Adams Rite Europe Limited

About the company

Adams Rite was formed in 1946 in Los Angeles, California and over the years we have created a network of outlets stretching across the globe, including Europe, the Middle East, the Far East, Australasia, South Africa, South America, the USA and Canada.

Adams Rite were the originators of the swing bolt mechanism, developed to cope with locking narrow stile aluminium doors, which remains the main method of locking on the vast majority of commercial aluminium doors. This is just one example of the technical advancements we have developed over the years and we will continue to refine and improve Adams Rite products to be ever more secure, reliable and innovative.

During 2002 Adams Rite was able to develop further product sectors with the acquisition of two companies: Markar Products Inc in the USA and Safeguard Doors in the UK.

Markar Architectural Products manufactures a complete range of continuous hinges. Safeguard Doors, located in the West Midlands manufactures timber security, ballistic and blast resistant doors.

With these two companies now part of the Adams Rite family we are able to offer our customers several strong independent brands and help fulfil our vision to provide our customers with a comprehensive line of products to meet their needs.

The addition of the High Security Locking range will further compliment the Adams Rite products already widely used within the security market.

In March 2006, Adams Rite became a member of the ASSA ABLOY Group of companies which further enhanced the opportunity for Adams Rite to offer a wider range of products and services.

“Our vision is to set the standard of customer satisfaction against which all others are measured”

The Adams Rite Europe Limited commitment to quality was further demonstrated with both the Architectural Hardware Division and the Safeguard Doors Division complying with the requirements of ISO 9001:2000.

High Security Locking

A new range from Adams Rite

The HS range of products have been specifically developed to meet the demands of physical attack, without compromising health and safety requirements. They have been manufactured to the highest technological standard and aesthetically designed to complement the modern workplace. We have incorporated the many operational options required to conform to current fire safety standards and DDA regulations and will continue with further development to provide a product range tailored to our customers needs. As with all Adams Rite products the High Security Locking range is supported by our experienced technical and customer service departments.

The HS locking range of surface and mortice modular multi-point and single point locks have been designed to meet the exacting standards of physical attack but maintain safe and easy exit when required.

The High Security Locking range is made in Great Britain

Standards

All of the products in the range are manufactured to the highest specifications and where indicated tested to the appropriate standards.

- Panic Exit Devices tested to BS EN 1125: 1997
- Emergency Exit Devices tested to BS EN 179: 1998
- Products fire tested as part of a secure doorset to the European Standard BS EN 1634-1
- Independently tested and approved by the British Government
- High Security Locking used on independent blast door testing
- Independently cycle tested to in excess of 1,000,000 cycles

Ordering

To assist you with choosing the right lock for your application we have a Product Selector on page 7, plus a configuration chart and ordering matrix for each lock model to help select a product to suit your requirements.

However if you need any assistance our Technical and Customer Service Departments are available to advise you in selecting the right product for your application and to ensure that the correct product is ordered.
### Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anti thrust</strong></td>
<td>This prevents someone putting end pressure on any of the bolts and forcing them back to open the door, especially on an emergency escape device.</td>
</tr>
<tr>
<td><strong>Auto bolt throw</strong></td>
<td>A lock where the bolts are sprung so that the locking bolts will shoot automatically when the latch release is depressed.</td>
</tr>
<tr>
<td><strong>Backset</strong></td>
<td><strong>Mortice Lock</strong> - Horizontal dimension from outer face of forend to centre line of cylinder. <strong>Surface Lock</strong> - Horizontal dimension from leading edge of lockcase to centre line of cylinder.</td>
</tr>
<tr>
<td><strong>Bolt monitoring</strong></td>
<td>Microswitch detection to determine whether bolts are in their thrown or retracted position.</td>
</tr>
<tr>
<td><strong>Cam</strong></td>
<td>The part on the back of a cylinder that rotates when the key is turned and operates the lock mechanism. Also often used to denote the part where the cylinder tang enters the lock.</td>
</tr>
<tr>
<td><strong>Core fixings</strong></td>
<td>Steel inserts that have screw threaded holes in them and usually inserted into a solid timber core door to line up with the major fixing positions of the locking device.</td>
</tr>
<tr>
<td><strong>Cylinder guard</strong></td>
<td>A special housing to protect an external key cylinder from physical attack.</td>
</tr>
<tr>
<td><strong>Cylinder tang</strong></td>
<td>A term used for the flat connecting bar that is attached to the back of a rim cylinder and projects into the lock case.</td>
</tr>
<tr>
<td><strong>Emergency Escape Lock</strong></td>
<td>A specific lock which complies with BS EN 179.</td>
</tr>
<tr>
<td><strong>Escutcheon</strong></td>
<td>A plate either protective or ornamental that slips over the cylinder, thumbturn, handle etc. and is fixed to or through the door.</td>
</tr>
<tr>
<td><strong>Follower</strong></td>
<td>Another word used for a cam where a cylinder tang enters into a lock mechanism or the part where a handle shaft engages into the lock mechanism.</td>
</tr>
<tr>
<td><strong>Keying</strong></td>
<td><strong>Master key:</strong> A key that will operate a number of different cylinders that all have their own individual keys. <strong>Submaster key:</strong> A master key that will operate a selected number of cylinders within a master suite but that is still operable by the master key. <strong>Keyed alike:</strong> Cylinders that are assembled to operate with the same key.</td>
</tr>
<tr>
<td><strong>Lock monitoring</strong></td>
<td>Microswitch detection to determine whether the lock that interfaces with the bolting system is engaged. A common requirement for use with access control.</td>
</tr>
<tr>
<td><strong>Panic Escape Lock</strong></td>
<td>A specific lock which complies with BS EN 1125.</td>
</tr>
<tr>
<td><strong>Split follower</strong></td>
<td>Part of the lock mechanism that allows any internal lever, paddle handle or panic bar on an emergency exit device to work independently from an external handle.</td>
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</table>
Lock Features

**Surface Mount**
- Surface mounted lock tested on 1 hour fire resistant door to BS EN 1634-1
- Aesthetically designed lock cover
- Modular lockcase to suit panic bar, paddle handle and lever operation
- Optional rod covers available

**Mortice Mount**
- Cylinder guard protection available for various cylinders
- Stainless steel forend
- Hardened steel bolt
- Anti-thrust prevention
- Mortice mounted lock tested on 1/2 hour fire resistant door to BS EN 1634-1

Access Control Lock Option on models 110, 120, 170, 180, 210, 220, 270 and 280

Independently tested to BS EN 1670 Grade 4 - Very High Corrosion Resistance
## Product Selector Matrix

<table>
<thead>
<tr>
<th>Application</th>
<th>Model Number</th>
<th>Suitable for Inward or Outward Opening Door</th>
<th>Panic/Emergency Exit with Key Controlled Holdback Facility</th>
<th>Manual Bolt Throw</th>
<th>Manual Deadlocking</th>
<th>Automatic Bolt Throw</th>
<th>Automatic Deadlocking</th>
<th>External Lever Option</th>
<th>Internal Lever Handle Option</th>
<th>Internal Profile Handle Option</th>
<th>Internal Bolt &amp; Strike Option</th>
<th>External Key Option</th>
<th>Cylinder Protection</th>
<th>Internal Key Option</th>
<th>Internal Thumbturn</th>
<th>Internal Thumbturn and Break Dome</th>
<th>Belt Position Monitoring</th>
<th>Lock Position Monitoring</th>
<th>Access Control Facility</th>
<th>Page Number</th>
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</table>

**Key to symbols**

- ![Standard feature](image)
- ![Optional feature](image)
- ![Optional feature where at least one choice must be selected](image)
- ![Emergency exit facility, however, it does not comply to BS EN 1125/179, see HS180/HS280 product pages for further details.](image)
HS110 & HS120
Surface Mounted Emergency/Panic Escape Locks
Operated with either lever handle, paddle handle or push bar

The HS110 is designed to provide a surface mounted lock for emergency/panic exit doors that gives resistance to a greater physical attack threat to the outside of a door. You can choose either an internal lever handle, paddle handle or push bar to suit your operating requirements and to comply with the mandatory physical standards BS EN 179 and BS EN 1125. European standards allow the HS110 to be fitted to fire doors.

