

ARRONE

The **complete** range.



a brand of **HOPPE**  GROUP

ARRONE Range





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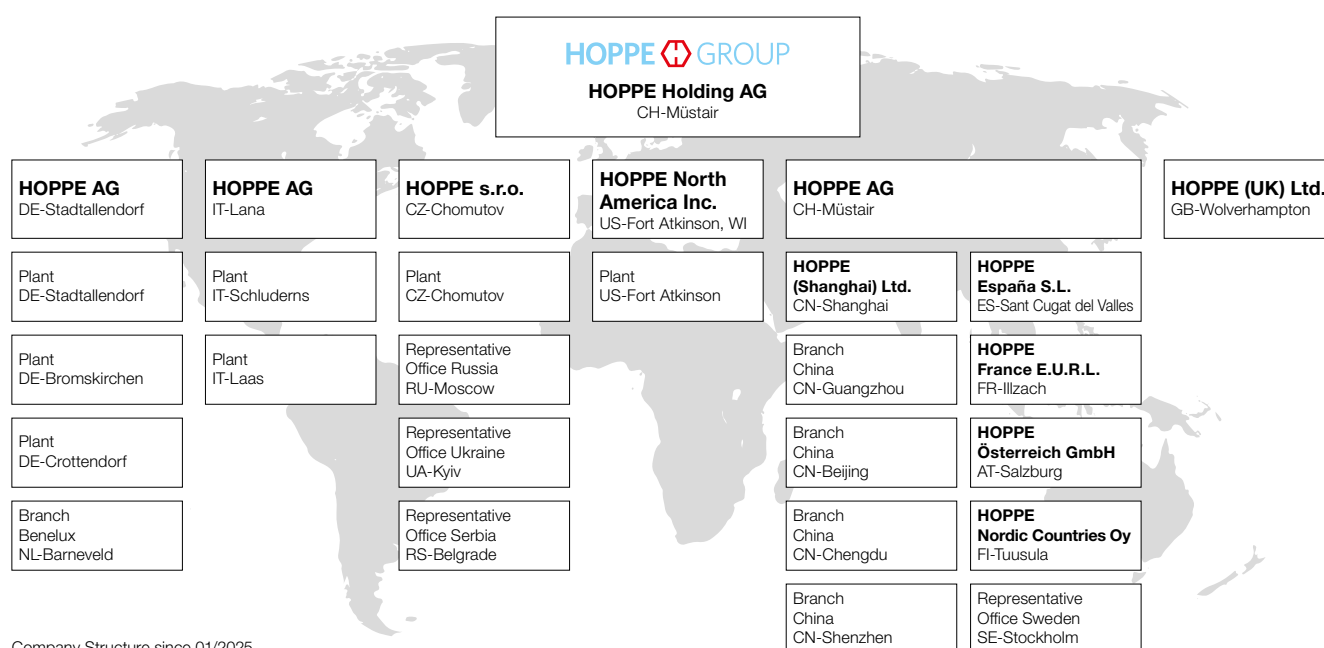
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The HOPPE Group Profile

The HOPPE Group

In 1952, Friedrich Hoppe founded a company for the manufacture of door hardware in Heiligenhaus near Düsseldorf, the former heartland of Germany's lock and hardware industry. In 1954 he moved the business to Stadtallendorf (north of Frankfurt) and in so doing laid the foundation for continual growth.

The HOPPE Group is an internationally active, family-run company with its headquarters in Switzerland. In 2025, the operational leadership of the HOPPE Group was entrusted to Christian Hoppe, who is now the third generation to lead the company.



With around 2,200 people it employs in seven plants in Europe and the USA as well as its international marketing, the owner-run HOPPE family business is the European leader in the development, manufacture and marketing of hardware systems for doors and windows.

In fairness to employees, customers, suppliers and the regions in which HOPPE is located, the company pursues the principle of profitability before turnover. The following beliefs make the HOPPE Group what it is today:

**“Creativity is intelligent
thinking against the norm”,
the result being:
“Different from and better than others”.**

Handle of Excellence.

Enjoy the feel of quality. Indeed, touching a quality handle reassures you that you have made the right choice. Hardware with this logo  is a brand-name product, which, in our view, is tantamount to a promise of quality. All production plants of the HOPPE Group in Germany, Italy and the Czech Republic are certified in accordance with DIN EN ISO 9001:2015. Continuous striving for improvement in quality remains a permanent process. HOPPE is aware that simply manufacturing a faultless product is not sufficient today. Among the important criteria HOPPE considers, are efficient manufacturing to quality standards, complying with current regulations, short product life-cycles and, above all, close attention to customer requirements.

The Product Range

For everyone who wants to upgrade their surroundings, HOPPE, Europe's leading brand of door and window handles, can fit in with any personal living and furniture style. With high quality and fair price, our products enhance everyone's choice of interior decor. There is something for every situation in the extensive product range. HOPPE products are tradesman's first choice. HOPPE not only offers a wide range of attractive handles for doors and windows but also develops specific solutions. Thus a building or an apartment can be equipped with the "Handle of Excellence" form the representative entrance door to the interior doors and windows and, what is more, in a choice of materials such as aluminium, stainless steel, nylon or brass.

The Environment

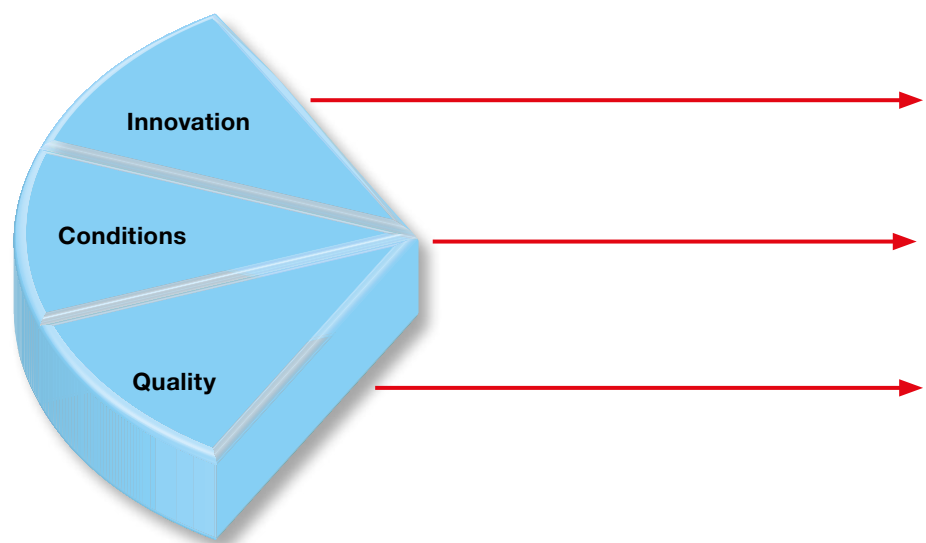
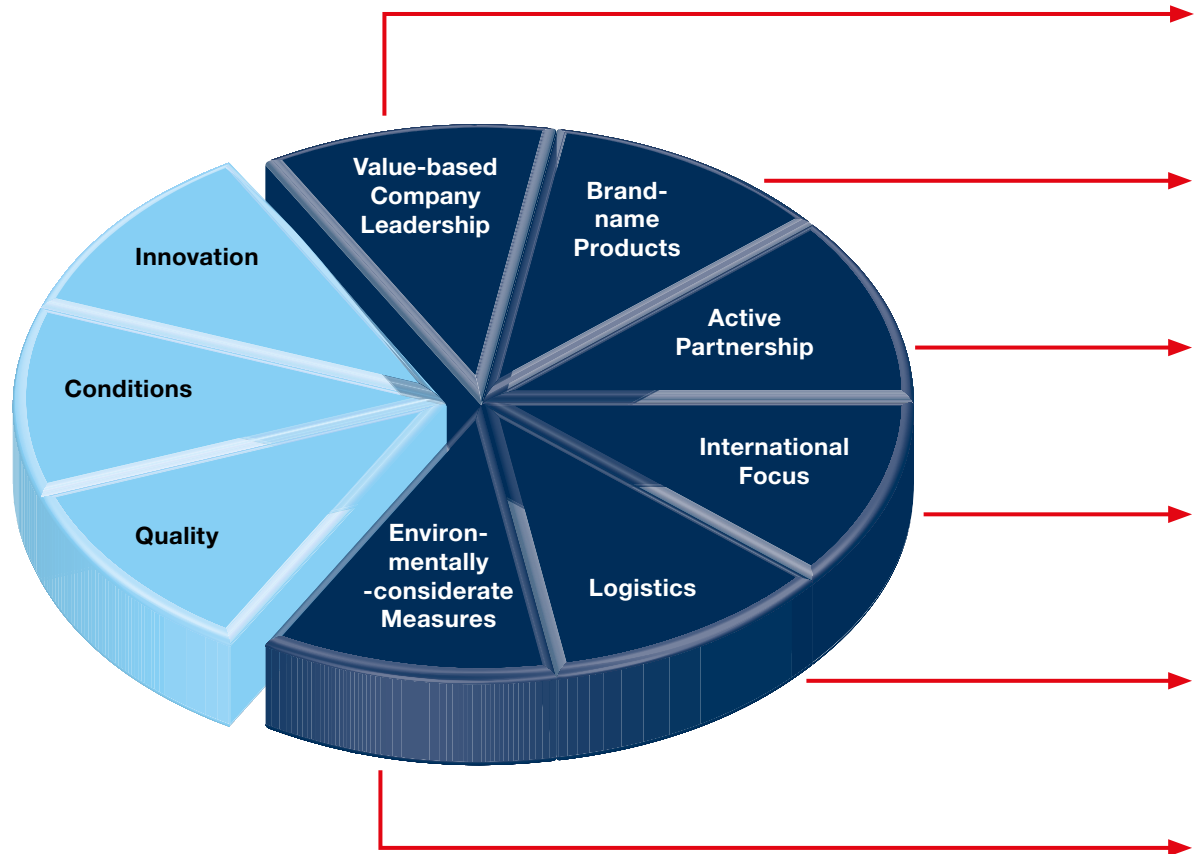
At HOPPE, consideration for the environment is of "constitutional" importance. Some examples are:

- the manufacture of hardware in an environmentally-considerate way
- the recycling of waste-water and the use of a circulatory system for water required in manufacture
- environmentally-considerate packaging material
- the use of recyclable scrap in the internal raw material cycle
- the use of process heat
- the generation of alternative energy
- energy efficiency measures
- membership of the Hesse State Environmental Alliance

All production facilities of the HOPPE Group in Germany, Italy and the Czech Republic are certified to DIN EN ISO 14001:2015 (Environmental Management System). Since 2014, HOPPE AG, Stadtallendorf, is certified to DIN EN ISO 50001:2018 (Energy Management System).



The Beneficial Performance Offered by HOPPE to Customers



The **T**otal **B**eneficial **A**dvantage
for customers

You will benefit from a cooperation between partners which is based on values. So you will gain from the commitment of our employees, whose motivation is based on and supported/strengthened by the value-based and purpose-oriented company leadership. By actively living the values on a daily basis, we are also able to assume our social responsibility.

You will stand out as a competent market partner with products “Made by HOPPE” in the distribution chain against competitors who sell cheap, no-name products.

You will raise the efficiency of your sales activities and increase your profits in the long term by benefiting from focused sales and marketing concepts developed in cooperation with HOPPE. You will be able to build up a long-term, sustainable business relationship with us through a trusting partnership in the market.

You will benefit from HOPPE's international structure (locations, costs, assured delivery, numerous home markets) not only in purchasing but also in sales.

You will be able to decrease your stock costs with the help of our binding, high on-time delivery for those ranges with set lead times. Even more savings potential can be provided by the integration between our respective systems.

You will be making an active contribution to the environment by using HOPPE products. Consideration for the environment is of “constitutional” importance at HOPPE, and indeed on a daily basis.

In addition to what you would normally expect, HOPPE offers more:

You will be able to solve your customers' problems through products appropriate for the target groups that correspond to the current state of the art.

You will benefit from HOPPE's innovation leadership. Ongoing technical and conceptual innovations will enable you to be an attractive business partner for your customers.

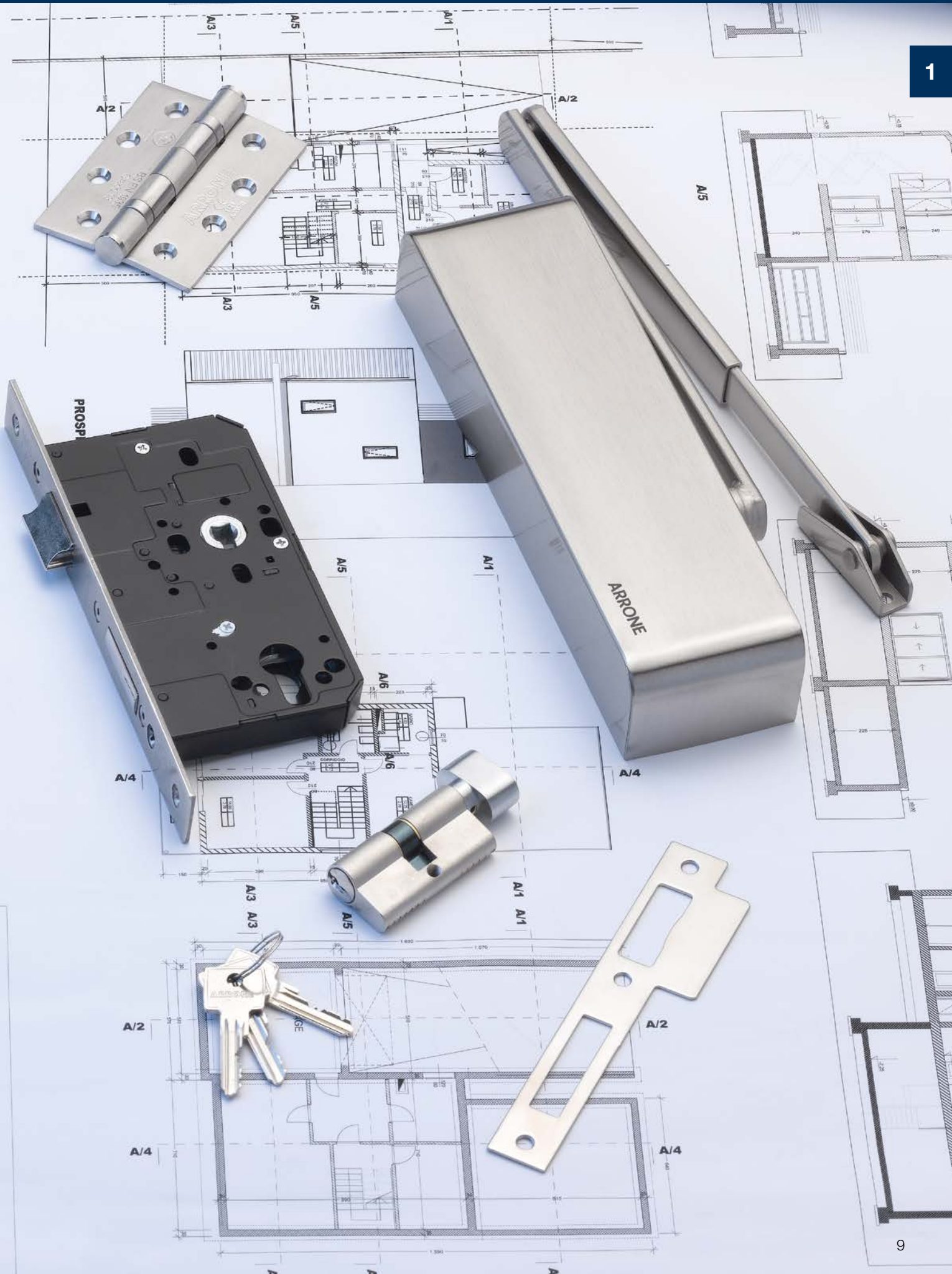
You will benefit profitably from business with HOPPE because of the attractive benefit/price ratio. Be careful not to be misled by comparing the margin of HOPPE products with the average margin of the distributor, since this does not take into account the actual processing costs and quantity effects.

You will enjoy increased trust in the eyes of your customers by your offering consistently good, appropriate brand-quality products at various price levels. You will be actively supported by the relevant standards and testing requirements met, as a matter of course, as well as the guarantees granted by HOPPE which exceed such standards by far.



Advantages which pay!





How Are the Tables Set Out?

Explanation using the example of a page with a hinge:

Series names/Design number
The series name/design number serves as a further subdivision and search criterion.

Product description
This text briefly outlines the area of application of the product. The specification texts always refer to the product version shown (in this example a hinge).

Product illustration
The products illustration always refers to the product version shown in the technical drawing and described by the specification text.

Design number
The design number serves as a further subdivision and search criterion. The letters at the end of the number show the material (in this example SSS for Satin Stainless Steel).

Technical drawing
The technical drawing always refers to the product version shown in the picture and described by the specification text.

Hinges



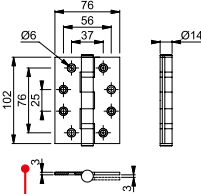
AR8180

ARRONE ball bearing hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: square
- Unit of measure (pack size):
- Door weight: suitable for door
- Fixing: 16 x stainless steel p
- Testing: **BS EN 1935:2002**
- BS EN 1634-1**. Assessed for
- doors and 240 minute on st
- CE Marked: AC0070, UKCA
- Certificate approved: CF369, C

Product ref.	Artic
AR8180-BLK-A1	Ball
AR8180-SSS-A1	Ball
AR8180-SSS-A2	Ball
AR8180-ABR-A1-O	Ball
AR8180-SSS-A1-O	Ball
AR8180-SSS-A2-O	Ball

AR7070-PBR/PVD-A1 Ball



sold as a pair
 for doors weighing up to 120 kg
 Pozidrive countersunk wood screws
 (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
 for use on 30, 60, 90 and 120 minute timber fire
 rated fire doors.
 Marked: UK-AC7678
 CE DOP: HUK0016, UKCA DOP: HUK0016-UK

Product description	Dimensions	Finish	Article no.
bearing hinge	102 x 76 x 3	BLK	50012903
bearing hinge	102 x 76 x 3	SSS	8567837
bearing hinge	102 x 76 x 3	SSS	87131789
bearing hinge	102 x 76 x 3	ABR	89001960
bearing hinge	102 x 76 x 3	SSS	89002072
bearing hinge	102 x 76 x 3	SSS	89002548

bearing hinge	102 x 76 x 3	PVD-PBR	87105948
---------------	--------------	---------	----------

We do not recommend the use of
 power tools for screw installation.
 Bit size recommendation:
 Pozidrive no. 2 bit

We strongly recommend the
 hinge leaf with 3 knuckles is
 fixed on the frame side.

Finish

The finish is given by the ARRONE finish key.



Certification marks and Symbols

Information about the certification mark for example "certifiere". (for further information see p. 32, "Certifications marks and Symbols").



Product attribute

Information on a product or a benefit of the product are shown here, (for further information see p. 32, "Certifications marks and Symbols").

Item number

The item number written in **bold** always refers to the product version shown and described.

Text below chart

This text gives additional product information.

ARRONE

The **complete** range.

ARRONE – Developing and Enhancing the Product Range

Under the ARRONE brand name, HOPPE Group is able to offer a comprehensive range of architectural quality door and window hardware along with accessories. Many products are manufactured exclusively by leading hardware manufacturers throughout the world. Within this extensive range are door closing devices, panic and emergency exit devices, hinges, rim and mortice locks, door and pull handles, access control, signage and accessories.

ARRONE products are designed and manufactured to complement the HOPPE range of aluminium, brass, stainless steel and nylon door and window hardware. Launched in 1993 the ARRONE product range is now firmly recognised and established within the market place. However, ever growing demands for additional feature benefits and product enhancements coupled with changes in legislation has in turn led to extensive product developments and additions throughout the various ranges.

Many of the products in the range are extensively tested and certified to the very latest British and European standards where applicable and certified in line with national regulations.

The extensive range covers the following product categories:

Hinges

Our ARRONE range of hinges are available for specification on a variation of public, commercial and residential building applications and offers a choice of bearing types, materials, sizes and finishes. Our hinges are tested to the very highest levels of performance in accordance with BS EN 1935, fire tested and CE-marked/CERTIFIRE approved in accordance with the very latest European standards and offer complimentary solutions for the customer.

Door Closing Devices

ARRONE door closing devices are designed and built to last and perform. They are manufactured and tested to satisfy the very latest in performance and fire standards. The range features surface mounted overhead, concealed overhead door closers and floor springs.

Locks and Latches

Most doors within a building require a method of either locking or latching after every closing cycle. The ARRONE range of rim and mortice locks and latches gives a wide variation of locking and latching functions for public, commercial and internal residential building door sets. Available in a DIN standard or UK standard offering, our lock and latch ranges have been tested to the requirements of BS EN 12209, CE-marked and CERTIFIRE approved where applicable for use on the heaviest or lightest of duty doors.

Cylinders

Our ARRONE range of cylinders offers wide options for most door types and locking functions, and with the variations on security levels from zero to high security levels. We offer in-house cylinder building, key cutting and master keying within our dedicated cylinder centre, located at our HOPPE UK premises and can cater for most building locking or security specifications.

Panic and Emergency Exit Hardware

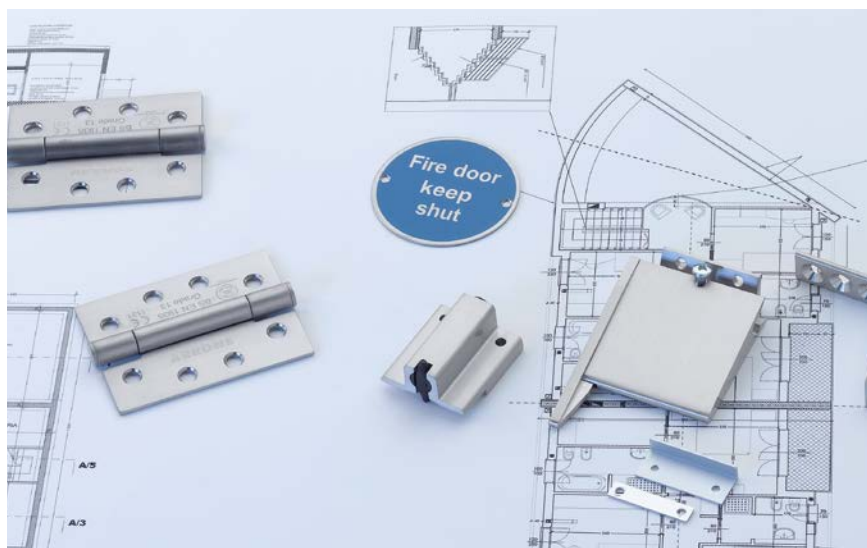
Panic and emergency exits in public and commercial buildings have a critical role to play in assisting people in exiting a building quickly and safely. The ARRONE range of panic and emergency exit devices gives options of exit device, external access device, fixing options for wider/taller doors, finishes for various applications. All of our panic and emergency exit devices are continuously tested to the requirements of BS EN 1125 (panic exit devices), BS EN 179 (emergency exit devices), are CE-marked and CERTIFIRE approved making it a safe choice for specifiers.

Architectural Accessories and Signs

From letter plates and coat hooks, to door stops and flush pulls, we have an accessory in the right finish for most applications.

Pull Handles

The ARRONE range of pull handles contains a variation of designs, materials and finishes from the standard D shape to entrance pull handles, from bolt fix to back to back and in Stainless Steel, Aluminium, Nylon and PVD Brass materials. Also, with varying lengths and diameters it ensures that there is a pull handle for most requirements.



Standards and Certification

BS EN 1935 Single Axis Hinges

This European standard specifies requirements for single-axis hinges for windows and doors opening in one direction only, whose rotation axis is no more than 30 mm from the face of the sash or door. It covers both fixed pin and lift-off hinges, and contains additional requirements for hinges intended for use on fire doors.

BS EN 1935:2002 classifies door furniture by using an 8-digit coding system. Each digit refers to a particular feature of the product measured against the standard's performance requirements.

1

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

2

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: 200,000 test cycles, for medium, heavy and severe duty hinges on doors only

3

Digit 3 – Test door mass

Eight door mass grades related to single-axis hinges are identified in this European standard as shown in table below.

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

4

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
- grade 1: suitable for fire/smoke resistant door assemblies subject to satisfactory assessment of the contribution of the single axis hinge to the fire resistance of the specified fire/smoke door assemblies

5

Digit 5 – Safety

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

6

Digit 6 – Corrosion resistance

Five grades of corrosion resistance are identified in accordance with BS EN 1670:2007:

- grade 0: no defined corrosion resistance
- grade 1: mild resistance
- grade 2: moderate resistance
- grade 3: high resistance
- grade 4: very high resistance

7

Digit 7 – Security

Two grades of security are identified for single-axis hinges:

- grade 0: not suitable for use on burglar-resistant door assemblies
- grade 1: suitable for applications requiring a degree of security
Annex C of this European standard details the hinge grade to use for the level of security required

8

Digit 8 – Hinge grade

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

Hinge grade	Usage	Test cycles	Door mass
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	Window/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 8300: Part 2 and Approved Document M

Single axis hinges should conform to BS EN 1935. Where it is important to minimize resistance to door opening and closing, hinges with low friction bearings should be selected to carry the appropriate mass of the door.

Technical Considerations

Normally, three hinges are fitted to each door. Their positions are determined by the weight of door and its resistance to warping or whipping.

Adjusted door weight calculation table		
Actual door weight	Doors of excess width, please refer to side loading calculation table	Actual door weight
	Door closer + 20 %	
	Door closer (backcheck) + 75 %	
	Extra heavy use + 10 %	
	Light use + 10 %	

Hinges for use with doors 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 hinge.

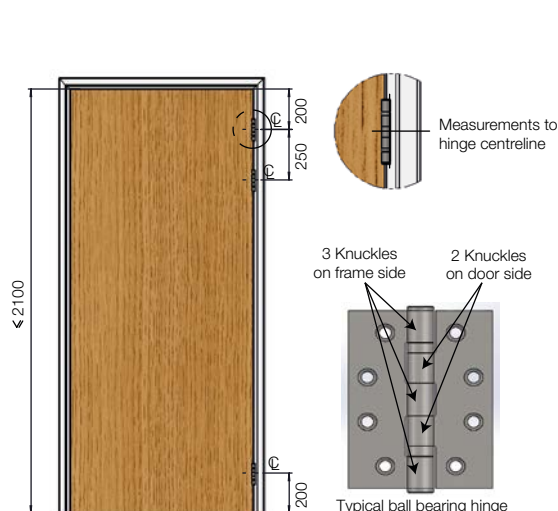
The factors by which the door mass has to be adjusted for excessive widths of door are calculated by dividing the door height by its width. For a factor of 2 or greater, no allowance has to be made. When the factor is less than 2, the door mass has to be increased by the value required to bring the factor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

Side loading calculations			
Door size		Factor	Normal increase of mass of door leaf %
Door height	Door width		
2,000 mm	1,000 mm	2	0
2,000 mm	1,050 mm	1.9	10
2,000 mm	1,100 mm	1.82	18
2,000 mm	1,150 mm	1.74	26
2,000 mm	1,200 mm	1.66	33
2,000 mm	1,250 mm	1.6	40

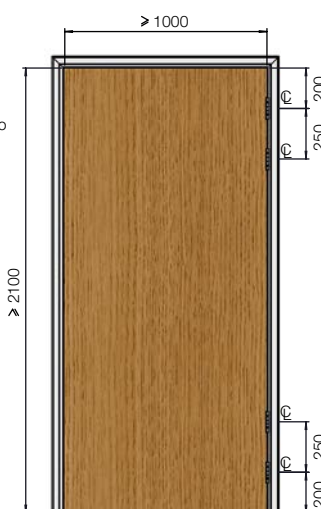
Recommended Hinge Positioning Ball Bearing Hinge

This fitting instruction is applicable to the following 2 ball bearing hinge types: AR7070, AR7072, AR7074, AR8180, AR8182, AR8184, AR8185, AR8187, AR8188, AR8189, AR8680, AR9290, AR9292, AR9294.

Doors up to 2,100 mm high



Doors over 2,100 mm high or 1,000 mm wide



NB: Intumescent hinge pads **MUST** be fitted under both leaves of the hinge on fire-rated doors. Hinges should be mortised into the door edge and frame jambs as detailed below:

- 1) to the hinge leaf thickness on non fire-rated doors
- 2) to the hinge leaf thickness plus 1 mm for fire-rated doors to accommodate the intumescent hinge pad

Pre-drill pilot holes for all fixings and use a hand screwdriver or a correctly adjusted torque power driver for all screws.

Door Controls – General Information

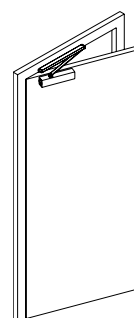
Manufactured using the latest engineering techniques and built to the highest quality by ISO 9001 registered companies in order to meet the latest European industry standards and certification. In addition to performance and durability, style and elegance are further features of the ARRONE door closer collection.

The AR6409 and AR6509 models come with a choice of box or slimline cover options in Silver or SSS finish to complement other HOPPE and ARRONE hardware on doorsets.

Applications

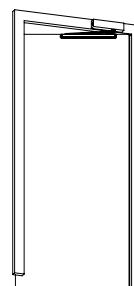
Standard Door Mount (Pull Side)

The most popular fitting position – closer mechanism is mounted onto the door leaf and the slide track mounted onto the door frame. Pull door towards you to open.



