

- Roller Bolt suitable for both side opening doors.
- Strike Plate & Face Plate Stainless Steel.
- Brass Roller Bolt, Brass Deadbolt
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Roller Bolt Tested for 200,000 Cycles & Dead Bolt for 50,000 Cycles.
- Operation: Deadbolt operated by Euro Cylinders.

Finish Available: **SS / SATIN / POLISHED**

EURO PROFILE DEAD LOCK



12209



CF 5531



FIRE TESTED
FD 20 to 120



CE

TECHNICAL DATA

ITEM CODE	TYPE OF BOLT
LAL5155	Solid
LAL5161	4 Bullet
LAL5167	Tri-pin
LAL5173	Bolt With 2 Bullet

2 M 4 1 0 F 2 B C 0 0

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Dead Bolt Tested for 50,000 Cycles.
- Standard backset of 50mm.

Finish Available: **SS / SATIN / POLISHED**

DEAD LOCK



05

LLDL0001

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Dead Bolt Tested for 50,000 Cycles.
- Standard backset of 50mm.

Finish Available: **SS / SATIN / POLISHED**

ENDURO DEAD LOCK



LLDL0401

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Dead Bolt Tested for 50,000 Cycles.
- Standard backset of 50mm.
- Anti Hexa rod in Dead Bolt.

Finish Available: **SS / SATIN / POLISHED**

ENDURO DEAD LOCK TRI PIN**LLDL0402****FEATURES:-**

- Strike Plate & Face Plate Stainless Steel.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Brass Tripin Tested for 50,000 Cycles.
- Standard backset of 50mm.

Finish Available: SS / SATIN / POLISHED**05****ENDURO DEAD LOCK 3 BOLT****LLDL0403****FEATURES:-**

- Strike Plate & Face Plate Stainless Steel.
- Available with bolt through provision for 38 to 42 mm bolt through centre.
- Hardened Steel Bullet Tested for 50,000 Cycles.
- Standard backset of 50mm.

Finish Available: SS / SATIN / POLISHED

DEAD LOCK DOUBLE JAW TYPE

05



LLDL0101

FEATURES:-

- Strike Plate & Face Plate Stainless Steel.
- Double Jaw SS Dead Bolt
- Dead Bolt tested for 50,000 Cycles.

Finish Available: SS / SATIN / POLISHED

DEAD LOCK FOR SLIDING DOOR



LLDL0102

FEATURES:-

- Complete Stainless Steel lock
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.

Finish Available: SS / SATIN / POLISHED

SLIDING DOOR DEAD LOCK NARROW BODY



LLDL0103

FEATURES:-

- Complete Stainless Steel lock
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Dead Bolt tested for 50,000 Cycles.

Finish Available: SS / SATIN / POLISHED

ENDURO LOCK BODY JR



LLLB0301

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass Follower & Brass / Sintered Dead Bolt.
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles

Finish Available: SS / SATIN / POLISHED

ENDURO JR. LOCK BODY 3 BOLT

05



LLLB0303

FEATURES:-

- Easily reversible mechanism by moving Snib on body up, turning live bolt as suitable and pushing it back.
- Follower is suitable for 8mm square spindle.
- Strike Plate & Face Plate Stainless Steel.
- Brass Live Bolt, Brass / Sintered Follower & 3 Hardened Steel Bullet.
- Available with bolt through provision for 38 to 40 mm bolt through centre.
- Live Bolt Tested for 200,000 Cycles, Hardened Steel Bullet Tested for 50,000 Cycles.

Finish Available: SS / SATIN / POLISHED

8" LOCK BODY



LLLB0305

FEATURES:-

- Screw based reversible mechanism i.e. open the screw in live bolt & rotate to change from inside opening to out side opening & screwed back.
- Follower is suitable for 8mm square spindle.
- Zinc Live bolt, Dead bolt, Follower.
- SS Striker Plate & Face Plate.
- Live bolt tested for 200,000 Cycles & Dead Bolt for 50,000 cycles.
- Available with bolt through provision for 30 to 38 mm bolt through centre.

Finish Available: SS / SATIN / POLISHED

ENDURO 6 LEVER LOCK (SINGLE TURN)



LL6L0001

FEATURES:-

- Over 100 Key differs.
- Pull and Turn Reversible Mechanism
- Follower is suitable for 8mm square spindle.
- Brass Live bolt, Dead bolt
- SS Striker Plate & Face Plate.
- Live bolt tested for 200,000 Cycles & Dead Bolt for 50,000 cycles.
- Available with bolt through provision for 30 to 38 mm bolt through centre.

Finish Available: SS / SATIN / POLISHED

ENDURO 6 LEVER LOCK (DOUBLE TURN)



LL6L0002

FEATURES:-

- Over 100 Key differs.
- Pull and Turn Reversible Mechanism
- Follower is suitable for 8mm square spindle.
- Brass Live bolt, Dead bolt
- SS Striker Plate & Face Plate.
- Live bolt tested for 200,000 Cycles & Dead Bolt for 50,000 cycles.
- Available with bolt through provision for 30 to 38 mm bolt through centre.

Finish Available: SS / SATIN / POLISHED

ENDURO KY DEAD LOCK (SINGLE TURN)

05



LL6L0004

FEATURES:-

- Over 100 Key differs.
- Brass Dead bolt & Steel Key.
- SS Striker Plate & Face Plate.
- Dead Bolt Tested for 50,000 cycles.

Finish Available: SS / SATIN / POLISHED

ENDURO KY DEAD LOCK (DOUBLE TURN)



LL6L0005

FEATURES:-

- Over 100 Key differs.
- Brass Dead bolt & Steel Key.
- SS Striker Plate & Face Plate.
- Dead Bolt Tested for 50,000 cycles.

Finish Available: SS / SATIN / POLISHED

SPECIAL BATHROOM LOCK BODY



LLBR0001

FEATURES:-

- Pull and Turn Reversible Mechanism
- Follower is suitable for 8mm square spindle.
- Brass Live bolt, Dead bolt
- SS Striker Plate & Face Plate.
- Live bolt tested for 200,000 Cycles & Dead Bolt for 50,000 cycles.
- Available with bolt through provision for 30 to 38 mm bolt through centre.

Finish Available: SS / SATIN / POLISHED

6 LEVER SASH LOCK



LL6L0009

FEATURES:-

- Over 100 Key differs.
- Pull and Turn Reversible Mechanism
- Follower is suitable for 8mm square spindle.
- Zinc Live Bolt, Dead Bolt and Follower.
- SS Striker Plate & Face Plate.
- Live bolt tested for 200,000 Cycles & Dead Bolt for 50,000 cycles.
- Available with bolt through provision for 30 to 38 mm bolt through centre.

Finish Available: SS / SATIN / POLISHED

ARCHITECTURAL LATCH

05



LLBL0001

FEATURES:-

- Latch operated by lever handles.
- Case Mild Steel, epoxy powder coated.
- Square forend & Striker Plate
- Guided Latchbolt : Brass Self handing
- Follower 8mm brass.
- Suitable for bolt through 32-38mm center.

Finish Available: **SS / SATIN / POLISHED**

ENDURO BABY LATCH



LLBL0101

FEATURES:-

- Latch operated by lever handles.
- Case Mild Steel, epoxy powder coated.
- SS Square forend & Striker Plate
- Guided Latchbolt : Brass Self handing
- Follower 8mm brass.
- Suitable for bolt through 32-38mm center.

Finish Available: **SS / SATIN / POLISHED**

BABY LATCH



LLBL0102

FEATURES:-

- Latch operated by lever handles.
- Case Mild Steel, epoxy powder coated.
- SS Square forend & Striker Plate
- Guided Latchbolt : Zinc Self handing
- Follower 8mm
- Suitable for bolt through 32-38mm center.

