

[Securing the people
who secure the country]

GLOBAL LOCKING SOLUTIONS



SURELOCK MCGILL GROUP

The Surelock McGill Group are a global leader. Intensive research and development underpins the design and manufacture of high security locking solutions for a demanding, and highly sensitive market.

Our emphasis on testing has provided our products with international accreditation for both security and life-safety. This is why we are the world's leading specialist in protection against physical and surreptitious attack, ballistic and blast, together with fire and acoustic solutions.

Our superbly-designed and robust products are due in part to many years of supporting offshore oil and gas exploitation. The requirements for the offshore environment means that our products are designed and tested for longevity and high resistance to corrosion.

Our locking systems and associated door furniture provide the widest range of products to meet the often-conflicting requirements of ensuring both security and life-safety. We provide comprehensive solutions for a wide range of customers, including:

- Embassies, government, and defence establishments
- Electricity, nuclear, gas and water facilities
- Telecommunications & data centres
- Petrochemical & offshore exploration
- Air and sea ports, plus rail infrastructure
- Secure hospitals, prisons, health and scientific laboratories
- Heritage sites & museums
- Finance, cash-in-transit, retail and commercial buildings
- Natural hazards, seismic shock, and tornados

Surelock McGill Group products have been specified to secure the highest profile locations globally, protecting people and national infrastructures around the world for nearly 60 years.

THE 'SURELOCK' & 'MICO' BRANDS

SURELOCK

Solutions for all requirements of high-risk protection, offering the greatest choice of combined accreditations to meet the most demanding of international standards in both security and life-safety. Maximising on the choice of operational sequencing and products tested to 1,000,000 cycles to ensure performance and longevity is fully assured. Manufactured in 316 stainless steel to meet the harshest of environments.

MICO

High performance security locking systems to meet the most popular of commercial applications requiring accredited security levels. A restricted choice of operational selections enable Mico products to be simple to select, fast to install and delivered with a short lead time. Manufactured in stainless steel for harsh environments and durability.

We have a knowledgeable technical and sales team who are always available to help with the selection of the correct product to suit your specific requirements.



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who secure the country]



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SINGLE-POINT v MULTI-POINT LOCKING

Consideration when choosing a locking system should be made for the required security level & complexity of threat, ease of installation, plus a choice of entry and exit methods.

In this catalogue there are straight forward systems for simple security protection, to sophisticated systems that protect against high level threats ranging from outright terrorist attack to surreptitious incursions.

SINGLE-POINT

Single-Point high performance locks, stainless steel construction suitable for a variety of hostile environments. Simple to fit and offering high security protection. Suitable for doors and gates, with a choice of entry and exit solutions, plus enhancements to suit your individual operational requirements.

MULTI-POINT

Multi-Point high performance locks, stainless steel construction suitable for a variety of hostile environments. Normally surface mounted, with concealed (mortice) fitted options available. Meets base, enhanced and high security level risks. Suitable for protection against physical, blast, ballistic and acoustic threats. Multiple bolts spread the load, securing the opening in several places. Ideal for doors, gates, hatches and windows, with a choice of entry and exit solutions.

SURFACE MOUNTED v MORTICE FITTED

We provide both Surface and Mortice (concealed) systems. Surface mounted systems are easier to fit and service, while maintaining the fullest strength of door construction. Mortice (concealed) fitted systems are ideal when aesthetic considerations are paramount.