The HS120 lock has the same specification as the HS110 but incorporates a special feature to hold the bolts in their retracted position under the control of a key cylinder. This function is activated by simply turning the key towards the door edge when the bolts have been withdrawn and this will keep the bolts retracted until you reinsert the key and turn it in the opposite rotation.

Current standards do not allow the HS120 to be fitted to fire doors, however, this may change in the future.

Features
■ Available as a single, 2 or 3 point lock
■ 25mm bolt engagement, bolts automatically thrown when door closes
■ Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
■ Key controlled hold back facility operated externally or internally as applicable (HS120 only)
■ Suitable for timber and steel doors
■ Low current consumption (access control version only)

Options
■ Bolt Position Monitoring
■ Lock Position Monitoring
■ Optional Aesthetic Rod Covers
■ Access Control Function: 12v DC, 24v DC, 50v DC
■ Tall door kits available
■ External key entry overrides automatic deadlocking
■ High security cylinder guard available

Standards
■ BS EN 179: 1998 Emergency Exit Devices (lever and paddle handle versions)
■ BS EN 1125: 1997 Panic Exit Devices (panic bar version)
■ CE Marked
■ British Government Tested
■ Independently cycle tested to in excess of 1,000,000 cycles
■ Fire tested to BS EN 1634-1
## HS110 and HS120 Surface Mount Locks

### HS110 or HS120

<table>
<thead>
<tr>
<th>Handing &amp; Locking Points (see chart opposite)</th>
<th>1 - 2 - 5 - 101 - 1 - 0 - 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Point</td>
<td>1</td>
</tr>
<tr>
<td>Single Point</td>
<td>2</td>
</tr>
</tbody>
</table>

### Finish
- Regal Silver with exposed zinc plated rods & guides
- Regal Silver paint finish lock & rod covers
  - (n/a on single point lock)

### Configuration (cylinders not included)
- Internal lever operation only
- Lever handle both sides
- As 02 but with external key facility
- As 03 but with cylinder guard
- Internal paddle handle operation only
- Internal paddle handle & external lever
- As 22 but with external key facility
- As 23 but with cylinder guard
- Internal paddle handle operation (pull)
- Internal paddle handle operation & external lever
- As 32 but with cylinder guard
- As 33 but with cylinder guard
- Internal panic bar operation only
- Internal panic bar operation & external lever
- As 42 but with external key facility
- As 43 but with cylinder guard

### Door Thickness
- 44-65mm
- 66-80mm

### Rim Cylinder Make

<table>
<thead>
<tr>
<th>Cylinder Make</th>
<th>1 - 2 - 5 - 101 - 1 - 0 - 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>No cylinder required</td>
<td>0</td>
</tr>
<tr>
<td>Union</td>
<td>1</td>
</tr>
<tr>
<td>Assa Twin Combi</td>
<td>2</td>
</tr>
<tr>
<td>Abloy Protec</td>
<td>3</td>
</tr>
<tr>
<td>Yale</td>
<td>4</td>
</tr>
<tr>
<td>Kaba Expert</td>
<td>5</td>
</tr>
<tr>
<td>Kaba 20</td>
<td>6</td>
</tr>
<tr>
<td>Other (please specify make and model)</td>
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### Electric Monitoring

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</tr>
</thead>
<tbody>
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<tr>
<td>Bolt position</td>
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<tr>
<td>Lock position</td>
<td>2</td>
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<tr>
<td>Both positions</td>
<td>3</td>
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</table>

### Access Control

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>12 volt DC (energise to unlock-fail secure)</td>
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<tr>
<td>12 volt DC (energise to lock-fail safe)</td>
<td>2</td>
</tr>
<tr>
<td>24 volt DC (energise to unlock-fail secure)</td>
<td>3</td>
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<tr>
<td>24 volt DC (energise to lock-fail safe)</td>
<td>4</td>
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<tr>
<td>50 volt DC (energise to unlock-fail secure)</td>
<td>5</td>
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<tr>
<td>50 volt DC (energise to lock-fail safe)</td>
<td>6</td>
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</tbody>
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### Other Items:
- Rim Cylinders - page 28
- Top Keeps, Centre Keeps and Floor Keeps - page 29
- Fixing Packs - page 28
- Tall Door Kits - page 28

## Handing and Locking Chart

### Single Point Locking

1. **ATTACK SIDE**

2. **ATTACK SIDE**

### Two Point Locking

3. **ATTACK SIDE**

4. **ATTACK SIDE**

### Three Point Locking

5. **ATTACK SIDE**

6. **ATTACK SIDE**

### BS EN 1125 - Panic Exit Devices

The main purpose of the performance requirements of this standard is to give 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 179 - Paddle and Lever Handle

This European Standard deals with emergency devices designed 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.
Configuration Chart: HS110 and HS120

**Lever Handle**

Classification Codes:  
HS110 - 37611441A  
HS120 - 37601441A

**Paddle Handle (Push)**

Classification Codes:  
HS110 - 37611441B  
HS120 - 37601441B

**Paddle Handle (Pull)**

Classification Codes:  
HS110 - 37611421A  
HS120 - 37601421A

**Push-Bar**

Classification Codes:  
HS110 - 37611421A  
HS120 - 37601421A
The HS130 lock is designed to allow manual key deadlocking operation from the outside, if required, with a number of internal locking options to cater for different needs. As standard, this lock has an automatic bolting function so that the bolts engage when the door is closed allowing you to lock the door from either side manually.

The HS140 lock has the same manual key deadlocking function as the HS130 but is provided with a manual bolting operation requiring physical operation of the lever to throw the bolts into an engaged position.

Features
- Available as a single, 2 or 3 point lock
- Manual deadlocking function
- 25mm bolt engagement
  - HS130 - bolts automatically
  - HS140 - manual bolt operation
- Suitable for timber and steel doors

Options
- Bolt Position Monitoring
- Lock Position Monitoring
- Optional Aesthetic Rod Covers
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guard available

Standards
- Independently cycle tested to in excess of 1,000,000 cycles
- Fire tested to BS EN 1634-1
Dimensions

Note: Above illustration shows configuration ‘09’ for reference purposes only.