Finish Available: SS / SATIN / POLISHED



Euro Profile Cylinder

Euro Profile Cylinder Normal



Euro Profile Half Cylinder



TECHNICAL DATA

ITEM CODE	SIZE	TYPE OF KEY	FINISH	TYPE OF CYLINDER
LLEL1001	60	Normal	SN	BSK
LLEL1002	70	Normal	SN	BSK
LLEL1003	80	Normal	SN	BSK
LLEL1004	90	Normal	SN	BSK
LLEL1005	100	Normal	SN	BSK
LLEL1011	60	Normal	Brass	BSK
LLEL1012	70	Normal	Brass	BSK
LLEL1013	80	Normal	Brass	BSK
LLEL1014	90	Normal	Brass	BSK
LLEL1015	100	Normal	Brass	BSK
LLEL1101	60	Normal	SN	CK
LLEL1102	70	Normal	SN	CK
LLEL1103	80	Normal	SN	CK
LLEL1104	90	Normal	SN	CK
LLEL1105	100	Normal	SN	CK
LLEL1111	60	Normal	Brass	CK
LLEL1112	70	Normal	Brass	CK
LLEL1113	80	Normal	Brass	CK
LLEL1114	90	Normal	Brass	CK
LLEL1115	100	Normal	Brass	CK

FEATURES:-

- High quality genuine brass cylinder.
- CNC machined keys and cylinder.
- Common key available on request.
- Master key available on request.
- Three brass key supplied with cylinder.
- Other finish available on request.
- Other sizes available on request.
- Two tier construction key available on request

TECHNICAL DATA

ITEM CODE	SIZE	TYPE OF KEY	FINISH	TYPE OF CYLINDER
LLEL3501	40	Normal	SN	Half cylinder
LLEL3601	40	N/A	SN	Half cylinder knob
LLEL3511	40	Normal	BRASS	Half cylinder
LLEL3602	40	N/A	BRASS	Half cylinder knob

FEATURES:-

- High quality genuine brass cylinder.
- CNC machined keys and cylinder.
- Common key available on request .
- Master key available on request.
- Three brass key supplied with cylinder
- Other finish available on request.
- Other sizes available on request.

06

Euro Profile Cylinder Computer Key



TECHNICAL DATA

ITEM CODE	SIZE	TYPE OF KEY	FINISH	TYPE OF CYLINDER
LLEC2001	60	Computer	SN	BSK
LLEC2002	70	Computer	SN	BSK
LLEC2003	80	Computer	SN	BSK
LLEC2004	90	Computer	SN	BSK
LLEC2005	100	Computer	SN	BSK
LLEC2011	60	Computer	Brass	BSK
LLEC2012	70	Computer	Brass	BSK
LLEC2013	80	Computer	Brass	BSK
LLEC2014	90	Computer	Brass	BSK
LLEC2015	100	Computer	Brass	BSK
LLEC2101	60	Computer	SN	CK
LLEC2102	70	Computer	SN	CK
LLEC2103	80	Computer	SN	CK
LLEC2104	90	Computer	SN	CK
LLEC2105	100	Computer	SN	CK
LLEC2111	60	Computer	Brass	CK
LLEC2112	70	Computer	Brass	CK
LLEC2113	80	Computer	Brass	CK
LLEC2114	90	Computer	Brass	CK
LLEC2115	100	Computer	Brass	CK

06

FEATURES:-

- High quality genuine brass cylinder
- CNC machined keys and cylinder
- common key available on request
- Five brass key supplied with cylinder
- Other finish available on request.
- Other Sizes available on request.

Euro Profile Cylinder Privacy



TECHNICAL DATA

ITEM CODE	SIZE	TYPE OF KEY	FINISH	TYPE OF CYLINDER
LLEL3101	60	N/A	SN	Privacy cylinder
LLEL3102	70	N/A	SN	Privacy cylinder
LLEL3111	60	N/A	Brass	Privacy cylinder
LLEL3112	70	N/A	Brass	Privacy cylinder

FEATURES:-

- High quality genuine brass cylinder.
- CNC machined keys and cylinder.
- Other finish available on request.
- Other sizes available on request.

Euro Profile Cylinder Snake Key



TECHNICAL DATA

ITEM CODE	SIZE	TYPE OF KEY	FINISH	TYPE OF CYLINDER
LLES0701	60	Snake	SN	BSK
LLES0702	70	Snake	SN	BSK
LLES0711	60	Snake	Brass	BSK
LLES0712	70	Snake	Brass	BSK
LLES0801	60	Snake	SN	CK
LLES0802	70	Snake	SN	CK
LLES0811	60	Snake	Brass	CK
LLES0812	70	Snake	Brass	CK

FEATURES:-

- High quality genuine brass cylinder.
- CNC machined keys and cylinder.
- Five brass key supplied with cylinder.

Euro Profile Cylinder Pin in Pin



TECHNICAL DATA

ITEM CODE	SIZE	TYPE OF KEY	FINISH	TYPE OF CYLINDER
LLEH0001	60	Pin in Pin	SN	BSK
LLEH0011	70	Pin in Pin	Brass	BSK
LLEH0101	60	Pin in Pin	SN	CK
LLEH0111	70	Pin in Pin	Brass	CK

FEATURES:-

- High quality genuine brass cylinder.
- CNC machined keys and cylinder.
- Five brass keys.

Euro Profile Cylinder Quattro



TECHNICAL DATA

ITEM CODE	SIZE	TYPE OF KEY	FINISH	TYPE OF CYLINDER
LLEQ0001	62	High Security	SN	Quattro BSK
LLEQ0002	70	High Security	SN	Quattro BSK
LLEQ0011	62	High Security	Brass	Quattro BSK
LLEQ0012	70	High Security	Brass	Quattro BSK

FEATURES:-

- High quality genuine brass cylinder
- CNC machined keys and cylinder
- Five Brass Keys



Main Door Locks

ROLLER BOLT



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0031	ROLLER BOLT	BEIGE	2C
LLNL0032	ROLLER BOLT	BEIGE	CK
LLNL0033	ROLLER BOLT	BROWN	2C
LLNL0034	ROLLER BOLT	BROWN	CK
LLNL0035	ROLLER BOLT	SS	2C
LLNL0036	ROLLER BOLT	SS	CK

FEATURES:-

- 14 Pin Computer Key, 5 Keys.
- Over 10 Lakhs key combination available.
- SS 304 Grade Body.
- Available Finish - Satin, Beige Brass & Antique.
- Brass Bolt.

TWIN BOLT

07



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0019	TWIN BOLT	BEIGE	2C
LLNL0020	TWIN BOLT	BEIGE	CK
LLNL0021	TWIN BOLT	BROWN	2C
LLNL0022	TWIN BOLT	BROWN	CK
LLNL0023	TWIN BOLT	SS	2C
LLNL0024	TWIN BOLT	SS	CK
LLNL0025	TWIN BOLT	BEIGE	2C
LLNL0026	TWIN BOLT	BEIGE	CK
LLNL0027	TWIN BOLT	BROWN	2C
LLNL0028	TWIN BOLT	BROWN	CK
LLNL0029	TWIN BOLT	SS	2C
LLNL0030	TWIN BOLT	SS	CK

FEATURES:-

- 14 Pin Computer Key, 5 Keys.
- Over 10 Lakhs key combination available.
- SS 304 Grade Body.
- Available Finish - Satin, Beige Brass & Antique.
- Brass Bolt.

PENTA BOLT



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0041	PENTA BOLT	SS	2C
LLNL0042	PENTA BOLT	ANTIQU	CK
LLNL0043	PENTA BOLT	SS	2C
LLNL0044	PENTA BOLT	ANTIQU	CK

FEATURES:-

- 14 Pin Computer Key, 5 Keys.
- Over 10 Lakhs key combination available.
- SS 304 Grade Body.
- Available Finish - Satin, Beige Brass & Antique.
- Brass Latch & Brass Bolt.

NIGHT LATCH



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0013	NIGHT LATCH	BEIGE	2C
LLNL0014	NIGHT LATCH	BROWN	CK
LLNL0015	NIGHT LATCH	SS	2C
LLNL0016	NIGHT LATCH	BEIGE	CK
LLNL0017	NIGHT LATCH	BROWN	2C
LLNL0018	NIGHT LATCH	SS	CK

FEATURES:-

- 14 Pin Computer Key, 5 Keys.
- Over 10 Lakhs key combination available.
- SS 304 Grade Body.
- Available Finish - Satin, Beige Brass & Antique.
- Brass Latch.

DEAD LOCK



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH
LLNL0013	DEAD LOCK	BEIGE
LLNL0014	DEAD LOCK	BROWN
LLNL0015	DEAD LOCK	SS

FEATURES:-

- 14 Pin Computer Key, 5 Keys.
- Over 10 Lakhs key combination available.
- SS 304 Grade Body.
- Available Finish - Satin, Beige Brass & Antique.
- Brass Bolt.