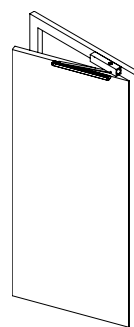
Transom Mount (Push Side)

Used when closer mechanism cannot be mounted onto door leaf. mechanism is mounted onto the door frame and the slide track mounted onto the door. Push door away from you to open.



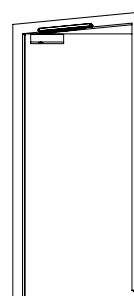
Transom Mount (Pull Side)

Used when closer mechanism cannot be mounted onto door leaf. mechanism is mounted onto the door frame and the slide track mounted onto the door. Pull door towards from you to open.



Standard Door Mount (Push Side)

Closer mechanism is mounted onto the door leaf and the slide track mounted onto the door frame. Push door away from you to open.



This Standard specifies requirements for controlled door closing devices for swing doors, mounted on or in the frame, on or in the door, or in the floor.

The scope is limited to manually operated door closing devices where the energy for closing is generated by opening of a door and that energy is then used by the device through its moving parts to assist in returning the door to its fully closed position in a controlled manner.

Applications

Fig 1 Application

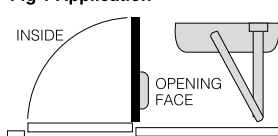


Fig 61 Application

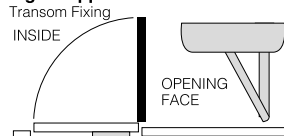
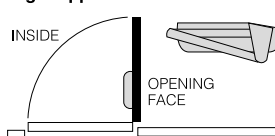


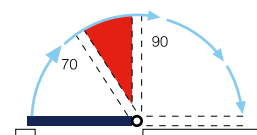
Fig 6 Application



Backcheck

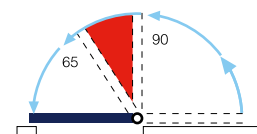
Backcheck offers resistance to opening between 70° and 90° when the door is opened with excessive force. Useful in all situations. Helps prevent damage to building and door frames, particularly where opening is restricted.

Note: Backcheck is not a substitute for door stops which should be fitted wherever possible.



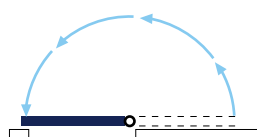
Delayed action

Delayed action slows down the closing speed of the door between approx. 90° and 65°. The amount of delay can be adjusted and de-activated altogether. Ideally suited for applications, such as care homes, where people need a greater length of time to exit doorways.



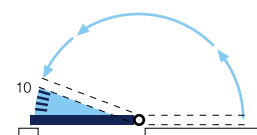
Controlled closing

All ARRONE door closers have an adjustment valve which allows the closing speed to be controlled. This is effective throughout the whole closing cycle except where delayed action or latch action are activated.



Latch action

Latch action provides for the adjustment of the last 10° (approx.) of the closing cycle. This allows the closer to be adjusted to overcome a latch or intumescent seal.



Slide arm application

Can be used where it is undesirable to have a projecting arm. Consists of a single arm connected to a channel mounted above the door (not suitable for doors with projecting architraves).

Drop plate

Allows a door closer to be fitted where the top rail of the door is too narrow to allow normal fitting. The drop plate is first attached to the door and then the closer attached to the drop plate.

Standards and Certification

BS EN 1154 – Controlled Door Closing Devices

Providing details on product types, classification by use, test cycles, door mass, corrosion resistance, as well as definitions, product performance requirements, test apparatus, test methods and marking of products.

BS EN 1154:1997 classifies door closers by using a 6 digit coding system.

1

Digit 1 – Category of use

Two categories are defined:

- grade 3: for closing doors from at least 105° open
- grade 4: for closing doors from at least 180° open

2

Digit 2 – Number of test cycles

One category is defined:

- grade 8: 500,000 cycles

3

Digit 3 – Test door mass/size

Seven test door mass grades and related door closer power sizes are identified according to table 1 of this standard. Where a door closer provides a range of power sizes both the minimum and the maximum sizes shall be identified.

Door closer power size	Recommended door leaf width max. mm kg	Test door mass (kg)
1	<750	20
2	850	40
3	950	60
4	1,100	80
5	1,250	100
6	1,400	120
7	1,600	160

4

Digit 4 – Fire behaviour

Two categories are defined:

- grade 0: not suitable for use on fire/smoke door assemblies
- grade 1: suitable for use on fire/smoke door assemblies, subject to satisfactory testing and assessment

5

Digit 5 – Safety

All door closers are required to satisfy the essential requirements of safety in use. Therefore only grade 1 is identified.

6

Digit 6 – Corrosion resistance

Five categories are defined in accordance with BS EN 1670:2007:

- grade 0: no defined resistance
- grade 1: mild resistance
- grade 2: moderate resistance
- grade 3: high resistance
- grade 4: very high resistance

Standards and Certification

BS EN 1155 – Electrically Powered Hold-Open Devices

This European standard specifies requirements for separate hold-open devices and also for hold-open mechanisms incorporated in a door closer. Electrically powered hold-open devices for swing doors manufactured according to this European standard can hold a swing door at a fixed position or can allow the door to swing freely. In each case interruption of the electrical supply will cause the controlled door to close positively.

BS EN 1155:1997 classifies door furniture by using a 6-digit coding system.

1

Digit 1 – Category of use

Only one category of use is identified for electrically powered hold-open devices:

- grade 3: for doors for use by the public, and others, with little incentive to take care, i.e. where there is some chance of misuse of the door

2

Digit 2 – Number of test cycles

Two test durations are identified for devices manufactured to this European standard:

- grade 5: 50,000 test cycles, for all electrically powered hold-open devices
- grade 8: 500,000 test cycles, for all electrically powered hold-open and free-swing door closers and devices that contain operating arms

3

Digit 3 – Test door mass/size

Five door mass grades and related hold-open power sizes are identified according to Table 1 of this European standard.

Door closer power size	Recommended door leaf width max. mm kg	Test door mass (kg)
3	950	60
4	1,100	80
5	1,250	100
6	1,400	120
7	1,600	160

4

Digit 4 – Fire resistance

Only one grade of fire resistance is identified for electrically powered hold-open devices manufactured to this European standard:

- grade 1: suitable for use on fire/smoke door assemblies subject to satisfactory assessment of the contribution of the electrically powered hold-open device to the fire resistance of specified fire/smoke door assemblies

5

Digit 5 – Safety

Electrically powered hold-open devices are required to satisfy the Essential Requirement of safety in use. Therefore only grade 1 is identified.

6

Digit 6 – Corrosion resistance

Five grades of corrosion resistance are identified in accordance with BS EN 1670:2007:

- grade 0: no defined corrosion resistance
- grade 1: mild resistance
- grade 2: moderate resistance
- grade 3: high resistance
- grade 4: very high resistance

Fire Doors – Door Controls

If placed on the market after 1 July 2013, the door closing device and its accessories:

- must be CE-marked to BS EN 1154 – Building hardware – Controlled door closing devices, including annex A
- and preferably should be provided with additional product certification by an approved third party certification body

The product and any accessories must have demonstrated their suitability for the intended purpose, by inclusion in satisfactory fire tests to BS EN 1634-1 or BS EN 1634-2, on a type of door and configuration in which will be used. This evidence should be provided by an approved third party certification or testing body.

Source: Door Hardware Federation, Guild of Architectural Ironmongers – Fire Door Hardware Code of Practice

BS 8300: Part 2 and Approved Document “M”

For many people to have independent access through single or double swing doors, the opening force, when measured at the leading edge of the door, should be not more than 30 N from 0° (door in closed position) to 30°, and not more than 22.5 N from 30° to 60° of the opening cycle.

The choice of controlled door closing devices should take account of the efficiency of the closer, as well as the resistances from edge seals, hinge friction, latch resistance and differential air pressure.

A controlled door closing device, with or without backcheck, should allow the door to open sufficiently to provide the required effective clear opening width of the door.

Standards and Certification

BS EN 1158 – Door Co-Ordinator Devices

This European standard specifies requirements for both separately mounted devices and mechanisms incorporated in door closers. There are additional requirements for devices for use on fire/smoke door assemblies.

BS EN 1158:1997 classifies door furniture by using a 6-digit coding system.

1

Digit 1 – Category of use

Only one category is identified:

- grade 3: for all internal and external doors for use by the public, and others, with little incentive to take care, i.e. where there is some chance of misuse of the door

2

Digit 2 – Number of test cycles

Two test durations are identified:

- grade 5: 50,000 test cycles, for all other door coordinator devices
- grade 8: 500,000 test cycles, for door coordinator devices incorporated in, or for use in conjunction with, automatic swing door operators, and for devices incorporated in a door closer

3

Digit 3 – Test door mass/size

Five door mass grades and related coordinator sizes are identified according to table 1 of this European standard.

Door co-ordinator size	Test door leaf mass	Recommended door leaf width max. mm	Distance between hinge centrelines max. mm
3	60	950	1,900
4	80	1,100	2,200
5	100	1,250	2,500
6	120	1,400	2,800
7	160	1,600	3,200

4

Digit 4 – Fire resistance

Two grades of fire resistance are identified for door coordinator devices manufactured to this European standard:

- grade 0: not suitable for use on fire/smoke door assemblies
- grade 1: suitable for use on fire/smoke door assemblies, subject to satisfactory assessment of the contribution of the door coordinator device to the fire resistance of specified fire/smoke door assemblies

5

Digit 5 – Safety

All door coordinator devices are required to satisfy the essential requirement of safety in use. Therefore, only grade 1 is identified.

6

Digit 6 – Corrosion resistance

Five grades of corrosion resistance are identified in accordance with BS EN 1670:2007:

- grade 0: no defined corrosion resistance
- grade 1: mild resistance
- grade 2: moderate resistance
- grade 3: high resistance
- grade 4: very high resistance

BS EN 12209:2003 – Mechanically Operated Locks, Latches and Locking Plates

The ARRONE range of architectural locks is manufactured to the highest engineering standards and designed to offer a high price/performance ratio. They have been successfully type tested to all the requirements of BS EN 12209. The classification achieved is given for each lock separately. BS EN 12209:2003 classifies door furniture using an 11-digit coding system.

1

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

2

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.

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

3

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

4

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.

5

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 179:2008 or BS EN 1125:2008.

6

Digit 6 – Corrosion resistance

Eight grades are identified with neutral salt-spray (NSS) corrosion resistance grades from BS EN 1670:2007, with and without temperature resistance as shown:

Corrosion resistance (NSS)	Temperature resistance	
	No requirement	-20 °C to +80 °C
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	

7

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 lockcase, 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	

8

Digit 8 – Field of door application

Fifteen grades are identified for differing applications – hinged or 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 a 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 lockcase when installed.

9

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 a maximum key torque operating requirement of 1.5 Nm and a minimum key strength requirement of 2.5 Nm.

- grade 0: 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: lever lock or latch; manually locking
- grade E: lever lock or latch; automatically locking

- grade F: lever lock or latch; manually locking with intermediate locking
- grade G: lock or latch without key operation; manually locking
- grade H: lock without key operation; automatically locking

10 Digit 10 – Type of spindle operation

Five grades are identified:

- grade 0: lock or latch without follower
- grade 1: lock or latch for knob or sprung lever handle operation
- grade 2: lock or latch for unsprung lever handle operation
- grade 3: lock or latch for heavy duty unsprung lever handle operation
- grade 4: lock or latch for heavy duty unsprung lever handle operation specified by the manufacturer

11 Digit 11 – Key identification

Nine grades are identified relating to the number of differs and levers. Grade 0 relates to a latch with no locking action:

No. of differs ↑	No. of levers →							
								grade H
					grade F			grade G
				grade D			grade E	
			grade B			grade C		
		grade A						
	grade 0							

Fire Doors – Locks

In order to provide an effective barrier to a fully developed fire, a door has to remain closed within the frame. In the case of single action doors, this role might be undertaken by a latch.

If placed on the market after 1 July 2013, the lock or latch:

- must be CE-marked to BS EN 12209,
- and preferably, should be provided with additional product certification by an approved third party certification body.

In fitting locks or latches to fire-resisting doors, the potential fire performance of a door might be reduced due to:

- removal of a section of the door leaf, door frame or seal,
- leaving voids within the structure of a timber door,
- adding materials which could cause heat transfer problems in a timber door,
- through fixings creating thermal bridges in a timber door,
- using materials of low melting point (less than 800 °C, or 900 °C for steel doors over 90 minutes resistance) in components which, if they should melt, could cause a failure of functionality of the device,
- locks containing materials which might flame

Source: Door Hardware Federation, Guild of Architectural Ironmongers – Fire Door Hardware Code of Practice

Standards and Certification

BS EN 1125 – Panic Exit Devices

It is desirable that doors at final exits in public buildings, places of entertainment, shops etc. should be fitted with panic devices operated by a horizontal push bar or touch bar. The emphasis for products covered by this standard is on safe exit rather than security.

The main purpose of this standard is to give performance requirements to simulate the safe and effective escape through a doorway with minimum effort and without prior knowledge of the device i.e. for locked doors on escape routes where panic situations can be foreseen.

BS EN 1125 applies to type A (push bar devices) and type B (touch bar devices) and classifies devices by using a 10-digit coding system, each digit referring to a particular feature of the product measured against the standard's performance requirement.

1

Digit 1 – Category of use

Only one category is identified:

- grade 3: high frequency of use by public and others with little incentive to exercise ie. where there is a chance of an accident occurring and of misuse

2

Digit 2 – Durability

Two categories are identified:

- grade 6: 100,000 cycles
- grade 7: 200,000 cycles

3

Digit 3 – Test door mass/size

Three categories are identified:

- grade 5: up to 100 kg
- grade 6: up to 200 kg
- grade 7: over 200 kg

4

Digit 4 – Suitability for use on fire/smoke doors

Three grades are identified:

- grade 0: not approved for use on fire/smoke door assemblies
- grade A: suitable for use on smoke door assemblies
- grade B: suitable for use on fire and smoke door assemblies in accordance with the requirements of BS EN 1634-1

5

Digit 5 – Safety

All panic and emergency exit devices have a critical safety function, therefore, only the top grade 1 is identified.

6

Digit 6 – Corrosion resistance

Two grades of corrosion resistance are identified according to BS EN 1670:

- grade 3: high resistance
- grade 4: very high resistance

7

Digit 7 – Security

Only one category of security is identified (grade 2). Panic devices are primarily for the operation of a door from the inside. Safety considerations will always be given priority over security.

8

Digit 8 – Projection of device

Two categories are defined:

- grade 1: projection up to 150 mm (large projection)
- grade 2: projection up to 100 mm (standard projection)

9

Digit 9 – Type of device

Two types are defined:

- type A: panic exit device with “push bar” operation
- type B: panic exit device with “touch bar” operation

10

Digit 10 – Field of door application

Three categories are defined:

- category A: single door, double door: active or inactive leaf
- category B: single door only
- category C: double door: inactive leaf only

Experience relating to escape from buildings and general safety has shown the importance of fitting doors on escape routes with suitable exit devices to enable the occupants of the building to escape quickly and easily in the case of fire or some other emergency. Factors to consider include:

Different groups of users will have differing requirements to enable them to make an effective escape and this has to be reflected in the type of device chosen. For example, in buildings frequented by the general public it is important that doors can be released easily by people who might have no training in emergency procedures or the use of the exit device, and might therefore panic in the rush to escape.

Other buildings might be occupied predominantly by authorised personnel, who have been trained specifically in the procedures for escape, and who are therefore unlikely to panic in the case of an emergency.

Where escape route doors are part of the final exit from a building, there will be some additional requirements for security of the door against intrusion and burglary. In this case there can be a conflict between the requirements of building users to be able to escape easily and the requirements of building owners to secure their building and its contents against crime.

Where escape route doors are part of the fire compartmentation of the building there will be additional requirements to ensure that the escape hardware fitted does not compromise the fire-resisting performance of the doors.

Devices placed on the market after 1 July 2013 and intended for use by the general public must be CE-marked to BS EN 1125 – Panic exit devices operated by a horizontal bar, and preferably provided with additional product certification by an approved third party certification body.

Approved Document B recommends that panic exit devices be used if the area has more than 60 occupants, irrespective of the nature of the building. If there is any doubt about the conditions relating to building occupancy, it is recommended that devices covered by BS EN 1125 (panic exit devices operated by a horizontal bar) be specified.

Standards and Certification

BS EN 179 – Emergency exit devices

This standard covers devices to be used in emergency situations where people are familiar with the emergency exit and its hardware and therefore a panic situation is most unlikely to develop. Lever handle operated escape locks or push pads may therefore be used.

BS EN 179 applies to type A (lever handle operated emergency devices) and type B (push pad operated emergency devices). It classifies emergency exit devices by using a 10-digit coding system, each digit referring to a particular feature of the product measured against the standards performance requirement.

1

Digit 1 – Category of use

Only one category is identified:

- grade 3: high frequency of use by public and others with little incentive to exercise care

2

Digit 2 – Durability

Two categories are identified:

- grade 6: 100,000 cycles
- grade 7: 200,000 cycles

3

Digit 3 – Test door mass/size

Three categories are identified:

- grade 5: up to 100 kg
- grade 6: up to 200 kg
- grade 7: over 200 kg

4

Digit 4 – Suitability for use on fire/smoke doors

Three grades are identified:

- grade 0: not approved for use on fire/smoke door assemblies
- grade A: suitable for use on smoke door assemblies
- grade B: suitable for use on fire and smoke door assemblies in accordance with the requirements of BS EN 1634-1

5

Digit 5 – Safety

All panic and emergency exit devices have a critical safety function, therefore, only the top grade 1 is identified.

6

Digit 6 – Corrosion resistance

Two grades of corrosion resistance are identified according to BS EN 1670:

- grade 3: high resistance
- grade 4: very high resistance

7

Digit 7 – Security

Products covered by BS EN 179 have three identified categories and have the opportunities of greater security than devices covered by BS EN 1125. This is because BS EN 179 devices are subject to testing with doors under greater pressure.

- grade 2: 1,000 N
- grade 3: 2,000 N
- grade 4: 3,000 N
- grade 5: 5,000 N

8

Digit 8 – Projection of device

Two categories are defined:

- grade 1: projection up to 150 mm (large projection)
- grade 2: projection up to 100 mm (standard projection)

9

Digit 9 – Type of device

Two types are defined:

- type A: emergency exit devices with “lever handle” operation
- type B: emergency exit devices with “push pad” operation

10

Digit 10 – Field of door application

Four categories are defined:

- category A: outwardly opening single exit door, double exit door: active or inactive leaf
- category B: outwardly opening single exit door only
- category C: outwardly opening double exit door: inactive leaf only
- category D: inwardly opening single exit door only

Experience relating to escape from buildings and general safety has shown the importance of fitting doors on escape routes with suitable exit devices to enable the occupants of the building to escape quickly and easily in the case of fire or some other emergency. Factors to consider include:

Different groups of users will have differing requirements to enable them to make an effective escape and this has to be reflected in the type of device chosen. For example, in buildings frequented by the general public it is important that doors can be released easily by people who might have no training in emergency procedures or the use of the exit device, and might therefore panic in the rush to escape.

Other buildings might be occupied predominantly by authorised personnel, who have been trained specifically in the procedures for escape, and who are therefore unlikely to panic in the case of an emergency.

Where escape route doors are part of the final exit from a building, there will be some additional requirements for security of the door against intrusion and burglary. In this case there can be a conflict between the requirements of building users to be able to escape easily and the requirements of building owners to secure their building and its contents against crime.

Where escape route doors are part of the fire compartmentation of the building there will be additional requirements to ensure that the escape hardware fitted does not compromise the fire-resisting performance of the doors.

Devices placed on the market after 1 July 2013 for use by trained personnel must be CE-marked to BS EN 179 – Emergency exit devices operated by a lever handle or push-pad, and preferably provided with additional product certification by an approved third party certification body.

Approved Document B recommends that panic exit devices be used if the area has more than 60 occupants, irrespective of the nature of the building. If there is any doubt about the conditions relating to building occupancy, it is recommended that devices covered by BS EN 1125 (panic exit devices operated by a horizontal bar) be specified.

Standards and Certification

BS EN 1634-1 – Fire resistance tests for door and shutter assemblies

Fire-resisting doors serve three main purposes in a building:

- To restrict the initial development of a fire – A correctly fitted and functioning fire-resisting door can help to suppress a fire by restricting the amount of oxygen available to it.
- To restrict the spread of fire – A closed fire-resisting door is designed to endure direct attack by fire for a specified period of time. This should restrict the spread of fire through the building, gaining time for evacuation of the premises and for active fire protection resources such as sprinklers and fire fighters to perform their functions.
- To protect escape routes – The provision of protected escape routes is a requirement of Building Regulations. Any door opening on to an escape route or operating across an escape route is likely to be designated as a fire-resisting door, to ensure that persons using the route have protection from fire while they escape.

After evacuation, fire-resisting doors should continue to provide some protection for fire fighters entering the building to extinguish the fire.

Under BS EN 1634-1 test regimes, a door withstands fire attack for a period of time, for example 36 minutes or 67 minutes, and for the purposes of regulations is then described as E30, E60, etc. (BS EN 1634-1). Withstanding fire attack means not allowing flames or hot gases to pass. In other words, the doorset maintains its fire integrity.

Classification:

By using this EN standard, the performance of building hardware for fire-resisting doors and emergency escape doors can be quantified in any or all the following areas:

- category of use
- durability
- door size/mass
- fire resistance
- safety
- corrosion resistance
- security

All new European building hardware standards use a classification system in which the first seven digits are common. Each digit relates to a feature of the product measured against the requirements of the relevant standard. It is digit 4 that relates to the fire resistance of the product, they are graded as follows:

Fire resistance

Grade 0 – not approved for use on fire/smoke door assemblies

Grade A – suitable for smoke door assemblies - subject to test evidence

Grade B – suitable for fire and smoke door assemblies in accordance with the requirements of BS EN 1634-1

Certifire



Certifire is an independent third party scheme providing high quality voluntary product conformity certification for the passive fire sector.

ANSI – American National Standards Institute

Materials compliant to the ANSI A156 series of standards.

UL – Underwriters Laboratories



Manufacturers use UL product safety standards to design their products so they comply with the applicable requirements. Product testing and certification organizations such as UL use these standards to evaluate the products and determine their compliance with the product standards.

UL10C is the Standard for “Positive Pressure Fire Tests of Door Assemblies”. This is a product safety standard that includes a comprehensive set of performance requirement that products must comply with in order to be certified or listed by a product certification organization such as UL. Where required products have been certified under UL 10C ‘. Details expanded on individual product pages.

Fire Safety – BS EN 1634 Part 1



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).

Door controls, hinges and locks can be assessed to be suitable for use on*:

- FD30 (30 minute) fire doors
- FD60 (60 minute) fire doors
- FD90 (90 minute) fire doors
- FD120 (120 minute) fire doors
- FD240 (240 minute) fire doors

* see 4th digit

Quality and Performance



Successfully type tested for conformity to all the requirements as required by the prevailing standards.

CE Marking



CE marking is the easiest route to providing compliance with the latest UK construction products regulations for ironmongery used on fire, smoke and escape route doors.

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





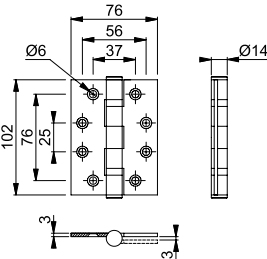
AR8180

- ARRONE ball bearing hinge:
- Material: stainless steel
 - Hinge grade: grade 13
 - Shape: square
 - Unit of measure (pack size): sold as a pair
 - Door weight: suitable for doors weighing up to 120 kg
 - Fixing: 16 x stainless steel pozidrive countersunk wood screws
 - Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13); **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute on steel fire doors.
 - CE Marked: AC0070, UKCA Marked: UK-AC7678
 - Certifire approved: CF369, CE DOP: HUK0016, UKCA DOP: HUK0016-UK



Product ref.	Article description	Dimensions	Finish	Article no.
AR8180-BLK-A1	Ball bearing hinge	102 x 76 x 3	BLK	50012903
AR8180-SSS-A1	Ball bearing hinge	102 x 76 x 3	SSS	8567837
AR8180-SSS-A2	Ball bearing hinge	102 x 76 x 3	SSS	87131789
AR8180-ABR-A1-O	Ball bearing hinge	102 x 76 x 3	ABR	89001960
AR8180-SSS-A1-O	Ball bearing hinge	102 x 76 x 3	SSS	89002072
AR8180-SSS-A2-O	Ball bearing hinge	102 x 76 x 3	SSS	89002548

AR7070-PBR/PVD-A1	Ball bearing hinge	102 x 76 x 3	PVD-PBR	87105948
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We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



AR8180

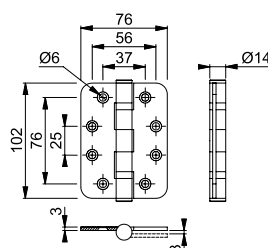
ARRONE ball bearing hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: radius
- Unit of measure (pack size): sold as a pair
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 16 x stainless steel pozidrive countersunk wood screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute on steel fire doors.
- CE Marked: AC0070, UKCA Marked: UK-AC7678
- Certifire approved: CF369; CE DOP: HUK0016, UKCA DOP: HUK0016-UK

certifire



Product ref.	Article description	Dimensions	Finish	Article no.
AR8182-BLK-A1	Ball bearing hinge	102 x 76 x 3	BLK	50016945
AR7072-PVD-A1	Ball bearing hinge	102 x 76 x 3	PVD-PBR	89002156
AR7072-SSS-A2	Ball bearing hinge	102 x 76 x 3	SSS	89002569



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



AR8180

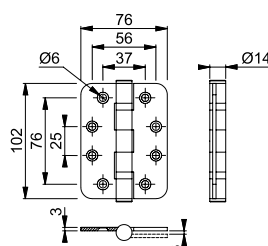
ARRONE ball bearing hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: radius
- Unit of measure (pack size): sold as a pair
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 16 x stainless steel pozidrive countersunk wood screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute on steel fire doors.
- CE Marked: AC0070, UKCA Marked: UK-AC7678
- Certifire approved: CF369, CE DOP: HUK0021, UKCA DOP: HUK0021-UK

certifire



Product ref.	Article description	Dimensions	Finish	Article no.
AR9292-PSS-A1	Ball bearing hinge	102 x 76 x 3	PSS	87105953
AR7072-SSS-A1	Ball bearing hinge	102 x 76 x 3	SSS	89002142
AR8182-SSS-A1	Ball bearing hinge	102 x 76 x 3	SSS	87105952
AR8182-SSS-A4-O	Ball bearing hinge	102 x 76 x 3	SSS	89002562



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.

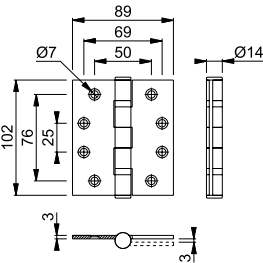


AR8680

- ARRONE ball bearing hinge:
- Material: stainless steel
 - Hinge grade: grade 13
 - Shape: square
 - Unit of measure (pack size): sold as a pair
 - Door weight: suitable for doors weighing up to 120 kg
 - Fixing: 16 x stainless steel pozidrive countersunk wood screws
 - Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13); **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute on steel fire doors.
 - CE Marked: AC0070
 - Certifire approved: CF369; DOP: HUK0057



Product ref.	Article description	Dimensions	Finish	Article no.
AR8680-SSS-A1-O	Ball bearing hinge	102 x 89 x 3	SSS	89001142



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.