Note: Images show thumbturn options, with and without break dome.
## Ordering Code Matrix and Technical Information

### HS130 and HS140 Surface Mount Locks

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</tr>
</tbody>
</table>

**Handing & Locking Points (see chart opposite)**
- Single Point
- Two Point
- Three Point

**Finish**
- Regal Silver cover with exposed zinc plated rods & guides
- Regal Silver paint finish lock & rod covers
  *(V/a on single point lock)*

**Configuration (cylinders not included)**
- Internal lever operation only with thumbturn
- Int. lever operation only with thumbturn & breakdome
- As 01 but with external key facility & external handle
- As 03 but with breakdome
- As 03 but with cylinder guard
- As 05 but with breakdome
- As 01 but with internal key facility
- As 07 but with external handle
- As 08 but with external cylinder
- As 09 but with cylinder guard
- External locking facility via rim cylinder
- As 11 but with cylinder guard

**Door Thickness**
- 44-65mm
- 66-80mm

The rim cylinder guard requires a minimum door thickness of 50mm.

### Rim Cylinder Make

This information is to determine the cylinder guard type only.

**To order cylinder(s) see page 28**

No cylinder required 0
- Union 1
- Assa Twin Combi 2
- Abloy Protex 3
- Yale 4
- Kaba Expert 5
- Kaba 20 6
- Other (please specify make and model) 7

### Electric Monitoring

None required 0
- Bolt position 1
- Lock position 2
- Both positions 3

---

**Other Items:**
- Rim Cylinders - page 28
- Top Keeps, Centre Keeps and Floor Keeps - page 29
- Fixing Packs - page 28
- Tall Door Kits - page 28

---

### Handing and Locking Chart

#### Single Point Locking

1. **ATTACK SIDE**

2. **ATTACK SIDE**

#### Two Point Locking

3. **ATTACK SIDE**

4. **ATTACK SIDE**

#### Three Point Locking

5. **ATTACK SIDE**

6. **ATTACK SIDE**
## Configuration Chart: HS130 and HS140

### Lever Handle

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Inside Thumbturn</td>
<td><img src="#" alt="Diagram 1" /></td>
</tr>
<tr>
<td>02</td>
<td>Inside Thumbturn with Break Dome</td>
<td><img src="#" alt="Diagram 2" /></td>
</tr>
<tr>
<td>03</td>
<td>Inside Thumbturn</td>
<td><img src="#" alt="Diagram 3" /></td>
</tr>
<tr>
<td>04</td>
<td>Inside Thumbturn with Break Dome</td>
<td><img src="#" alt="Diagram 4" /></td>
</tr>
<tr>
<td>05</td>
<td>Inside Thumbturn</td>
<td><img src="#" alt="Diagram 5" /></td>
</tr>
<tr>
<td>06</td>
<td>Inside Thumbturn with Break Dome</td>
<td><img src="#" alt="Diagram 6" /></td>
</tr>
<tr>
<td>07</td>
<td>Inside Key</td>
<td><img src="#" alt="Diagram 7" /></td>
</tr>
<tr>
<td>08</td>
<td>Inside Key</td>
<td><img src="#" alt="Diagram 8" /></td>
</tr>
<tr>
<td>09</td>
<td>Inside and Outside Key Operation</td>
<td><img src="#" alt="Diagram 9" /></td>
</tr>
<tr>
<td>10</td>
<td>Inside and Outside Key Operation</td>
<td><img src="#" alt="Diagram 10" /></td>
</tr>
<tr>
<td>11</td>
<td>Inside Blank</td>
<td><img src="#" alt="Diagram 11" /></td>
</tr>
<tr>
<td>12</td>
<td>Inside Blank</td>
<td><img src="#" alt="Diagram 12" /></td>
</tr>
</tbody>
</table>
The HS150 features an automatic deadlocking function with automatic bolt throw.

The HS160 lock has automatic deadlocking as the HS150 but is provided with a manual bolt throw operation.

Features
- Available as a single, 2 or 3 point lock
- Automatic deadlocking function
- 25mm bolt engagement
  - HS150 - bolts automatically
  - HS160 - manual bolt operation
- Suitable for timber and steel doors

Options
- Bolt Position Monitoring
- Lock Position Monitoring
- Optional Aesthetic Rod Covers
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guard available

Standards
- Independently cycle tested to in excess of 1,000,000 cycles
- Fire tested to BS EN 1634-1
Dimensions

Note: Above illustration shows configuration '08' for reference purposes only.

Note: Images show thumbturn options, with and without break dome.
Ordering Code Matrix and Technical Information

**HS150 and HS160 Surface Mount Locks**

<table>
<thead>
<tr>
<th>HS150 or HS160</th>
<th>1 - 6</th>
<th>5 - 101</th>
<th>1 - 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS150</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS160</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Handing & Locking Points (see chart opposite)**

- Single Point: 1
- Two Point: 3
- Three Point: 5

**Finish**
- Regal Silver cover with exposed zinc plated rods & guides: 1
- Regal Silver paint finish lock & rod covers: 2
- (V/a on single point lock)

**Configuration (cylinders not included)**
- Internal lever operation only with thumbturn: 01
- Int. lever operation only with thumbturn & breakdome: 02
- As 01 but with external key facility & external handle: 03
- As 03 but with breakdome: 04
- As 03 but with cylinder guard: 05
- As 05 but with breakdome: 06
- As 01 but with internal key facility: 07
- As 07 but with external handle and key facility: 08
- As 08 but with external cylinder: 09
- External operation only: 10
- As 10 but with cylinder guard: 11

**Door Thickness**
- 44-65mm: 1
- 66-80mm: 2

The rim cylinder guard requires a minimum door thickness of 50mm.

**Rim Cylinder Make**

This information is to determine the cylinder guard type only.

To order cylinder(s) see page 28

- No cylinder required: 0
- Union: 1
- Assa Twin Combi: 2
- Abloy Protec: 3
- Yale: 4
- Kaba Expert: 5
- Kaba 20: 6
- Other (please specify make and model): 7

**Electric Monitoring**

- None required: 0
- Bolt position: 1
- Lock position: 2
- Both positions: 3

**Other Items:**
- Rim Cylinders - page 28
- Top Keeps, Centre Keeps and Floor Keeps - page 29
- Fixing Packs - page 28
- Tall Door Kits - page 28
Configuration Chart: HS150 and HS160

Lever Handle

01. Inside Thumbturn
   Inside Handle

02. Inside Thumbturn with Break Dome
   Inside Handle

03. Inside Thumbturn
   External Handle
   Inside Handle

04. Inside Thumbturn with Break Dome
   External Handle
   Inside Handle

05. Inside Thumbturn
   External Handle
   Inside Handle

06. Inside Thumbturn with Break Dome
   External Handle
   Inside Handle

07. Inside Key
   Inside Handle

08. Inside and Outside Key Operation
   External Handle
   Inside Handle

09. Inside and Outside Key Operation
   External Handle
   Inside Handle

10. Inside Blank
   External Handle
   No Key

11. Inside Blank
   External Handle
   No Key
The HS170 lock has been incorporated into the range to provide a lock for use with specialised access control requirements and is available in a number of configurations to meet most applications. As standard the lock has an automatic deadlocking function with automatic bolt throw. The solenoid actuator is available with 12, 24 or 50 volt DC operation and can be energised to lock (fail-safe if power supply is cut) or powered to unlock (fail-secure).

Features
- Available as a single, 2 or 3 point lock
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically thrown when door closes
- Access control locking
- Suitable for timber and steel doors
- Low current consumption (access control version only)

Options
- Bolt Position Monitoring
- Lock Position Monitoring
- Optional Aesthetic Rod Covers
- 12, 24 or 50v DC solenoid operation
- Available in fail-safe or fail-secure modes
- Tall door kits available
- Mechanical deadlock or access control override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guard available

Standards
- Fire tested to BS EN 1634-1
Note: Above illustration shows configuration '06' for reference purposes only.