TRI BOLT



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0037	TRI BOLT	SS	CK
LLNL0038	TRI BOLT	ANTIQUE	CK
LLNL0039	TRI BOLT	SS	2C
LLNL0040	TRI BOLT	ANTIQUE	2C

FEATURES:-

- 14 Pin Computer Key, 5 Keys.
- Over 10 Lakhs key combination available.
- SS 304 Grade Body.
- Available Finish - Satin, Beige Brass & Antique.
- Brass Latch & Brass Bolt.

PENTA DEAD BOLT



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0048	PENTA DEAD BOLT	SS	CK
LLNL0049	PENTA DEAD BOLT	ANTIQUE	CK
LLNL0050	PENTA DEAD BOLT	SS	2C
LLNL0051	PENTA DEAD BOLT	ANTIQUE	2C

FEATURES:-

- 14 Pin Computer Key, 5 Keys.
- Over 10 Lakhs key combination available.
- SS 304 Grade Body.
- Available Finish - Satin, Beige Brass & Antique.
- Hardened Steel Bullets.

MIRAGE TWIN BOLT



TECHNICAL DATA

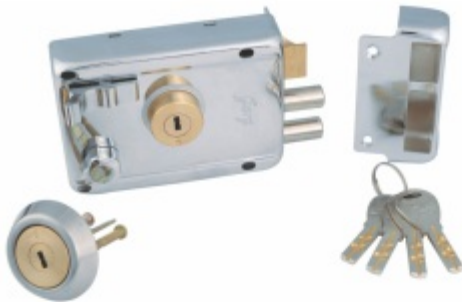
ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0001	MIRAGE TWIN BOLT	SS	2C
LLNL0002	MIRAGE TWIN BOLT	SS	CK

FEATURES:-

- Unique snake shape key slot to avoid key duplication
- Unique (patent applied) racing cylinder where in an incorrect key lets the user rotate the cylinder, but it does not work the lock, thus making it impossible to duplicate the key
- Heavy duty stainless steel lock body in satin finish to suit modern interior designs
- Available in Both Side Key 2C and Key & Knob CK Function.

07

TWIN BOLT



TECHNICAL DATA

ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0003	TWIN BOLT	SS	2C
LLNL0004	TWIN BOLT	SS	CK

FEATURES:-

- Hardened Steel Bolt.
- Brass Latch.
- Heavy Duty Mild Steel Body (2mm).
- Available in Computer Key / Normal Key option.
- Available in Both Side Key 2C and Key & Knob CK Function.

VERTI BOLT



TECHNICAL DATA

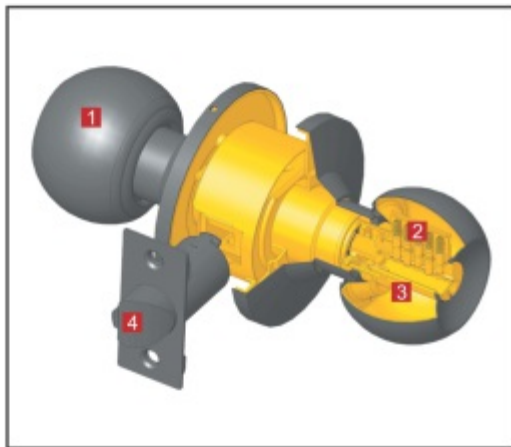
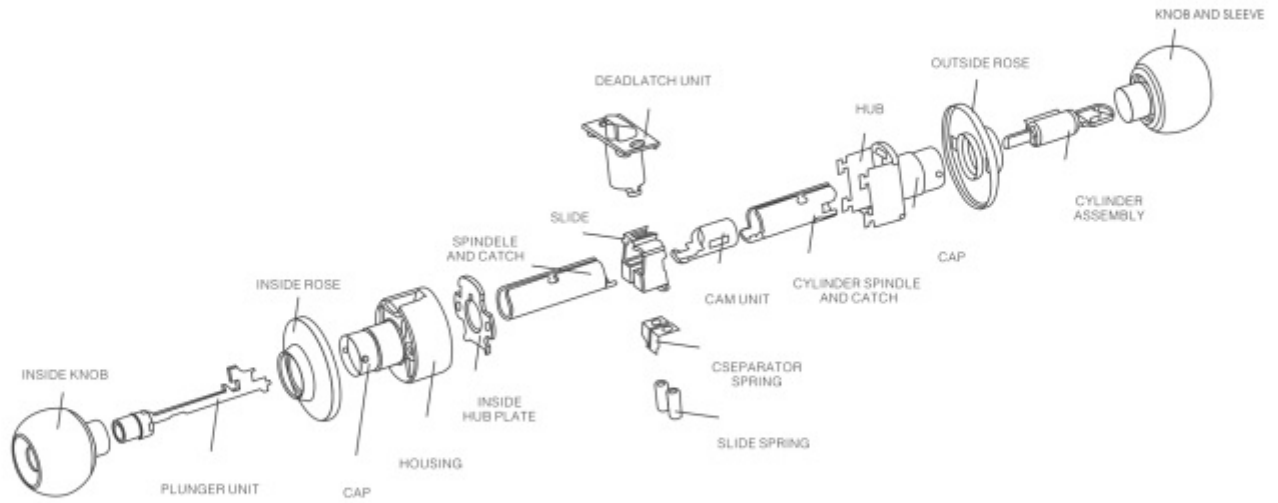
ITEM CODE	DESCRIPTION	FINISH	TYPE OF CYLINDER
LLNL0005	VERTI BOLT	BROWN	CK
LLNL0006	VERTI BOLT	BEIGE	CK
LLNL0007	VERTI BOLT	BROWN	2C
LLNL0008	VERTI BOLT	BEIGE	2C
LLNL0009	VERTI BOLT	ANTIQUA	CK
LLNL0010	VERTI BOLT	ANTIQUA	2C
LLNL0011	VERTI BOLT	SS	CK
LLNL0012	VERTI BOLT	SS	2C

FEATURES:-

- Scratch resistant Powder Coated finish Zinc Body.
- Computerized Key combination.
- Available Finish - Brown, Beige, SS & Antique.
- It is used in wardrobe doors, wood & steel doors, sliding doors, folding doors & single and double shutter doors.
- Available in Both Side Key 2C and Key & Knob CK Function.



Knob Lock



- 1** Two piece knob for better security
- 2** Spool pins for picking resistance in
- 3** Solid brass cylinder
- 4** Anti hexa pin for hexa resistance

Cylinders :

5 - Pin cylinder with 3 brass keys per lock. The locks are supplied with standard 5 - Pin keys.

Door Thickness :

Standard 35 to 45 mm (1-3/8 to 1-3/4")

Backset :

The standard backset 60mm & 70mm (2-3/4")



300000 cycles*



backset 60mm/ 70mm



handle reversiable



No. of keys



pin tumbler cylinder



Door thickness
35-45mm



Suitable for wooden door



Suitable for metal door



Suitable for outside door

* Applicable For Model No. LLKL0009 to LLKL0016

KNOB LOCK WITH COMPUTER KEY (G304)



CODE	BACKSET	FINISH
LLKL0021	60	SATIN
LLKL0022	60	BRASS
LLKL0023	60	ANTIQUÉ
LLKL0024	70	SATIN
LLKL0025	70	BRASS
LLKL0026	70	ANTIQUÉ

FEATURES:-

- High Quality SS304 Grade KnobLock
- CNC machined keys and cylinder.
- Brass Keys
- Brass Cylinder
- Tested for over 3 lakh cycles
- Heavy Duty latch suitable for Heavy Doors
- Supplied with 4 keys

KNOB LOCK WITH NORMAL KEY (G304)



CODE	BACKSET	FINISH
LLKL0009	60	SATIN
LLKL0010	60	BRASS
LLKL0011	60	ANTIQUÉ
LLKL0012	70	SATIN
LLKL0013	70	BRASS
LLKL0014	70	ANTIQUÉ

FEATURES:-

- High Quality SS304 Grade KnobLock
- CNC machined keys and cylinder.
- Brass Keys
- Brass Cylinder
- Tested for over 3 lakh cycles
- Heavy Duty latch suitable for Heavy Doors
- Supplied with 4 keys

KNOB LOCK WITH PRIVACY FUNCTION (G304)



CODE	BACKSET	FINISH
LLKL0015	60	SATIN
LLKL0016	60	BRASS
LLKL0017	60	ANTIQUÉ
LLKL0018	70	SATIN
LLKL0019	70	BRASS
LLKL0020	70	ANTIQUÉ