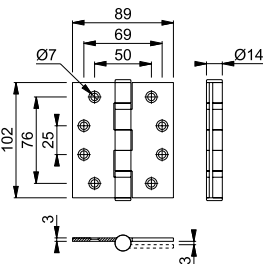


AR8680

- ARRONE ball bearing hinge:
- Material: stainless steel
 - Hinge grade: grade 13
 - Shape: square
 - Unit of measure (pack size): sold as a pair
 - Door weight: suitable for doors weighing up to 120 kg
 - Fixing: 16 x stainless steel pozidrive countersunk wood screws
 - Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13); **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute on steel fire doors.
 - CE Marked: AC0070, UKCA Marked: UK-AC7678
 - Certifire approved: CF369, CE DOP: HUK0016, UKCA DOP: HUK0016-UK



Product ref.	Article description	Dimensions	Finish	Article no.
AR8680-SSS-A2-O	Ball bearing hinge	102 x 89 x 3	SSS	89001771



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



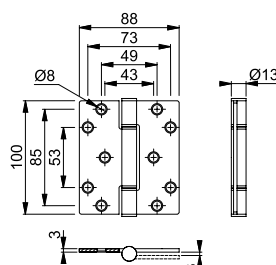
AR8380

ARRONE phosphor bronze hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: square
- Unit of measure (pack size): sold as singles
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 10 x stainless steel pozidrive countersunk wood screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30 and 60 minute timber fire doors.
- CE Marked: AC5027
- Certifire approved: CF5197; DOP: HUK0049



Product ref.	Article description	Dimensions	Finish	Article no.
AR8380-SSS-A1	Phosphor bronze hinge	100 x 88 x 3	SSS	50011698



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



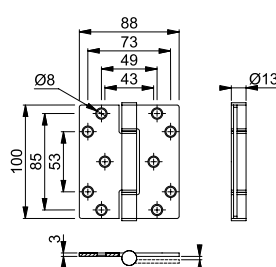
AR8380

ARRONE phosphor bronze bearing hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: square
- Unit of measure (pack size): sold as 1.5 pairs
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 30 x 304 grade stainless steel pozidrive countersunk wood screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute on steel fire doors.
- CE Marked: AC5027, UKCA Marked: UK-AC7676
- Certifire approved: CF5197, CE DOP: HUK0049, UKCA DOP: HUK0049-UK



Product ref.	Article description	Dimensions	Finish	Article no.
AR8380-SSS-A2	Phosphor bronze bearing hinge	100 x 88 x 3	SSS	87139242



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



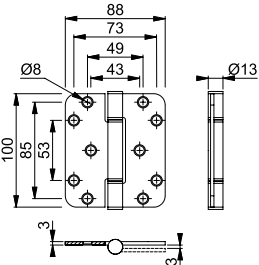
AR8380

ARRONE phosphor bronze hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: radius
- Unit of measure (pack size): sold as singles
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 10 x stainless steel pozidrive countersunk wood screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30 and 60 minute timber fire doors.
- CE Marked: AC5027
- Certifire approved: CF5197; DOP: HUK0049



Product ref.	Article description	Dimensions	Finish	Article no.
AR8382-SSS-A1	Phosphor bronze hinge	100 x 88 x 3	SSS	50011704



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



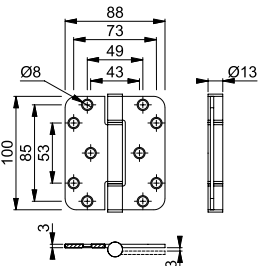
AR8380

ARRONE phosphor bronze bearing hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: radius
- Unit of measure (pack size): sold as 1.5 pairs
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 30 x 304 grade stainless steel pozidrive countersunk wood screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30 and 60 minute timber fire doors.
- CE Marked: AC5027, UKCA Marked: UK-AC7676
- Certifire approved: CF5197, CE DOP: HUK0049, UKCA DOP: HUK0001-UK



Product ref.	Article description	Dimensions	Finish	Article no.
AR8382-SSS-A2	Phosphor bronze bearing hinge	100 x 88 x 3	SSS	87139263



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



AR8184

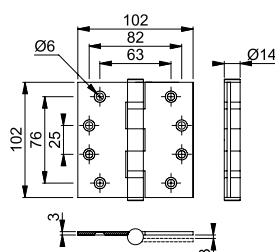
ARRONE ball bearing hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: square
- Unit of measure (pack size): sold as a pair
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 16 x stainless steel pozidrive countersunk wood screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30 and 60 minute timber fire doors and 240 minute on steel fire doors.
- CE Marked: AC0070, UKCA Marked: UK-AC7678
- Certifire approved: CF369, CE DOP: HUK0017, UKCA DOP: HUK0017-UK

certifire



Product ref.	Article description	Dimensions	Finish	Article no.
AR8184-SSS-A1-O	Ball bearing hinge	102 x 102 x 3	SSS	89002114
AR8184-SSS-A2-O	Ball bearing hinge	102 x 102 x 3	SSS	89001519



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



AR8185

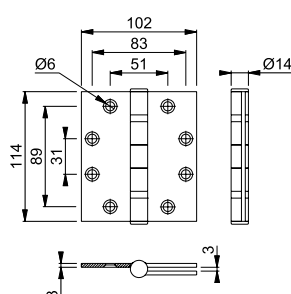
ARRONE ball bearing hinge:

- Material: stainless steel
- Hinge grade: grade 13
- Shape: square
- Unit of measure (pack size): sold as a pair
- Door weight: suitable for doors weighing up to 120 kg
- Fixing: 12/24 UNC machine screws
- Testing: **BS EN 1935:2002** (Classification: 4 | 7 | 6 | 1* | 1 | 4 | 0 | 13);
BS EN 1634-1. Assessed for use on 30 and 60 minute timber fire doors and 240 minute on steel fire doors.
- CE Marked: AC0070, UKCA Marked: UK-AC7678
- Certifire approved: CF369; CE DOP: HUK0058, UKCA DOP: HUK0058-UK

certifire



Product ref.	Article description	Dimensions	Finish	Article no.
AR8185-MS-SSS-A2-O	Ball bearing hinge	114 x 102 x 3	SSS	89001785



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

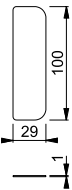
We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.



AR-INT-HINGE

- ARRONE intumescent pack:
- Intumescent pack to suit ARRONE 102 mm x 76 mm hinges
 - Thickness: 1 mm
 - Consists of: 6 x hinge leaf pads (for 3 hinges)
 - Material: monoammonium phosphate (MAP)

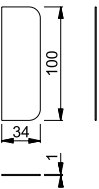
Product ref.	Article description	Dimensions		Article no.
AR/INT-8180/8580	Intumescent pack	102 x 76		50004578



AR-INT-HINGE

- ARRONE intumescent pack:
- Intumescent pack to suit ARRONE 102 mm x 89 mm hinges
 - Thickness: 1 mm
 - Consists of: 6 x hinge leaf pads (for 3 hinges)
 - Material: monoammonium phosphate (MAP)

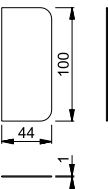
Product ref.	Article description	Dimensions		Article no.
AR/INT-8680/8380/8780	Intumescent pack	102 x 89		50004585



AR-INT-HINGE

- ARRONE intumescent pack:
- Intumescent pack to suit ARRONE 102 mm x 102 mm hinges
 - Thickness: 1 mm
 - Consists of: 6 x hinge leaf pads (for 3 hinges)
 - Material: monoammonium phosphate (MAP)

Product ref.	Article description	Dimensions		Article no.
AR/INT-8184	Intumescent pack	102 x 102		50004591



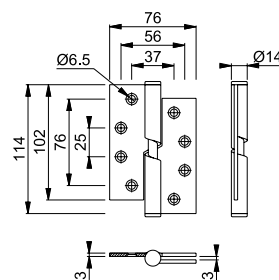


AR8183

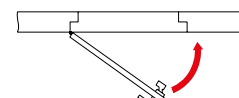
ARRONE rising butt hinge:

- Material: stainless steel
- Shape: square
- Unit of measure (pack size): sold as a pair
- Door weight: suitable for doors weighing up to 40 kg
- Fixing: 8 x stainless steel wood screws and 8 x M5 machine screws

Product ref.	Article description	Dimensions	Finish	Article no.
AR8183-WMS-LH-SSS-A1	Rising butt hinge	102 x 75 x 3	SSS	89001204
AR8183-WMS-RH-SSS-A1	Rising butt hinge	102 x 75 x 3	SSS	89001303



Clockwise Closing
(left handed door)



Anti-Clockwise Closing
(right handed door)

We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.

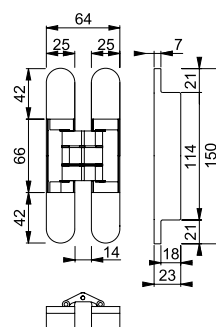


AR8990

ARRONE concealed hinge:

- Material: zinc/aluminium
- Unit of measure (pack size): sold as a pair
- Door weight: suitable for doors weighing up to 40 kg
- Minimum door thickness: 40 mm
- Fixing: stainless steel pozidrive countersunk wood screws

Product ref.	Article description	Dimensions	Finish	Article no.
AR8990-40-BLK	Concealed hinge	150 x 25	BLK	50030899
AR8990-40-SE	Concealed hinge	150 x 25	SE	50030887



We do not recommend the use of power tools for screw installation.

Bit size recommendation:
Pozidrive no. 2 bit

We strongly recommend the hinge leaf with 3 knuckles is fixed on the frame side.





3

Door Closing Devices

Door Closer	Max Size 3 (Light Duty)	Max Size 3 (Light Duty)	Max Size 4 (Medium Duty)	Max Size 4 (Medium Duty)
Product Reference	AR450	AR6309	AR1500	AR6800
Product Type	overhead	overhead	overhead	overhead
Power Size	EN 3	EN 3	EN 2 to EN 4	EN 2 to EN 4
Arm Type	standard	slide	flatform	flatform
Power Adjustment Method	fixed	fixed	spring	template
Max Door Width (Fig 1, Fig 6, Fig 61)	950 mm	950 mm	1,100 mm	1,100 mm – Fig 1 and 61 950 mm – Fig 6
Max Door Weight (Fig 1, Fig 6, Fig 61)	60 kg	60 kg	80 kg	80 kg – Fig 1 and 61 60 kg – Fig 6
Mechanism Type	rack and pinion	cam action	rack and pinion	rack and pinion
Closing Speed	yes	yes	yes	yes
Backcheck	N/A	N/A	yes* Fig 1 and 61 only	N/A
Latch Action	yes Fig 1 only	yes	yes Fig 1 and 61 only	yes Fig 1 and 61 only
Tested to BS EN 1154 / BS EN 1155	yes	yes	yes	yes
BS EN 1154 / BS EN 1155 Classification	4 8 3 1* 1 3 Fig 1 and 61	4 8 3 1* 1 3 push/pull side	4 8 4/2 1* 1 4 Fig 1 and 61	3 8 4/2 1* 1 3 Fig 1 and 61
	3 8 3 1* 1 3 Fig 6	3 8 3 1* 1 3 transom	4 8 4/2 1* 1 4 Fig 6	3 8 3 1* 1 3 Fig 6
Maximum Opening Angle	180° Fig 1 105° Fig 6 and 61	180° pull side 120° push side	180°	105°
Universal Application Fig 1, Fig 6, Fig 61	yes	yes	yes	yes
Slide Arm	N/A	yes	N/A	N/A
Stand Open Arm (Hold Open)	N/A	optional	optional	N/A
Drop Plate	N/A	N/A	optional	N/A
Timber Door Fire Rating to BS EN 1634-1	30, 60 and 120 minutes	30, 60 and 120 minutes	30, 60 and 120 minutes	30, 60 and 120 minutes
Metal Door Fire Rating to BS EN 1634-1	N/A	N/A	240 minutes	N/A
CE Certificate	AD0178	AD5276	AD0124	AD0095
CE DOP	HUK0018	HUK0064	HUK0001	HUK0025
CERTIFIRE	CF5629	CF5430	CF294	CF603
Mechanical Guarantee	2 years	2 years	2 years	2 years
Finishes	BLK, GE, SE, WHT	SE	BLK, SE	BLK, SE, WHT
Page	48	55	49	49

Max Size 4 (Medium Duty)	Max Size 4 (Medium Duty)	Max Size 4 (Medium Duty)	Max Size 4 (Medium Duty)	Max Size 4 (Medium Duty)
AR8200	AR8209	AR6409	AR6409-EHO	AR7383
overhead	overhead	overhead	overhead electromagnetic	concealed
EN 2 to EN 4	EN 2 to EN 4	EN 2 to EN 4	EN 3 to EN4	EN 2 to EN 4
flatform	slide	slide	slide	slide
template	spring	spring	spring	spring
1,100 mm – Fig 1 and 61 950 mm – Fig 6	1,100 mm	1,100 mm	950-1,100 mm	1,100 mm
80 kg – Fig 1 and 61 60 kg – Fig 6	80 kg	80 kg	60-80 kg	80 kg
rack and pinion	rack and pinion	cam action	cam action electromagnetic	cam action
yes	yes	yes	yes	yes
optional	yes (opening angle restricted to 105° in transom push)	yes	yes	cushion stop, optional
yes Fig 1 and 61 only	yes regular position only	yes	yes	yes
yes	yes	yes	yes	yes
3 8 4/2 1* 1 3 Fig 1 and 61	4 8 4/2 1* 1 3 Fig 1 and 61	4 8 4/2 1* 1 3 pull/push side	4 8 4/2 1* 1 3 pull side	3 8 4/2 1* 1 3
3 8 3 1* 1 3 Fig 6	3 8 4/2 1* 1 3 Fig 6	3 8 4/2 1* 1 3 transom push/pull side	3 8 4/2 1* 1 3 transom push side	
105°	180° pull side 105° transom push side	180° 105° push side	180° pull side	105°
yes	pull and transom push/pull	yes	yes	door and transom concealed
N/A	yes	yes	yes electromagnetic	yes
optional	optional (track mounted)	optional (track mounted)	optional (electromagnetic)	optional (track mounted)
N/A	N/A	N/A	N/A	N/A
30, 60 and 120 minutes	30, 60 and 120 minutes	30, 60 and 120 minutes	30, 60 and 120 minutes	30, 60, 90 and 120 minutes
N/A	N/A	N/A	N/A	N/A
AD0118	AD0275	AD5284	AE5024	AD5071
HUK0020	HUK0027	HUK0065	HUK0055	HUK0026
CF295	CF770	CF5430		CF5181
2 years	2 years	2 years	2 years	2 years
BLK, GE, SE, WHT	SE, SSS	SE, SSS	SE	BLK, PBR, SE, SNP
52-53	54	56-57	58	64

Door Closing Devices

Door Closer	Max Size 5 (Heavy Duty)	Max Size 5 (Heavy Duty)	Max Size 5 (Heavy Duty)
Product Reference	AR6509	AR5200	AR5500
Product Type	overhead	overhead	overhead
Power Size	EN 2 to EN 5	EN 2 to EN 5	EN 2 to EN 5
Arm Type	slide	flatform	flatform
Power Adjustment Method	spring	size EN 2 template size EN 3 – EN 5 spring	size EN 2 template size EN 3 – EN 5 spring
Max Door Width (Fig 1, Fig 6, Fig 61)	1,250 mm	1,250 mm – Fig 1 1,100 mm – Fig 6 and 61	1,250 mm – Fig 1 1,100 mm – Fig 6 and 61
Max Door Weight (Fig 1, Fig 6, Fig 61)	100 kg	100 kg – Fig 1 80 kg – Fig 6 and 61	100 kg – Fig 1 80 kg – Fig 6 and 61
Mechanism Type	cam action	rack and pinion	rack and pinion
Closing Speed	yes	yes	yes
Backcheck	yes	yes	yes
Latch Action	yes	yes Fig 1 and 61 only	yes Fig 1 and 61 only
Tested to BS EN 1154 / BS EN 1155	yes	yes	yes
BS EN 1154 / BS EN 1155 Classification	4 8 5/2 1* 1 3 pull and push side	4 8 5/2 1* 1 4 Fig 1	4 8 5/2 1* 1 4 Fig 1
	3 8 5/2 1* 1 3 transom pull and push side	3 8 4/3 1* 1 4 Fig 6	3 8 4/3 1* 1 4 Fig 6
		4 8 4/2 1* 1 4 Fig 61	4 8 4/2 1* 1 4 Fig 61
Maximum Opening Angle	180° 105° push side	180° Fig 1 and 61 105° Fig 6	180° Fig 1 and 61 105° Fig 6
Universal Application Fig 1, Fig 6, Fig 61	yes	yes	yes
Slide Arm	yes	N/A	N/A
Stand Open Arm (Hold Open)	optional (track mounted)	optional	optional
Drop Plate	N/A	yes	yes
Timber Door Fire Rating to BS EN 1634-1	30, 60 and 120 minutes	30, 60 and 120 minutes	30, 60 and 120 minutes
Metal Door Fire Rating to BS EN 1634-1	N/A	240 minutes	240 minutes
CE Certificate	AD5285	AD0239	AD0239
CE DOP	HUK0066	HUK0005	HUK0005
CERTIFIRE	CF5430	CF295	CF295
Mechanical Guarantee	2 years	2 years	2 years
Finishes	SE, SSS	BLK, SE	SE
Page	60-63	50	51

Max Size 6 (Extreme Duty)	Max Size 6 (Extreme Duty)	Max Size 6 (Extreme Duty)
AR8383	AR9200	AR9500
concealed	overhead	overhead
EN 3 to EN 6	EN 2 to EN 6	EN 2 to EN 6
slide	platform	slide
spring	spring	spring
1,400 mm	1,400 mm – Fig 1 and 61 1,250 mm – Fig 6	1,400 mm – Fig 1 and 61 1,250 mm – Fig 6
120 kg	120 kg – Fig 1 and 61 100 kg – Fig 6	120 kg – Fig 1 and 61 100 kg – Fig 6
rack and pinion	rack and pinion	rack and pinion
yes	yes	yes
no	yes	yes
yes	yes	yes
Yes	yes	yes
3 8 6/3 1* 1 3	4 8 6/2 1* 1 3 Fig 1 and 61	4 8 6/2 1* 1 3 Fig 1 and 61
	4 8 5/3 1* 1 3 Fig 6	3 8 5/2 1* 1 3 Fig 6
	180°	180°
door and transom concealed	yes	yes
N/A	N/A	N/A
N/A	N/A	N/A
	N/A	N/A
30, 60, 90 and 120 minutes	30, 60 and 120 minutes	30, 60 and 120 minutes
N/A	N/A	N/A
AD5479	AD0162	AD0162
HUK0024	HUK0029	HUK0029
CF5940	CF295	CF295
2 years	2 years	2 years
SE	BLK, SE	SE
66	53	67



AR450

ARRONE overhead door closing device:

- Power size: EN 3
- Function: closing, latching
- Cover: none
- Arm application: Fig 1, Fig 6 (bracket available separately) and Fig 61 fixing positions
- Successfully type tested for conformity to all requirements of

BS EN 1154:1997

Tested: door width 950 mm, door weight 60 kg

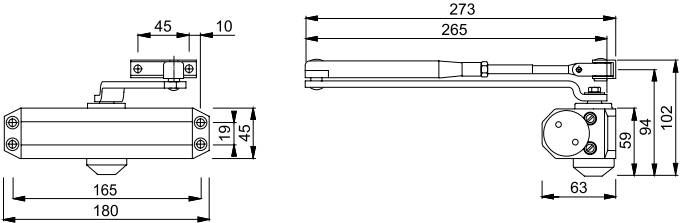
Classification (Fig 1/Fig 61): 4 | 8 | 3 | 1* | 1 | 3

Classification (Fig 6): 3 | 8 | 3 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors
- Certification:
CE: AD0178, DOP HUK0018
Certifire: CF5629



Product ref.	Article description	Finish	Article no.
AR450-BLK	Door closer and matching arm	BLK	89001366
AR450-GE	Door closer and matching arm	GE	87109671
AR450-SE	Door closer and matching arm	SE	87109670
AR450-WH	Door closer and matching arm	WHT	89001359





AR6800

ARRONE overhead door closing device:

- Power size: EN 2 to EN 4, adjustable by template
- Function: closing, latching
- Cover: none
- Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
- Successfully type tested for conformity to all requirements of

BS EN 1154:1997

Tested: door width 950-1,100 mm, door weight 60-80 kg

Classification (Fig 1/Fig 61): 3 | 8 | 4/2 | 1* | 1 | 3

Classification (Fig 6): 3 | 8 | 3 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

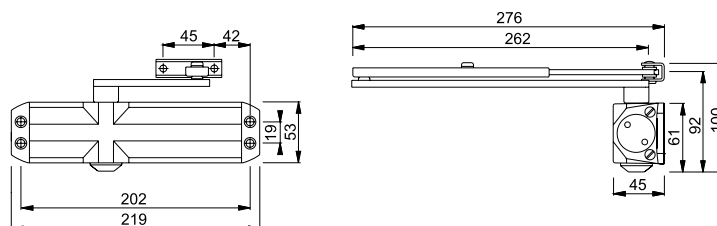
- Certification:

CE: AD0095, DOP HUK0025

Certifire: CF603



Product ref.	Article description	Finish	Article no.
AR6800-BLK	Door closer and matching arm	BLK	89001129
AR6800-SE	Door closer and matching arm	SE	87105960
AR6800-WHT	Door closer and matching arm	WHT	89001122



AR1500

ARRONE overhead door closing device:

- Power size: EN 2 to EN 4, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: radiused
- Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
- Successfully type tested for conformity to all requirements of

BS EN 1154:1997

Tested: door width 1,100 mm, door weight 80 kg

Classification (Fig 1/Fig 61): 4 | 8 | 4/2 | 1* | 1 | 4

Classification (Fig 6): 4 | 8 | 4/2 | 1* | 1 | 4

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors

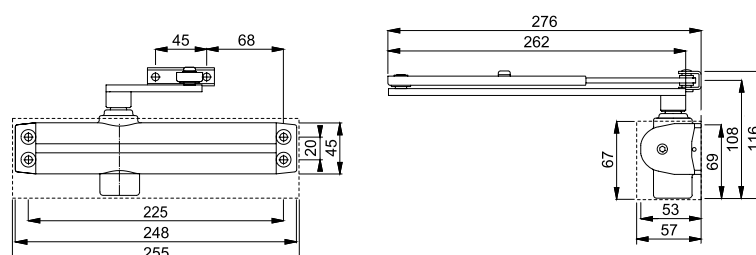
- Certification:

CE: AD0124, DOP HUK0001

Certifire: CF294



Product ref.	Article description	Finish	Article no.
AR1500P-BLK/BLK	Door closer and matching arm	BLK	50023895
AR1500P-SE/SE	Door closer and matching arm	SE	87115622



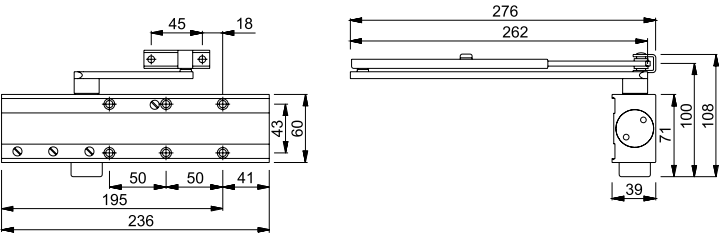


AR5200

- ARRONE overhead door closing device:
- Power size: EN 3 to EN 5, adjustable by spring tension (Size 2 by template)
 - Function: closing, latching, backcheck
 - Cover: slide
 - Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
 - Successfully type tested for conformity to all requirements of **BS EN 1154:1997**
Tested: door width 1,100-1,250 mm, door weight 80-100 kg
Classification (Fig 1): 4 | 8 | 5/2 | 1* | 1 | 4
Classification (Fig 6): 3 | 8 | 4/3 | 1* | 1 | 4
Classification (Fig 61): 4 | 8 | 4/2 | 1* | 1 | 4
 - Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors and 240 minute insulated steel fire doors
 - Certification:
CE: AD0239, DOP HUK0005
Certifire: CF295



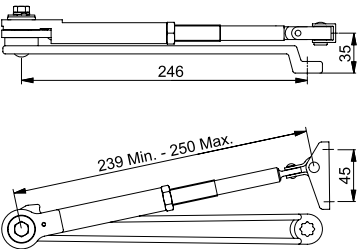
Product ref.	Article description	Finish	Article no.
AR5200-BLK	Door closer and matching arm	BLK	50020626
AR5200-SE	Door closer and matching arm	SE	87112570



AR5200/AR5500-ARM

- ARRONE door closing device accessories:
- Function: hold open armset
 - Material: steel
 - Fixing: timber door screws
 - **Note: This product is not suitable for use on fire doors.**

Product ref.	Article description	Finish	Article no.
AR5200/AR5500-ARM-HO-SE	Hold open armset	SE	89001373





AR5500

ARRONE overhead door closing device:

- Power size: EN 3 to EN 5, adjustable by spring tension (Size 2 by template)
- Function: closing, latching, backcheck
- Cover: slide
- Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
- Successfully type tested for conformity to all requirements of

BS EN 1154:1997

Tested: door width 1,100-1,250 mm, door weight 80-100 kg

Classification (Fig 1): 4 | 8 | 5/2 | 1* | 1 | 4

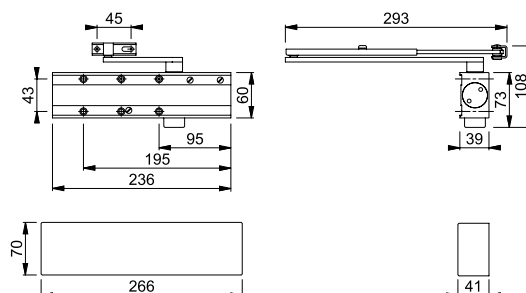
Classification (Fig 6): 3 | 8 | 4/3 | 1* | 1 | 4

Classification (Fig 61): 4 | 8 | 4/2 | 1* | 1 | 4

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors and 240 minute insulated steel fire doors
- Certification:
CE: AD0239, DOP HUK0005
Certifire: CF295



Product ref.	Article description	Finish	Article no.
AR5500-L-SE/SE	Door closer and matching arm	SE	87113186





AR8200

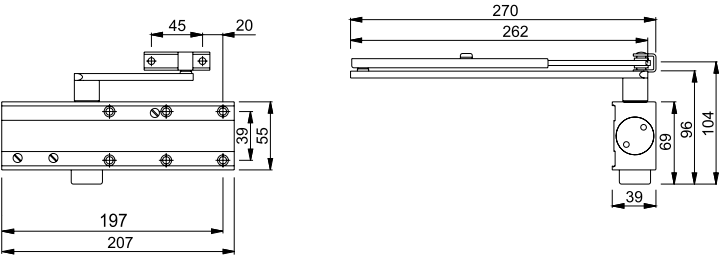
- ARRONE overhead door closing device:
- Power size: EN 2 to EN 4, adjustable by template
 - Function: closing, latching
 - Cover: slide
 - Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
 - Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 950-1,100 mm, door weight 60-80 kg
Classification (Fig 1/Fig 61): 3 | 8 | 4/2 | 1* | 1 | 3
Classification (Fig 6): 3 | 8 | 3 | 1* | 1 | 3
Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

- Certification:
CE: AD0118, DOP HUK0020
Certifire: CF295



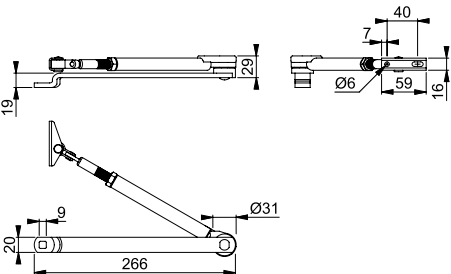
Product ref.	Article description	Finish	Article no.
AR8200-BLK	Overhead door closing device	BLK	50020663
AR8200-GE	Overhead door closing device	GE	87106852
AR8200-SE	Overhead door closing device	SE	87106851
AR8200-WHT	Overhead door closing device	WHT	50013798



AR8200-ARM

- ARRONE door closing device accessories:
- Function: hold open armset
 - Material: steel
 - Fixing: timber door screws
 - **Note: This product is not suitable for use on fire doors.**

Product ref.	Article description	Finish	Article no.
AR8200-ARM-HOA-SE	Hold open armset	SE	87103066



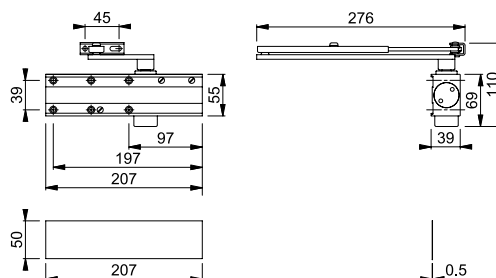


AR8200

ARRONE overhead door closing device:

- Power size: EN 2 to EN 4, adjustable by template
- Function: closing, latching, hold open
- Cover: slide
- Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
- Tested: door width 950-1,100 mm, door weight 60-80 kg

Product ref.	Article description	Finish	Article no.
AR8200-HOA-SE/SE	Overhead door closing device (trim)	SE	87114397



3



AR9200

ARRONE overhead door closing device:

- Power size: EN 2 to EN 6, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: slide
- Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 1,400 mm, door weight 120 kg

Classification (Fig 1/Fig 61): 4 | 8 | 6/2 | 1* | 1 | 3

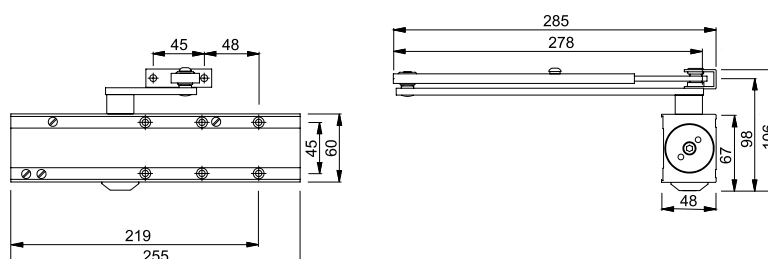
Classification (Fig 6): 4 | 8 | 5/3 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors
- Certification:
CE: AD0162, DOP HUK0029
Certifire: CF295

certifire
CE



Product ref.	Article description	Finish	Article no.
AR9200-BLK	Overhead door closing device	BLK	50020924
AR9200-DR-SE	Overhead door closing device	SE	50014067





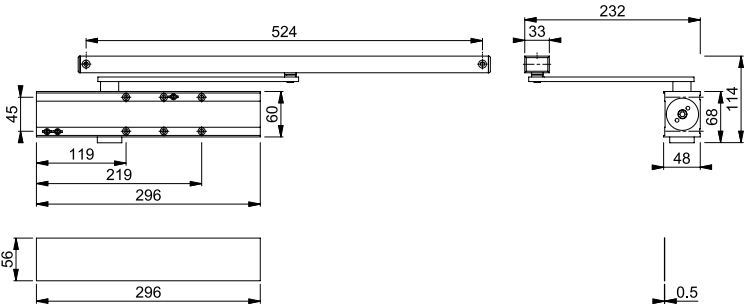
AR8209

- ARRONE overhead door closing device:
- Power size: EN 2 to EN 4
 - Function: closing, latching, cushion stop
 - Cover: slide
 - Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
 - Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 1,100 mm, door weight 80 kg
Classification (Fig 1/Fig 61): 4 | 8 | 4/2 | 1* | 1 | 3
Classification (Fig 6): 3 | 8 | 4/2 | 1* | 1 | 3
• Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors
• Certification:
CE: AD0275, DOP HUK0027
Certifire: CF770