Note: Images show thumbturn options, with and without break dome.
Ordering Code Matrix and Technical Information

**HS170 Surface Mount Lock**

**Handing and Locking Points (see chart opposite)**
- Single Point: 1
- Two Point: 2
- Three Point: 3

**Finish**
- Regal Silver cover with exposed zinc plated rods & guides: 1
- Regal Silver paint finish lock & rod covers: 2

**(n/a on single point lock)**

**Configuration (cylinders not included)**
- Internal/external lever, key access, internal thumbturn and breakdome: 01
- As 01 but with external cylinder guard: 02
- As 02 but with external cylinder guard: 03
- Internal/external lever, key override from inside only: 04
- As 05 but with external key access: 05
- As 06 but with external cylinder guard: 06
- Internal/external lever, external key access, blank inside (no internal key or thumbturn override): 07
- As 08 but with external cylinder guard: 08

**Door Thickness**
- 44-65mm: 1
- 66-80mm: 2

The rim cylinder guard requires a minimum door thickness of 50mm.

**Rim Cylinder Make**

This information is to determine the cylinder guard type only.

To order cylinder(s) see page 28

- No cylinder required: 0
- Union: 1
- Assa Twin Combi: 2
- Abylo Protec: 3
- Yale: 4
- Kaba Expert: 5
- Kaba 20: 6
- Other (please specify make and model): 7

**Electric Monitoring**

- None required: 0
- Bolt position: 1
- Lock position: 2
- Both positions: 3

**Access Control**

- 12 volt DC (energise to unlock-fail secure): 1
- 12 volt DC (energise to lock-fail safe): 2
- 24 volt DC (energise to lock-fail secure): 3
- 24 volt DC (energise to lock-fail safe): 4
- 50 volt DC (energise to unlock-fail secure): 5
- 50 volt DC (energise to lock-fail safe): 6

**Other Items:**
- Rim Cylinders: page 28
- Top Keeps, Centre Keeps and Floor Keeps: page 29
- Fixing Packs: page 28
- Tall Door Kits: page 28
Configuration Chart: HS170

Lever Handle

01  INSIDE THUMBTURN
    EXTERNAL KEY
    EXTERNAL HANDLE  INSIDE HANDLE

02  INSIDE THUMBTURN WITH BREAK DOME
    EXTERNAL KEY
    EXTERNAL HANDLE  INSIDE HANDLE

03  INSIDE THUMBTURN
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE  INSIDE HANDLE

04  INSIDE THUMBTURN WITH BREAK DOME
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE  INSIDE HANDLE

05  INSIDE KEY
    INSIDE HANDLE

06  INSIDE AND OUTSIDE KEY OPERATION
    EXTERNAL KEY
    EXTERNAL HANDLE  INSIDE HANDLE

07  INSIDE AND OUTSIDE KEY OPERATION
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE  INSIDE HANDLE

08  INSIDE BLANK
    FOR OUTSIDE OPERATION ONLY
    EXTERNAL HANDLE

09  INSIDE BLANK
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE
    FOR OUTSIDE OPERATION ONLY
The HS180 lock incorporates several functions within the one lock case. The lock can be operated from inside with either a push bar, paddle handle or lever handle with key override from outside. In addition to this you have the facility to either lock the bolts in their retracted position or, should you wish to do so, deadlock the bolts in their thrown position. The lock also features an override function from inside however please note when the double deadlock facility is engaged the override function is disabled. When either the double deadlocking or the hold-back features are engaged it is not possible for the solenoid unlocking device to override any of these functions. The user should be aware that this product does not conform to the mandatory standards BS EN 179 and 1125. We would strongly recommend that you consult with your local fire officer before installing this type of locking device.

**Features**

- Available as a single, 2 or 3 point lock
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled bolt holdback and deadlock facility
- External key entry facility
- High security cylinder guard
- Suitable for timber and steel doors
- Low current consumption (access control version only)

**Options**

- Bolt Position Monitoring
- Lock Position Monitoring
- Optional Aesthetic Rod Covers
- Access Control Function: 12v DC, 24v DC, 50v DC
- Choice of lever handle, paddle handle or push bar internal operator
- Tall door kits available

**Standards**

- Independently cycle tested to in excess of 1,000,000 cycles
- Fire tested to BS EN 1634-1
Dimensions
Ordering Code Matrix and Technical Information

HS180 Surface Mount Lock

Handing & Locking Points (see chart opposite)

<table>
<thead>
<tr>
<th>HS180</th>
<th>1 - 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handing &amp; Locking Points</td>
<td>Single Point</td>
</tr>
<tr>
<td></td>
<td>Single Point</td>
</tr>
<tr>
<td></td>
<td>Two Point</td>
</tr>
<tr>
<td></td>
<td>Three Point</td>
</tr>
<tr>
<td></td>
<td>Three Point</td>
</tr>
<tr>
<td></td>
<td>Three Point</td>
</tr>
</tbody>
</table>

Finish

Regal Silver cover with exposed zinc plated rods & guides 1
Regal Silver paint finish lock & rod covers 2
(n/a on single point lock)

Configuration (cylinders not included)

Internal & external lever handle operation, internal key, external key c/w cylinder guard 04
External paddle handle (push) operation, external key facility and cylinder guard, ext. lever handle & int. key 24
Internal paddle handle (pull) operation, external key facility and cylinder guard, ext. lever handle & int. key 34
Internal panic bar operation, external key facility and cylinder guard, ext. lever handle & int. key 44

Door Thickness

<table>
<thead>
<tr>
<th>44-65mm</th>
<th>66-80mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

The rim cylinder guard requires a minimum door thickness of 50mm.

Rim Cylinder Make

This information is to determine the cylinder guard type only.
To order cylinder(s) see page 28

No cylinder required 0
Union 1
Assa Twin Combi 2
Abyo Protec 3
Yale 4
Kaba Expert 5
Kaba 20 6
Other (please specify make and model) 7

Electric Monitoring

None required 0
Bolt position 1
Lock position 2
Both positions 3

Access Control

None required 0
12 volt DC (energise to unlock-fail secure) 1
12 volt DC (energise to lock-fail safe) 2
24 volt DC (energise to unlock-fail secure) 3
24 volt DC (energise to lock-fail safe) 4
30 volt DC (energise to unlock-fail secure) 5
30 volt DC (energise to lock-fail safe) 6

Other Items:

Top Keeps, Centre Keeps and Floor Keeps - page 29
Fixing Packs - page 28
Tall Door Kits - page 28
Configuration Chart: HS180

Lever Handle

Paddle Handle (Push)

Paddle Handle (Pull)

Push-Bar
Ancillary Items
For HS100 Series Surface Mounted Locks

Rim Cylinders (for use with or without cylinder guard)

<table>
<thead>
<tr>
<th>Cylinder Make</th>
<th>Door Thickness</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Union</td>
<td>Up to 80mm</td>
<td>8-40101</td>
</tr>
<tr>
<td>ASSA Twin Combi</td>
<td>Up to 80mm</td>
<td>8-40201</td>
</tr>
<tr>
<td>ABLOY Protec</td>
<td>Up to 80mm</td>
<td>8-40301</td>
</tr>
<tr>
<td>Yale</td>
<td>Up to 80mm</td>
<td>8-40401</td>
</tr>
<tr>
<td>Kaba Expert</td>
<td>Up to 80mm</td>
<td>8-40501</td>
</tr>
<tr>
<td>Kaba 20 Profile</td>
<td>Up to 80mm</td>
<td>8-40601</td>
</tr>
</tbody>
</table>

Cylinder Guard
Note: Do not order separately if cylinder guard already forms part of the lock configuration.