FEATURES:-

- High Quality SS304 Grade KnobLock
- With Privacy Function
- Tested for over 3 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK WITH COMPUTER KEY HEAVY DUTY



CODE	BACKSET	FINISH
LLKL0301	60	SATIN
LLKL0302	60	TWO TONE
LLKL0303	70	SATIN
LLKL0304	70	TWO TONE
LLKL0311	60	BRASS
LLKL0321	60	ANTIQUE

FEATURES:-

- High Quality SS304 Grade KnobLock
- CNC machined keys and cylinder.
- 4 Brass Keys
- Brass Cylinder
- Tested for over 1.5 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK WITH NORMAL KEY HEAVY DUTY

08



CODE	BACKSET	FINISH
LLKL0201	60	SATIN
LLKL0202	60	TWO TONE
LLKL0203	70	SATIN
LLKL0204	70	TWO TONE
LLKL0211	60	BRASS
LLKL0221	60	ANTIQUE

FEATURES:-

- High Quality SS304 Grade KnobLock
- CNC machined keys and cylinder.
- 4 Brass Keys
- Brass Cylinder
- Tested for over 1.5 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK WITH PRIVACY FUNCTION HEAVY DUTY



CODE	BACKSET	FINISH
LLKL0205	60	SATIN
LLKL0206	60	TWO TONE
LLKL0207	70	SATIN
LLKL0208	70	TWO TONE
LLKL0215	60	BRASS
LLKL0225	60	ANTIQUE

FEATURES:-

- High Quality SS304 Grade KnobLock
- With Privacy Function
- Tested for over 1.5 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK WITH COMPUTER KEY HEAVY DUTY



CODE	BACKSET	FINISH
LLKL0311	60	SATIN

FEATURES:-

- High Quality SS201 Grade KnobLock
- CNC machined keys and cylinder.
- 3 Brass Keys
- Brass Cylinder
- Tested for over 1.5 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK WITH NORMAL KEY HEAVY DUTY



CODE	BACKSET	FINISH
LLKL0231	60	SATIN

FEATURES:-

- High Quality SS201 Grade KnobLock
- CNC machined keys and cylinder.
- 3 Brass Keys
- Brass Cylinder
- Tested for over 1.5 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK WITH PRIVACY FUNCTION HEAVY DUTY



CODE	BACKSET	FINISH
LLKL0235	60	SATIN

FEATURES:-

- High Quality SS201 Grade KnobLock
- With Privacy Function
- Tested for over 1.5 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK PASSAGE



CODE	BACKSET	FINISH
LLKL0252	60	SATIN

FEATURES:-

- High Quality SS304 Grade KnobLock
- Tested for over 1.5 lakh cycles
- Suitable for passage doors requiring only Latching

CYLINDRICAL KNOB LOCK



CODE	BACKSET	FINISH
LLKL9210	60	BRASS
LLKL9211	60	ANTIQUE

FEATURES:-

- CNC machined keys and cylinder.
- 4 Brass Keys
- Brass Cylinder
- Tested for over 2 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK WITH NORMAL KEY

08



CODE	BACKSET	FINISH
LLKL0101	60	SATIN
LLKL0102	70	SATIN
LLKL0111	60	BRASS
LLKL0131	60	ANTIQUE
LLKL0161	60	BRASS
LLKL0171	60	ANTIQUE

FEATURES:-

- High Quality SS304 Grade KnobLock
- CNC machined keys and cylinder.
- 3 Brass Keys
- Brass Cylinder
- Tested for over 1 lakh cycles
- Heavy Duty latch suitable for Heavy Doors

KNOB LOCK PRIVACY



CODE	BACKSET	FINISH
LLKL0103	60	SATIN
LLKL0104	70	SATIN
LLKL0113	60	BRASS
LLKL0133	60	ANTIQUE
LLKL0163	70	BRASS
LLKL0173	70	ANTIQUE

FEATURES:-

- High Quality SS304 Grade KnobLock
- With Privacy Function
- Tested for over 1 lakh cycles
- Heavy Duty latch suitable for Heavy



Door Control Devices



DCA0045

FEATURES:-

- The max width of door is 500-1000mm suitable for the door weight of 25-45kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCA0060

FEATURES:-

- The max width of door is 500-1000mm suitable for the door weight of 45-60kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCA1060

FEATURES:-

- The max width of door is 500-1000mm suitable for the door weight of 45-60kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCA1080

FEATURES:-

- The max width of door is 500-1000mm suitable for the door weight of 65-80kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCA0120

FEATURES:-

- The max width of door is 500-1000mm suitable for the door weight of 80-120kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCA2045

FEATURES:-

- The max width of door is 500-1000mm suitable for the door weight of 45-60kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCB0045

FEATURES:-

- The max width of door is 600-1100mm suitable for the door weight of 25-45kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCB0060

FEATURES:-

- The max width of door is 1000-2000 mm suitable for the door weight of 45-60kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCB1060

FEATURES:-

- The max width of door is 1000-2000 mm suitable for the door weight of 45-60kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCB1080

FEATURES:-

- The max width of door is 1000-2000mm suitable for the door weight of 65-80kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCA3080

FEATURES:-

- The max width of door is 1000-2000 mm suitable for the door weight of 80-110kg.
- With a function of stopping at anchor point of 90° .
- Distance : 132mm x 19mm.
- The adjustable section of closing speed is 180° - 20° the adjustable section of locking is 20° - 0°.
- High quality painting to enhance surface life.
- Suitable for fire doors.
- 3 Lakh Cycles.



DCC0080

FEATURES:-

- Suitable for door width upto 950mm, weight upto 65kg.
- Slim body (33mm) for easy concealed installation
- High quality painting to enhance surface life
- 3 Lakh Cycles.

FLOOR SPRING 60KG

FLS908



FLOOR SPRING 90KG

FLS918



SPECIAL FEATURES

- * High quality casted iron floor spring body in double layer coated steel body, stainless steel cover
- * Suitable for both single and double action doors. Internal mechanism parts heat treated & with ball bearings for optimum wear resistance and efficiency
- * Closer mechanism immersed completely in hydraulic fluid
- * Stable Hydraulic fluid suitable for all weather and construction lubrication
- * Floor spring comply to EN 1154 standard
- * Double action opening. Hold open at 90
- * Can be used with glass door 8-12mm, wooden door, iron door, aluminum door
- * Adjustable closing and Latching speed
- * Tested for 5,00,000 cycles
- * German machine oil and sealed rings, keep perfect working even in extreme temperatures.

FLOOR SPRING 120KG

FLS948



FLOOR SPRING 150KG

FLS938



09

TECHNICAL DETAILS

MAXIMUM DOOR WEIGHT : 60 KG TO 150 KG
MAXIMUM DOOR WIDTH : 900MM
MAXIMUM OPENING ANGLE : MAX. 116° , HOLD OPEN AT 90°
DOUBLE WAY OPENING : DOUBLE WAYS OPENING
CLOSING SPEED ADJUSTABLE : 116° - 20°
LATCHING SPEED ADJUSTABLE : 20°-0°



Patch Fittings

TOP PIVOT



PFE0001

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.

BOTTOM PATCH



PFE0002

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.

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TOP PATCH



PFE0003

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.

OVER PANEL PATCH



PFE0004

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.

OVER PANEL SIDE PANEL PATCH CONNECTING PATCH



PFE0005

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.

BOTTOM LOCK PATCH WITH CYLINDER



PFE0006

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.

BOTTOM PATCH WITH PIVOT



PFE0007

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.

TOP CORNER PATCH GLASS TO GLASS



PFE0008

FEATURES:-

- Suitable for glass door and decorative glass of 10mm- 12mm thickness.