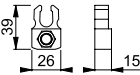
Product ref.	Article description	Finish	Article no.
AR8209-SE	Overhead door closing device	SE	87116128
AR8209-SSS	Overhead door closing device	SSS	87116135



AR8209-HO-ADAPTER

- ARRONE door closing device accessories:
- Function:h hold open
 - Material: plastic
 - **Note: This product is not suitable for use on fire doors.**

Product ref.	Article description		Article no.
AR8209-HO-ADAPTER	Hold open		50001425





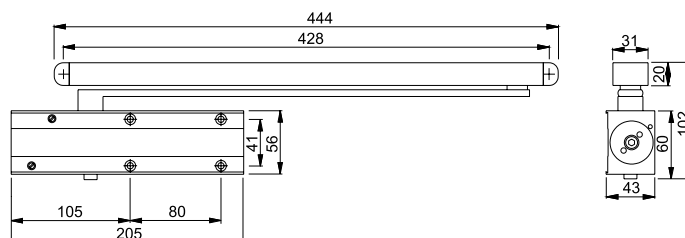
AR6309B

ARRONE overhead door closing device:

- Power size: EN 3
- Function: closing, latching
- Cover: slide
- Arm application: door mount pull, transom mount push
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**
- Tested: door width 950 mm, door weight 60 kg
- Classification (Door mount pull side): 4 | 8 | 3 | 1* | 1 | 3
- Classification (Transom mount push side): 3 | 8 | 3 | 1* | 1 | 3
- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors
- Certification:
CE: AD5276, DOP HUK0064
Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6309B-SE	Overhead door closing device	SE	50008341



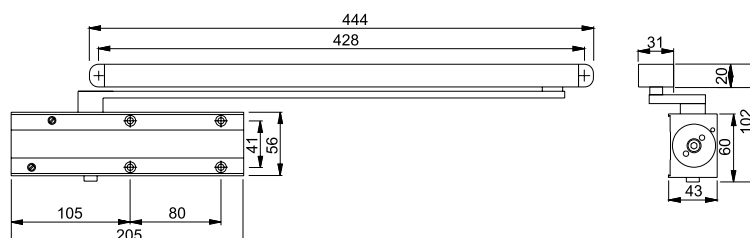
AR6309G

ARRONE overhead door closing device:

- Power size: EN 3
- Function: closing, latching
- Cover: slide
- Arm application: door mount push, transom mount pull
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**
- Tested: door width 950 mm, door weight 60 kg
- Classification (Door mount push side): 4 | 8 | 3 | 1* | 1 | 3
- Classification (Transom mount pull side): 3 | 8 | 3 | 1* | 1 | 3
- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors
- Certification:
CE: AD5276, DOP HUK0064
Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6309G-SE	Overhead door closing device	SE	50008353





AR6409B – box cover

ARRONE overhead door closing device:

- Power size: EN 2 to EN 4, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: box
- Arm application: door mount pull, transom mount push
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 1,100 mm, door weight 80 kg

Classification (Door mount pull side): 4 | 8 | 4/2 | 1* | 1 | 3

Classification (Transom mount push side): 3 | 8 | 4/2 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

- Certification:

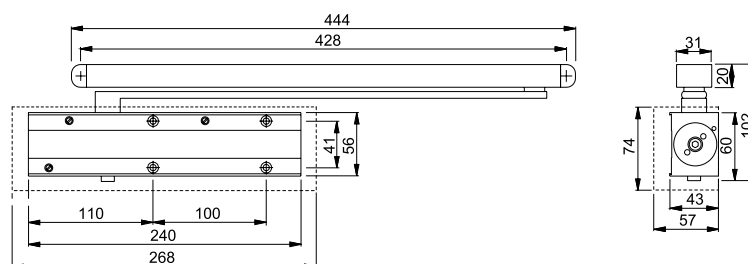
CE: AD5284, DOP HUK0065

Certifire: CF5430

certifire



Product ref.	Article description	Finish	Article no.
AR6409B-BX-SE	Cam action slide arm closer	SE	50008365
AR6409B-BX-SSS	Cam action slide arm closer	SSS	50008389



AR6409G – box cover

ARRONE overhead door closing device:

- Power size: EN 2 to EN 4, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: box
- Arm application: door mount push, transom mount pull
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 1,100 mm, door weight 80 kg

Classification (Door mount push side): 4 | 8 | 4/2 | 1* | 1 | 3

Classification (Transom mount pull side): 3 | 8 | 4/2 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

- Certification:

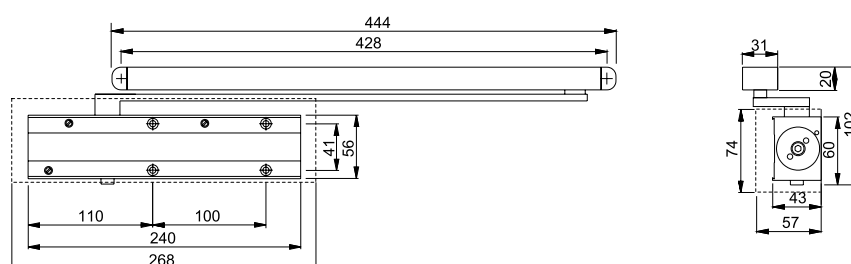
CE: AD5284, DOP HUK0065

Certifire: CF5430

certifire



Product ref.	Article description	Finish	Article no.
AR6409G-BX-SE	Cam action slide arm closer	SE	50008377
AR6409G-BX-SSS	Cam action slide arm closer	SSS	50008390





AR6409B – slimline cover



ARRONE overhead door closing device:

- Power size: EN 2 to EN 4, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: slimline
- Arm application: door mount pull, transom mount push
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 1,100 mm, door weight 80 kg

Classification (Door mount pull side): 4 | 8 | 4/2 | 1* | 1 | 3

Classification (Transom mount push side): 3 | 8 | 4/2 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

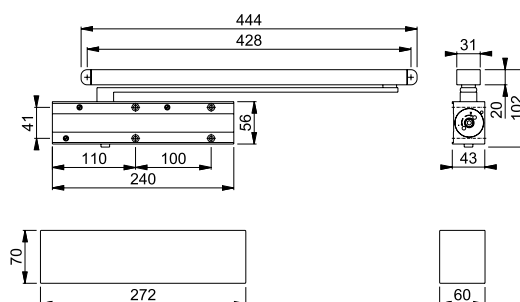
- Certification:

CE: AD5284, DOP HUK0065

Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6409B-L-SE	Cam action slide arm closer	SE	50008407
AR6409B-L-SSS	Cam action slide arm closer	SSS	50008420



AR6409G – slimline cover



ARRONE overhead door closing device:

- Power size: EN 2 to EN 4, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: slimline
- Arm application: door mount push, transom mount pull
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 1,100 mm, door weight 80 kg

Classification (Door mount push side): 4 | 8 | 4/2 | 1* | 1 | 3

Classification (Transom mount pull side): 3 | 8 | 4/2 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

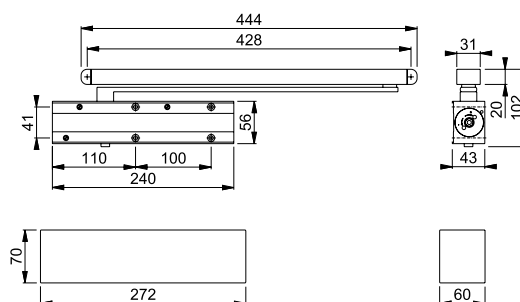
- Certification:

CE: AD5284, DOP HUK0065

Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6409G-L-SE	Cam action slide arm closer	SE	50008419
AR6409G-L-SSS	Cam action slide arm closer	SSS	50008432





AR6409-EHO – box cover



ARRONE overhead electromagnetic door closing device:

- Power size: EN 3 to EN 4, adjustable by spring tension
- Function: closing, latching, backcheck, electromagnetic hold open track
- Cover: box
- Arm application: door mount pull, transom mount push
- Successfully type tested for conformity to all requirements of **BS EN 1155:1997**

Tested: door width 950-1,100 mm, door weight 60-80 kg

Classification (Door mount pull side): 4 | 8 | 4/2 | 1* | 1 | 3

Classification (Transom mount push side): 3 | 8 | 4/2 | 1* | 1 | 3

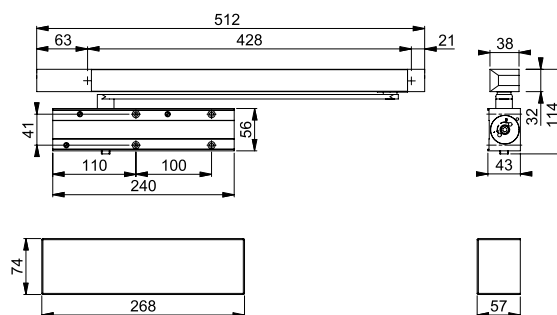
- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

- Certification:

CE: AE5024, DOP HUK0055



Product ref.	Article description	Finish	Article no.
AR6409B-EHO-BX-SE	Cam action slide arm closer	SE	50024218



AR6409-EHO – slimline cover



ARRONE overhead electromagnetic door closing device:

- Power size: EN 3 to EN 4, adjustable by spring tension
- Function: closing, latching, backcheck, electromagnetic hold open track
- Cover: slimline
- Arm application: door mount pull, transom mount push
- Successfully type tested for conformity to all requirements of **BS EN 1155:1997**

Tested: door width 1,100 mm, door weight 80 kg

Classification (Door mount pull side): 4 | 8 | 4/2 | 1* | 1 | 3

Classification (Transom mount push side): 3 | 8 | 4/2 | 1* | 1 | 3

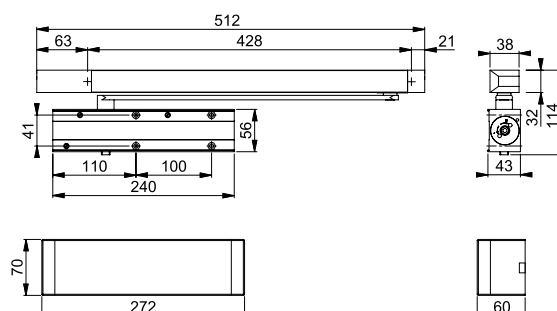
- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

- Certification:

CE: AE5024, DOP HUK0055



Product ref.	Article description	Finish	Article no.
AR6409B-EHO-L-SE	Cam action slide arm closer	SE	50024225



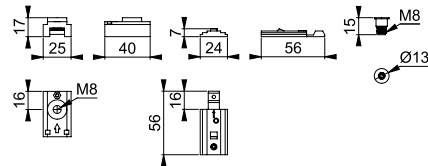


AR-ODC-HOA-KIT

ARRONE door closer accessories:

- Material: plastic, zinc
- Function: hold open
- **Note: This product is not suitable for use on fire doors.**

Product ref.	Article description		Article no.
AR6309/6409/6509-HOA-KIT	Hold open		50008754



3

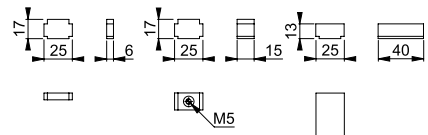


AR6409/6509-STAY

ARRONE door closer accessories:

- Material: plastic, zinc
- Function: limiting stay

Product ref.	Article description		Article no.
AR6409/6509-STAY	Limiting stay		50008730





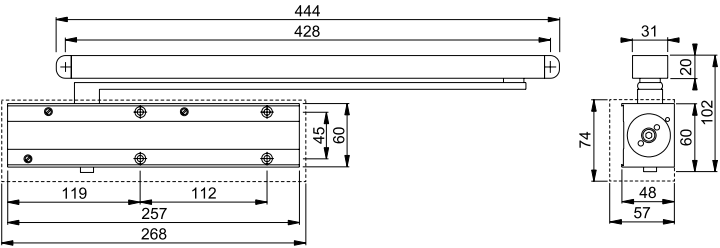
AR6509B – box cover



- ARRONE overhead door closing device:
- Power size: EN 2 to EN 5, adjustable by spring tension
 - Function: closing, latching, backcheck
 - Cover: box
 - Arm application: door mount pull, transom mount push
 - Successfully type tested for conformity to all requirements of **BS EN 1154:1997**
- Tested: door width 1,250 mm, door weight 100 kg
Classification (Door mount pull side): 4 | 8 | 5/2 | 1* | 1 | 3
Classification (Transom mount push side): 3 | 8 | 5/2 | 1* | 1 | 3
- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors
 - Certification:
CE: AD5285, DOP HUK0066
Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6509B-BX-SE	Cam action slide arm closer	SE	50008444
AR6509B-BX-SSS	Cam action slide arm closer	SSS	50008523





AR6509G – box cover

ARRONE overhead door closing device:

- Power size: EN 2 to EN 5, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: box
- Arm application: door mount push, transom mount pull
- Successfully type tested for conformity to all requirements of

BS EN 1154:1997

Tested: door width 1,250 mm, door weight 100 kg

Classification (Door mount push side): 4 | 8 | 5/2 | 1* | 1 | 3

Classification (Transom mount pull side): 3 | 8 | 5/2 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

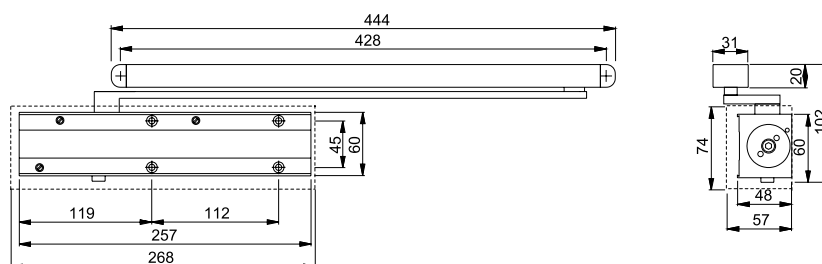
- Certification:

CE: AD5285, DOP HUK0066

Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6509G-BX-SE	Cam action slide arm closer	SE	50008456
AR6509G-BX-SSS	Cam action slide arm closer	SSS	50008535





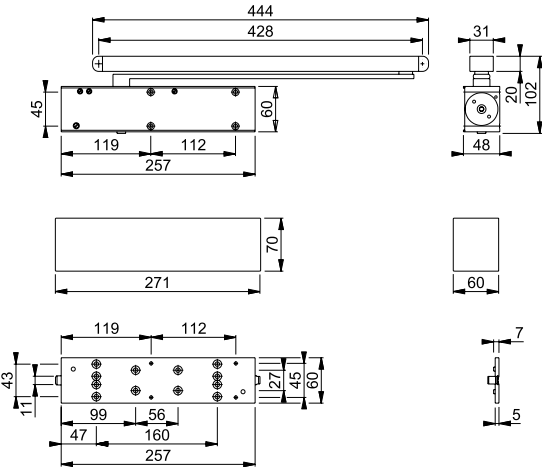
AR6509B – slimline cover



- ARRONE overhead door closing device:
- Power size: EN 2 to EN 5, adjustable by spring tension
 - Function: closing, latching, backcheck, delayed action
 - Cover: slimline
 - Arm application: door mount pull, transom mount push
 - Successfully type tested for conformity to all requirements of **BS EN 1154:1997**
Tested: door width 1,250 mm, door weight 100 kg
Classification (Door mount pull side): 4 | 8 | 5/2 | 1* | 1 | 3
Classification (Transom mount push side): 3 | 8 | 5/2 | 1* | 1 | 3
 - Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors
 - Certification:
CE: AD5285, DOP HUK0066
Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6509B-L-SE	Cam action slide arm closer	SE	50008468
AR6509B-L-SSS	Cam action slide arm closer	SSS	50008547





AR6509G – slimline cover

ARRONE overhead door closing device:

- Power size: EN 2 to EN 5, adjustable by spring tension
- Function: closing, latching, backcheck, delayed action
- Cover: slimline
- Arm application: door mount push, transom mount pull
- Successfully type tested for conformity to all requirements of

BS EN 1154:1997

Tested: door width 1,250 mm, door weight 100 kg

Classification (Door mount push side): 4 | 8 | 5/2 | 1* | 1 | 3

Classification (Transom mount pull side): 3 | 8 | 5/2 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

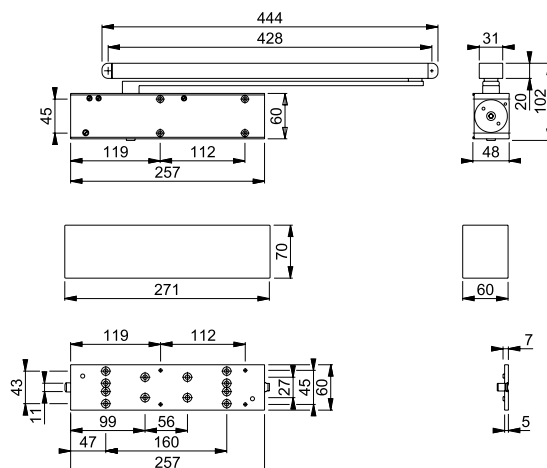
- Certification:

CE: AD5285, DOP HUK0066

Certifire: CF5430



Product ref.	Article description	Finish	Article no.
AR6509G-L-SE	Cam action slide arm closer	SE	50008475
AR6509G-L-SSS	Cam action slide arm closer	SSS	50008559





AR7383

ARRONE overhead concealed door closing device:

- Power size: EN 2 to EN 4, adjustable by spring tension
- Function: closing, latching, cushion stop
- Cover: none
- Arm application: door mount concealed push and pull
- Successfully type tested for conformity to all requirements of **BS EN 1154:1997**

Tested: door width 1,100 mm, door weight 80 kg

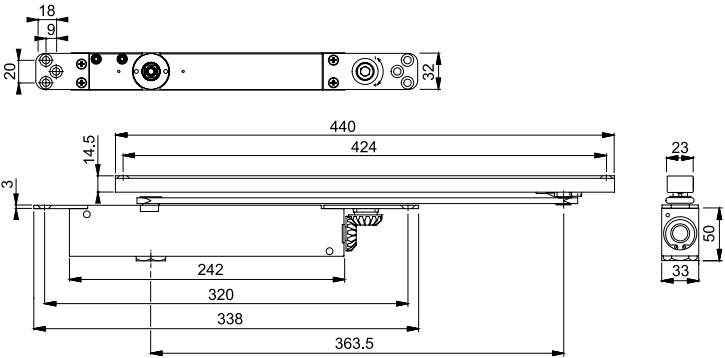
Classification (Door mount pull side): 3 | 8 | 4/2 | 1* | 1 | 3

Classification (Transom mount pull side): 3 | 8 | 4/2 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60, 90 and 120 minute timber fire doors
- Certification:
CE: AD5071, DOP HUK0026
Certifire: CF5181



Product ref.	Article description	Finish	Article no.
AR7383-BLK	Overhead concealed door closing device	BLK	50013014
AR7383-PB-O	Overhead concealed door closing device	PBR	50013038
AR7383-SE	Overhead concealed door closing device	SE	87141202
AR7383-SNP	Overhead concealed door closing device	SNP	87141216



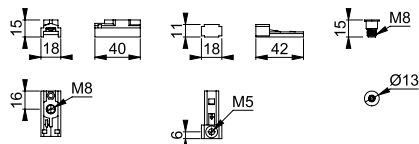


AR-ODC-HOA-KIT

ARRONE door closing device accessories:

- Function: hold open kit for use with slide track of AR7383 concealed door closer
- Material: zinc
- **Note: This product is not suitable for use on fire doors.**

Product ref.	Article description		Article no.
AR7383-HOA-KIT	Hold open kit		87141139



3



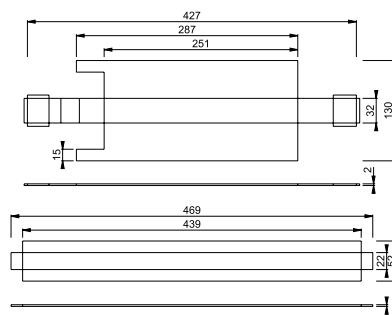
AR/INT-CDC

ARRONE intumescent pack:

- Intumescent pack to suit ARRONE AR7383 concealed overhead door closer
- Thickness: 2 mm
- Consists of: 1 x mechanism body wrap, 1 x track arm wrap
- Material: monoammonium phosphate (MAP)
- Included in a successful fire test with the AR7383 concealed door closer to **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute on steel fire doors.
- Also available as part of a kit with the AR7383 concealed overhead door closer
- **Note: Handle material with care – please wash hands after handling.**



Product ref.	Article description		Article no.
AR/INT-7383	Intumescent pack		87141209



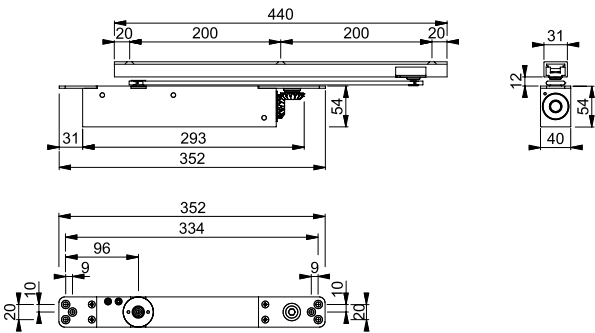


AR8383

- ARRONE overhead concealed door closing device:
- Power size: EN 3 to EN 6, adjustable by spring tension
 - Function: closing, latching
 - Cover: none
 - Arm application: door mount concealed push and pull
 - Successfully type tested for conformity to all requirements of **BS EN 1154:1997**
Tested: door width 1,400 mm, door weight 120 kg
Classification (Door mount pull side): 3 | 8 | 6/3 | 1* | 1 | 3
 - Fire tested to **BS EN 1634-1**: suitable for 30, 60, 90 and 120 minute timber fire doors
 - Certification:
CE: AD5479, DOP HUK0024
Certifire: CF5940
 - The AR8383 series door closing device has been successfully fire tested with the use of an intumescent kit (AR/INT-8383). The supply and fitting of this intumescent kit is essential to the products compliance with the fire test evidence it has gained. HOPPE takes no responsibility for any product purchased and fitted to fire resistant door sets without intumescent protection as tested with the product.



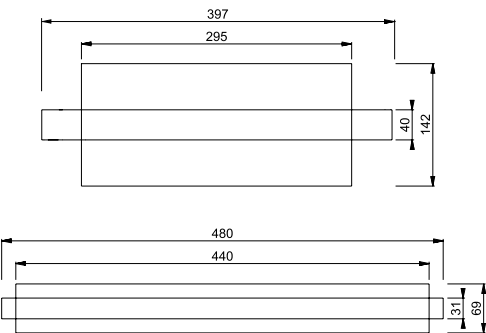
Product ref.	Article description	Finish	Article no.
AR8383-SE	Overhead door closing device	SE	50017664



AR/INT-CLO

- ARRONE intumescent kit:
- Thickness: 2 mm
 - Consists of: 1 x mechanism section, 1 x slide track section
 - Material: monoammonium phosphate (MAP)
 - Successfully tested with ARRONE AR8383 concealed overhead door closers to **BS EN 1634-1**. Assessed for use on 60 minute timber fire doors.
 - **Note: Handle material with care – please wash hands after handling.**

Product ref.	Article description		Article no.
AR/INT-8383	Intumescent pack		50018322





AR9500

ARRONE overhead door closing device:

- Power size: EN 2 to EN 6, adjustable by spring tension
- Function: closing, latching, backcheck
- Cover: slide
- Arm application: Fig 1, Fig 6 and Fig 61 fixing positions
- Successfully type tested for conformity to all requirements of

BS EN 1154:1997

Tested: door width 1,250-1,400 mm, door weight 100-120 kg

Classification (Fig 1/Fig 61): 4 | 8 | 6/2 | 1* | 1 | 3

Classification (Fig 6): 4 | 8 | 5/3 | 1* | 1 | 3

- Fire tested to **BS EN 1634-1**: suitable for 30, 60 and 120 minute timber fire doors

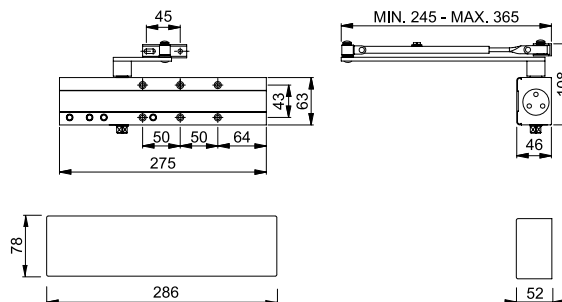
• Certification:

CE: AD0162, DOP HUK0029

Certifire: CF295



Product ref.	Article description	Finish	Article no.
AR9500-L-SSS/ SSS-A2-O	Overhead door closing device	SE	50013609



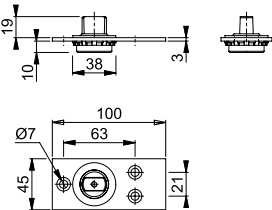


AR700-P

ARRONE floor spring – floor pivot:

- Material: stainless steel
- Fixing: supplied with floor mounted fixings
- Tested: door weight 150 kg

Product ref.	Article description	Finish	Article no.
AR700-P-SSS-A2	Floor spring – floor pivot	SSS	89001470



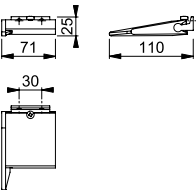
AR226

ARRONE door selector:

- Suitable for use with power size 3 to 6 closers
- Suitable for use on timber and metal doors up to 1,100 mm wide
- Suitable for door rebates up to 25 mm
- Extra length rebate arms and finishes available to special request
- Successfully type tested for conformity to all the requirements of **BS EN 1158**
- Testing: Compliant with **BS EN 1634** Pt.1:2014 for 30, 60, 90 and 120 minute timber fire doors and FD240 minute steel fire doors
- CE Marked: AF5007
- CE DOP: HUK0004



Product ref.	Article description	Finish	Article no.
AR226-MK2-SE	Door selector	SE	87102975



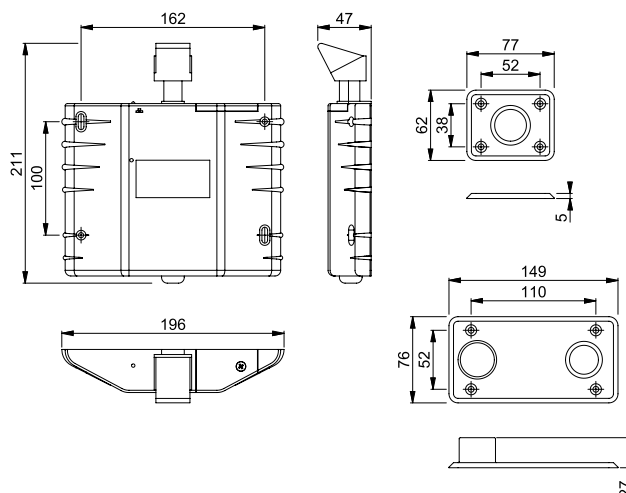


DG-2000

ARRONE dorgard retaining device:

- Holds open fire doors and automatically closes the door when the fire alarm sounds
- Material ABS
- Power 2 x 1.5 VC size alkaline batteries
- Trigger by alarms compliant with **BS 5839-3**
- Complies with **BS EN 1155:1997** and is accepted by the Fire and Rescue Services
- **EN 61000-6-1:2001**
- **EN 61000-6-3:2001 +A11:2004**
- **BS 7273-4 Category C**
- USA patent number 5525963
- European patent number 0635092

Product ref.	Article description	Finish	Article no.
AR/E-DG2000-BLK	Dorgard retaining device	BLK	87133553
AR/E-DG2000-R	Dorgard retaining device	RED	87133560
AR/E-DG2000-WHT	Dorgard retaining device	WHT	87133567



How does Dorgard work?

- Once installed, Dorgard works by listening out for a continuous sound of 65 decibels or higher.
- Once this sound has been identified, after approximately 14 seconds Dorgard will release the fire door and under the pressure of the overhead door closer the door will close, sealing the area and preventing the spread of smoke and fire.
- As Dorgard is wireless it requires no wiring into the building's main fire alarm system meaning that disruption during installation is minimal and fast.
- When Dorgard is holding a fire door open, it "listens" for the continuous sound of a fire alarm. Dorgard needs to "hear" a fire alarm that exceeds 65 decibels for longer than 14 seconds. At a general noise level of 80 decibels Dorgard will release. This facility has been built into the unit as a safety feature. Should the noise level in your premises exceed 80 decibels it is unlikely that you would hear a 65 decibel alarm, therefore the Dorgard releases the fire door to close.
- Unlike electro-magnetic retainers (EMR),
- Dorgard requires no wiring as it is battery operated and self-contained. Installation is easy, quick and non-disruptive. It is affixed to your fire door with four screws and takes approximately 5 minutes to install.
- Once you have inserted two batteries (supplied). Dorgard is ready for duty.