![External view of Rim Cylinder Guard](L9023-901)

Fixing Packs

<table>
<thead>
<tr>
<th>Description</th>
<th>Door Thickness</th>
<th>Order Code</th>
<th>Door Thickness</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Fixing Pack 2 or 3 Point Lock</td>
<td>44-65mm</td>
<td>L9031-901</td>
<td>66-80mm</td>
<td>L9031-911</td>
</tr>
<tr>
<td>Core Fixing Pack Single Point Lock</td>
<td>44-65mm</td>
<td>L9030-901</td>
<td>66-80mm</td>
<td>L9030-911</td>
</tr>
<tr>
<td>Wood Screw Pack 2 or 3 Point Lock</td>
<td>n/a</td>
<td>L9031-900</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Wood Screw Pack Single Point Lock</td>
<td>n/a</td>
<td>L9030-900</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Machine Screw Pack 2 or 3 Point Lock</td>
<td>n/a</td>
<td>L9031-902</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Machine Screw Pack Single Point Lock</td>
<td>n/a</td>
<td>L9030-902</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Tall Door Kits

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5m Rod Extension</td>
<td>L8655-911</td>
</tr>
<tr>
<td>1.0m Rod Extension</td>
<td>L8655-912</td>
</tr>
</tbody>
</table>
Top, Centre and Floor Keeps

For HS100 Series Surface Mounted Locks

Outward Opening Timber Frame Keeps

L8655-083 Frame Keep
(25mm rebate)

L8655-099 Frame Keep
(12mm rebate)

L9011-009 Latching Trigger Actuation Plate for 2 Point Locking System (Also suitable for steel frames)

L8655-081 Centre Keep
(25mm rebate)

L8655-181 Centre Keep
(12mm rebate)

Show above, left to right:
L9012-901 Outward Opening Adjustable Base Plate
L9012-002 Adjustable Strike Plate (48-65mm door)
L9012-003 Adjustable Strike Plate (63-80mm door)

Inward Opening Timber Frame Keeps

L9011-900 Frame Keep

L9011-901 Centre Keep
(1pt and 3pt lock)
(Single or double door applications)

L9011-902 Top Keep with cover

Steel Door Frame Keeps

L9011-006 Top Keep
(Outward Opening)

L9011-007 Sheet Metal Door Keep
(Inward Opening)

L9011-913 Top Keep with cover
(Inward Opening)

Floor Keeps

L8655-094 Easy Clean Floor Keep

L8655-038 Floor Keep Plate

L9010-001 Floor Keep

L9010-903 Floor Keep (Sprung)
To secure the passive leaf of a double door we have designed a slide bolt that will provide strength and stability against physical attack but visually match the aluminium cover of the main lock module to give a more pleasing appearance. The bolts are available as separate units operated at the top or bottom of the door. The bolts are simply pushed up or down to secure the door using the specially designed shaped handles. When thrown or retracted the bolts are held in position by a positive detent mechanism.

**Features**
- Architecturally pleasing security device to match locking products
- Hardened Steel Bolt
- 32mm Bolt Engagement
- Bolt Diameter: 16mm

The slide bolt has been successfully included in a door system fire tested to BS 476 Pt 22 and further assessed to cover products related to approved Document B.

**Options**
- Extension kit (part L9083-901)
- Fixing pack (part L9031-925)
Dimensions

Ordering

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside</td>
<td>L9081-900</td>
</tr>
<tr>
<td>Inside</td>
<td>L9082-900</td>
</tr>
</tbody>
</table>

Note: For frame and floor keeps see page 29.
HS210 & HS220

Mortice Mounted Emergency/Panic Escape Locks
Operated with either internal lever handle, paddle handle or push bar

The HS210 is designed to provide a mortice mounted lock for emergency/panic exit doors that gives resistance to a greater physical attack threat to the outside of a door. You can choose either an internal lever handle, paddle handle or push bar to suit your operating requirements and to comply with the mandatory physical standards BS EN 179 and BS EN 1125. European standards allow the HS210 to be fitted to fire doors.

The HS220 lock has the same specification as the HS210 but incorporates a special feature to hold the bolts in their retracted position under the control of a key cylinder. This function is activated by simply turning the key towards the door edge when the bolts have been withdrawn and this will keep the bolts retracted until you reinsert the key and turn it in the opposite rotation.

Current standards do not allow the HS220 to be fitted to fire doors, however, this may change in the future.

Features
- Available as a single, 2 or 3 point lock
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled hold back facility operated externally or internally as applicable (HS220 only)
- Suitable for timber and steel doors
- Stainless steel forend and bolt guide plates
- Low current consumption (access control version only)

Options
- Bolt Position Monitoring
- Lock Position Monitoring
- Access Control Function: 12v DC, 24v DC, 50v DC
- Tall door kits available
- External key entry overrides automatic deadlocking
- High security cylinder guard available

Standards
- BS EN 179: 1998 Emergency Exit Devices (lever and paddle handle versions)
- BS EN 1125: 1997 Panic Exit Devices (push bar version)
- CE Marked
- British Government Tested
- Independently cycle tested to in excess of 1,000,000 cycles
- Fire tested to BS EN 1634-1
### Ordering Code Matrix and Technical Information

**HS210 and HS220 Mortice Mount Locks**

<table>
<thead>
<tr>
<th>HS210 or HS220</th>
<th>2 – 2 – 5 – 131 – 1 – 0 – 0 – 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS210</td>
<td>1</td>
</tr>
<tr>
<td>HS220</td>
<td>2</td>
</tr>
</tbody>
</table>

**Handing & Locking Points (see chart opposite)**

| Single Point | 1 |
| Two Point    | 3 |
| Three Point  | 5 |

**Finish**

Brushed stainless steel 1

**Configuration (cylinders not included)**

Internal lever operation only 01
Lever handle both sides 02
As 02 but with external key facility 03
As 03 but with cylinder guard 04
Internal paddle handle operation only 21
Internal paddle handle & external lever 22
As 22 but with external key facility 23
As 23 but with cylinder guard 24
Internal paddle handle operation only (pull) 31
Internal paddle handle operation & external lever (pull) 32
As 32 but with external key facility 33
As 33 but with cylinder guard 34
Internal panic bar operation only 41
Internal panic bar operation & external lever 42
As 42 but with external key facility 43
As 43 but with cylinder guard 44

<table>
<thead>
<tr>
<th>Door Thickness</th>
<th>1 – 2 – 3 – 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-56mm</td>
<td>1</td>
</tr>
<tr>
<td>57-63mm</td>
<td>2</td>
</tr>
<tr>
<td>64-73mm</td>
<td>3</td>
</tr>
<tr>
<td>74-85mm</td>
<td>4</td>
</tr>
</tbody>
</table>

**Europrofile Cylinder Make**

This is to determine the cylinder guard type only.