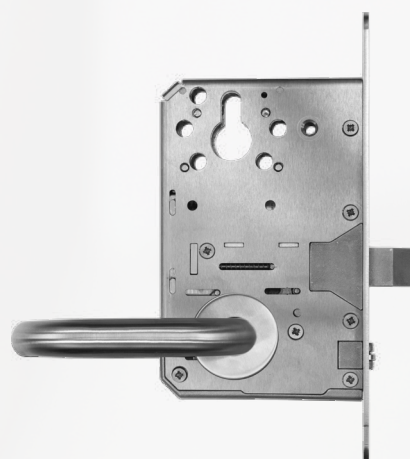
**SURFACE MOUNTED
MULTI-POINT**



**MORTICE FITTED
MULTI-POINT**



**SURFACE MOUNTED
SINGLE-POINT**



**MORTICE FITTED
SINGLE-POINT**



SINGLE-POINT LOCKING SYSTEMS

| | SINGLE-POINT LOCKS | | | | | | | | |
|----------------------------|--------------------|------------|----------------|--------------|------------------|--------|---------|--------|---------------------------------|
| | ABRYLL RANGE | TYNE RANGE | STIRLING RANGE | MODULA RANGE | MSR SINGLE-POINT | LODDON | RIMLOCK | RIBBLE | |
| PAGE | 08 | 12 | 16 | 20 | 24 | 26 | 28 | 30 | INSTALLATION |
| | • | | • | | • | • | • | • | SURFACE MOUNTED |
| | | • | | • | | | | | MORTICE FITTED |
| ENTRY FUNCTION (OPTIONS) | | | | | | | | | |
| | | | • | | | • | • | • | KEY |
| | • | • | • | • | | | | | KEY & LEVER HANDLE / KNOB |
| | • | • | • | • | | | | | ACCESS CONTROL |
| | | | • | | | | | | HANDS FREE MOTORISED |
| | • | | | | | | | | COMBINATION LOCK & / OR LEVER |
| | • | • | • | | • | | • | | PADLOCKABLE / LOCKABLE OPERATOR |
| EXIT FUNCTION (OPTIONS) | | | | | | | | | |
| | • | • | • | • | • | | | | PANIC BAR (BLADE / TUBE) |
| | • | • | • | • | • | | | | EMERGENCY PUSH PAD |
| | • | • | • | • | • | | | | EMERGENCY LEVER HANDLE |
| | • | • | • | • | | | | | KEY & LEVER |
| | | | | | | • | | | PULL LEVER / SLIDE BAR |
| | | | • | | | | • | | THUMBTURN |
| | • | • | • | • | | | | | THUMBTURN & LEVER |
| | • | • | • | • | | | | | BREAKGLASS DOME & LEVER |
| | • | • | • | • | | | | | ACCESS CONTROL |
| | | | • | | | | | | HANDS FREE MOTORISED |
| | | | | | | | | | THUMBTURN WITH SLIDE BAR |
| | | | | | | | | | BREAKGLASS DOME & SLIDE BAR |
| LOCK FUNCTION (OPTIONS) | | | | | | | | | |
| | • | • | • | • | | • | • | | AUTO DEADLOCKING |
| | • | • | • | • | | | • | • | MANUAL DEADLOCKING |
| | • | • | • | • | • | | • | • | NO DEADLOCKING |
| BOLTING FUNCTION (OPTIONS) | | | | | | | | | |
| | • | • | • | • | • | • | • | | AUTO BOLTING |
| | • | | • | | | | • | • | MANUAL BOLTING |
| PERFORMANCE | | | | | | | | | |
| | • | • | • | • | | | | | EN 1125 |
| | • | • | • | • | | | | | EN 179 |
| | | | • | | | | | | UL 305 |
| | • | | • | • | | | • | | EN 1634-1 * |
| | | | | | | | | | UL 10C * |
| | | | • | • | | | | | CERTIFIRE |
| | • | • | • | • | • | • | • | | LPS 1175 * |
| | | | | | | | | | FEBR * |
| | | | | | | | | | EN 1627 * |
| | | | • | | | | | | STS 202 * |
| | • | • | • | • | | • | | | SRB * |
| | | | | • | | | | | PAS 24 |
| | | | | | | | | | EN 1522 * |
| | | | | | | | | | ISO 16933 * |
| | • | • | • | • | | | • | | EN 1670 |
| | | | | | | | | | TESTING |
| | | | | | | | | | LIFE SAFETY |
| | | | | | | | | | FIRE |
| | | | | | | | | | SECURITY |
| | | | | | | | | | BALLISTIC |
| | | | | | | | | | BLAST |
| | | | | | | | | | CORROSION |
| | | | | | | | | | SEISMIC |

* - When tested on selected doorsets



ABRYLL RANGE

The Abryll range is a high performance single-point, surface mounted locking system, tested and certified to multiple international standards against forced entry, blast, ballistic and fire protection. Abryll has been engineered to provide multiple entry & exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes key, access control or combination lock with lever handle. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. The robust design and stainless steel construction assists in protecting your facilities and provides a high level of durability.