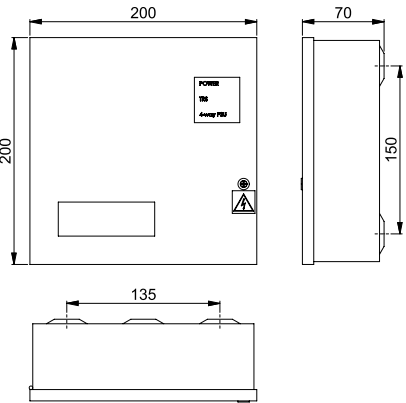


RG-PSU

ARRONE boxed transformer rectifier regulated 24 V DC 2 A:

- 2 A 24 V DC regulated transformer rectifier
- Mains LED (green) and Fault LED (red) built in
- For use with retaining magnets and electro magnetic closers
- Output 24 V DC
- No battery back up

Product ref.	Article description	Finish	Article no.
AR/E-F162-TR	Boxed transformer rectifier regulated 24 V DC 2 A	WHT	87120181

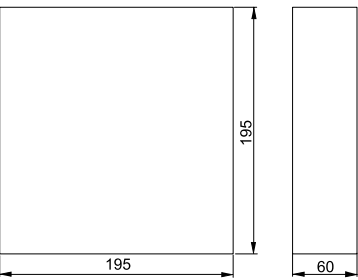


RG-PSU

ARRONE boxed transformer rectifier regulated 24 V DC 4 A:

- 4 A 24 V DC regulated transformer rectifier
- Mains LED (green) and Fault LED (red) built in
- For use with retaining magnets and electro magnetic closers
- Output 24 V DC
- No battery back up

Product ref.	Article description	Finish	Article no.
AR/E-F164-TR	Boxed transformer rectifier regulated 24 V DC 4 A	WHT	87120188



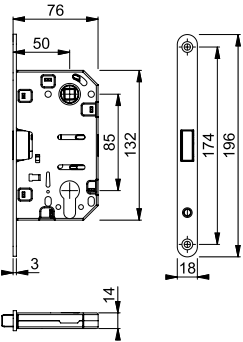




AR3310

- ARRONE magnetic sashlock:
- Function: deadbolt operation
 - Backset: 50 mm
 - Centre's: 85 mm
 - Deadbolt: plastic coated magnetic
 - Forend/strike material: steel
 - Forend type: single

Product ref.	Article description	Finish	Article no.
AR3310-50/85-BLK	Mortice magnetic case (50 mm backset, round forend)	BLK	50015564
AR3310-50/85-MNP	Mortice magnetic case (50 mm backset, round forend)	MNP	50015540
AR3310-50/85-PVD-SBR	Mortice magnetic case (50 mm backset, round forend)	PVD	50016891
AR3310-50/85-PVD-COP	Mortice magnetic case (50 mm backset, round forend)	PVD-COP	50016885
AR3310-50/85-PVD-PBR	Mortice magnetic case (50 mm backset, round forend)	PVD-PBR	50016611
AR3310-50/85-TTM	Mortice magnetic case (50 mm backset, round forend)	TTM	50016908
AR3310-50/85-WHT	Mortice magnetic case (50 mm backset, round forend)	WHT	50015552



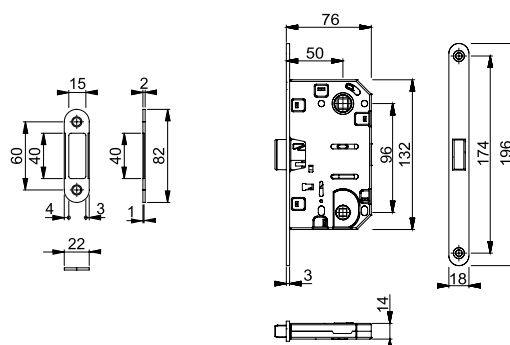


AR3313

ARRONE magnetic bathroom lock:

- Function: deadbolt operation
- Backset: 50 mm
- Centre's: 96 mm
- Deadbolt: plastic coated magnetic
- Forend/strike material: steel
- Forend type: single
- Forend shape: radius
- Certification/testing: not applicable

Product ref.	Article description	Finish	Article no.
AR3313-50/96-BLK	Magnetic bathroom lock (50 mm backset, round forend)	BLK	50015595
AR3313-50/96-MNP	Magnetic bathroom lock (50 mm backset, round forend)	MNP	50015576
AR3313-50/96-PVD-COP	Magnetic bathroom lock (50 mm backset, round forend)	PVD-COP	50016915
AR3313-50/96-PVD-SBR	Magnetic bathroom lock (50 mm backset, round forend)	PVD-SBR	50016921
AR3313-50/96-TTM	Magnetic bathroom lock (50 mm backset, round forend)	TTM	50016933
AR3313-50/96-WHT	Magnetic bathroom lock (50 mm backset, round forend)	WHT	50015588





AR910

ARRONE mortice sashlock case:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 21 mm, single throw
- Forend/strike material: stainless steel
- Forend type: single
- CE Marked: AG0067

BS EN 12209: 3 | X | 8 | 1* | 0 | G | 4 | B | A | 3 | 0

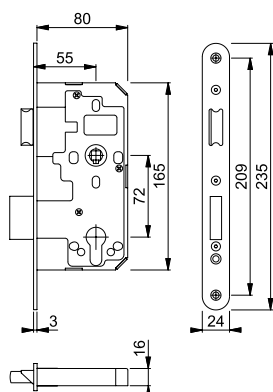
- Certifire approved: CF530, CE DOP: HUK0007

- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.

- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR910 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR910-R-55-BLK-A2	Mortice sashlock case (55 mm backset, round forend)	BLK	50025028
AR910-R-60-BLK	Mortice sashlock case (60 mm backset, round forend)	BLK	50015436
AR910-R-60-PBR	Mortice sashlock case (60 mm backset, round forend)	PBR	87107858
AR910-R-60-PSS	Mortice sashlock case (60 mm backset, round forend)	PSS	87107857
AR910-R-55-SSS-A2	Mortice sashlock case (55 mm backset, round forend)	SSS	89001638
AR910/20-R-55-SSS	Mortice sashlock case (55 mm backset, round forend)	SSS	50024535
AR910-R-60-SSS-A2	Mortice sashlock case (60 mm backset, round forend)	SSS	89001897
AR910-R-60-20-SSS-A2	Mortice sashlock case (60 mm backset, round forend)	SSS	89002037
AR910-R-60-SSS	Mortice sashlock case (60 mm backset, round forend)	SSS	87107856
AR910-R-80-SSS	Mortice sashlock case (80 mm backset, round forend)	SSS	87117078





AR910

ARRONE mortice sashlock case:

- Function: Latchbolt and deadbolt operation
- Deadbolt projection: 21 mm, single throw
- Forend/strike material: Steel satin chrome plated
- Forend type: Single
- Strike type: Adjustable
- CE Marked: AG0067

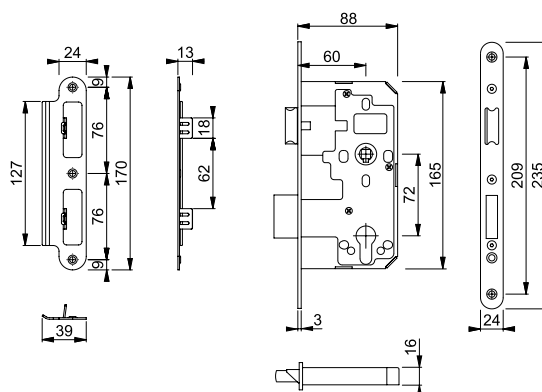
BS EN 12209: 3 | X | 8 | 1* | 0 | G | 4 | B | A | 3 | 0

- Certifire approved: CF530, CE DOP: HUK0007
- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR910 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



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Product ref.	Article description	Finish	Article no.
AR910/ADJ-OEM-R-60-SSS	Mortice sashlock case (60 mm backset, round forend)	SSS	50015655





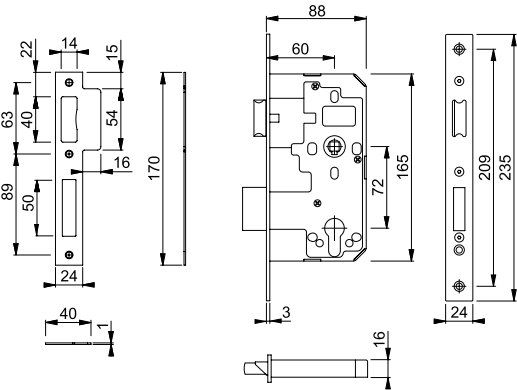
AR910

ARRONE mortice sashlock case:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 21 mm, single throw
- Forend/strike material: stainless steel
- Forend type: single
- CE Marked: AG0067
- **BS EN 12209:** 3 | X | 8 | 1* | 0 | G | 4 | B | A | 3 | 0
- Certifire approved: CF530, CE DOP: HUK0007
- Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR910 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR910-S-60-SSS-A2	Mortice sashlock case (60 mm backset, squared forend)	SSS	89002597



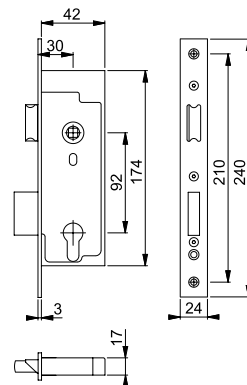


AR910

ARRONE mortice sashlock case:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 11 mm, single throw
- Forend/strike material: stainless steel
- Forend type: single

Product ref.	Article description	Finish	Article no.
AR910-S-30/92-SSS-A2	Mortice sashlock case (42 mm backset, squared forend)	SSS	50015126



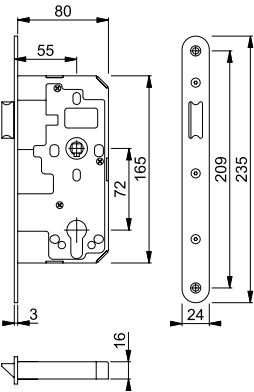


AR911

- ARRONE mortice latch case:
- Function: latchbolt operation
 - Forend/strike material: stainless steel
 - Forend type: single
 - CE Marked: AG0067
 - **BS EN 12209:** 3 | X | 8 | 1* | 0 | G | - | B | 0 | 3 | 0
 - Certifire approved: CF530, CE DOP: HUK0009
 - Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
 - Meets dimensional recommendations of **BS 8300** and ADM for locks
 - * The AR911 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR911-R-55-BLK-A2	Mortice latch case (55 mm backset, round forend)	BLK	50025041
AR911-R-60-BLK	Mortice latch case (60 mm backset, round forend)	BLK	50015813
AR911-R-60-PB	Mortice latch case (60 mm backset, round forend)	PBR	87107864
AR911-R-60-PSS	Mortice latch case (60 mm backset, round forend)	PSS	87107863
AR911-R-55-SSS-A2	Mortice latch case (55 mm backset, round forend)	SSS	89001645
AR911-R-60-SSS-A2	Mortice latch case (60 mm backset, round forend)	SSS	89001904
AR911-R-60-20-SSS-A2	Mortice latch case (60 mm backset, round forend)	SSS	89002044
AR911-R-60-SSS	Mortice latch case (60 mm backset, round forend)	SSS	87107862
AR911-R-80-SSS	Mortice latch case (80 mm backset, round forend)	SSS	87142637





AR912

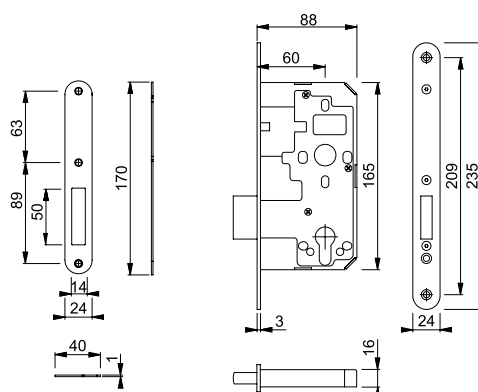
ARRONE mortice deadlock case:

- Function: deadbolt operation
- Deadbolt projection: 21 mm, single throw
- Forend/strike material: stainless steel
- Forend type: single
- CE Marked: AG0068
- Certifire approved: CF530, CE DOP: HUK0008
- **BS EN 12209**: 3 | X | 8 | 1* | 0 | G | 4 | B | A | 0 | 0
- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR912 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



4

Product ref.	Article description	Finish	Article no.
AR912-R-60-PB	Mortice latch case (60 mm backset, round forend)	PBR	87107870
AR912-R-60-PSS	Mortice latch case (60 mm backset, round forend)	PSS	87107869
AR912-R-60-SSS	Mortice latch case (55 mm backset, round forend)	SSS	87107868





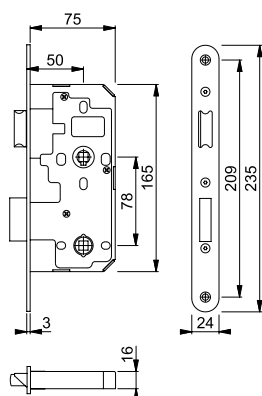
AR913

ARRONE mortice bathroom lock:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 21 mm, single throw
- 8 mm bathroom follower with 5 mm adaptor supplied
- Forend/strike material: stainless steel
- Forend type: single
- CE Marked: AG0067
- **BS EN 12209:** 3 | X | 8 | 1* | 0 | G | - | B | 0 | 3 | 0
- Certifire approved: CF530, CE DOP: HUK0010
- Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR913 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR913-R-50-BLK	Mortice bathroom lock (50 mm backset, round forend)	BLK	50025053
AR913-R-55-BLK	Mortice bathroom lock (55 mm backset, round forend)	BLK	50025065
AR913-R-60-BLK	Mortice bathroom lock (60 mm backset, round forend)	BLK	50015455
AR913-R-60-PB	Mortice bathroom lock (60 mm backset, round forend)	PBR	87107876
AR913-R-60-PSS	Mortice bathroom lock (60 mm backset, round forend)	PSS	87107875
AR913-R-55-SSS-A2	Mortice bathroom lock (55 mm backset, round forend)	SSS	89001652
AR913-R-60-SSS-A2	Mortice bathroom lock (60 mm backset, round forend)	SSS	89001918
AR913-R-60-20-SSS-A2	Mortice bathroom lock (60 mm backset, round forend)	SSS	89002051
AR913-R-60-SSS	Mortice bathroom lock (60 mm backset, round forend)	SSS	87107874
AR913-R-80-SSS	Mortice bathroom lock (80 mm backset, round forend)	SSS	87117092





AR914

ARRONE mortice nightlatch case:

- Function: latchbolt with anti thrust operation
- Forend/strike material: stainless steel
- Forend type: single
- CE Marked: ABB010, AG0067

BS EN 12209: 3 | X | 8 | 1* | 0 | G | - | B | 0 | 3 | 0

BS EN 179: 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | B

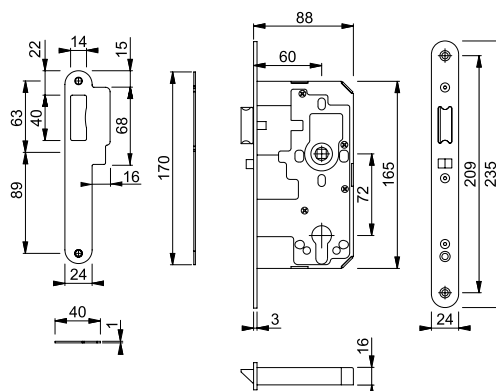
BS EN 179: 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | D

- Certifire approved: CF530, CE DOP: HUK0011 and HUK0052
- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- **To comply with BS EN 179 certification, only lever handles and associated fixings included in the test evidence must be used.**
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR914 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



4

Product ref.	Article description	Finish	Article no.
AR914-R-60-PB	Mortice nightlatch case (60 mm backset, round forend)	PBR	87107882
AR914-R-60-PSS	Mortice nightlatch case (60 mm backset, round forend)	PSS	87107881
AR914-R-60-SSS	Mortice nightlatch case (60 mm backset, round forend)	SSS	87107880





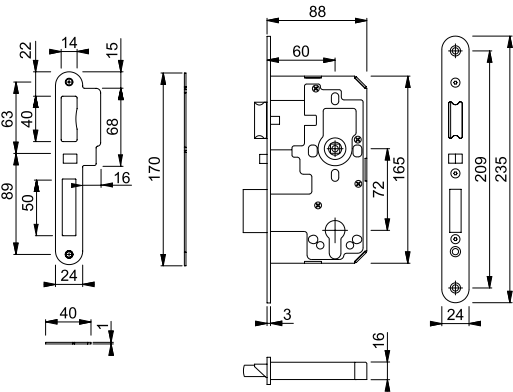
AR915-ESC



- ARRONE mortice apartment lock case:
- Function: latchbolt and deadbolt with escape operation for half set lever handle sets
 - Deadbolt projection: 21 mm, single throw
 - Forend/strike material: stainless steel
 - Forend type: single
 - Follower: 8 mm follower with self locating plate to allow easy reversibility of the escape function.
 - CE Marked: ABB010
 - **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | B
 - **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | D
 - Certifire approved: CF530, CE DOP: HUK0035 and HUK0012
 - Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
 - **To comply with BS EN 179 certification, only lever handles and associated fixings included in the test evidence must be used.**
 - Meets dimensional recommendations of **BS 8300** and ADM for locks
 - * The AR915 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR915-ESC-R-60-PSS	Mortice apartment lock case (60 mm backset, round forend)	PSS	50001486
AR915-ESC-R-60-SSS	Mortice apartment lock case (60 mm backset, round forend)	SSS	50001462





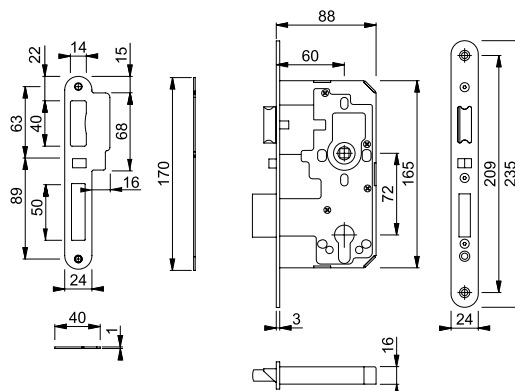
AR915

ARRONE mortice apartment lock case:

- Function: latchbolt and deadbolt with escape operation
- Deadbolt projection: 21 mm, single throw
- Forend/strike material: stainless steel
- Forend type: single
- Follower: 8 mm split follower with self locating plate to allow easy reversibility of the escape function. Supplied with AR227 (120 mm) ARRONE Locking Split Spindle
- CE Marked: AG0067, ABB010
- **BS EN 12209:** 3 | X | 8 | 1* | 0 | G | 4 | B | A | 3 | 0
- **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | B
- **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | D
- Certifire approved: CF530, CE DOP: HUK0012 and HUK0035
- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- **To comply with BS EN 179 certification, only lever handles and associated fixings included in the test evidence must be used.**
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR915 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR915-R-60-PB-44	Mortice apartment lock case (60 mm backset, round forend)	PBR	50026422
AR915-R-60-PSS-44	Mortice apartment lock case (60 mm backset, round forend)	PSS	50026410
AR915-R-60-SSS-44	Mortice apartment lock case (60 mm backset, round forend)	SSS	50026409





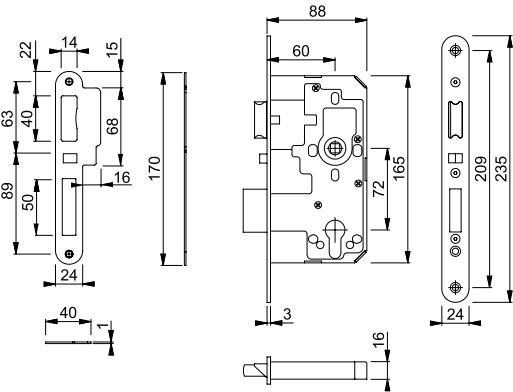
AR915



- ARRONE mortice apartment lock case:
- Function: latchbolt and deadbolt with escape operation
 - Deadbolt projection: 21 mm, single throw
 - Forend/strike material: stainless steel
 - Forend type: single
 - Follower: 8 mm split follower with self locating plate to allow easy reversibility of the escape function. Supplied with AR228A (100 mm) and AR228B (110 mm) spindles for split follower lock.
 - CE Marked: AG0067, ABB010
 - **BS EN 12209:** 3 | X | 8 | 1* | 0 | G | 4 | B | A | 3 | 0
 - **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | B
 - **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | D
 - Certifire approved: CF530, CE DOP: HUK0012 and HUK0035
 - Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
 - **To comply with BS EN 179 certification, only lever handles and associated fixings included in the test evidence must be used.**
 - Meets dimensional recommendations of **BS 8300** and ADM for locks
 - * The AR915 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR915-R-60-SSS-A2-O	Mortice apartment lock case (60 mm backset, round forend)	SSS	89001932





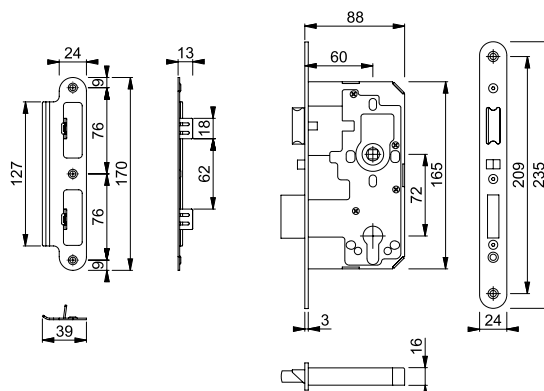
AR915

ARRONE mortice apartment lock case:

- Function: latchbolt and deadbolt with escape operation
- Forend/strike material: stainless steel
- Forend type: single
- Strike type: adjustable
- Follower: 8 mm split follower with self locating plate to allow easy reversibility of the escape function. Supplied with AR228A (100 mm) and AR228B (120 mm) spindles for split follower lock
- CE Marked: AG0067, ABB010
- **BS EN 12209:** 3 | X | 8 | 1* | 0 | G | 4 | B | A | 3 | 0
- **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | B
- **BS EN 179:** 3 | 7 | 6 | B | 1 | 4 | 4 | 1 | A | D
- Certifire approved: CF530, CE DOP: HUK0012 and HUK0035
- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- **To comply with BS EN 179 certification, only lever handles and associated fixings included in the test evidence must be used.**
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR915 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR915/ADJ-OEM-R-60-SSS	Mortice apartment lock case (60 mm backset, round forend)	SSS	50015679





AR916

ARRONE mortice rollerbolt lock case:

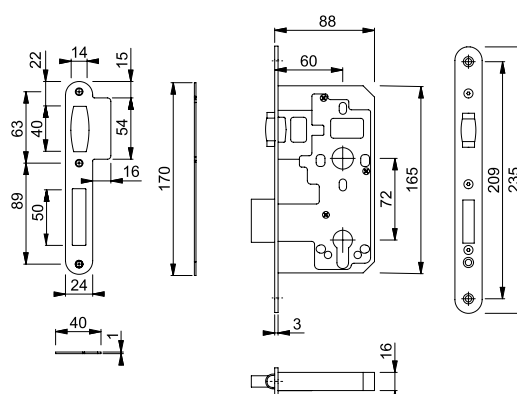
- Function: roller bolt and deadbolt operation
- Deadbolt projection: 21 mm, single throw
- Forend/strike material: stainless steel
- Forend type: single
- CE Marked: AG0247
- Certifire approved: CF530, CE DOP: HUK0013

BS EN 12209: 3 | C | 8 | 1* | 0 | G | 4 | B | A | 0 | 0

- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90, 120 minute timber and 240 minute steel un-latched fire doors.
- * The AR916 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR916-R-60-BLK	Mortice rollerbolt lock case (60 mm backset, round forend)	BLK	50015825
AR916-R-60-SSS	Mortice rollerbolt lock case (60 mm backset, round forend)	SSS	89001317
AR916-R-80-SSS	Mortice rollerbolt lock case (80 mm backset, round forend)	SSS	87117064

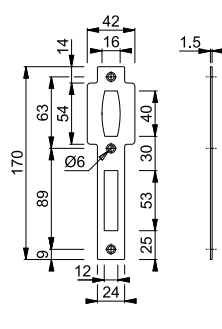


AR916-STR

ARRONE mortice rollerbolt lock strikeplate:

- Suitable for use with AR916 mortice rollerbolt locks
- Double lipped for use with double action doors
- Material: Stainless Steel

Product ref.	Article description	Finish	Article no.
AR916-DLS-S-SSS-A2	Mortice rollerbolt lock strikeplate	SSS	89002009





AR8100

ARRONE mortice sashlock case:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 21 mm, double throw
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0087

BS EN 12209: 3 | M | 8 | 1* | 0 | G | 3 | B | C | 2 | 0

- Certifire approved: CF5022, CE DOP: HUK0030

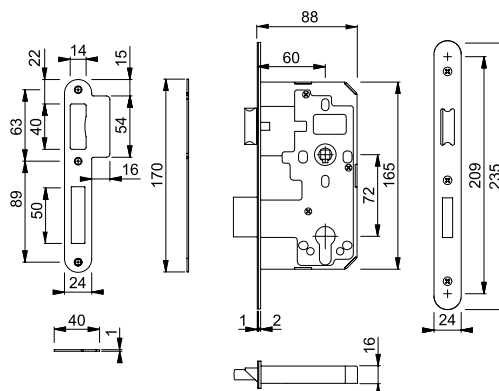
- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.

- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR8100 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



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Product ref.	Article description	Finish	Article no.
AR8100-R-55-SSS	Mortice sashlock case (55 mm backset, round forend)	SSS	89001743
AR8100-R-60-SSS	Mortice sashlock case (60 mm backset, round forend)	SSS	87134294





AR8101

ARRONE mortice latch case:

- Function: latchbolt operation
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0087

BS EN 12209: 3 | M | 8 | 1* | 0 | G | - | B | 0 | 2 | 0

• Certifire approved: CF5022; CE DOP: HUK0032

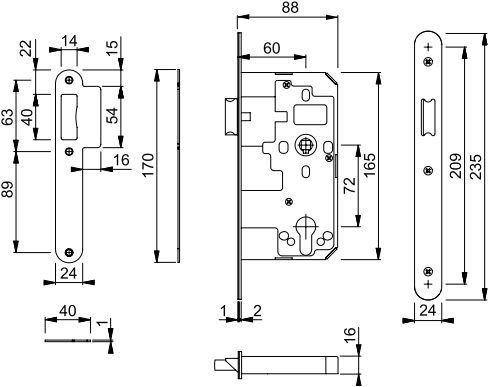
• Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.

• Meets dimensional recommendations of **BS 8300** and ADM for locks

• * The AR8101 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR8101-R-60-SSS	Mortice sashlock case (60 mm backset, round forend)	SSS	87135238





AR8102

ARRONE mortice deadlock case:

- Function: deadbolt operation
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0088

BS EN 12209: 3 | M | 8 | 1* | 0 | G | 3 | B | C | 0 | 0

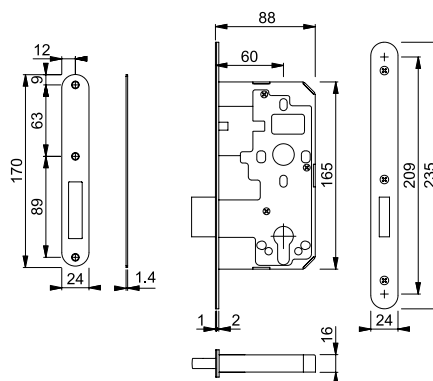
- Certifire approved: CF5022, CE DOP: HUK0031

- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.