To order cylinder(s) see page S2

- No cylinder required 0
- Union 1
- Assa Twin Combi 2
- Ablon Protex 3
- Yale 4
- Kaba Expert 5
- Kaba 20 6
- Other (please specify make and model) 7

**Electric Monitoring**

- None required 0
- Bolt position 1
- Lock position 2
- Both positions 3

**Access Control**

- None required 0
- 12 volt DC (energise to unlock/fail secure) 1
- 12 volt DC (energise to lock/fail safe) 2
- 24 volt DC (energise to unlock/fail secure) 3
- 24 volt DC (energise to lock/fail safe) 4
- 50 volt DC (energise to unlock/fail secure) 5
- 50 volt DC (energise to lock/fail safe) 6

**Other Items:**

- Europrofile Cylinders and Cylinder Guards - page S2
- Top Keeps, Centre Keeps and Floor Keeps - page S4
- Fixing Packs - page S5
- Tall Door Kits - page S5

---

**Handing and Locking Chart**

#### Single Point Locking

- **1** ATTACK SIDE
- **2** ATTACK SIDE

#### Two Point Locking

- **3** ATTACK SIDE
- **4** ATTACK SIDE

#### Three Point Locking

- **5** ATTACK SIDE
- **6** ATTACK SIDE

---

**BS EN 1125 - Panic Exit Devices**

The main purpose of the performance requirements of this standard is to give 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 179 - Paddle and Lever Handle**

This European Standard deals with emergency devices designed 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.
Configuration Chart: HS210 and HS220

**Lever Handle**

01 | HS220 ONLY
---|---
INTERNAL HANDLE ONLY

02 | HS220 ONLY
---|---
EXTERNAL HANDLE | INTERNAL HANDLE

03 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL HANDLE

04 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL HANDLE

Classification Codes: HS210 - 37611442A
                     HS220 - 37601442A

**Paddle Handle (Push)**

21 | HS220 ONLY
---|---
INTERNAL PADDLE ONLY

22 | HS220 ONLY
---|---
EXTERNAL HANDLE | INTERNAL PADDLE

23 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL PADDLE

24 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL PADDLE

Classification Codes: HS210 - 37611441B
                     HS220 - 37601441B

**Paddle Handle (Pull)**

31 | HS220 ONLY
---|---
INTERNAL PADDLE ONLY

32 | HS220 ONLY
---|---
EXTERNAL HANDLE | INTERNAL PADDLE

33 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL PADDLE

34 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL PADDLE

**Push-Bar**

41 | HS220 ONLY
---|---
INTERNAL PUSH BAR ONLY

42 | HS220 ONLY
---|---
EXTERNAL HANDLE | INTERNAL PUSH BAR

43 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL PUSH BAR

44 | EXTERNAL KEY
---|---
EXTERNAL HANDLE | INTERNAL PUSH BAR

Classification Codes: HS210 - 37611421A
                     HS220 - 37601421A
The **HS230** lock is designed to allow manual key deadlocking operation from the outside, if required, with a number of internal locking options to cater for different needs. As standard, this lock has an **automatic bolting function** so that the bolts engage when the door is closed allowing you to lock the door from either side manually.

The **HS240** lock has the same manual key deadlocking function as the HS230 but is provided with a **manual bolting operation** requiring physical operation of the lever to throw the bolt(s) into an engaged position.

### Features
- Available as a single, 2 or 3 point lock
- Manual deadlocking function
- 25mm bolt engagement
  - HS230 - bolts automatically
  - HS240 - manual bolt operation
- Suitable for timber and steel doors
- Stainless steel forend and bolt guide plates

### Options
- Bolt Position Monitoring
- Lock Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guard available

### Standards
- Independently cycle tested to in excess of 1,000,000 cycles
- Fire tested to BS EN 1634-1
**Dimensions**

*Note: Images show thumbturn options, with and without break dome.*
### Ordering Code Matrix and Technical Information

#### HS230 and HS240 Mortice Mount Locks

<table>
<thead>
<tr>
<th>HS230 or HS240</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>101</th>
<th>1</th>
<th>0</th>
<th>0</th>
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<td>HS230</td>
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<td></td>
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</table>

**Handing & Locking Points (see chart opposite)**

- Single Point: 1
- Two Point: 2
- Three Point: 3

**Finish**

- Brushed stainless steel: 1

**Configuration (cylinders not included)**

- Internal lever operation only with thumbturn: 01
- Int. lever operation only with thumbturn & deadbolt: 02
- As 01 but with external key facility & external handle: 03
- As 03 but with deadbolt: 04
- As 03 but with cylinder guard: 05
- As 05 but with deadbolt: 06
- As 01 but with internal key facility: 07
- As 07 but with external handle: 08
- As 08 but with external cylinder: 09
- As 08 but with cylinder guard: 10
- External locking facility via rim cylinder: 11
- As 11 but with cylinder guard: 12

**Door Thickness**

- 48-56mm: 1
- 57-63mm: 2
- 64-73mm: 3
- 74-85mm: 4

**Europrofile Cylinder Make**

This information is to determine the cylinder guard type only. To order cylinder(s) see page 52

- No cylinder required: 0
- Union: 1
- Assa Twin Combi: 2
- Abloy Protex: 3
- Yale: 4
- Kaba Expert: 5
- Kaba 20: 6
- Other (please specify make and model): 7

**Electric Monitoring**

- None required: 0
- Bolt position: 1
- Lock position: 2
- Both positions: 3

### Handing and Locking Chart

#### Single Point Locking

<table>
<thead>
<tr>
<th>Attack Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tbody>
</table>

#### Two Point Locking

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

#### Three Point Locking

<table>
<thead>
<tr>
<th>Attack Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

---

**Other Items:**

- Europrofile Cylinders and Cylinder Guards - page 52
- Top Keeps, Centre Keeps and Floor Keeps - page 54
- Fixing Packs - page 53
- Tall Door Kits - page 53
Configuration Chart: HS230 and HS240

Lever Handle

01 | INSIDE THUMBTURN
02 | INSIDE THUMBTURN WITH BREAK DOME
03 | INSIDE THUMBTURN
04 | INSIDE THUMBTURN WITH BREAK DOME
05 | INSIDE THUMBTURN
06 | INSIDE THUMBTURN WITH BREAK DOME
07 | INSIDE KEY
08 | INSIDE KEY
09 | INSIDE AND OUTSIDE KEY OPERATION
10 | INSIDE AND OUTSIDE KEY OPERATION
11 | INSIDE BLANK
12 | INSIDE BLANK
HS250 & HS260

Mortice Mounted Specialised Function Locks
Operated with lever handle

The HS250 features an automatic deadlocking function with automatic bolt throw.

The HS260 lock has automatic deadlocking as the HS250 but is provided with a manual bolt throw operation.