Accessories



ADSM012

Door Eye
Brass / Chrome



ADSB0101

Door Viewer
Brass / Chrome



ACC20

Door Buffer
UPVC



DFV0002

Door Buffer (Rubber)
RUBBER



ADSS0001

Magnetic Door Stopper
Satin



Hanging Premium Door Stopper
Stainless Steel



Single Rod Door Stopper
Stainless Steel



ADSZ011

Indicator Bolt
Brass / CP / Satin



Double Rod Door Stopper
Stainless Steel

KCK0001



SS Kick Plate



Sliding Door Bolt
Stainless Steel



Door Locking Bolt
ZP / Nickel



ADSZ0003

Security Door Chain
Nickel



ADSZ0001

Security Bolt
Nickel / EB



DS0001

Wall Mount Door Stopper
Stainless Steel



Stainless Steel Hasp & Staple
Size - 2", 2.5", 3" & 4"



1486SS

Half Mount Door Stopper

Satin



1706

Spring Door Stopper

Mild Steel



Pull/Push Sign

Stainless Steel



Also Available in

IS : 15833



Stainless Steel Premium Tower Bolt

Size - 4", 6", 8", 12", 18", 24" & 36"



ACC19

PVC Magnetic Door Stopper

PVC (Black)



Stainless Steel Gate Hook

Size - 2", 2.5", 3", 4", 5", 6" & 8"



Also Available in

IS : 15834



**Stainless Steel Aldrop
(12mm/14mm/16mm Rod)**

Size - 8", 10" & 12"



Stainless Steel Barrel Bolt Necked (Light / Heavy)

Size - 2", 2.5", 3", 4" & 6"



Stainless Steel Premium Gate Latch

Size - 8" & 10"



Stainless Steel Premium Aldrop (14mm)

Size - 8", 10" & 12"



MALE
ADSS0020



DISABLE
ADSS0019



FEMALE
ADSS0021



**FIRE DOOR
KEEP CLEAR**
ADSS0029



UNISEX
ADSS0017



**FIRE DOOR
KEEP LOCKED**
ADSS0025



PUSH
ADSS0024



**FIRE DOOR
KEEP SHUT**
ADSS0022



PULL
ADSS0023



**AUTOMATIC FIRE
DOOR KEEP
CLEAR**
ADSS0028



Hinges



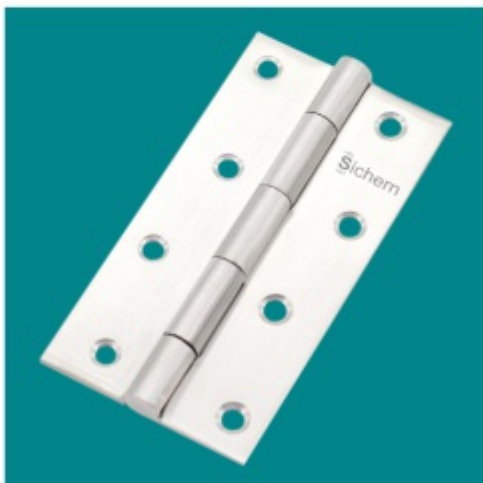
Stainless Steel Cut & Narrow
Sichern Hinge

Size : 3X1/2X3/4 (16G)
3X3/4X3/4 (16G)



Stainless Steel Heavy Butt
Sichern Hinge

Size : 3X12
4X12
5X12
5X10
4X3X10
5X3X10



Stainless Steel Medium Butt
Sichern Hinge

Size : 3X16
4X14
5X14

CE 7, FD 30 Certification Approved Option Available



Stainless Steel Sichern Railway Hinge

Size : 4X28X3.2
4X31.5X3.2
5X28X3.5
5X31.5X3.5
5X38X4
6X28X3.6
6X31.5X3.6
6X38X4
8X31.5X5
8X38X5



Sichern Concealed Hinge

Size : 45X13
60X13
70X16
95X19
117X25
117X29
139X35



CE 13 HINGE
Stainless Steel Ball Bearing
Hinges (304 Grade)

-
- Size : 4X3X3
4X3¹/₂X3
4X4X3
4¹/₂X4X3.4
4¹/₂X4¹/₂X3.4
5X3X3
5X3¹/₂X3
5X4X3
6X3X3
6X4X3
8X4X3.4



CE 13 HINGE
Stainless Steel Ball Bearing
Hinges (J4 Grade)

-
- Size : 4X3X3
4X3¹/₂X3
4X4X3
4¹/₂X4X3.4
4¹/₂X4¹/₂X3.4
5X3X3
5X3¹/₂X3
5X4X3
6X3X3
6X4X3
8X4X3.4



CE 11 HINGE
Stainless Steel Ball Bearing
Hinge (304 Grade)

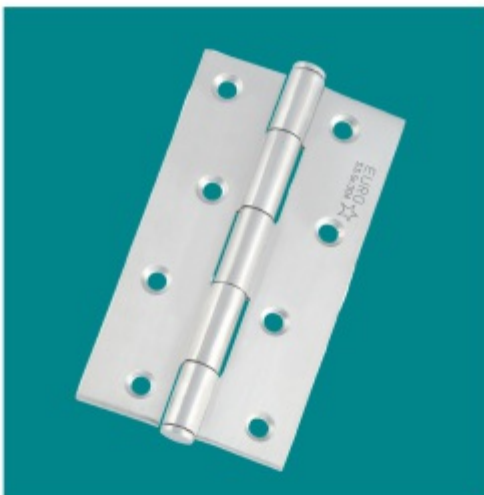
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- Size : 3X2X2
3X2.5X2.5
4X3X2
4X3X2.5
4X12
5X12



CE 11 HINGE

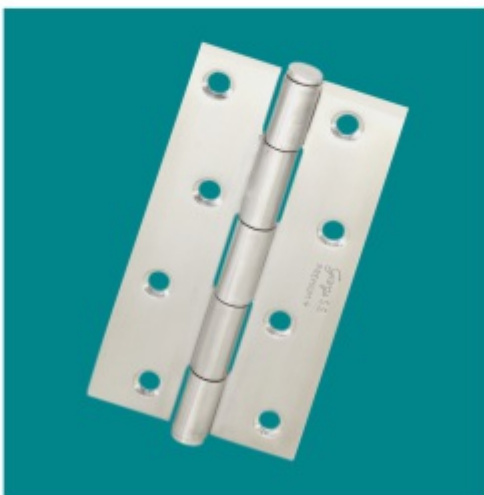
Stainless Steel Ball Bearing Hinge (J4 Grade)

-
- Size : 3X2X2
3X2.5X2.5
4X3X2
4X3X2.5
4X12
5X12



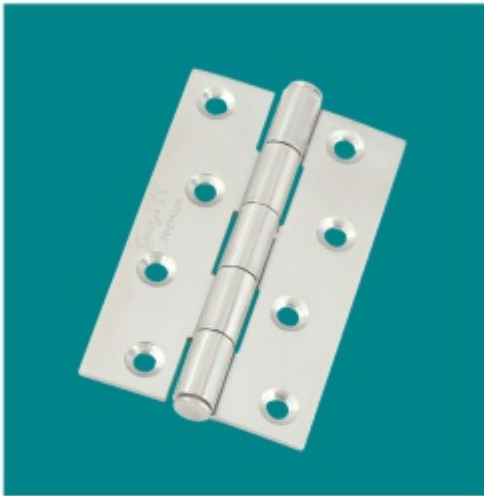
Stainless Steel Euro Star Hinge (304 Grade)

-
- Size : 3X1/2X3/4
3X3/4X3/4
4X1/2X3/4
4X3/4X3/4
3X16#
4X14#
5X14#
3X12#
4X12#
5X12
6X12
5X10



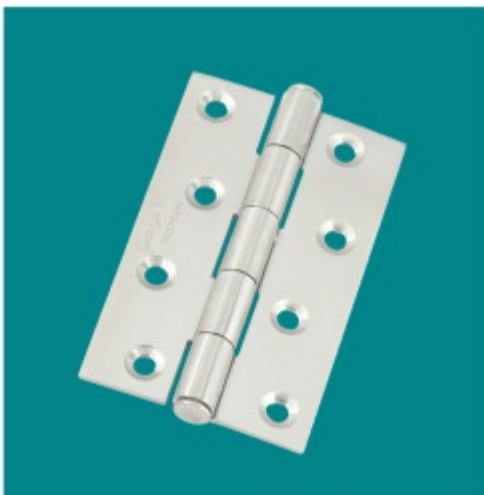
Stainless Steel Premium Plus Hinge (J7 Grade)