FEATURES

- Surface mounted for maximum strength
- 30 mm (1 1/8") x 20 mm (3/4") bolt x 37 mm (1 1/2") throw
- Stainless steel construction for corrosion resistance and durability
- Tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality

OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Further enhancements are available

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|-------|-----|-----|-----|-----|-----|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-------------|----------------|----------------|-----------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | | EN 179 | | FB6 | | | EN 1634-1 | EN 1670:GR4 |
| 10 MIN | A10 | B10 | C10 | D10 | E10 | F10 | | | | 30 MINS | RC4 | BR2 | | | FB5 | | | EN 1670:GR3 | | | 500K | |
| 5 MIN | | | | | | | | | | 15 MINS | RC3 | | | | | FB4 | EXV 15 | | EN 1670:GR2 | | | 200K |
| 3 MIN | | | | | | | | | | 5 MINS | RC2 | BR1 | | | FB3 | | | CERTIFIRE | EN 1670:GR1 | | | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | | |

ENTRY FUNCTION (OPTIONS)

| | |
|-------------------------------|---|
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| ACCESS CONTROL | Access control to unlock & lever handle to release |
| COMBINATION LOCK | Combination lock & lever handle to release |
| LOCKABLE OPERATOR | External key lockable lever handle/hasp for panic exits |

EXIT FUNCTION (OPTIONS)

| | |
|--|--|
| PANIC BAR | Life-safety panic exit |
| EMERGENCY – PUSH PAD | Single operation exit |
| EMERGENCY – LEVER HANDLE | Single operation exit |
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| THUMBTURN & LEVER HANDLE | Thumbturn to unlock & lever handle to release |
| BREAK DOME & LEVER HANDLE | Break dome & thumbturn to unlock & lever handle to release |
| ACCESS CONTROL & LEVER HANDLE | Access control to unlock & lever handle to release |

LOCK FUNCTION (OPTIONS)

| | |
|---------------------------|--|
| AUTO DEADLOCKING | Automatic deadlocking upon door closure (Storeroom function) |
| MANUAL DEADLOCKING | Manual deadlocking upon door closure (Classroom function) |
| NO DEADLOCKING | Panic & emergency exit only |

BOLT FUNCTION (OPTIONS)

| | |
|-----------------------|-------------------------------------|
| AUTO BOLTING | Automatic bolting upon door closure |
| MANUAL BOLTING | Manual bolting |



PANIC AND EMERGENCY



KEY & LEVER HANDLE

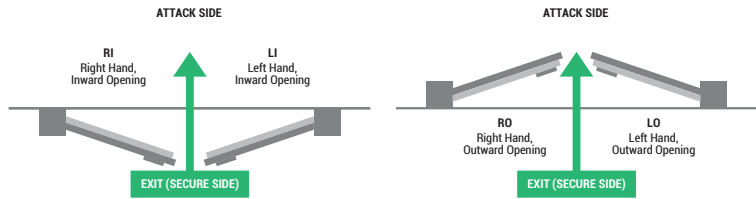


ACCESS CONTROL

SELF CODING SYSTEM

The Abryll (AB) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: AB1A-AMLS-AA-LMLS



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-------|-----------------|---|-------------------|-------------------------------------|-----------------|--------------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| AB | Abryll | 1 | X | None | AA | Auto bolting / Auto deadlocking | X | None |
| BOLT DIRECTION | | | K | Key | AM | Auto bolting / Manual deadlocking | K | Key |
| A | Horizontal bolt | | H | Lockable handle (Key / Padlock) | AB | Auto bolting only | A | Access control |
| | | | A | Access control | MA | Manual bolting / Auto deadlocking | T | Thumbturn |
| | | | C | Combination | MM | Manual bolting / Manual deadlocking | L | Single Handed / Panic - Emergency |
| | | | BOLT RETRACTION | | MB | Manual bolting only | BOLT RETRACTION | |
| | | | X | None | | | X | None |
| | | | M | Manual | | | M | Manual |
| | | | OPERATOR | | | | OPERATOR | |
| | | | XX | None | | | XX | None |
| | | | LS | Lever handle (Tubular straight) | | | LS | Lever handle (Tubular straight) |
| | | | HE | Lever handle (H/D Tubular ergonomic) | | | HE | Lever handle (H/D Tubular ergonomic) |
| | | | LH | Lockable handle | | | PB | Panic bar (Blade aluminium) |
| | | | UE | Profile lever handle (Ergonomic) | | | PP | Push pad |
| | | | UH | Profile lever handle (Ergonomic clutched) | | | PE | Panic bar (Tubular st/st) |