Features
■ Available as a single, 2 or 3 point lock
■ Automatic deadlocking function
■ 25mm bolt engagement
  - HS250 - bolts automatically
  - HS260 - manual bolt operation
■ Stainless steel forend and bolt guide plates
■ Suitable for timber and steel doors

Options
■ Bolt Position Monitoring
■ Lock Position Monitoring
■ Tall door kits available
■ External key entry overrides automatic deadlocking
■ Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
■ High security cylinder guard available

Standards
■ Independently cycle tested to in excess of 1,000,000 cycles
■ Fire tested to BS EN 1634-1
Dimensions

Note: Images show thumbturn options, with and without break dome.
Ordering Code Matrix and Technical Information

HS250 and HS260 Mortice Mount Locks

<table>
<thead>
<tr>
<th>HS250 or HS260</th>
<th>2 – 6 – 5 – 101 – 1 – 0 – 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS250</td>
<td>5</td>
</tr>
<tr>
<td>HS260</td>
<td>6</td>
</tr>
</tbody>
</table>

Handing & Locking Points (see chart opposite)

| Single Point | 1 |
| Two Point    | 3 |
| Three Point  | 4 |
| Three Point  | 5 |
| Three Point  | 6 |

Finish

Brushed stainless steel: 1

Configuration (cylinders not included)

| Internal lever operation only with thumbturn | 01 |
| Int. lever operation only with thumbturn & breakdome | 02 |
| As 01 but with external key facility & external handle | 03 |
| As 02 but with breakdome | 04 |
| As 03 but with cylinder guard | 05 |
| As 04 but with breakdome | 06 |
| As 05 but with internal key facility | 07 |
| As 06 but with external handle and key facility | 08 |
| As 07 but with cylinder guard | 09 |
| External operation only | 10 |
| As 08 but with cylinder guard | 11 |

Door Thickness

| 48-56mm | 1 |
| 57-63mm | 2 |
| 64-73mm | 3 |
| 74-85mm | 4 |

Europrofile Cylinder Make

This information is to determine the cylinder guard type only.

To order cylinder(s) see page 52

- No cylinder required: 0
- Union: 1
- Assa Twin Combi: 2
- Ablay Protec: 3
- Yale: 4
- Kaba Expert: 5
- Kaba 20: 6
- Other (please specify make and model): 7

Electric Monitoring

- None required: 0
- Bolt position: 1
- Lock position: 2
- Both positions: 3

Other Items:

- Europrofile Cylinders and Cylinder Guards - page 52
- Top Keeps, Centre Keeps and Floor Keeps - page 54
- Fixing Packs - page 53
- Tall Door Kits - page 53

Handing and Locking Chart
Configuration Chart: HS250 and HS260

Lever Handle

01  IN Inside Thumbturn
IN Inside Handle

02  IN Inside Thumbturn with Break Dome
IN Inside Handle

03  IN Inside Thumbturn
IN External Handle
IN Inside Handle

04  IN Inside Thumbturn with Break Dome
IN External Handle
IN Inside Handle

05  IN Inside Thumbturn
IN External Handle
IN Inside Handle

06  IN Inside Thumbturn with Break Dome
IN External Key C/W Cylinder Guard
IN External Handle
IN Inside Handle

07  IN Inside Key
IN Inside Handle

08  IN Inside and Outside Key Operation
IN External Handle
IN Inside Handle

09  IN Inside and Outside Key Operation
IN External Key C/W Cylinder Guard
IN External Handle
IN Inside Handle

10  IN Inside Blank
IN External Handle
FOR Outside Operation Only

11  IN Inside Blank
IN External Handle
FOR Outside Operation Only

FIRE
The **HS270** lock has been incorporated into the range to provide a lock for use with *specialised access control* requirements and is available in a number of configurations to meet most applications. As standard the lock has an **automatic deadlocking function** with *automatic bolt throw*. The solenoid actuator is available with 12, 24 or 50 volt DC operation and can be energised to lock (fail-safe if power supply is cut) or powered to unlock (fail-secure).

### Features
- Available as a single, 2 or 3 point lock
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically thrown when door closes
- Access control locking
- Stainless steel forend and bolt guide plates
- Low current consumption (access control version only)
- Suitable for timber and steel doors

### Options
- Bolt Position Monitoring
- Lock Position Monitoring
- 12, 24 or 50v DC solenoid operation
- Available in fail-safe or fail-secure modes
- Tall door kits available
- External key entry overrides automatic deadlocking/access control
- Mechanical deadlock or access control override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guard available

### Standards
- Fire tested to BS EN 1634-1
Note: Images show thumbturn options, with and without break dome.
Ordering Code Matrix and Technical Information

**HS270 Mortice Mount Lock**

**Handing & Locking Points (see chart opposite)**
- Single Point: 1
- Two Point: 2
- Three Point: 3
- Four Point: 4
- Five Point: 5
- Six Point: 6

**Finish**
- Brushed stainless steel: 1

**Configuration (cylinders not included)**
- Internal/external lever, key access, internal thumbturn: 01
- Internal/external lever, key access, external thumbturn and backdrive: 02
- As 01 but with external cylinder guard: 03
- As 02 but with external cylinder guard: 04
- Internal/external lever, key override from inside only: 05
- As 05 but with external key access: 06
- As 06 but with external cylinder guard: 07
- Internal/external lever, external key access, blank inside (no internal key or thumbturn override): 08
- As 08 but with external cylinder guard: 09

**Door Thickness**
- 48-56mm: 1
- 57-63mm: 2
- 64-73mm: 3
- 74-85mm: 4

**Europrofile Cylinder Make**

This information is to determine the cylinder guard type only. To order cylinder(s) see page 52

- No cylinder required: 0
- Union: 1
- Assa Twin Combi: 2
- Abloy Protec: 3
- Yale: 4
- Kaba Expert: 5
- Kaba 20: 6
- Other (please specify make and model): 7

**Electric Monitoring**
- None required: 0
- Bolt position: 1
- Lock position: 2
- Both positions: 3

**Access Control**
- 12 volt DC (energise to unlock-fail secure): 1
- 12 volt DC (energise to lock-fail safe): 2
- 24 volt DC (energise to unlock-fail secure): 3
- 24 volt DC (energise to lock-fail safe): 4
- 50 volt DC (energise to unlock-fail secure): 5
- 50 volt DC (energise to lock-fail safe): 6

**Handing and Locking Chart**

**Single Point Locking**

<table>
<thead>
<tr>
<th>Handing</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Attack Side</td>
</tr>
<tr>
<td>2</td>
<td>Attack Side</td>
</tr>
</tbody>
</table>

**Two Point Locking**

<table>
<thead>
<tr>
<th>Handing</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Attack Side</td>
</tr>
<tr>
<td>4</td>
<td>Attack Side</td>
</tr>
</tbody>
</table>

**Three Point Locking**

<table>
<thead>
<tr>
<th>Handing</th>
<th>Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Attack Side</td>
</tr>
<tr>
<td>6</td>
<td>Attack Side</td>
</tr>
</tbody>
</table>

Other Items:
- Europrofile Cylinders and Cylinder Guards - page 52
- Top Keeps, Centre Keeps and Floor Keeps - page 54
- Fixing Packs - page 53
- Tall Door Kits - page 53
Configuration Chart: HS270

Lever Handle

01  INSIDE THUMBTURN
    EXTERNAL KEY
    EXTERNAL HANDLE  INSIDE HANDLE

02  INSIDE THUMBTURN WITH BREAK DOME
    EXTERNAL KEY
    EXTERNAL HANDLE  INSIDE HANDLE

03  INSIDE THUMBTURN
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE  INSIDE HANDLE

04  INSIDE THUMBTURN WITH BREAK DOME
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE  INSIDE HANDLE

05  INSIDE KEY
    INSIDE HANDLE

06  INSIDE AND OUTSIDE KEY OPERATION
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE  INSIDE HANDLE

07  INSIDE AND OUTSIDE KEY OPERATION
    EXTERNAL KEY C/W CYLINDER GUARD
    EXTERNAL HANDLE  INSIDE HANDLE

08  INSIDE BLANK
    FOR OUTSIDE OPERATION ONLY
    EXTERNAL HANDLE

09  INSIDE BLANK
    EXTERNAL KEY C/W CYLINDER GUARD
    FOR OUTSIDE OPERATION ONLY
    EXTERNAL HANDLE
The HS280 lock incorporates several functions within the one lock case. The lock can be operated from inside with either a push bar, paddle handle or lever handle with key override from outside. In addition to this you have the facility to either lock the bolts in their retracted position or, should you wish to do so, deadlock the bolts in their thrown position. The lock also features an override function from inside however please note when the double deadlock facility is engaged the override function is disabled. When either the double deadlocking or the hold-back features are engaged it is not possible for the solenoid unlocking device to override any of these functions. The user should be aware that this product does not conform to the mandatory standards BS EN 179 and 1125. We would strongly recommend that you consult with your local fire officer before installing this type of locking device.