-
- Size : 3X1/2X3/4
3X3/4X3/4
4X1/2X3/4
4X3/4X3/4
3X16#
4X14#
5X14#
3X12#
4X12#
5X12
6X12



Stainless Steel Premium Butt Hinge

Size :
3X16 CE 7
3x14 CE 7
4X14 CE 7
5X14
6X14



Stainless Steel Premium Heavy Butt Hinge

Size :
3X12 CE 7
4x12 CE 7
5X12 CE 7
6X12



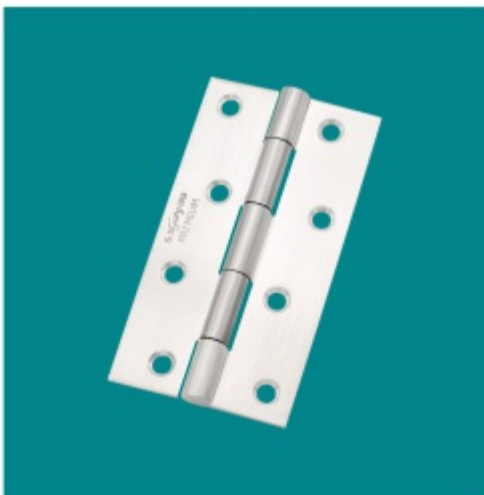
Stainless Steel Heavy Cut
& Narrow Premium Hinge

Size : 3X1/2X3/4
3X3/8X5/8
3X3/4X3/4
4X1/2X3/4
4X3/4X3/4



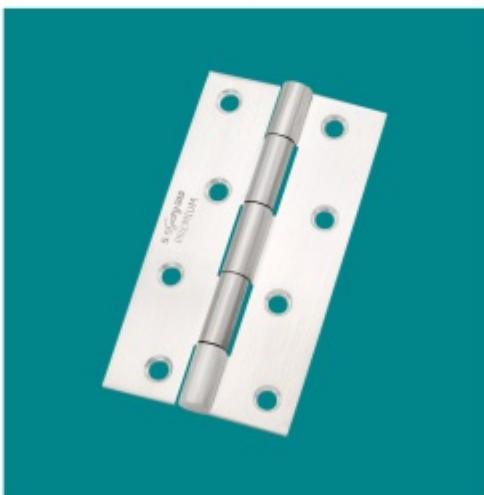
Stainless Steel Parliament
2.5mm

Size : 3"
4"
5"
6"



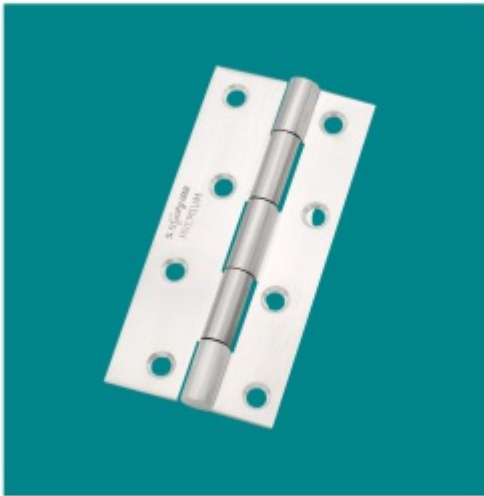
Stainless Steel Butt Gold Hinge
(Welded Pin)

Size :
3x16 CE7
3x14 CE7
4x14 CE7
5x14
6x14



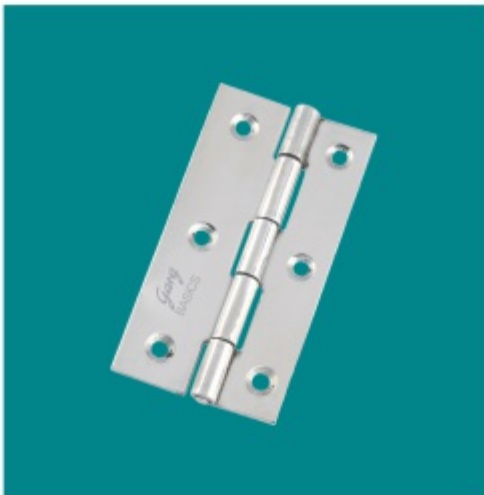
Stainless Steel Heavy Gold Butt
Hinge (Welded Pin)

Size :
3x12 CE7
4x12 CE7
5x12
6x12
4x10
5x10



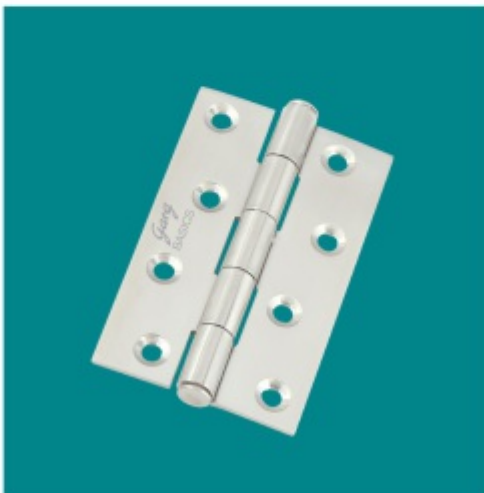
Stainless Steel Heavy Cut & Narrow Gold Hinge (Welded Pin)

Size : 3 x 1/2 x 3/4
 3 x 3/8 x 5/8
 3 x 3/4 x 3/4
 4 x 1/2 x 3/4
 4 x 3/4 x 3/4



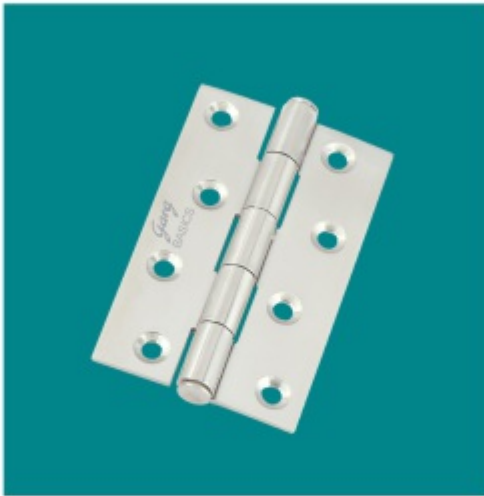
Stainless Steel Cut & Narrow Light Weight Hinge

Size : 3 x 3/8 x 5/8
 3 x 1/2 x 3/4
 3 x 3/4 x 3/4



Stainless Steel Butt Hinge Medium

Size : 3"
 4"
 5"
 6"



Stainless Steel Butt Hinge Heavy Weight

Size : 3x12
4x12
5x12
6x12



Stainless Steel Heavy Butt ISI Hinge 2.5mm



Size : 3 x 12
4 x 12
5 x 12
6 x 12
*5 x 3 x 10
*6 x 3 x 10

* Non ISI



Stainless Steel Butt ISI Hinge



Size : 2 x 16
2.5 x 16
3 x 14
3 x 16
4 x 16
4 x 14
5 x 14
6 x 14



Stainless Steel Narrow Hinge 1.2mm

- Size : 2 x 1/2 x 1/2
 3 x 1/2 x 1/2
 2 x 3/4 x 3/4
 2.5 x 1/2 x 1/2
 2.5 x 3/4 x 3/4
 3 x 5/8 x 5/8
 3 x 3/4 x 3/4
 4 x 3/4 x 3/4



Stainless Steel Cut Hinge

- Size : 2 x 1/2 x 3/4
 2.5 x 1/2 x 3/4
 3 x 1/2 x 3/4
 4 x 1/2 x 3/4
 2 x 3/8 x 5/8
 2.5 x 3/8 x 5/8
 3 x 3/8 x 5/8
 2.5 x 5/8 x 5/8



Stainless Steel Heavy Cut & Narrow Hinge

- Size : 3 x 1/2 x 3/4
 3 x 3/8 x 5/8
 3 x 3/4 x 3/4
 3 x 3/4 x 1
 3 x 1/2 x 1
 4 x 1/2 x 1
 4 x 3/4 x 1



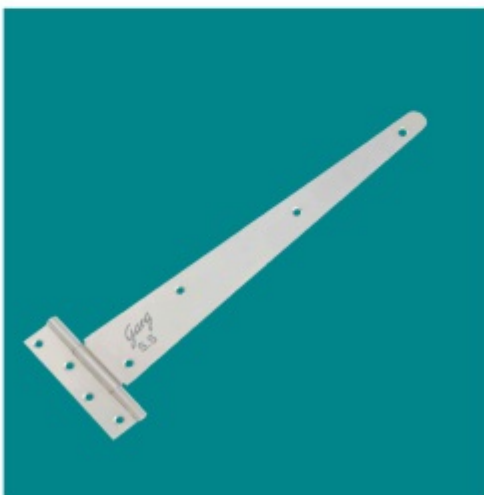
Stainless Steel Assam
Cut Hinge

Size : 50 x 27.5 x 10
60 x 27.5 x 10
75 x 27.5 x 10



Stainless Steel Parliament Hinge
(Heavy Weight)