- * The AR8102 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR8102-R-60-SSS	Mortice sashlock case (60 mm backset, round forend)	SSS	87134350





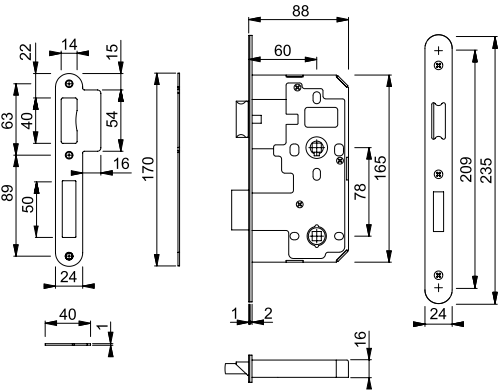
AR8103

ARRONE mortice deadlock case:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 15 mm, single throw
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0087
- **BS EN 12209:** 3 | M | 8 | 1* | 0 | G | - | B | 0 | 2 | 0
- Certifire approved: CF5022, CE DOP: HUK0033
- Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR8103 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR8103-R-55-SSS	Mortice deadlock case (55 mm backset, round forend)	SSS	89001757
AR8103-R-60-SSS	Mortice deadlock case (60 mm backset, round forend)	SSS	87134392





AR8104

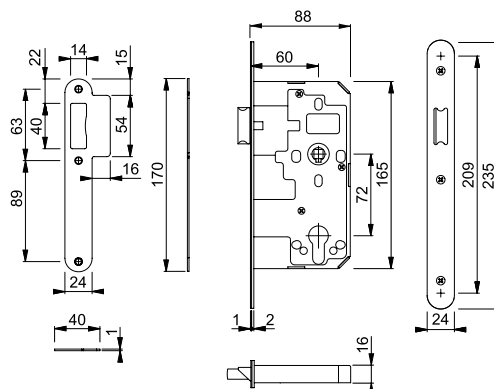
ARRONE mortice nightlatch case::

- Function: latchbolt operation
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0087
- **BS EN 12209**: 3 | M | 8 | 1* | 0 | G | - | B | 0 | 2 | 0
- Certifire approved: CF5022, CE DOP: HUK0034
- Testing: **BS EN 1634-1**. Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.
- Meets dimensional recommendations of **BS 8300** and ADM for locks
- * The AR8104 series lock case has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



4

Product ref.	Article description	Finish	Article no.
AR8104-R-60-SSS	Mortice nightlatch case (60 mm backset, round forend)	SSS	87134434

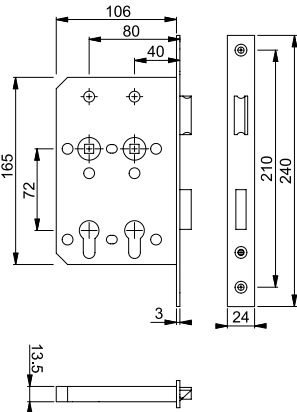




AR9110

- ARRONE Euro profile mortice x-ray sashlock case:
- Function: latch and deadbolt operation with twin backset (40/80 mm)
 - Fixing centres: 72 mm
 - Deadbolt projection: 20 mm, double throw
 - Handing: left
 - Forend/strike material: stainless steel grade 304
 - Forend type: single

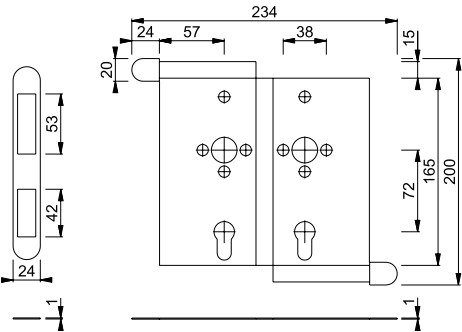
Product ref.	Article description	Finish	Article no.
AR9110-S-40/80-RH-SSS-A2-O	Mortice x-ray sashlock case, right handing	SSS	50010384
AR9110-S-40/80-LH-SSS-A2-O	Mortice x-ray sashlock case, left handing	SSS	50010396



AR/INT-LOCK

- ARRONE intumescent pack:
- Intumescent pack to suit ARRONE 72 mm centres DIN lockcases
 - Thickness: 1 mm
 - Consists of: 1 x lockcase and forend pad, 1 x strikeplate pad
 - Material: monoammonium phosphate (MAP)

Product ref.	Article description		Article no.
AR/INT-DIN-LOCKS-20/60	Intumescent pack		50003495
AR/INT-DIN-LOCKS	Intumescent pack		87134490



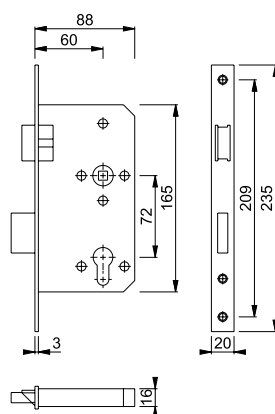


AR710

ARRONE non-rated sashlock:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 20 mm double throw
- Forend/strike material: stainless steel grade 304
- Forend type: single
- Forend shape: square

Product ref.	Article description	Finish	Article no.
AR710-S-60-SSS-A2-O	Non-rated sashlock (60 mm backset)	SSS	50010925



4

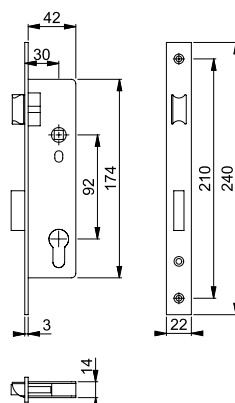


AR5910

ARRONE narrow stile sashlock:

- Function: latchbolt and deadbolt operation
- Deadbolt projection: 16 mm, single throw
- Forend/strike material: stainless steel grade 304
- Forend type: single
- Forend shape: square

Product ref.	Article description	Finish	Article no.
AR5910-S-SSS-A2-O	Narrow stile sashlock (30 mm backset)	SSS	50014407





AR8031

ARRONE mortice bathroom deadbolt:

- Function: deadbolt operation
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0102

BS EN 12209: 2 | X | 8 | 1* | 0 | F | - | B | 0 | 0 | 0

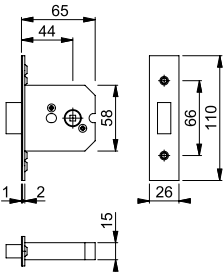
• Certifire approved: CF5768, CE DOP: HUK0053

• Testing: **BS EN 1634-1.** Assessed for use on up to 60 minute timber fire doors.

• * The AR8031 series deadbolt has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR8031-63-SC	Mortice bathroom deadbolt (44 mm backset)	SC	87109139
AR8031-76-SC	Mortice bathroom deadbolt (57 mm backset)	SC	87109141





AR8000

ARRONE mortice latch:

- Function: latchbolt operation
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0094

BS EN 12209: 1 | G | 8 | 1* | 0 | F | - | B | 0 | 2 | 0

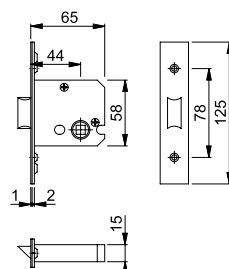
- Certifire approved: CF5768, CE DOP: HUK0037

- Testing: **BS EN 1634-1.** Assessed for use on up to 60 minute timber fire doors.

- * The AR8000 series latch has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR8000-63-SC	Mortice latch (44 mm backset)	SC	87109098
AR8000-76-SC	Mortice latch (57 mm backset)	SC	87109100



4



AR8009

ARRONE mortice latch:

- Function: latchbolt operation
- Forend/strike material: stainless steel
- Forend type: double
- CE Marked: AG0178

BS EN 12209: 2 | H | 8 | 1* | 0 | F | - | B | 0 | NPD | 0

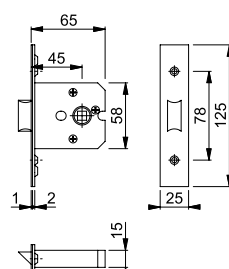
- Certifire approved: CF5768, CE DOP: HUK0043

- Testing: **BS EN 1634-1.** Assessed for use on up to 60 minute timber fire doors.

- * The AR8009 series latch has been successfully fire tested with the use of an intumescent kit. The supply and fitting of this intumescent kit is essential to the products compliance with the fire test and CE marking evidence it has gained. HOPPE takes no responsibility for any locks purchased and fitted without sufficient intumescent protection.



Product ref.	Article description	Finish	Article no.
AR8009-63-SC	Mortice latch (44 mm backset)	SC	87109104
AR8009-76-SC	Mortice latch (57 mm backset)	SC	87109106

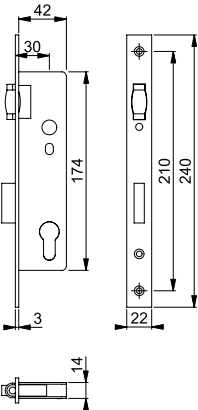




AR5916

- ARRONE narrow stile rollerbolt lock:
- Function: rollerbolt and deadbolt operation
 - Deadbolt projection: 16 mm, single throw
 - Forend/strike material: stainless steel grade 304
 - Forend type: single

Product ref.	Article description	Finish	Article no.
AR5916-30/92-S-SSS-A2-O	Narrow stile rollerbolt lock (30 mm backset)	SSS	50014420

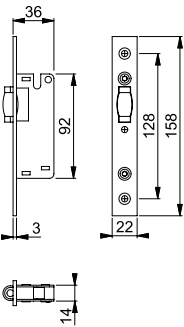


AR755

- ARRONE adjustable roller latch:
- Function: adjustable roller latchbolt 10-3 mm adjustable
 - Forend/strike material: stainless steel grade 304
 - Forend type: removeable
 - Forend shape: square
 - CE Marked: AG10600
 - **BS EN 12209:** 3 | C | 8 | 1 | 0 | G | - | B | 0 | 0 | 0
 - Certifire approved: CF530, CE DOP: HUK0072
 - Testing: **BS EN 1634-1.** Assessed for use on 30, 60, 90 and 120 minute timber fire doors and 240 minute steel fire doors.



Product ref.	Article description	Finish	Article no.
AR755-S-PBR-O	Mortice bathroom deadbolt	PBR	50012666
AR755-S-SSS-A2-O	Mortice bathroom deadbolt	SSS	50012654



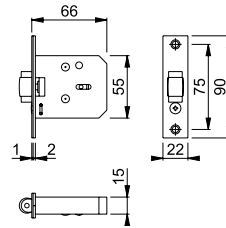


AR750

ARRONE square case mortice rollerbolt:

- Function: roller bolt operation
- Adjustable roller

Product ref.	Article description	Finish	Article no.
AR/M-750-SC	Square case mortice rollerbolt	SC	87102958



4

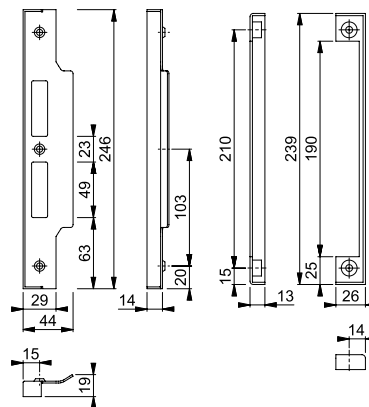


AR910/AR8100-REB

ARRONE rebate set:

- 13 mm rebate set to suit AR900 and AR8100 lockranges
- Suitable for use with all AR900/AR8100 series locks

Product ref.	Article description	Finish	Article no.
AR91/81-24-S-13-SSS	Rebate set	SSS	87107889



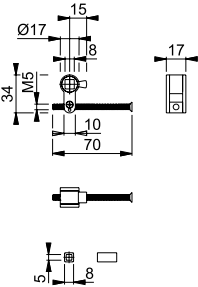


AR-EURO-WC-CKIT

ARRONE keyway conversion kit:

- Follower size: 8 mm
- Material: steel

Product ref.	Article description		Article no.
AR-EURO/WC-CYL-8/5	Keyway conversion kit		50009564



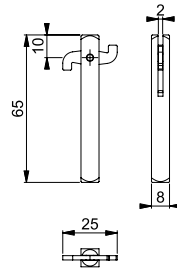


AR228F

ARRONE half spindle:

- Material: steel
- Swivel hook feature with grub screw adjustment for fitting onto AR915-ESC and AR914 lock followers
- Suitable for use on doors up to 44 mm thickness

Product ref.	Article description		Article no.
AR228F-44	Suitable for use on doors up to 44 mm thickness		50001644
AR228F-54	Suitable for use on doors up to 54 mm thickness		50001656







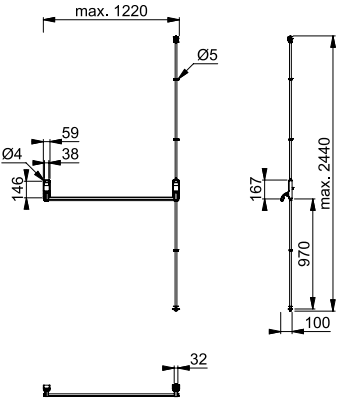


AR880

- ARRONE single panic bolt:
- Maximum door height: 2,440 mm (extra length vertical rods available for doors up to 3,240 mm high)
 - Maximum door width: 1,220 mm
 - Maximum door weight: 200 kg
 - Fixing: timber fixing screws supplied (steel door fixing packs available separately)
 - Supplied with "Push Bar To Open" signage
 - Testing: **BS EN 1125:2008** (Classification 3 | 7 | 6 | B | 1 | 4 | 2 | 2 | A | A), **BS EN 1634-1**. Assessed for use on 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors.
 - CE Marked: AAA005
 - Certifire approved: CF810, CE DOP: HUK0022
 - **Note: In accordance with the scope of EN 1125, doors up to 2,500 mm high and 1,300 mm width are covered by the standard. Doors taller or wider than this will not be covered by the standard and the test evidence gained.**



Product ref.	Article description	Finish	Article no.
AR880-BL	Single panic bolt	BLK	8510577
AR880-GE	Single panic bolt	GE	8510640
AR880-SE	Single panic bolt	SE	8510689
AR880-SSS	Single panic bolt	SSS	8510696





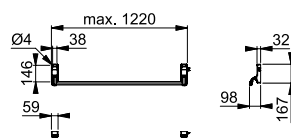
AR882

ARRONE single panic latch:

- Maximum door width: 1,220 mm
- Maximum door weight: 200 kg
- Fixing: timber fixing screws supplied (steel door fixing packs available separately)
- Supplied with "Push Bar To Open" signage
- Testing: **BS EN 1125:2008** (Classification 3 | 7 | 6 | B | 1 | 4 | 2 | 2 | A | A), **BS EN 1634-1**. Assessed for use on 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors.
- CE Marked: AAA005
- Certifire approved: CF810, CE DOP: HUK0022
- **Note: In accordance with the scope of EN 1125, doors up to 1,300 mm width are covered by the standard. Doors wider than this will not be covered by the standard and the test evidence gained.**



Product ref.	Article description	Finish	Article no.
AR882-BL	Single panic latch	BLK	8510843
AR882-GE	Single panic latch	GE	8510892
AR882-SE	Single panic latch	SE	8510934
AR882-SSS	Single panic latch	SNP	8510941



AR882-FP

ARRONE spare fixing pack to suit AR882 panic latch:

- Material: steel
- Suitable for steel doors

Product ref.	Article description		Article no.
AR882-FP/SD	To suit door thickness 10-54 mm		87134588

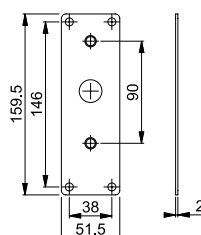


AR882/8806-BP

ARRONE outside access device backing plate:

- Fixing: 2 x M5 x 70 mm machine screws supplied
- Material: zinc alloy
- Allows AR882 panic latches to be used with AR8806 outside access devices

Product ref.	Article description	Article no.
AR8806-FIX-PACK	Outside access device backing plate	50001413





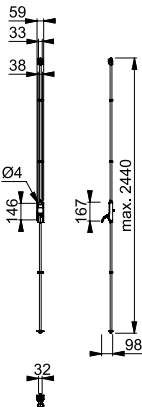
AR884



- ARRONE single push pad panic bolt:
- Maximum door height: 2,200 mm (extra length vertical rods available for doors up to 2,500 mm high)
 - Maximum door weight: 200 kg
 - Suitable for use on doors weighing up to 200kg
 - Fixing: timber fixing screws supplied (steel door fixings and strike plates available separately)
 - Testing: **BS EN 179:2008; BS EN 1634-1**. Assessed for use on 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors.
 - CE Marked: ABB015
 - Certifire approved: CF810; DOP: HUK0023
 - **Note: In accordance with the scope of EN 179, doors up to 2,500 mm high are covered by the standard. Doors taller than this will not be covered by the standard and the test evidence gained.**



Product ref.	Article description	Finish	Article no.
AR884-BL	Single push pad panic bolt	BLK	8511088
AR884-GE	Single push pad panic bolt	GE	8511102
AR884-SE	Single push pad panic bolt	SE	8511130
AR884-SSS	Single push pad panic bolt	SSS	8511137





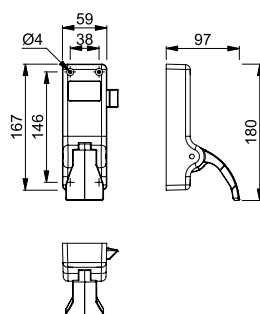
AR883

ARRONE single push pad:

- Maximum door weight: 200 kg
- Fixing: timber fixing screws supplied (steel door fixings and strike plates available separately)
- Supplied with "Push Bar To Open" signage
- Testing: **BS EN 179:2008**; **BS EN 1634-1**. Assessed for use on 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors.
- CE Marked: ABB015
- Certifire approved: CF810, CE DOP: HUK0023



Product ref.	Article description	Finish	Article no.
AR883-BL	Single push pad	BLK	8510962
AR883-GE	Single push pad	GE	8511011
AR883-SE	Single push pad	SE	8511060
AR883-SSS	Single push pad	SSS	8511067





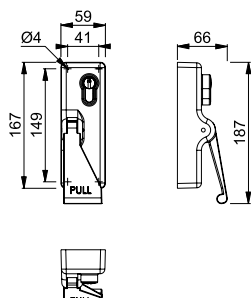
AR885

ARRONE single lift pad outside access device:

- Material: stainless steel
- Fixing: timber fixing screws supplied (steel door fixing packs available separately)
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 minute timber fire doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR885-BL	Single lift pad outside access device	BL	8511144
AR885-GE	Single lift pad outside access device	GE	8511151
AR885-SE	Single lift pad outside access device	SE	8511158



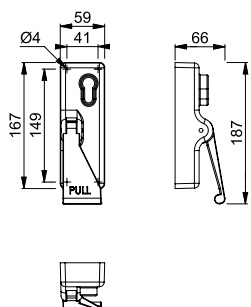
AR886

ARRONE single lift pad outside access device:

- Material: stainless steel
- Fixing: timber fixing screws supplied (steel door fixing packs available separately)
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 minute timber fire doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR886-BL	Single lift pad outside access device	BL	8511165
AR886-GE	Single lift pad outside access device	GE	8511172
AR886-SE	Single lift pad outside access device	SE	8511179





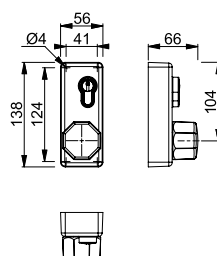
AR885K

ARRONE octagonal knob outside access device:

- Function: lever and key operation
- Material: zinc
- Options: device without cylinder (AR886K)
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 minute timber fire doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR885K-BL	Octagonal knob outside access device	BL	87100225
AR885K-GE	Octagonal knob outside access device	GE	87100224
AR885K-SE	Octagonal knob outside access device	SE	87100223



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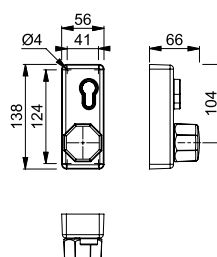
AR886K

ARRONE octagonal knob outside access device:

- Function: lever and key operation
- Material: zinc
- Options: device without cylinder (AR886K)
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 minute timber fire doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR886K-BL	Octagonal knob outside access device	BL	87100228
AR886K-GE	Octagonal knob outside access device	GE	87100227
AR886K-SE	Octagonal knob outside access device	SE	87100226





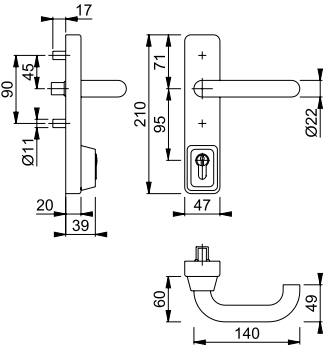
AR8805

ARRONE lever operated outside access device:

- Function: lever and key operation
- Material: stainless steel
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 and 60 minute timber fire doors and 240 minute steel doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR8805-SSS	Lever operated outside access device	SSS	87134063



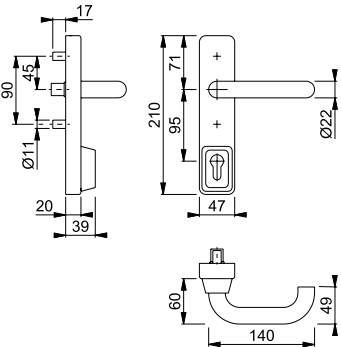
AR8806

ARRONE lever operated outside access device:

- Function: lever and key operation
- Material: stainless steel
- Options: device with cylinder (AR8805)
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 and 60 minute timber fire doors and 240 minute steel doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR8806-SSS	Lever operated outside access device	SSS	87134070





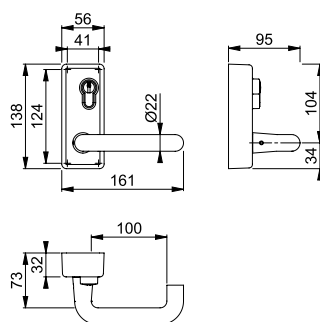
AR885L

ARRONE lever operated outside access device:

- Function: lever and key operation
- Body material: zinc
- Lever material: aluminium
- Maximum door weight: 200 kg
- Options: device without cylinder (AR8806L)
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 and 60 minute timber fire doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR885L-SE	Lever operated outside access device	SE	50015606



5



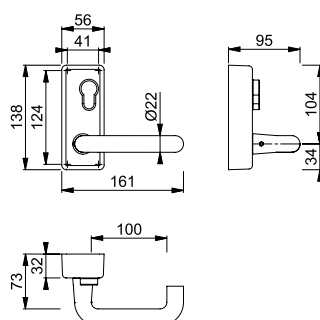
AR886L

ARRONE lever operated outside access device:

- Function: lever and key operation
- Body material: zinc
- Lever material: aluminium
- Maximum door weight: 200 kg
- Options: device without cylinder (AR8806L)
- Testing: included as part of both single and double door sets in accordance with the requirements of **BS EN 1125:2008** and **BS EN 179:2008, BS EN 1634-1**. Assessed for use on 30 and 60 minute timber fire doors.
- Included as an accessory on CE certificate AAA005, ABB015
- Included as an accessory on Certifire certificate CF810 and DOP HUK0022, HUK0023



Product ref.	Article description	Finish	Article no.
AR886L-SE	Lever operated outside access device	SE	50015618



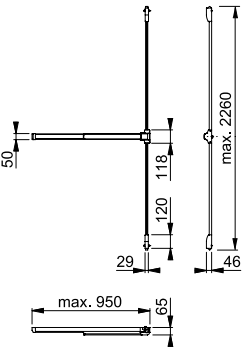


AR8800

- ARRONE touchbar panic bolt- 2 point:
- Maximum door height: 2,200 mm
(extra length vertical rods available for doors up to 2,500 mm high)
 - Total device length: 962 mm
 - Maximum door weight: 200 kg
 - Maximum door width: 1,000 mm
 - Fixing: timber fixing screws supplied
(steel door fixings and strike plates available separately)
 - Supplied with "Push Bar To Open" signage
 - Testing: **BS EN 1125:2008** (Classification 3 | 7 | 6 | B | 1 | 3 | 2 | 2 | B | A),
BS EN 1634-1. Assessed for use on 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors.
 - CE Marked: AAA5002
 - Certifire approved: CF5180, CE DOP: HUK0036
 - **Note: In accordance with the scope of EN 1125, doors up to 2,500 mm high and 1,300 mm width are covered by the standard. Doors taller or wider than this will not be covered by the standard and the test evidence gained.**



Product ref.	Article description	Finish	Article no.
AR8800-2-SE	Touchbar panic bolt- 2 point	SE	87134021
AR8800-2-SSS	Touchbar panic bolt- 2 point	SSS	87134028





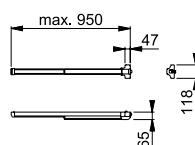
AR8802

ARRONE touchbar single panic latch:

- Total device length: 950 mm
- Maximum door weight: 200 kg
- Maximum door width: 1,200 mm
- Fixing: timber fixing screws supplied (steel door fixings and strike plates available separately)
- Supplied with "Push Bar To Open" signage
- Testing: **BS EN 1125:2008** (Classification 3 | 7 | 6 | B | 1 | 3 | 2 | 2 | B | A), **BS EN 1634-1**. Assessed for use on 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors.
- CE Marked: AAA5002
- Certifire approved: CF5180, CE DOP: HUK0036
- **Note: In accordance with the scope of EN 1125, doors up to 1,300 mm width are covered by the standard. Doors wider than this will not be covered by the standard and the test evidence gained.**



Product ref.	Article description	Finish	Article no.
AR8802-SE	Touchbar single panic latch	SE	87134007
AR8802-SSS	Touchbar single panic latch	SSS	87134014





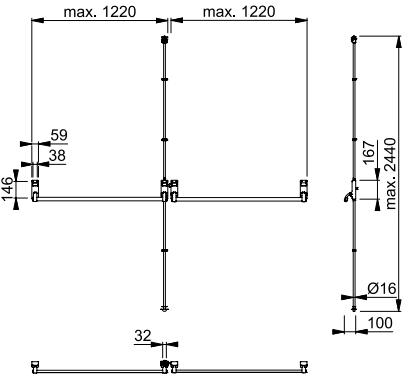
AR888

ARRONE combination unit for double rebated doors:

- Maximum door height: 2,440 mm
- Maximum door width: 1,220 mm
- Maximum door weight: 200 kg
- Fixing: timber fixing screws supplied (steel door fixing packs available separately)
- Supplied with "Push Bar To Open" signage
- Testing: **BS EN 1125:2008** (Classification 3 | 7 | 6 | B | 1 | 4 | 2 | 2 | A | A), **BS EN 1634-1**. Assessed for use on 30, 60 and 120 minute timber fire doors and 240 minute steel fire doors.
- CE Marked: AAA005
- Certifire approved: CF810, CE DOP: HUK0022



Product ref.	Article description	Finish	Article no.
AR888-BL	Spare fixing pack to suit AR888 double rebated combination unit	BL	8545577
AR888-GE	Spare fixing pack to suit AR888 double rebated combination unit	GE	8545570
AR888-SE	Spare fixing pack to suit AR888 double rebated combination unit	SE	8545563
AR888-SSS	Spare fixing pack to suit AR888 double rebated combination unit	SSS	8563784

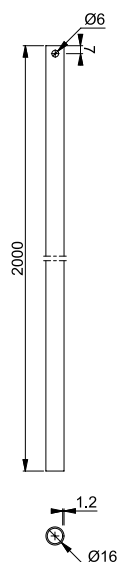


AR880-ELTS

ARRONE extended top shoot:

- Material: steel
- Suitability: for use with AR880, AR884, AR888 series panic hardware

Product ref.	Article description	Finish	Article no.
AR880-ELTS-SE	2 m extended top bar silver	SE	8510619



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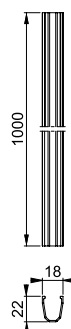
AR8800-RC

ARRONE touchbar panic hardware accessories:

- Material: aluminium
- Sold as 1,100 mm lengths

Product ref.	Article description	Finish	Article no.
AR-8800-RC-SE	Rod cover – pair t/s touchbar	SE	87138752
AR-8800-RC-SSS	Rod cover – pair t/s touchbar	SNP	87138738

AR8800-EXT-ROD		ZNP	50010530
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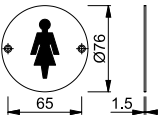


AR903

ARRONE stainless steel information sign:

- With pictogram
- Fixing: visible, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR903F-SSS-A1	Information sign	SSS	8511340

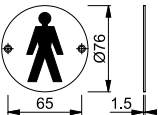


AR903

ARRONE stainless steel information sign:

- With pictogram
- Fixing: visible, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR903M-SSS-A1	Information sign	SSS	8511368

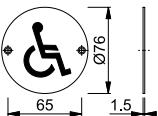


AR903

ARRONE stainless steel information sign:

- With pictogram
- Fixing: visible, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR903D-SSS-A1	Information sign	SSS	8511312



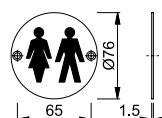


AR903U

ARRONE stainless steel information sign:

- With pictogram
- Fixing: visible, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR903U-SSS-A1	Information sign	SSS	87100985

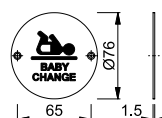


AR913S

ARRONE stainless steel information sign:

- With lettering and pictogram
- Fixing: visible, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR913-SIGN-SSS-A2	Information sign	SSS	87105708

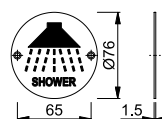


AR911S

ARRONE stainless steel information sign:

- With lettering and pictogram
- Fixing: visible, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR911-SIGN-SSS-A2	Information sign	SSS	87105704

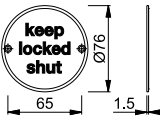




AR900

- ARRONE stainless steel information sign:
- With lettering
 - Fixing: visible, multi-purpose screws

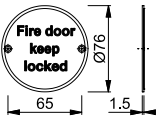
Product ref.	Article description	Finish	Article no.
AR900-SSS	Information sign	SSS	8511221



AR901

- ARRONE stainless steel information sign:
- With lettering
 - Fixing: visible, multi-purpose screws

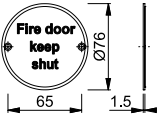
Product ref.	Article description	Finish	Article no.
AR901-SSS-A1	Information sign	SSS	8511249



AR902

- ARRONE stainless steel information sign:
- With lettering
 - Fixing: visible, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR902-SSS-A1	Information sign	SSS	8511284





AR539

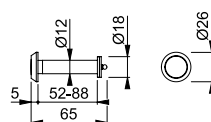
ARRONE door viewer:

- Material: brass
- Fixing: morticed

Product ref.	Article description	Finish	Article no.
AR539-PB	Door viewer – 160°, door thickness 90-110	PBR	50023792
AR539-PC	Door viewer – 160°, door thickness 90-110	PCH	50023779

AR539D-PC	Door viewer – 176°, door thickness 37-64	PCH	50010967
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AR539C-BLK	Door viewer – 180°, door thickness 35-50	BLK	50024516
AR539E-BLK	Door viewer – 180°, door thickness 51-80	BLK	50024528
AR539-PC	Door viewer – 180°, door thickness 35-60	PCH	87107689



6



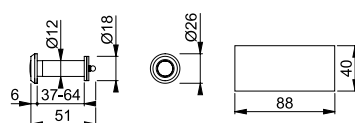
AR539FR

ARRONE door viewer:

- Material: brass
- Fixing: morticed
- Testing: Included in a successful fire test to **BS EN 1634-1**.
Assessed for use on 30 and 60 minute timber fire doors.