Features
- Available as a single, 2 or 3 point lock
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled bolt holdback and deadlock facility
- External key entry facility
- High security cylinder guard
- Stainless steel forend and bolt guide plates
- Suitable for timber and steel doors
- Low current consumption (access control version only)

Options
- Bolt Position Monitoring
- Lock Position Monitoring
- Access Control Function: 12v DC, 24v DC, 50v DC
- Choice of lever handle, paddle handle or push bar internal operator
- Tall door kits available

Standards
- Independently cycle tested to in excess of 1,000,000 cycles
- Fire tested to BS EN 1634-1
Dimensions
**Ordering Code Matrix and Technical Information**

**HS280 Mortice Mount Lock**

- **HS280**
- **Handing & Locking Points (see chart opposite)**
  - Single Point: 1
  - Single Point: 2
  - Two Point: 3
  - Three Point: 4
  - Three Point: 5
  - Three Point: 6
- **Finish**
  - Brushed stainless steel: 1
- **Configuration (cylinders not included)**
  - Internal & external lever handle operation, internal key, external key c/w cylinder guard: 04
  - Internal paddle handle (push) operation, external key: 24
  - Facility and cylinder guard, ext. lever handle & int. key: 34
  - Internal panic bar operation, external key: 44
- **Door Thickness**
  - 48-56mm: 1
  - 57-63mm: 2
  - 64-73mm: 3
  - 74-85mm: 4

**Europrofile Cylinder Make**

This information is to determine the cylinder guard type only.

- To order cylinder(s) see page 52
  - No cylinder required: 0
  - Union: 1
  - Assa Twin Combi: 2
  - Abloy Protec: 3
  - Yale: 4
  - Kaba Expert: 5
  - Kaba 20: 6
  - Other (please specify make and model): 7

**Electric Monitoring**

- None required: 0
- Bolt position: 1
- Lock position: 2
- Both positions: 3

**Access Control**

- None required: 0
- 12 volt DC (energise to unlock-fail secure): 1
- 12 volt DC (energise to lock-fail safe): 2
- 24 volt DC (energise to unlock-fail secure): 3
- 24 volt DC (energise to lock-fail safe): 4
- 50 volt DC (energise to unlock-fail secure): 5
- 50 volt DC (energise to lock-fail safe): 6

**Other Items:**
- Europrofile Cylinders and Cylinder Guards - page 52
- Top Keeps, Centre Keeps and Floor Keeps - page 54
- Fixing Packs - page 53
- Tall Door Kits - page 53

---

**Handing and Locking Chart**

<table>
<thead>
<tr>
<th>Single Point Locking</th>
<th>Two Point Locking</th>
<th>Three Point Locking</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

---
Configuration Chart: HS280

Lever Handle

Paddle Handle (Push)

Paddle Handle (Pull)

Push-Bar
## Ancillary Items

*For HS200 Series Mortice Fitted Locks*

### Europrofile Cylinders and Thumbturns

#### External Key/Internal Key (for use with or without cylinder guard)

<table>
<thead>
<tr>
<th>Cylinder Make</th>
<th>Overall Length</th>
<th>Door Thickness</th>
<th>Overall Length</th>
<th>Door Thickness</th>
<th>Overall Length</th>
<th>Door Thickness</th>
<th>Overall Length</th>
<th>Door Thickness</th>
</tr>
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<tbody>
<tr>
<td>Union</td>
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<td>65-74mm</td>
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<tr>
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<td>71-81mm</td>
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<tr>
<td>ABLOY Protec</td>
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<td>48-56mm</td>
<td>74mm</td>
<td>57-65mm</td>
<td>84mm</td>
<td>66-75mm</td>
<td>94mm</td>
<td>76-85mm</td>
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<tr>
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</table>

#### Key/Thumbturn (for use with or without cylinder guard)

<table>
<thead>
<tr>
<th>Cylinder Make</th>
<th>Overall Length</th>
<th>Door Thickness</th>
<th>Overall Length</th>
<th>Door Thickness</th>
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<tr>
<td>ASSA Twin Combi</td>
<td>61mm</td>
<td>52-62mm</td>
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<td>63-71mm</td>
<td>81mm</td>
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<tr>
<td>ABLOY Protec</td>
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<td>48-56mm</td>
<td>70mm</td>
<td>57-65mm</td>
<td>84mm</td>
<td>66-75mm</td>
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#### External Key Only (for use with or without cylinder guard)

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<th>Cylinder Make</th>
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<th>Door Thickness</th>
<th>Overall Length</th>
<th>Door Thickness</th>
<th>Overall Length</th>
<th>Door Thickness</th>
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<td>45mm</td>
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<td>70-77mm</td>
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<td>8-50623</td>
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**Note:** All cylinders identified in blue text are stock items. All others are special order items. Union and Yale Cylinder Thumbturns highlighted in red cannot be used with L9020-100. For inside thumbturn only (with or without break-dome) please see price list.
Cylinder Guards

Note: Do not order separately if cylinder guard already forms part of the lock configuration.

L9020-100
Mortice Cylinder Guard

L9020-200
Cylinder Guard (Outside only)

L9020-300
Thumbtum Cylinder Guard

Europrofile Escutcheons

L9020-400-S-6
6mm Thick Bolt-Through Europrofile Escutcheon

L9020-400-S-8
8mm Thick Bolt-Through Europrofile Escutcheon

Fixing Packs

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Wood Screw Pack</td>
<td>L9031-903</td>
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<tr>
<td>Machine Screw Pack</td>
<td>L9031-904</td>
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Tall Door Kits

<table>
<thead>
<tr>
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<tr>
<td>0.5m Rod Extension</td>
<td>L8655-921</td>
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<tr>
<td>1.0m Rod Extension</td>
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Top, Centre and Floor Keeps
For HS200 Series Mortice Mounted Locks

Outward/Inward Opening Timber/Steel Frame Keeps

L8655-038  Top Keep Plate

L8655-094 Easy Clean Floor Keep
L8655-038 Floor Keep Plate
L8655-052-F X=50-60mm
L8655-152-F X=61-70mm
L8655-153-F X=71-80mm

L8655-038  Top Keep Plate

L9010-010 Mortice Adjustable Strike Base Plate
L9010-011 Mortice Adjustable Strike Plate (48-68mm door)
L9010-012 Mortice Adjustable Strike Plate (68-90mm door)

Floor Keeps

L8655-094 Easy Clean Floor Keep
L8655-038 Floor Keep Plate
L9010-001 Floor Keep
L9010-903 Floor Keep (Sprung)
www.adamsrite.co.uk/hslocking
ASSA ABLOY is the world’s leading manufacturer and supplier of locking solutions, meeting tough end-user demands for safety, security and user friendliness. The Group has some 30,000 employees and annual sales of about EUR 3 billion.