Size : 3"
4"
5"
6"
8"



Stainless Steel Heavy Tee Hinge

Size : 4"
6"
8"
10"
12"
14"
16"
18"



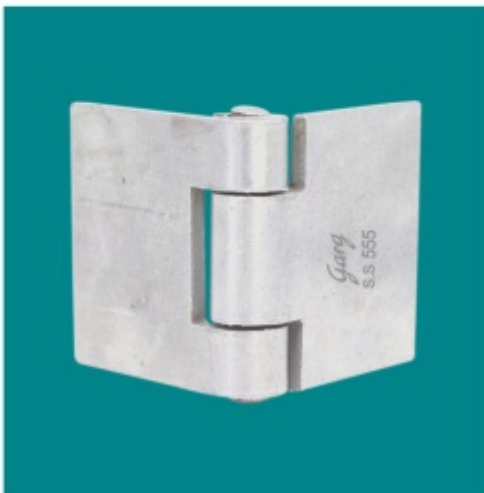
Stainless Steel L Hinge

Size : 3 x 1/2 x 1/4
3 x 1/2 x 1/2
3 x 1/2 x 3/4



Stainless Steel Cut & Narrow Hinge 333

Size : 3 x 1/2 x 3/4
3 x 3/4 x 3/4



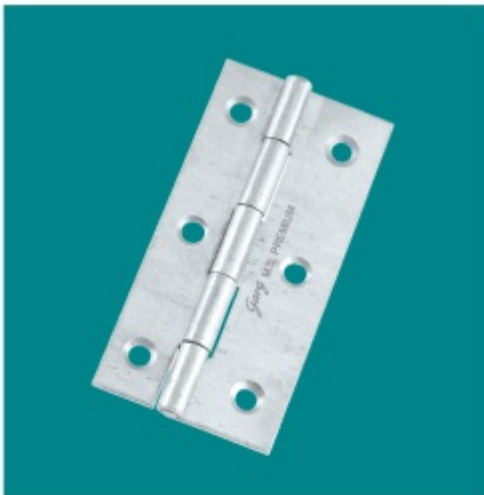
Stainless Steel Lorry Hinge 555

Size : 1.5"
2"
2.5"



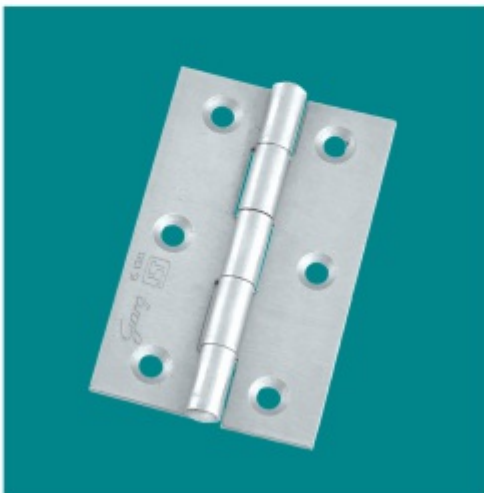
Mild Steel Premium Butt Hinge

Size : 75 mm
100 mm
125 mm



Mild Steel Premium Cut Narrow Hinge

Size : 3 x 1/2 x 3/4
3 x 3/4 x 3/4



IS : 1341



Mild Steel Butt ISI Hinge (Medium Weight)

Size : 40 mm
50 mm
65 mm
75 mm
100 mm
125 mm
150 mm



Mild Steel Heavy Butt ISI
Hinge-Type-II

Size : 75 mm
100 mm
125 mm



Mild Steel Heavy Butt ISI
Hinge-Type-II

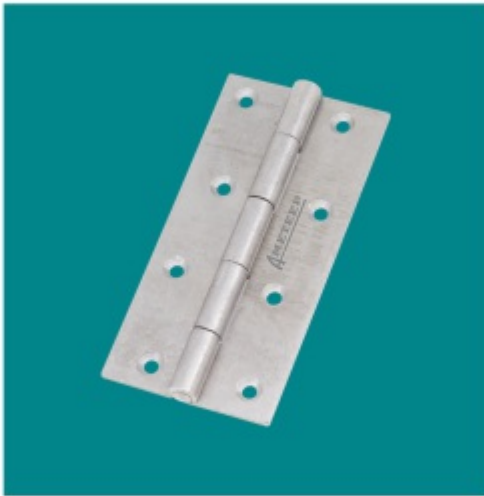
Size : 2 x 1^{3/4} x 12
2.5 x 11
3 x 2.5 x 10
4 x 3 x 9
5 x 3.5 x 8

12



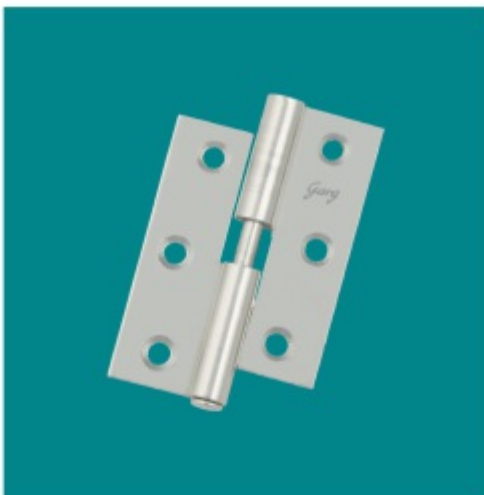
Mild Steel Parliament ISI Hinge

Size : 2"
2.5"
3"
4"
5"
6"
8"



AMETEEP Mild Steel Heavy
Butt Hinge

Size : 3 x 2 x 12
4 x 2.5 x 11
5 x 3 x 10
6 x 3 x 10



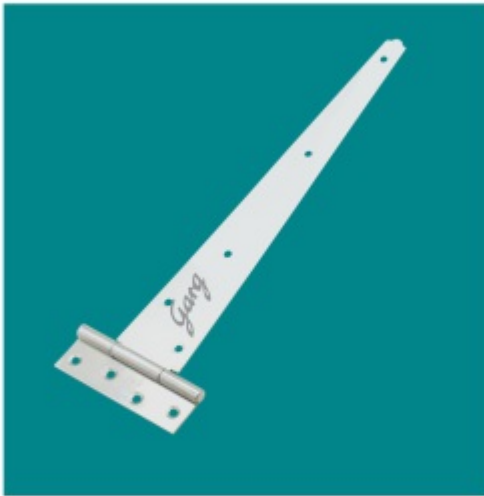
Mild Steel Life off Butt
Hinge

Size : 3"
4"



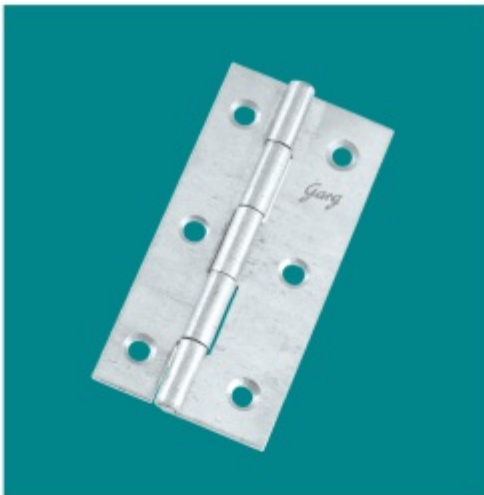
Mild Steel Table Hinge

Size : 1"
1 1/4"
1 1/2"
2"
2 1/2"
3"



Mild Steel Heavy Tee Hinge

Size : 4 x 3.5
6 x 3.5
8 x 4
10 x 4
12 x 4
14 x 4
16 x 5
18 x 5
20 x 6
24 x 6



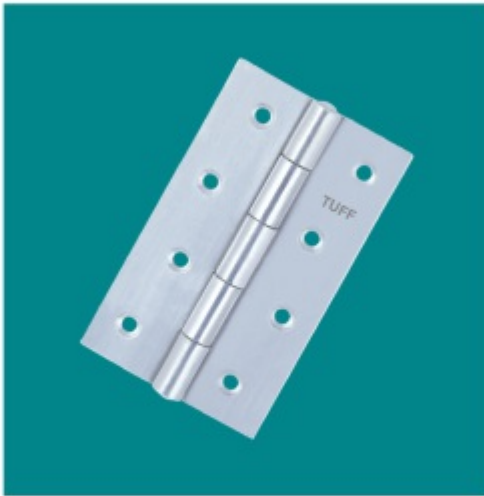
Mild Steel Cut Hinge

Size :
3 x 3/4 x 3/4
3 x 1/2 x 3/4 - LW
3 x 1/2 x 3/4 - MW
3 x 1/2 x 3/4 -HW
4 x 1/2 x 3/4