Product ref.	Article description	Finish	Article no.
AR539D-FR-PC	Door viewer – 176° door thickness 37-64	PCH	50010980
AR539E-FR-PC	Door viewer – 200° door thickness 52-88	PCH	50011017

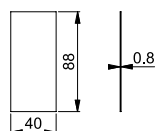


AR/INT-VIEW

ARRONE intumescent pack:

- Intumescent pack for 37 mm x 88 mm door viewers
- Function: fire door protection for ARRONE door viewers
- Consists of: 1 x sheet (For 1 door viewer)
- Material: graphite

Product ref.	Article description		Article no.
AR/INT-539	Fire door protection for ARRONE door viewers		50010992

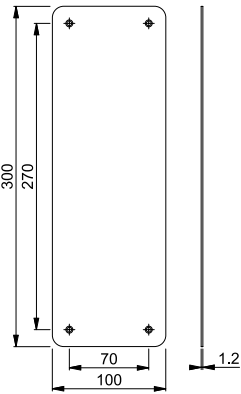




AR324

- ARRONE finger plate:
- Material: stainless steel grade 304
 - Fixing: drilled and countersunk supplied with wood screws
 - Corner: radius

Product ref.	Article description	Finish	Article no.
AR324D-SSS-A2	Finger plate	SSS	89001352
AR324E-SSS-A2-Q	Finger plate	SSS	50002958
AR324C-R-SSS	Finger plate	SSS	50014924
AR324A-SSS	Finger plate	SSS	87108568
AR324F-SSS	Finger plate	SSS	50014936





E487

HOPPE stainless steel wall fix door stop:

- With attached rubber buffer
- Fixing: concealed, multi-purpose screw and plastic dowel

Product ref.	Article description	Finish	Article no.
E487	Wall fix door stop	F69	606511



AR334

ARRONE stainless steel wall fix door stop:

- With attached rubber buffer
- Fixing: concealed, multi-purpose screw

Product ref.	Article description	Finish	Article no.
AR334B-SSS-A2	Wall fix door stop	SSS	8506342



6

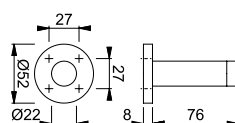


AR934

ARRONE stainless steel wall fix door stop on rose:

- With attached rubber buffer
- Fixing: concealed, multi-purpose screws

Product ref.	Article description	Finish	Article no.
AR934A-SSS-A2	Wall fix door stop on rose	SSS	89001806





AR334

- ARRONE stainless steel floor fix door stop:
- With rubber buffer ring
 - Fixing: concealed, hanger bolt and plastic dowel

Product ref.	Article description	Finish	Article no.
AR334F-SSS-A2	Floor fix door stop	SSS	87104404



AR934

- ARRONE stainless steel floor fix door stop:
- With rubber buffer ring
 - Fixing: concealed, hanger bolt and plastic dowel

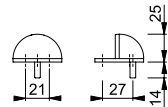
Product ref.	Article description	Finish	Article no.
AR934H-SSS-A2	Floor fix door stop	SSS	50013002



AR934

- ARRONE stainless steel floor fix door stop:
- With one-sided rubber buffer
 - Fixing: visible, multi-purpose screw and plastic dowel

Product ref.	Article description	Finish	Article no.
AR934E-SSS-A2	Floor fix door stop	SSS	89001799



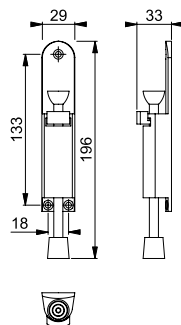


AR429

ARRONE foot operated door holder:

- Material: zinc alloy
- Door mounted with buffer
- Fixing: timber screws

Product ref.	Article description	Finish	Article no.
AR429-SNP-O	Foot operated door holder	SNP	50014335

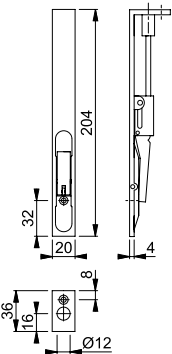




AR326

- ARRONE flush bolt:
- Material: stainless steel
 - Function: lever action
 - Fixing: timber door screws
 - Testing: included in a successful fire test to **BS 476-22** for 30 and 60 minutes timber doors

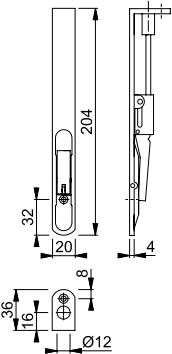
Product ref.	Article description	Finish	Article no.
AR326B-200-S-SSS	Flush bolt, corner square, single	SSS	89001813
AR326B-200-R-SSS	Flush bolt, corner radius, single	SSS	87134462



AR326

- ARRONE flush bolt:
- Material: stainless steel
 - Function: lever action
 - Fixing: timber door screws

Product ref.	Article description	Finish	Article no.
AR326B-200-S-BLK	Flush bolt, corner square, pair	BLK	50031193
AR326B-200-R-BLK	Flush bolt, corner radius, pair	BLK	50031181
AR326B-S-SSS-A4	Flush bolt, corner square, single	SSS	8569237



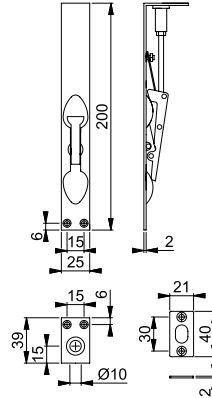


AR926

ARRONE flush bolt:

- Material: stainless steel
- Function: lever action
- Fixing: timber door screws

Product ref.	Article description	Finish	Article no.
AR926C-PVD/PBR-A2	Flush bolt, corner radius	PBR	50000767

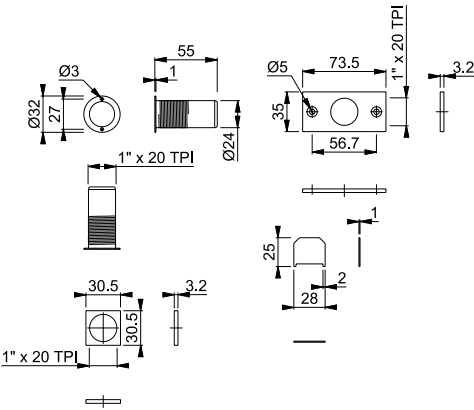




AR9336

- ARRONE dust excluding socket:
- Material: brass
 - Fixing: floor mounted

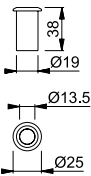
Product ref.	Article description	Finish	Article no.
AR9336-619-SNP	Dust excluding socket	SNP	50009084



AR336-EDS

- ARRONE dust excluding socket:
- Material: stainless steel
 - Fixing: floor mounted

Product ref.	Article description	Finish	Article no.
AR336-SSS	Dust excluding socket	SSS	87109998



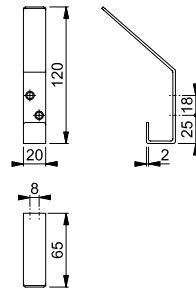


AR317

ARRONE hat and coat hook:

- Strip pattern hat and coat hook

Product ref.	Article description	Finish	Article no.
AR317-SSS-A2	Hat and coat hook	SSS	8506013

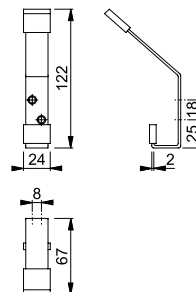


AR318

ARRONE hat and coat hook:

- Buffered hat and coat hook

Product ref.	Article description	Finish	Article no.
AR318-SSS-A2	Hat and coat hook	SSS	8506027

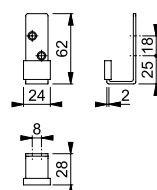


AR319

ARRONE wardrobe hook:

- Wardrobe hook

Product ref.	Article description	Finish	Article no.
AR319-SSS-A2	Wardrobe hook	SSS	8506041



Hook and Flush Pulls

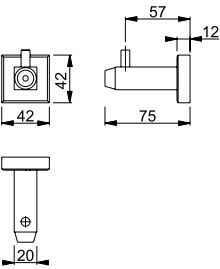


AR322

ARRONE heavy duty hat and coat hook:

- Material: stainless steel grade 304
- Neoprene buffer
- Concealed fixing
- Supplied with 70 mm cylinder retainer screw

Product ref.	Article description	Finish	Article no.
AR322-SSS-A2-O	Heavy duty hat and coat hook	SSS	50009692

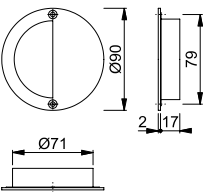


AR323

ARRONE flush pull:

- Circular flush pull

Product ref.	Article description	Finish	Article no.
AR323A-SSS-A2	Flush pull	SSS	87104398

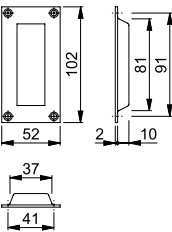


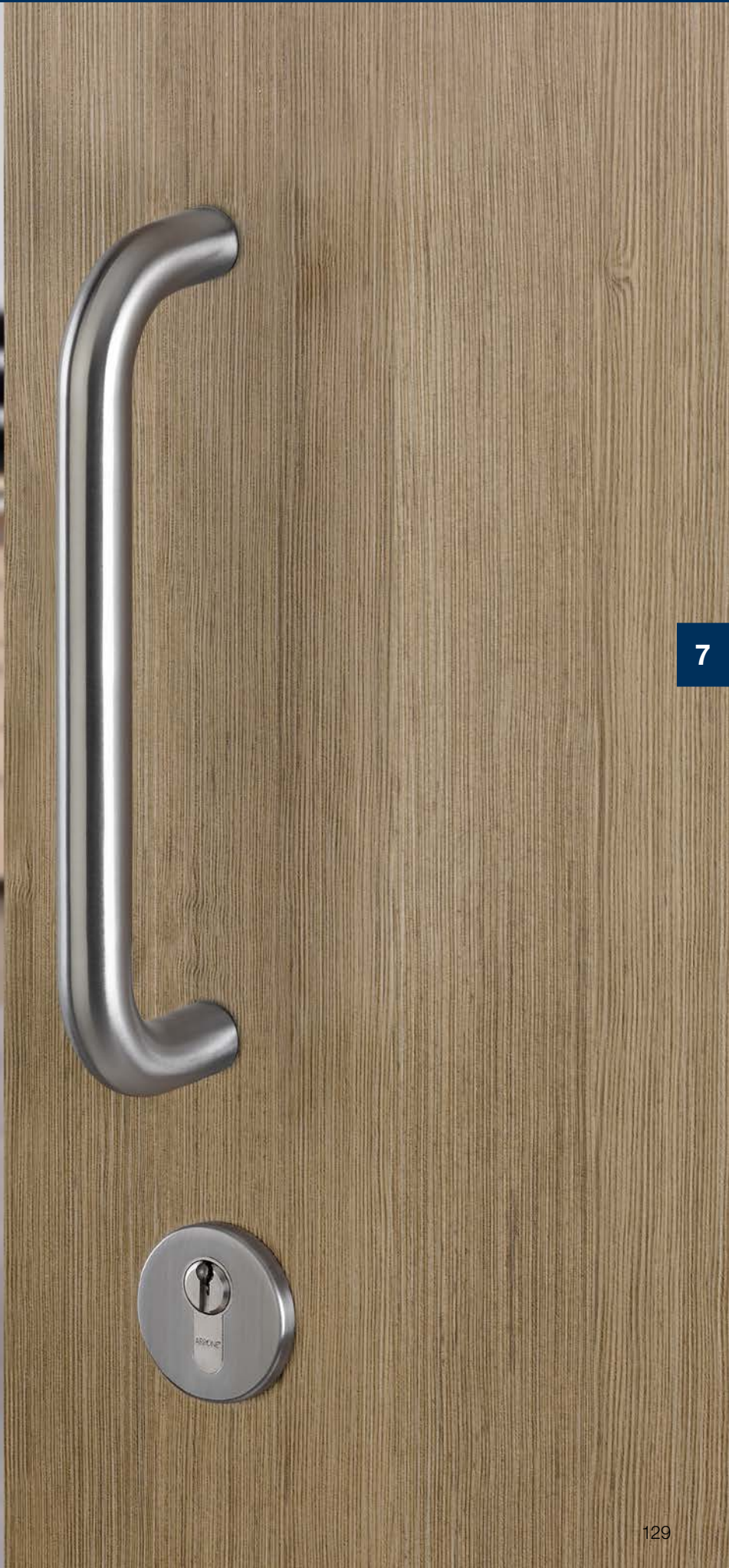
AR323

ARRONE flush pull:

- Rectangular flush pull

Product ref.	Article description	Finish	Article no.
AR323B-SSS-A2	Flush pull	SSS	87104400



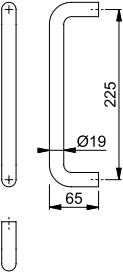




AR403

- ARRONE stainless steel pull D handle:
- Material: stainless steel grade 304
 - Fixing: bolt through
 - Bolt type: M8 (suitable for timber doors with max. 54 mm thickness)
 - Satisfies the dimensional recommendations contained within **BS 8300:2009** for pull handles

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR403/225BF-PB-PVD	Straight pull handle, single	19	225	PVD	8506573
AR403/300BF-PB-PVD	Straight pull handle, single	19	300	PVD	8506580
AR403/425BF-PB-PVD	Straight pull handle, single	19	425	PVD	87106084
AR403/600BF-PB-PVD	Straight pull handle, single	19	600	PVD	87106085

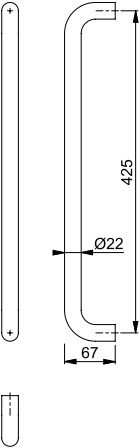


AR3616

- ARRONE stainless steel straight pull handle:
- Material: stainless steel grade 316
 - Fixing: bolt through
 - To suit door thickness: 37-57 mm

316

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR3616/22/425BF-SSS	Straight pull handle, single	22	425	SSS	87104522





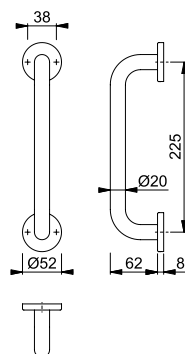
AR3616

ARRONE stainless steel straight pull handle with roses (exterior side):

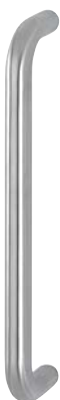
- Material: stainless steel grade 316
- Fixing: concealed, pull handle fixing system no. BS14

316

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR3616/225CF-8-SSS	Straight pull handle, single	20	225	SSS	87100930



7



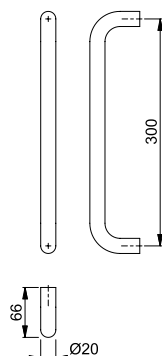
AR3616

ARRONE stainless steel straight pull handle:

- Material: stainless steel grade 316
- Fixing: back to back fixed
- To suit door thickness: 37-57 mm

316

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR3616/225BB-SSS	Straight pull handle, pair	20	225	SSS	87100924
AR3616/300BB-SSS	Straight pull handle, pair	20	300	SSS	87100926
AR3616/425BB-SSS	Straight pull handle, pair	20	425	SSS	87104516
AR3616/600BB-SSS	Straight pull handle, pair	20	600	SSS	87104520



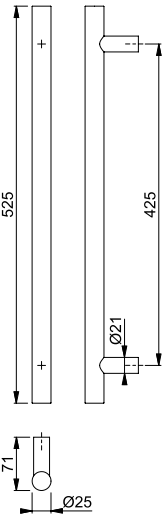


AR3625

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: back to back type M8 machine screw
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3625/425BB-SSS	Straight pull handle for timber doors, pair	25	425 545	SSS	87109056
AR3625/1000BB-SSS	Straight pull handle for timber doors, pair	25	1000 1000	SSS	87109058

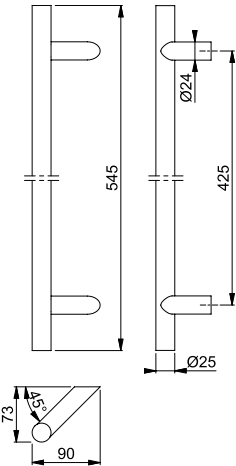


AR3625CR

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: back to back type M8 machine screw
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3625/425BB-CR-WD-SSS	Straight pull handle for timber doors, pair	25	425 545	SSS	87141853
AR3625/600BB-CR-WD-SSS	Straight pull handle for timber doors, pair	25	600 720	SSS	87141867
AR3625/1000BB-CR-WD-SSS	Straight pull handle for timber doors, pair	25	1000 1100	SSS	87141881
AR3625/1200BB-CR-WD-SSS	Straight pull handle for timber doors, pair	25	1200 1400	SSS	87141895





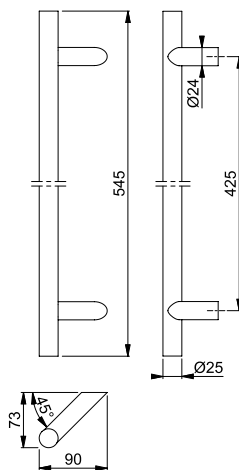
AR3625CR

ARRONE front entrance pull handle:

- Material: stainless steel grade 316
- Fixing: back to back type M8 machine screw
- To suit door thickness: 10-12 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3625/425BB-CR-GD-SSS	Straight pull handle for glass doors, pair	25	425 545	SSS	87141860
AR3625/600BB-CR-GD-SSS	Straight pull handle for glass doors, pair	25	600 720	SSS	87141874
AR3625/1000BB-CR-GD-SSS	Straight pull handle for glass doors, pair	25	1000 1100	SSS	87141888
AR3625/1200BB-CR-GD-SSS	Straight pull handle for glass doors, pair	25	1200 1400	SSS	87141902



7

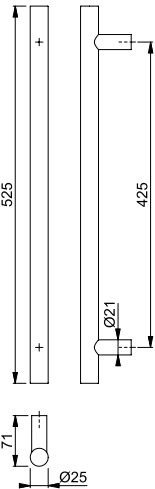


AR3625

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: bolt trough
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3625/425BF-SSS	Straight pull handle for timber doors, single	25	425 545	SSS	87109053
AR3625/600BF-SSS	Straight pull handle for timber doors, single	25	600 720	SSS	87109054
AR3625/1000BF-SSS	Straight pull handle for timber doors, single	25	100 1100	SSS	87109055

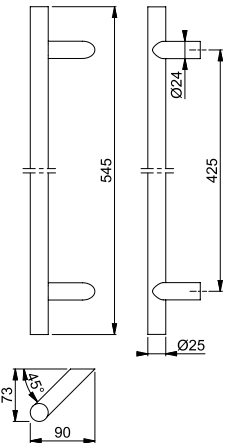


AR3625CR

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: bolt trough
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3625/425BF-CR-WD-SSS	Straight pull handle for timber doors, single	25	425 545	SSS	87141909
AR3625/600BF-CR-WD-SSS	Straight pull handle for timber doors, single	25	600 720	SSS	87141923
AR3625/1000BF-CR-WD-SSS	Straight pull handle for timber doors, single	25	1000 1100	SSS	87141937
AR3625/1200BF-CR-WD-SSS	Straight pull handle for timber doors, single	25	1200 1400	SSS	87141951



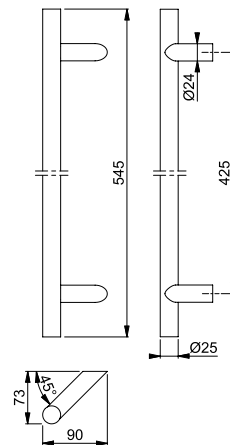
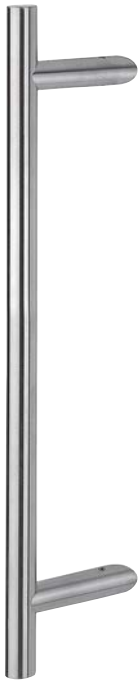
AR3625CR

ARRONE front entrance pull handle:

- Material: stainless steel grade 316
- Fixing: bolt trough
- To suit door thickness: 10-12 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3625/425BF-CR-GD-SSS	Straight pull handle for glass doors, pair	25	425 545	SSS	87141916
AR3625/600BF-CR-GD-SSS	Straight pull handle for glass doors, pair	25	600 720	SSS	87141930
AR3625/1000BF-CR-GD-SSS	Straight pull handle for glass doors, pair	25	1000 1100	SSS	87141944
AR3625/1200BF-CR-GD-SSS	Straight pull handle for glass doors, pair	25	1200 1400	SSS	87141958



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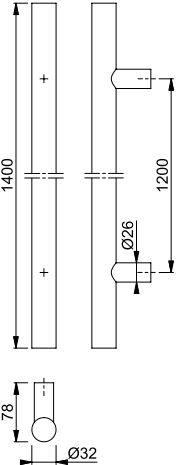


AR3626

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: back to back type M8 machine screw
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3626/1200BB-SSS	Straight pull handle for timber doors, pair	32	1400 1200	SSS	87109064

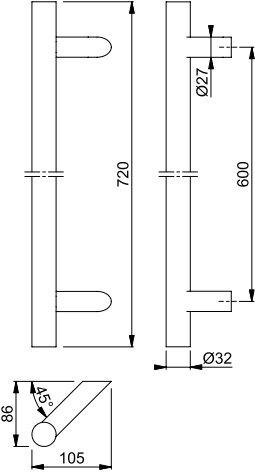


AR3626CR

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: back to back type M8 machine screw
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3626/600-BB-CR-WD-SSS	Straight pull handle for timber doors, pair	32	720 600	SSS	87141965
AR3626/600-BB-CR-WD-SSS	Straight pull handle for timber doors, pair	32	1400 1200	SSS	87141993





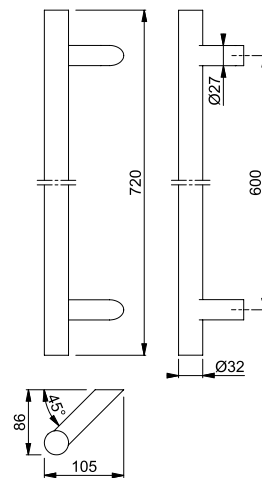
AR3626CR

ARRONE front entrance pull handle:

- Material: stainless steel grade 316
- Fixing: back to back type M8 machine screw
- To suit door thickness: 10-12 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3626/600BB-CR-GD-SSS	Straight pull handle for glass doors, pair	32	720 600	SSS	87141972
AR3626/1200BB-CR-GD-SSS	Straight pull handle for glass doors, pair	32	1400 1200	SSS	87142000



7

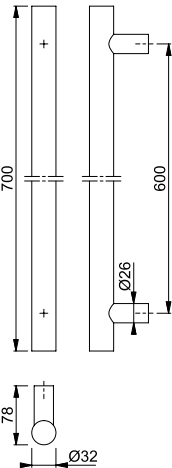


AR3626

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: bolt trough
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3626/600BF-SSS	Straight pull handle for timber doors, single	32	700 600	SSS	87109060
AR3626/1200BF-SSS	Straight pull handle for timber doors, single	32	1400 1200	SSS	87109061

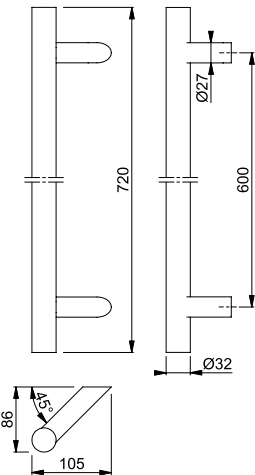


AR3626CR

- ARRONE front entrance pull handle:
- Material: stainless steel grade 316
 - Fixing: bolt trough
 - To suit door thickness: 44-54 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3626/600BF-CR-WD-SSS	Straight pull handle for timber doors, single	32	720 600	SSS	87142007
AR3626/1200BF-CR-WD-SSS	Straight pull handle for timber doors, single	32	1400 1200	SSS	87142021





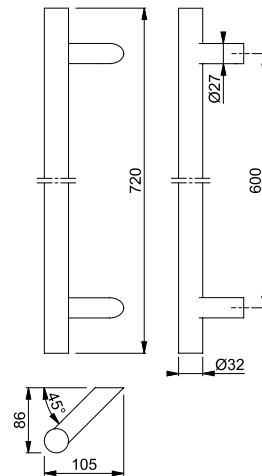
AR3626CR

ARRONE front entrance pull handle:

- Material: stainless steel grade 316
- Fixing: bolt trough
- To suit door thickness: 10-12 mm

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR3626/600BF-CR-GD-SSS	Straight pull handle for glass doors, single	32	720 600	SSS	87142014
AR3626/1200BF-CR-GD-SSS	Straight pull handle for glass doors, single	32	1400 1200	SSS	87142028



7

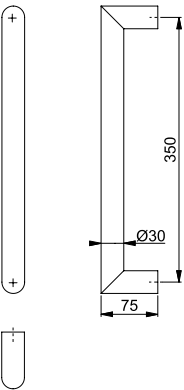


AR6214

- ARRONE stainless steel straight pull handle, mitred angles:
- Material: stainless steel grade 316
 - Fixing: concealed, for pull handle fixing systems AR6210 or AR6211
 - Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

316

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR6214-350-SSS	Straight pull handle, single	30	350	SSS	50027190
AR6214-600-SSS	Straight pull handle, single	30	600	SSS	50027207
AR6214-800-SSS	Straight pull handle, single	30	800	SSS	50027219
AR6214-1000-SSS	Straight pull handle, single	30	1000	SSS	50027220



Fixing systems see page 149.

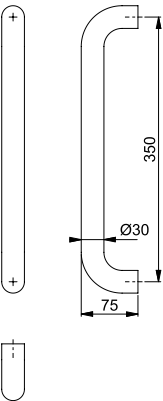


AR6216

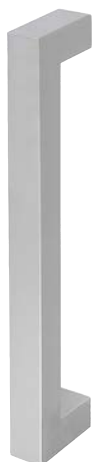
- ARRONE stainless steel straight pull handle:
- Material: stainless steel grade 316
 - Fixing: to suit secret/back to back fixing kits
 - Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

316

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR6216-350-SSS	Straight pull handle, single	30	350	SSS	50027177
AR6216-600-SSS	Straight pull handle, single	30	600	SSS	50027189



Fixing systems see page 149.



AR6218

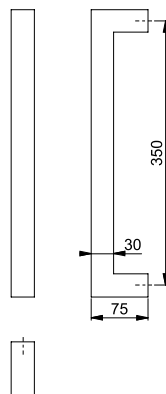
ARRONE stainless steel straight angular pull handle, mitred angles:

- Material: stainless steel grade 316
- Fixing: concealed, for pull handle fixing systems AR6210 or AR6211
- Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

316

Product ref.	Article description		Distance	Finish	Article no.
AR6218-350-SSS	Straight angular pull handle, single	30	350	SSS	50027232
AR6218-600-SSS	Straight angular pull handle, single	30	600	SSS	50027256
AR6218-800-SSS	Straight angular pull handle, single	30	800	SSS	50027268
AR6218-1000-SSS	Straight angular pull handle, single	30	1000	SSS	50027275

Fixing systems see page 149.





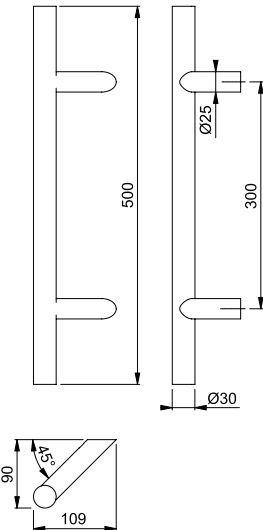
AR6219

- ARRONE stainless steel bar-shaped pull handle:
- Material: stainless steel grade 316
 - Supports: round, inclined at an angle of 45°
 - Fixing: concealed, for pull handle fixing systems AR6210-CR or AR6211-CR
 - Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR6219-300-SSS	Bar-shaped pull handle, single	30	500 300	SSS	50030334
AR6219-400-SSS	Bar-shaped pull handle, single	30	600 400	SSS	50030346
AR6219-560-SSS	Bar-shaped pull handle, single	30	800 560	SSS	50030358
AR6219-700-SSS	Bar-shaped pull handle, single	30	1000 700	SSS	50030365
AR6219-900-SSS	Bar-shaped pull handle, single	30	1200 900	SSS	50030371
AR6219-1200-SSS	Bar-shaped pull handle, single	30	1600 1200	SSS	50030383

Fixing systems see page 149.





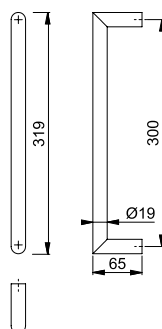
AR9214

ARRONE stainless steel straight pull handle, mitred angles:

- Material: stainless steel grade 316
- Fixing: concealed, for pull handle fixing systems AR9210-FP or AR9211-FP
- Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

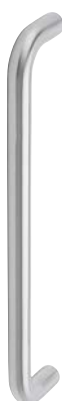
316

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR9214-150-SSS	Straight pull handle, single	19	150	SSS	50025429
AR9214-200-SSS	Straight pull handle, single	19	200	SSS	50025430
AR9214-250-SSS	Straight pull handle, single	19	250	SSS	50029065
AR9214-300-SSS	Straight pull handle, single	19	300	SSS	50025442
AR9214-400-SSS	Straight pull handle, single	19	400	SSS	50025454
AR9214-500-SSS	Straight pull handle, single	19	500	SSS	50025466
AR9214-600-SSS	Straight pull handle, single	19	600	SSS	50025478



Fixing systems see page 150.

7



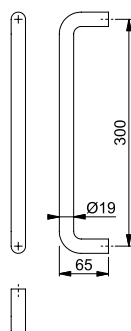
AR9216

ARRONE stainless steel straight pull handle, mitred angles:

- Material: stainless steel grade 316
- Fixing: concealed, for pull handle fixing systems AR9210-FP or AR9211-FP
- Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

316

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR9216-150-SSS	Straight pull handle, single	19	150	SSS	50025375
AR9216-200-SSS	Straight pull handle, single	19	200	SSS	50025387
AR9216-250-SSS	Straight pull handle, single	19	250	SSS	50029058
AR9216-300-SSS	Straight pull handle, single	19	300	SSS	50025399
AR9216-400-SSS	Straight pull handle, single	19	400	SSS	50025405
AR9216-500-SSS	Straight pull handle, single	19	500	SSS	50025570
AR9216-600-SSS	Straight pull handle, single	19	600	SSS	50025417



Fixing systems see page 150.