EXAMPLE BOLT DIRECTIONS

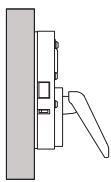
See coding chart above for reference



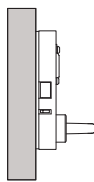
No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

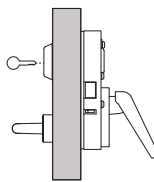
See coding chart above for reference



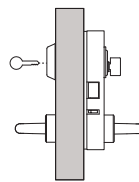
Entry (XXXX)
Exit (LMPB)



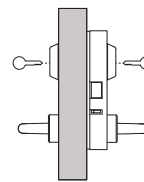
Entry (XXXX)
Exit (LMLS)



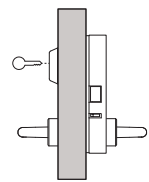
Entry (KMLS)
Exit (LMPB)



Entry (KMLS)
Exit (TMLS)



Entry (KMLS)
Exit (KMLS)

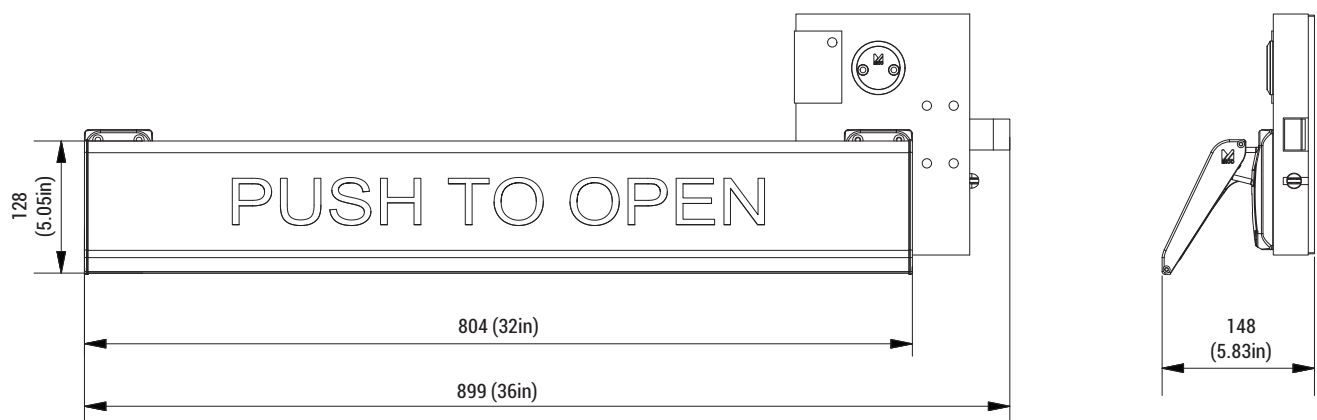
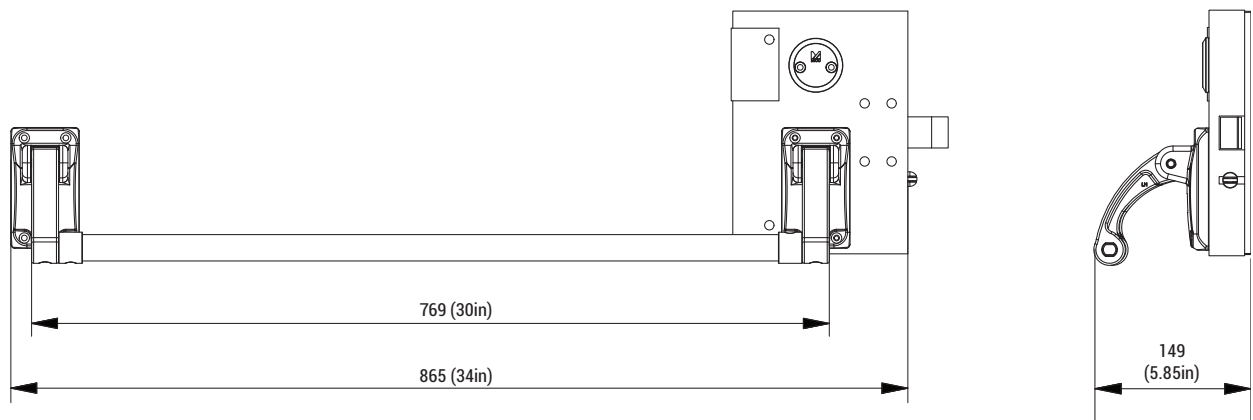
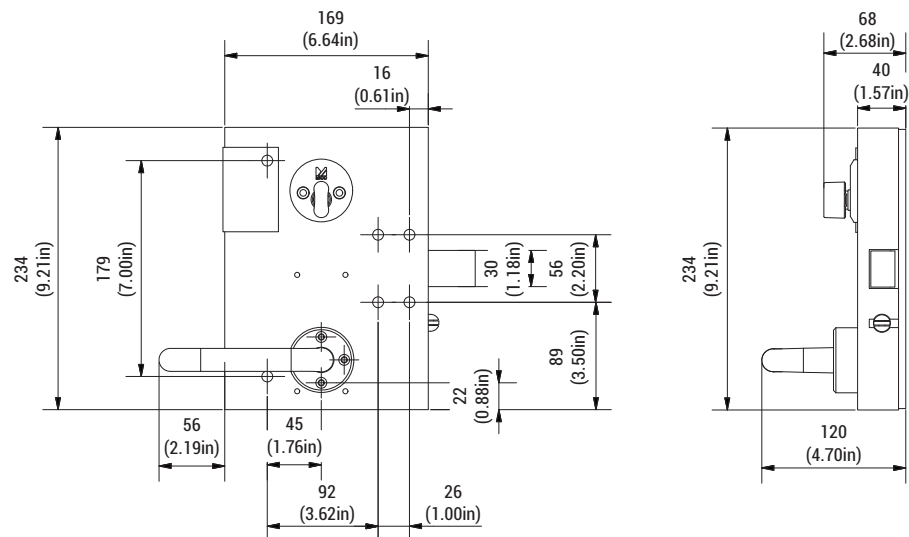