AMETEEP Mild Steel Heavy Parliament Hinge

Size : 75 X 125
100 x 150
125 x 175
150 x 200
200 x 250



TUFF Mild Steel Heavy Butt Hinge

Size : 3 x 12
4 x 12
5 x 11



Mild Steel Butt Hinge Non ISI

Size : 2 x 16
2.5 x 16
3 x 16
4 x 14
5 x 13
6 x 13



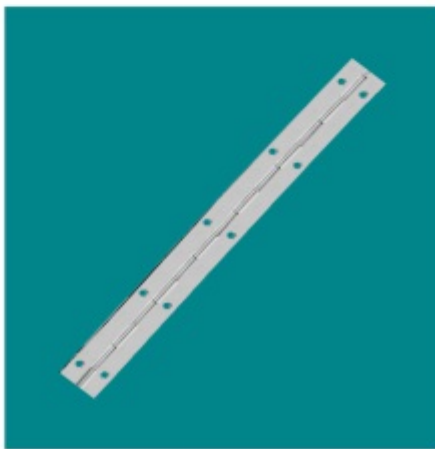
TUFF Mild Steel Medium Weight Butt Hinge

Size : 2 x 16
2.5 x 16
3 x 16
4 x 16
5 x 13
6 x 13



Stainless Steel Continuous
(Piano) Hinge Code-60

- Size :**
 1/2 x 6'
 1/2 x 3/4 x 6'
 1/2 x 3/4 x 7'
 3/4 x 6'
 3/4 x 7'
 1 x 6'
 1 x 7'



Mild Steel Piano Hinge
X7 & X5

- Size :**
 3/4 x 6
 1/2 x 3/4 x 6
 3/4 x 7
 1/2 x 3/4 x 7



Mild Steel Continuous Piano Hinge
(OXD/ZP)

- Size :**
 1/2 x 6
 5/8 x 6
 1/2 x 3/4 x 6
 1/2 x 3/4 x 7
 3/4 x 6
 3/4 x 7
 1 x 6
 1 x 7



Mild Steel Continuous Piano Hinge
(OXD/ZP)

- Size :**
 3/4 x 6
 1/2 x 3/4 x 6'

12



Cabinet Hardware & Multipurpose Locks

Cupboard Lock



CODE	BARREL HEIGHT
UL25AS	25
UL32AS	32
UL38AS	38
UL45AS	45

FEATURES:-

- Over 10 Lakh key combination
- Very high theft resistance
- Ultra pin mechanism with 10 working pins
- SS body
- 2 CNC Brass Key
- Heavy duty dead bolt

Cupboard Lock



CODE	BARREL HEIGHT
L23A	23
L29A	29
L32A	32
L35A	35

FEATURES:-

- Over 1 Lakh key combination
- KA available
- 2 Brass Key.

Drawer Lock

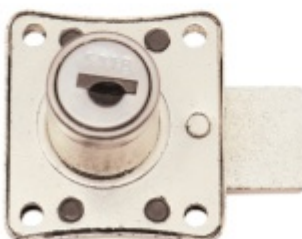


CODE	BARREL HEIGHT
CUL20	20
CUL25	25
CUL32	32

FEATURES:-

- Over 1 Lakh key combination
- Very high theft resistance
- Ultra pin mechanism with 8 working pins
- SS body
- 2 CNC Brass Key
- Heavy duty dead bolt

Cupboard Lock



CODE	BARREL HEIGHT
US23	23
US29	29
US32	32

FEATURES:-

- Over 1 Lakh key combination
- KA available
- 2 Brass Key.

Drawer Lock



CODE	BARREL HEIGHT
SI23	23

FEATURES:-

- Over 1000 safe key combination.
- Body zinc casted.
- 2 Brass Key.

Drawer Lock



CODE	BARREL HEIGHT
DW23	23

FEATURES:-

- Over 1 Lakh key combination.
- Very high theft resistance.
- 2 Wave CNC Brass Key.
- Heavy duty dead bolt.

Drawer Lock



CODE	BARREL HEIGHT
RD23	23

FEATURES:-

- Over 1000 safe key combination.
- Body zinc casted.
- 2 Brass Key.

Cupboard Lock



CODE	DISCRIPTION
CU02	Single Throw
CU03	Double Throw

FEATURES:-

- Over 1 thousand key combination.
- Solid brass dead bolts.
- 3 Steel Keys.



Cabinet Hinge

Size : 0°
8°
15°



Soft Close
Cabinet Hinge

Size : 0°
8°
15°

13



Heavy Duty Drawer Slide
(75gm / Inch)

Size :
10"
12"
14"
16"
18"
20"
22"
24"

LOCKING BOLT



LAL4321

FEATURES:-

1. Zinc body.
2. Stainless Steel Bolt DIA 12MM
3. Supplied with 2 STEEL Keys.
4. HEAVY DUTY BASE PLATE
5. SUPPLIED WITH FIXINGS

DISC PADLOCK WITH COMPUTER KEY



LLPL0001

Features:-

1. Stainless Steel Body
2. 4 Brass Computer Keys
3. 70mm Diameter

ALARM PADLOCK



For Use with alarm

As above right photo showing, when you want to start the alarm function, just turn the key to the right, press down the shackle, you will hear the "Beep" sound to let you know now it's armed

CODE	FINISH	SHACKLE	TYPE OF KEY
LLAP0001	SN	Normal	SOLID
LLAP0002	ANTIQUÉ	Normal	SOLID
LLAP0003	SN	LONG	SOLID
LLAP0004	ANTIQUÉ	LONG	SOLID
LLAP0005	SN	NORMAL	COMPUTER
LLAP0006	ANTIQUÉ	NORMAL	COMPUTER
LLAP0007	SN	LONG	COMPUTER
LLAP0008	ANTIQUÉ	LONG	COMPUTER

FEATURES:-

- Built-in 110dB Alarm
- Auto-arming/Disarming Alarm
- Stainless Steel Finish Body
- Push-down Locking System
- Lithium Battery Included



Panic Exit Hardware



Single Point Panic Bar

PBSD001

FEATURES:-

- Non Handed for Maximum Flexibility
- Suitable for both Timber and Metal Doors
- Can be operated from Outside using External Trim
- As per EN 1125, Tested to 200,000 Cycles
- High Quality Powder Coated Surface Finish
- Single Point Latching



Two Point Panic Bar

PBDD001

FEATURES:-

- Non Handed for Maximum Flexibility
- Suitable for both Timber and Metal Doors
- As per EN 1125, Tested to 200,000 Cycles
- Two Point Locking (Top and Bottom)
- High Quality Powder Coated Surface Finish

14



External Trim For Panic Bar

PBET001

FEATURES:-

- Non Handed for Maximum Flexibility
- Suitable for both Timber and Metal Doors
- External Trim Tested to 50,000 Cycles
- High Quality Powder Coated Surface Finish



Multi Point Locks

LLMPL0001

FEATURES:-

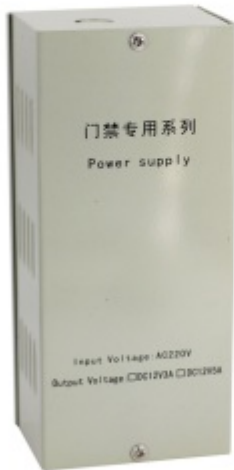
- Suitable for wooden, steel, UPVC, Doors as High Security locking options





Magnetic Locks

Electromagnetic Lock



Power Supply



Number and RFID Card Pad



Key card



Exit Electric Switch



RFID TAG



Magnetic Lock

FEATURES:-

- Dimensions 250mm length 47 mm width 25.5 height
- Armature plate dimensions 180mm length 38 mm width 11 mm height
- Holding force 280kg./ 600 LBS
- Input Voltage- 12V DC or 24V DC, Transformer Supplied to convert 220v AC supply
- Supplied with Number and RFID Card Pad
- Supplied with 1 Key card
- Supplied with 2 RFID TAG
- Supplied with Exit Electric Switch

Exporting to more than 22 Countries over the World



NOTE

* All weights given are approximate and can vary

* All data & photos printed in this catalogue represent the product to close details.
However, there may be some variations in real product from the photograph.

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