AR9217

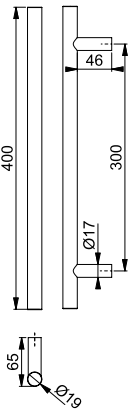
ARRONE stainless steel bar-shaped pull handle:

- Material: stainless steel grade 316
- Supports: round, straight
- Fixing: concealed, for pull handle fixing systems AR9210-FP or AR9211-FP
- Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

316

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR9217-150-SSS	Straight pull handle, single	19	200 150	SSS	50025485
AR9217-200-SSS	Straight pull handle, single	19	300 200	SSS	50025491
AR9217-300-SSS	Straight pull handle, single	19	400 300	SSS	50025508
AR9217-400-SSS	Straight pull handle, single	19	500 400	SSS	50025515
AR9217-500-SSS	Straight pull handle, single	19	600 500	SSS	50025582
AR9217-600-SSS	Straight pull handle, single	19	700 600	SSS	50025521

Fixing systems see page 150.



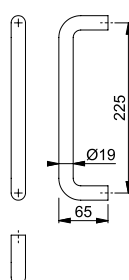


AR9616

ARRONE stainless steel pull D handle:

- Material: stainless steel grade 304
- Fixing: bolt through type M8 machine screw
- To suit door thickness: 35-54 mm
- Satisfies the dimensional recommendations contained within **BS 8300** for pull handles

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR9616/225BF-SSS	Straight pull handle, single	19	225	SSS	87109380
AR9616/300BF-SSS	Straight pull handle, single	19	300	SSS	87109381
AR9616/425BF-SSS	Straight pull handle, single	19	425	SSS	87109382
AR9616/600BF-SSS	Straight pull handle, single	19	600	SSS	50009436



7

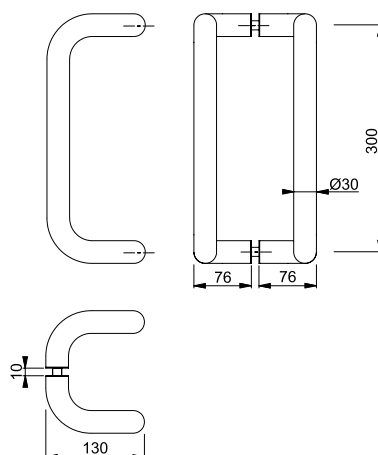


AR9616CR

ARRONE cranked pull handle:

- Material: stainless steel grade 304
- Fixing: bolt through type M8 machine screw
- To suit door thickness: 35-54 mm

Product ref.	Article description	Ø	Distance	Finish	Article no.
AR9616/30/300BB-CR-SSS-A2	Cranked pull handle, pair	30	300	SSS	50016763



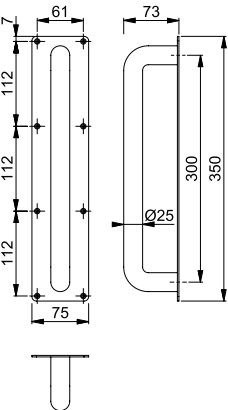


AR9625/BP

- ARRONE pull handle on plate:
- Material: stainless steel grade 316
 - Fixing: face
 - To suit door thickness: 44-55 mm

316

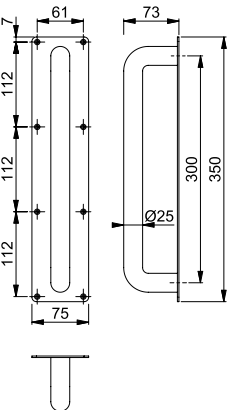
Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR9625/324C-SSS-A4	Pull handle on plate, single	25	350 300	SSS	50021266



AR9625/BP

- ARRONE pull handle on plate:
- Material: stainless steel grade 304
 - Fixing: face
 - To suit door thickness: 44-55 mm

Product ref.	Article description	Ø	Length	Finish	Article no.
			Distance		
AR9625/324C-SSS-A2	Pull handle on plate, single	25	350 300	SSS	50021254



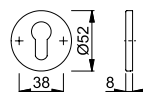


AR961-ESC

ARRONE escutcheon:

- Material: stainless steel grade 304
- Function: escutcheon pair for residential/commercial applications
- Keyhole: Euro profile escutcheon 6 mm
- Fixing: 4x20 mm screws

Product ref.	Article description			Finish	Article no.
AR961/27-SSS-O	Escutcheon			SSS	50014730



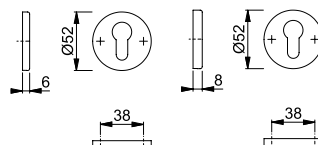
EX42S

HOPPE stainless steel escutcheon pair for interior doors:

- Material: stainless steel grade 316
- Fixing: concealed, multi-purpose screws

316

Article description		Finish	Article no.
Escutcheon 6 mm height		F69	87100948
Escutcheon 8 mm height		F69	87100942

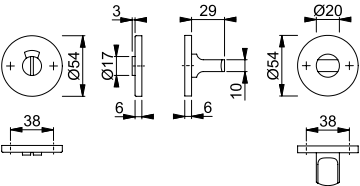




AR961-ESC

- ARRONE bathroom turn and indicator set:
- Material: stainless steel grade 304
 - Function: bathroom turn set for public/commercial applications
 - Base: stainless steel, zinc plated
 - Fixing: wood screw and bolt through fixings with 5 mm bathroom spindle

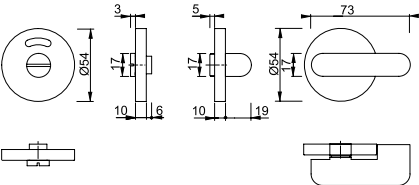
Product ref.	Article description		Finish	Article no.
AR961/79-SSS	Bathroom turn and indicator set 5x95 mm, dth. 40-65 mm		SSS	50011492



AR961-ESC

- ARRONE bathroom turn and indicator set:
- Material: stainless steel grade 304
 - Function: bathroom turn set for public/commercial applications
 - Base: stainless steel, zinc plated
 - Fixing: wood screw and bolt through fixings with 8 mm bathroom spindle

Product ref.	Article description		Finish	Article no.
AR961/29D-SSS-A2-O	Bathroom turn and indicator set 8x60 mm, dth. 35-50 mm		SSS	50019181





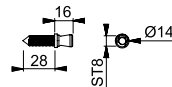
AR6210-CR

(one-side fixing, supports inclined at an angle of 45°)

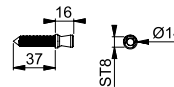
ARRONE cranked pull handle fixing system:

- For one-side fixing to wood, aluminium and PVC doors
- Ø 7 mm pilot drill

Product ref.	Article description			Article no.
AR6210-CR/SF-35-SSS	To suit door thickness > 35 mm			50030917
AR6210-CR/SF-55-SSS	To suit door thickness > 55 mm			50030929



AR6210-CR/SF-35-SSS



AR6210-CR/SF-55-SSS



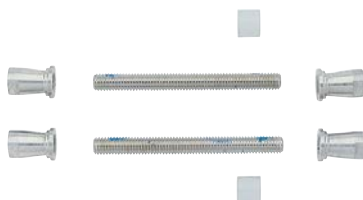
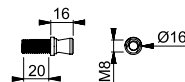
AR6210-CR

(one-side fixing, supports inclined at an angle of 45°)

ARRONE cranked pull handle fixing system:

- For one-side fixing to metal doors
- M8 machine thread

Product ref.	Article description			Article no.
AR6210-CR/M8-SSS	To suit door thickness > 35 mm			50030930

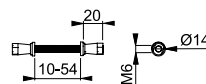


AR6211-FP (two-side fixing, straight supports)

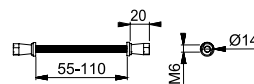
ARRONE pull handle fixing system:

- For two-side fixing to wood, PVC, metal and glass doors

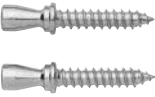
Product ref.	Article description			Article no.
AR6211-BB-10-54-SSS	To suit door thickness 10-54 mm			50027645
AR6211-BB-55-110-SSS	To suit door thickness 55-110 mm			50028200



AR6211-BB-10-54-SSS



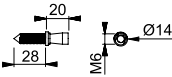
AR6211-BB-55-110-SSS



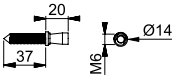
AR9210-FP (one-side fixing)

- ARRONE pull handle fixing system:
- For one-side fixing to wood, aluminium and PVC doors
 - Ø 7 mm pilot drill

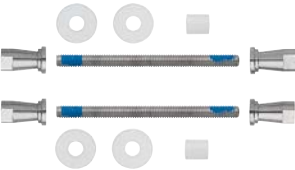
Product ref.	Article description			Article no.
AR9210/SF-35-SSS	To suit door thickness > 35 mm			50025533
AR9210/SF-44-SSS	To suit door thickness > 44 mm			50025545



AR9210/SF-35-SSS



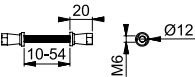
AR9210/SF-44-SSS



AR9211-FP (two-side fixing)

- ARRONE pull handle fixing system:
- For two-side fixing to wood, PVC, metal and glass doors

Product ref.	Article description			Article no.
AR9211/BB-10-54-SSS	To suit door thickness 10-54 mm			50025569





General Terms and Conditions of Sale

§ 1 General – Extent of application

- 1.** Our General Terms and Conditions of Sale shall apply exclusively; we do not recognise customers' conditions which are contrary to or different from our General Terms and Conditions of Sale, unless we have expressly agreed in writing that they shall apply. Our General Terms and Conditions of Sale shall even apply in cases in which we make delivery to the customer unreservedly although we are aware that there are conditions of the customer which are contrary to or different from our General Terms and Conditions of Sale.
- 2.** All agreements made between us and the orderer, for the purpose of the execution of this contract, shall be laid down in writing in this contract.
- 3.** Our General Terms and Conditions of Sale shall apply only to merchants.
- 4.** Our General Terms and Conditions of Sale shall also apply to all future business transactions with the customer, even if in such future cases no specific reference is made to the application of these General Terms and Conditions of Sale.

§ 2 Offer – Offer documents

- 1.** Our offers are valid until the date specified in the offer.
- 2.** We shall retain ownership and copyright of diagrams, drawings, calculations and other documents; they may not be made available to third parties. This applies especially to those written documents which are labelled "confidential". The customer shall require our written agreement before passing them to third parties.

§ 3 Confirmation

- 1.** Orders shall only be regarded as binding by us once they have been confirmed in writing or electronically.
- 2.** For our part, contestability due to error shall still be deemed to be timely when there has been an appropriate period of time since the discovery of the reason for contestation and not immediately following such discovery.

§ 4 Prices

- 1.** Unless stated otherwise in the order confirmation, our prices shall apply "ex works" exclusive of packaging for transport; the latter shall be invoiced separately.
- 2.** Statutory value added tax is not included in our prices; it will be shown separately in the invoice at the statutory rate applicable on the date of invoicing.
- 3.** HOPPE reserves the right to adjust prices even after conclusion of contract, if cost increases caused by raw material prices or union agreements cannot be absorbed.

§ 5 Dispatch

1. If the goods are dispatched to the customer at his request, the customer shall assume the risk of accidental loss or deterioration of the goods at the latest at the time the goods leave the works/warehouse. If the goods are ready for dispatch and the dispatch or acceptance are delayed for reasons for which the purchaser is responsible, then the risk shall be assumed by the purchaser from the date of receipt of notice that the goods are ready for dispatch.

2. The purchaser shall bear the transport costs; packaging is invoiced at cost price and is non returnable.

§ 6 Payment

1. In line with market customs. Other methods of payment shall require the written form. No discount on new invoices shall be allowed if older invoices have not yet been paid in full.

2. If counterclaims are not established by way of a final judgment of a court of competent jurisdiction or are not accepted by us, the customer may neither set off nor assert the right to withhold payment with regard to these claims. Moreover, he may exercise his right to withhold payment only if his counter-claim rests on the same contractual relationship.

3. If payment is delayed, interest payable on arrears shall be invoiced at the appropriate bank rates of interest. All payments shall be made exclusively to us. Bills of exchange shall be accepted only on account of performance without guarantee for protest and only subject to our prior consent and further provided that they are eligible for discount. Discounting charges shall be calculated from the due date of the amount invoiced. All our claims – including those for which we have accepted bills of exchange in payment – shall fall due immediately, if the terms of payment are not adhered to or if, upon conclusion of the contract, we become aware of clear indications of the purchaser's diminished credit-worthiness. Moreover, in such a case, we shall be entitled to refuse further performance due on our part until payment has been effected or security has been provided for it. We may also prohibit the resale of the goods delivered under reservation of ownership and may demand their return.

§ 7 Delivery period, act of God, industrial action

1. Agreed or informed delivery times shall be adhered to as far as possible, but are not binding.

2. If the supplier is hindered in fulfilling his obligations by the emergence of unforeseen circumstances, which, notwithstanding his reasonable care as required by the circumstances of the case, he could not prevent, e.g. breakdown, delay in the supply of essential raw materials and building materials, the delivery period shall be extended to an appropriate extent provided that it is still possible to perform the delivery or the service. The same shall apply if we ourselves are affected by such events. If the delivery or the service is not possible because of the above-mentioned circumstances, we shall be released from the obligation to deliver. The same shall apply in the event of a strike or lockout. If the delivery period is extended in these 3 cases or if the supplier is released from the obligation to deliver, any claims for damages that the purchaser may base thereon shall cease. If the above-mentioned

circumstances affect the purchaser, the same legal consequences shall also apply to his obligation to purchase.

3. It shall be the duty of the contract partner affected by the hindrances as mentioned in the previous paragraph to inform the other contract partner within 2 days. No legal action resulting in possible benefit shall be entered into if this is not done.

§ 8 Notification of defects, liability, especially liability in the case of defects and returns

1. Our liability for defects assumes that the entity placing the order has met his/her duty of examination and notification of defects pertaining under the Rules of commercial transactions. The entity placing the order must notify us in writing of any defects within five days, and of any defects not immediately apparent, within five days of their becoming apparent. In the case of goods that are due to be installed or attached to another product, the orderer shall further examine the goods for recognisable defects prior to such installation or attachment, unless such an examination is not reasonably possible for the orderer. The goods shall be deemed to be accepted insofar as no notification of defect is received.

2. In cases of justified complaint, we maintain the initial right to decide to rectify the defect or provide alternative goods. Claims by the orderer in respect of necessary expenses pertaining to the making good of the complaint, especially transport, travel, work and material costs, are excluded, insofar as the expenses are increased as a result of the subsequent delivery of an item to a location other than that of the place of business of the orderer, unless such delivery complies with the intended use of the item.

3. If the orderer himself/herself or an appointed third party has installed the defective goods according to their nature and their purpose into another product or attached them to another product, the orderer may demand compensation for the necessary expenses incurred for the removal of the defective goods and the installation or attachment of reworked goods or supplied, flawless goods ("removal and installation costs") only in accordance with the following provisions:

- a) Expenses are deemed to be necessary only insofar as they are directly caused by the removal and/or disassembly of the defective goods and the installation and/or attachment of identical goods, they are incurred on the basis of standard market practices and they are documented to us by the orderer through the submission of written evidence.
- b) Any claims by the orderer above and beyond the necessary removal and installation costs, in particular costs for defect-related consequential damages, such as lost profits, operational downtime costs or additional costs for replacement procurements, are not deemed to be removal and installation costs and are therefore not refundable within the rectification process.
- c) No compensation for expenses can be demanded for any installation and removal costs that are incurred when the orderer detected the defectiveness of the goods or serious indications of a defect in the goods during installation and nevertheless did not postpone the further installation of the goods. In such a case, our expense compensation is limited to the expenses for the removal and re-installation of the products at the stage at which the orderer discovered the defect.
- d) Any offset of the orderer with any possible expense compensation claims for removal and installation costs without our permission is hereby excluded. § 6.2 shall remain unaffected.

e) The orderer does not have any right to an advance payment for removal and installation costs.

4. Insofar as any expenses claimed by the orderer for making good in any individual case are disproportionate in accordance with § 8.3, particularly in relation to the purchase price of the goods in flawless condition and in consideration of the significance of the contract infringement, we reserve the right to refuse compensation for expenses. Any claimed expenses shall in any case be regularly deemed to be disproportionate insofar as such expenses, in particular for removal and installation costs, exceed a value in the amount of 150% of the (net) purchase price of the goods in flawless condition or 200% of the defect-related lower value of the goods.

5. The orderer shall be required to set out an appropriate timetable in writing with right of rejection before further rights are called into force. This shall be invalid if we have previously expressly rejected making good. Should the product to be delivered be only in kind, then any claims for compensation whatsoever, independent of guilt, shall be ruled out. Furthermore, we shall only be responsible for such claims for damages where cases of gross negligence or intention are proven; § 199 OR (Swiss Code of Obligations) shall remain unaffected. This limitation is not valid in cases of damage in relation to injury to life, body or health, caused through a gross negligent breach of duty on our part or a deliberate or negligent breach of duty on the part of a legal representative or or a vicarious agent. Neither shall it be valid in cases where any other damage is caused through a gross negligent breach of duty on our part, or a deliberate or gross negligent breach of duty on the part of a legal representative or or a vicarious agent.

6. The validation of claims resulting from quality or durability guarantees shall have force only if such a guarantee has been issued expressly by us in writing. In the case of claims under the guarantee, it is the duty of the orderer to provide us with appropriate items from the consignment immediately so that examination can be made.

7. Any claim in respect of defects shall expire two years after delivery; the longer limitation deadline pursuant to § 210 (2) OR (Swiss Code of Obligations) shall remain unaffected. Suspension of limitation shall be in accordance with § 135 OR (Swiss Code of Obligations). It can also be suspended by a written waiver of objection from HOPPE.

8. In the case of obligation to pay damages as a result of a breach of contractual duty on our part, the claim shall be restricted to the cover of the costs of the product liability insurance. This limitation is not valid in cases of damage in relation to injury to life, body or health, caused through a gross negligent breach of duty on our part or a deliberate or negligent breach of duty on the part of a legal representative or s.o. Neither shall it be valid in cases where any other damage is caused through a gross negligent breach of duty on our part, or a deliberate or gross negligent breach of duty on the part of a legal representative or s.o.

9. Insofar as our liability is excluded or limited, this shall also apply to the personal liability of our employees and other s.o.

10. Our prior written consent is needed before goods can be returned from the orderer. Should the goods be returned justifiably on account of defect in the goods supplied, then the orderer may insist on agreement, if the said orderer has a special interest in returning the goods.

§ 9 Deliveries

1. Quantities ordered will be delivered in packaged units. It shall be deemed to be agreed that we shall be permitted to make under- and over-deliveries of up to 10% on customer-specific products, subject to manufacturing.
2. Partial deliveries for which invoices are issued shall be considered as separate contracts.

§ 10 Reservation of Title

1. The goods remain the property of HOPPE until payment in full of all claims in the business relationship, including ancillary claims, claims for damages and the honouring of cheques and bills of exchange. The reservation of title remains in force even if we add individual claims to a current account and the balance is determined and acknowledged.
2. The processing or altering of the purchased item by the orderer is always undertaken for our benefit, without any obligation thereby arising for us. If the item is processed using other items which do not belong to us, then we shall acquire joint ownership of the new item in proportion to the value of the purchased item at the time of processing. Furthermore, the same applies to the processed item as the conditionally delivered item.
3. The orderer is only entitled to resell, further process or install the conditional goods when the following provisions and measures are taken into consideration, and the claims in accordance with No. 5 are also effectively handed over to us.
4. The competence of the orderer, in the course of orderly business practices, to sell, process or install the item, comes to an end with cancellation on our side due to a sustained deterioration of the financial circumstances of the orderer, and at the very latest, with his/her cessation of payments or with the application or opening of bankruptcy proceedings against him/her.
5. The orderer hereby assigns to us his/her claims and any ancillary rights due to the resale of the conditional goods – including possible balance claims. If the item is processed, mixed or combined and the seller has obtained joint ownership at the amount of the invoice value, the purchase price claim is proportional to the value of his claims to the item. If the conditional goods were installed by the orderer on a premises/building, the orderer immediately assigns his/her existing claim to remuneration due to the resale of the premises/building at the invoice value of the conditional goods, with all ancillary rights including the right to the granting of a security mortgage with precedence over other claims. If the orderer sells the claim within the framework of genuine factoring, our claim shall be due immediately and the orderer shall assign payment entitlements against the factor to us and shall immediately transfer the sales proceeds to us. We will take over pre-existing assignments.
6. The orderer is entitled to collect the assigned claims as long as he/she meets his/her financial obligations. The authorisation to collect such claims expires when cancelled, at the latest in the event of default of payment on the part of the orderer, or if there is a significant deterioration in the financial circumstances of the orderer. In this case, we are hereby empowered by the orderer to notify the purchaser of the assignment and to collect the claims ourselves. The orderer is obligated upon request to supply us with a precise schedule of existing claims with the names and addresses of the purchasers,

the amounts of individual claims, invoice dates etc. and to supply us with all the necessary information for the enforcement of the assigned claims and to allow this information to be verified.

7. If the value of the existing securities in our favour exceeds our total claims by more than 20%, then we are obligated to release securities according to the orderer's wishes if requested to do so by the orderer or by a third party affected by the excess security of the orderer.

8. Mortgaging or pledging of the conditional goods or the assigned claims is inadmissible. We must be informed immediately of any mortgages or other involvement of third parties, including the identity of the mortgagee or other third party, so that we can if appropriate commence objection proceedings and a third party claim in accordance with § 106 of the ZPO. In so far as the mortgagee or third party is not in a position to refund us the court and out-of-court costs of objection proceedings, the orderer is liable for any losses incurred by us.

9. In the case of goods being returned due to reservation of title, the contract is only nullified on our side if we explicitly state this in writing. We may make use of a private sale of the conditional goods returned to satisfy our claims.

10. The orderer shall store the conditional goods for us free of charge. He/she must insure the items against the usual risks such as fire, theft and water to the usual extent. The orderer hereby relinquishes his/her claims for compensation, which may have arisen due to damages or the above-mentioned claims against insurance companies or other obligated parties for the invoice value of the item. We accept this assignment.

11. All claims as well as rights to reservation of title for all special forms determined in these terms and conditions continue to be valid until full release from any contingent liabilities that we may have assumed in the interest of the person or entity placing the order.

§ 11 Cost of tools

1. As a matter of principle the costs for tools shall be charged only in part and separately from the value of the goods. By paying part of the cost of the tools the customer shall not acquire any claim to the tools; the tools shall remain the property of the manufacturer and remain in his possession. The manufacturer undertakes to retain the tools for the customer for one year after the last delivery. If, before expiry of this period, the customer notifies that orders will be placed within a further year the period of safe-keeping will be extended for a further year. After this period and with no further orders being placed the manufacturer may freely dispose of the tools.

2. Costs for tools arising from orders which fail to come to fruition: For orders that are cancelled in the development stage (due to difficulties of design or conversion) or in the run-up period, we reserve the right to invoice the costs incurred. In this context, for release of the samples the costs incurred for the initial tools shall be invoiced. If cancellation occurs after the release of samples, the costs incurred for the entire extent of the standard tools, special equipment and gauges, depending on the anticipated monthly requirement, shall be invoiced.

3. If tools which are in the process of being produced are invoiced, they shall remain available for inspection for four weeks and shall be scrapped at the end of this period. In order to protect the processes applied, completed plans

for work phases and construction drawings of the tools shall not be subject to inspection.

§ 12 Period of acceptance

1. Where the purchaser is obliged to request delivery or collect the goods ordered within a certain period, we shall have the option, after expiry of that period, to terminate the contract or to issue an invoice.

§ 13 Destination, place of jurisdiction, applicable law

1. Place of performance for all obligations arising from the contractual relationship shall be the head office of the Supplier: CH-7537 Müstair/GR.

2. Place of jurisdiction: place of jurisdiction for any dispute arising from the contractual relationship shall be CH-7537 Müstair/GR.

3. Swiss law shall apply.

In the event of any dispute arising out of the interpretation of these general terms and conditions, the German language version shall be regarded as binding. Should any one of the provisions of this Agreement be or become legally invalid the validity of the remaining provisions hereof shall not be affected thereby. The Partners undertake instead to replace the invalid provision by another provision which shall to the greatest extent possible correspond to the spirit and the economic effect of the invalid provision. By analogy, the Partners shall correct any provisions hereof which are unclear or may be construed or interpreted in different ways, or add any provisions which may have been omitted, which correction and addition of provisions the Partners undertake to execute amicably and by mutual agreement, maintaining the spirit of the entire set of Agreements.

(as per 01/2019)

Product Liability of Door and Window Hardware (Door Handle Sets and Window Handles)

1. Product information and application according to instruction
2. Misuse (inappropriate use or use contrary to instruction)
3. Product performance
4. Product care
5. Duty to inform and instruct
6. HOPPE function guarantee for door and window hardware

As a result of a new product liability law, the manufacturer is to define products as to their performance (duty to instruct and inform). HOPPE is thereby providing the following information.

1. Product information and application according to instruction

HOPPE hardware fittings are manually-operated appliances by means of which doors, French doors and windows in domestic and non-domestic buildings can be opened or closed and/or locked.

They are normally used in conjunction with supplementary hardware such as locks, cylinders or tilt/turn hardware.

Special provisions of law have to be observed in the case of fire doors and the direction of escape for example, in cases where a fixed fitting (knob, handle) is used.

It is imperative that only the parts supplied for fixing are used and also that fixing instructions are strictly adhered to. This applies to all means of fixing

a) supplied by HOPPE

b) supplied by other manufacturers as integral parts of their hardware (eg. screws supplied by the manufacturer of tilt/turn hardware for windows).

Products which are installed in aggressive, corrosion-inducing areas are special fittings. They should only be used (applied) following consultation with HOPPE.

2. Misuse (inappropriate use or use contrary to instruction)

Misuse of fittings for doors and windows, ie using the product contrary to instruction, may occur in particular when

- tools, such as pliers or tubular adaptors are used,
- additional loads (blocking loads or support loads) have an impact, for example when an object is placed under the handle to block the door,
- when force over and above normal manual use is applied to the handle, for example when attempting to force a tilt/turn fitting beyond its normal rest position or when children, for example, use door handles as something to hold on to
- foreign objects or objects contrary to instruction, such as spindles manufactured by other companies are used or when such products are used alongside HOPPE products,
- tampering has occurred which interferes with the function of the product, for example in attempting to break in or out with tools in the case of lockable window handles,
- sharp objects are used to damage the surface,
- foreign objects and/or objects contrary to instruction are introduced into the hardware or strike-plate so as to prevent normal use,
- tampering with the hardware or strike-plate has occurred resulting in damage to the construction or adversely affecting function or effectiveness.

3. Product performance

The DIN 18255, DIN 18257 and DIN 18273 standards for door hardware and the RAL-GZ 607/9 standard for window hardware are definitive (in a pioneering sense).

The content of these standards applies in the same way to other fittings too.

In the case of window handles, the regulations of appropriate institutes, such as the Institute for Window Technology in Rosenheim apply in addition to those of RAL.

No other conditions may be added without prior approval by HOPPE.

The durability of a product is especially dependent on the frequency of

- use,
- type of use,
- location and care.

Replacement of the fitting shall occur only when, despite proper maintenance and care, it no longer functions or when the surface may cause injury

4. Product care

It is essential that the fitting and fixing-means are fitted correctly!

All movable parts are to be correctly maintained at least once a year.

This is particularly so in the case of door handle – spindle connections as well as in locking cylinders for lockable window handles. It is essential that no resinous lubricants (graphite is appropriate) are used in the locking cylinders. Dependent on the amount of use, fittings should be treated by agents recommended by HOPPE.

Basically no strong acids or alkalis should be used. Contact with mortar and similar substances should also be avoided. Only cleaning agents which do not contain corrosion-inducing substances should be used.

5. Duty to inform and instruct

The following information material is available to the trade, planners/architects, advisory institutions, installers, builders and users:

- catalogues and brochures,
- product descriptions,
- Purchasing Information,
- offer documentation,
- DIN standards: 18255, 18257, 18273 as well as related standards (published by Beuth GmbH, 10785 Berlin) along with instructions for fixing, use and care.

Where necessary HOPPE is also able to advise.

When choosing HOPPE fittings as well as for their fixing, use and care,

- architects, planners and advising institutions are expected to request all the necessary product information from HOPPE and to adhere to it;
- architectural hardware distributors are expected to observe the product information in the documentation and in particular request all the necessary mounting instructions and pass them on to the installers;
- installers are expected to observe all product information, especially HOPPE's instructions relating to use and care and to pass them on to the contractors and users.

6. Application of related hardware

All possible variations within the individual fittings, as well as accessories, are expected to be used appropriately with regard to their particular qualities according to the requirements of product liability as listed above.

(as per 12/2007)

ARRONE Finishes



PVD-PBR
Polished brass, PVD coated



PBR
Polished brass (EB)



PVD
PVD-Brass



PVD-SBR
Satin brass, PVD coated



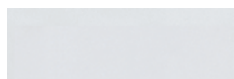
GE
Gold enamel



ABR
Antique brass



PVD-COP
PVD-Copper



PSS
Polished satin stainless steel



PCH
Polished chrome



MNP
Matt nickel plated



SSS and F69
Satin stainless steel



SC
Satin chrome



SNP
Satin nickel plated



SE
Silver enamel



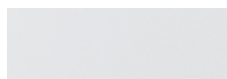
TTM
Titan



BLK
Black (F9005)



RED
Red



WHT
White (F9016)

For technical reasons, the colour representation in product images may differ from the actual product. We do not guarantee or warrant colour accuracy of the products shown.