Entry (AMLS)
Exit (AMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

ABRYLL ACCESS CONTROL POWER CONSUMPTION

| VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|---------|--------------------------------|---------------------------|--------------------------|
| 12 V | 6 W | 0.5 A | 12 V 1.0 A |
| 24 V | 6 W | 0.25 A | 24 V 1.0 A |



The Tyne range is a high performance single-point locking system, with an extra deep backset for mortice fitting. Tested and certified to multiple international standards against forced entry, blast, and fire protection. Tyne has been engineered to suit multi-rebated doorsets. Multiple entry & exit methods make the range incredibly versatile and suitable for most applications.

Entry includes key, or access control with lever handle. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. Manufactured in 316 stainless steel for hostile environments and durability.



FEATURES

- 127 mm (5") backset
- Self-handing and bi-directional
- Available for mortice fitting
- 40 mm (1 1/2") x 15 mm (5/8") bolt x 25 mm (1") throw
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality

OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Further enhancements are available

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|---------|----|----|---|---|---|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-------------|------|-------------|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 | 500K | |
| 10 MIN | | | | | | | | | | 45 MINS | | RC4 | | | FB5 | EN 1670:GR3 | CERTIFIRE | | EN 1670:GR2 | | 200K | | |
| 5 MIN | A5 | B5 | C5 | | | | | | | 30 MINS | | RC3 | | | BR1 | UL 305 | | | FB3 | | | | EN 1670:GR1 |
| 3 MIN | | | | | | | | | | 15 MINS | | RC2 | | | | | | | | | | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | | | | | | | |

INSTALLATION

SURFACE MOUNTED

For maximum strength

ENTRY FUNCTION (OPTIONS)

KEY & LEVER HANDLE

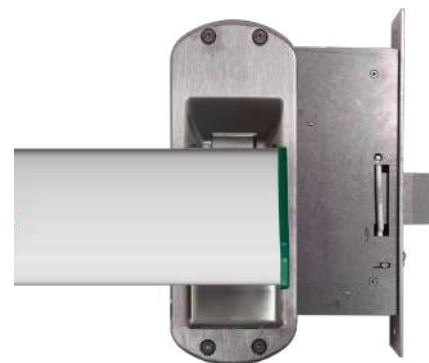
Key to unlock & lever handle to release

ACCESS CONTROL

Access control to unlock & lever handle to release

LOCKABLE OPERATOR

External key lockable lever handle/hasp for panic exits



PANIC AND EMERGENCY EXIT

EXIT FUNCTION (OPTIONS)

PANIC BAR

Life-safety panic exit

EMERGENCY – PUSH PAD

Single operation exit

EMERGENCY – LEVER HANDLE

Single operation exit

KEY & LEVER HANDLE

Key to unlock & lever handle to release

THUMBTURN & LEVER HANDLE

Thumbturn to unlock & lever handle to release

BREAK DOME & LEVER HANDLE

Break dome & thumbturn to unlock & lever handle to release



KEY & LEVER HANDLE

ACCESS CONTROL & LEVER HANDLE

Access control to unlock & lever handle to release

LOCK FUNCTION (OPTIONS)

AUTO DEADLOCKING

Automatic deadlocking upon door closure (Storeroom function)

MANUAL DEADLOCKING

Manual deadlocking upon door closure (Classroom function)

NO DEADLOCKING

Panic & emergency exit only



ACCESS CONTROL

BOLT FUNCTION (OPTIONS)

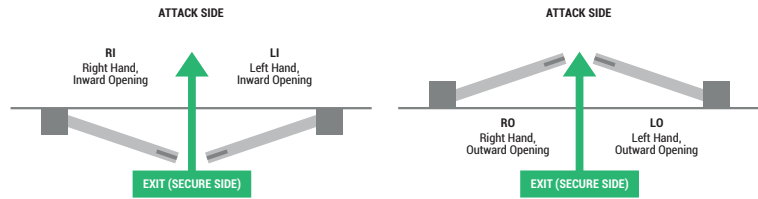
AUTO BOLTING

Automatic bolting upon door closure

SELF CODING SYSTEM

The Tyne (TY) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: TY1A-AMLS-AA-TMLS



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-------|---------------------------|--|-------------------|-------------------------------------|-----------------------------------|----------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| TY | Tyne | 1 | X | None | AA | Auto bolting / Auto deadlocking | X | None |
| BOLT DIRECTION | | | K | Key | AM | Auto bolting / Manual deadlocking | K | Key |
| A | Horizontal bolt | | A | Access control | MA | Manual bolting / Auto deadlocking | A | Access control |
| | | | BOLT RETRACTION | | MM | Manual bolting / Manual deadlocking | T | Thumbturn |
| | | | X | None | | L | Single Handed / Panic - Emergency | |
| | | | M | Manual | | BOLT RETRACTION | | |
| | | | OPERATOR | | | X | None | |
| | | | XX | None | | M | Manual | |
| | | | LS | Lever handle (Tubular straight) | | OPERATOR | | |
| | | | US | Profile lever handle (Straight) | | XX | None | |
| | | | UC | Profile lever handle (Straight clutched) | | LS | Lever handle (Tubular straight) | |
| | | | | | | US | Profile lever handle (Straight) | |
| | | | | | PB | Panic bar (Blade aluminium) | | |
| | | PP | Push pad | | | | | |
| | | PE | Panic bar (Tubular st/st) | | | | | |

EXAMPLE BOLT DIRECTIONS

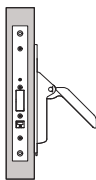
See coding chart above for reference



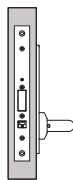
No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

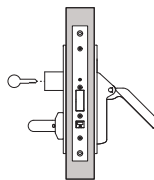
See coding chart above for reference



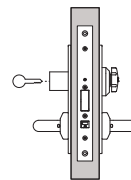
Entry (XXXX)
Exit (LMPB)



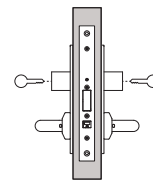
Entry (XXXX)
Exit (LMLS)



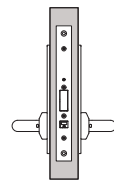
Entry (KMLS)
Exit (LMPB)



Entry (KMLS)
Exit (TMLS)



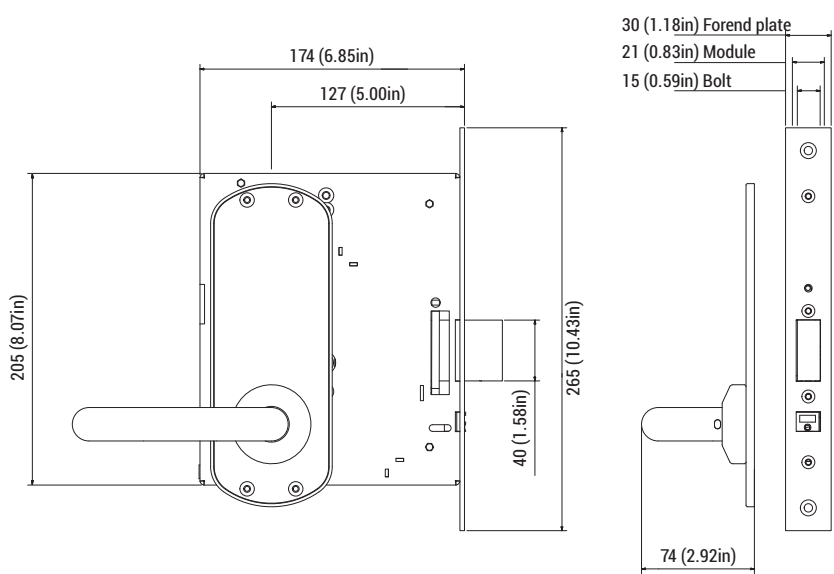
Entry (KMLS)
Exit (KMLS)



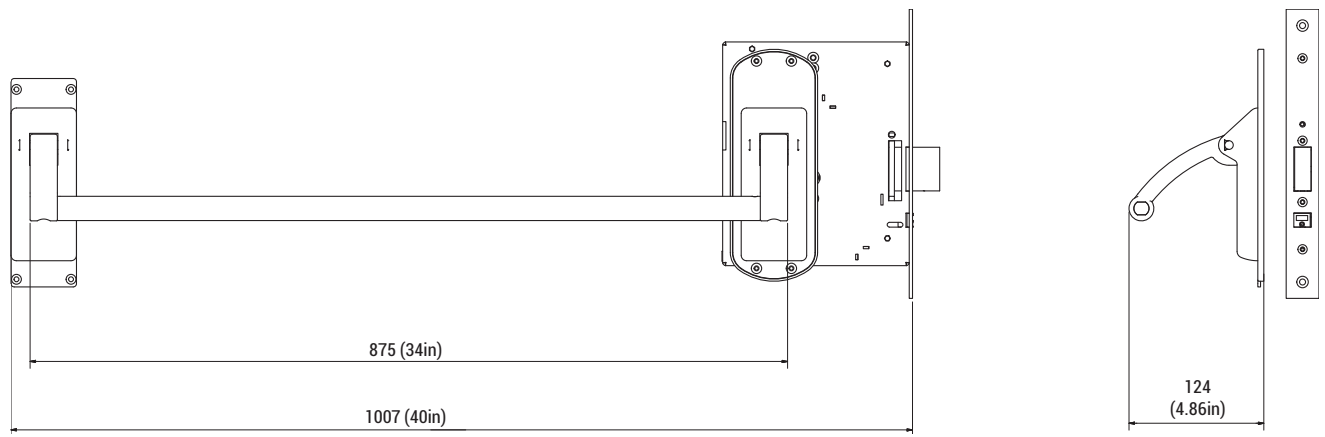
Entry (AMLS)
Exit (AMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

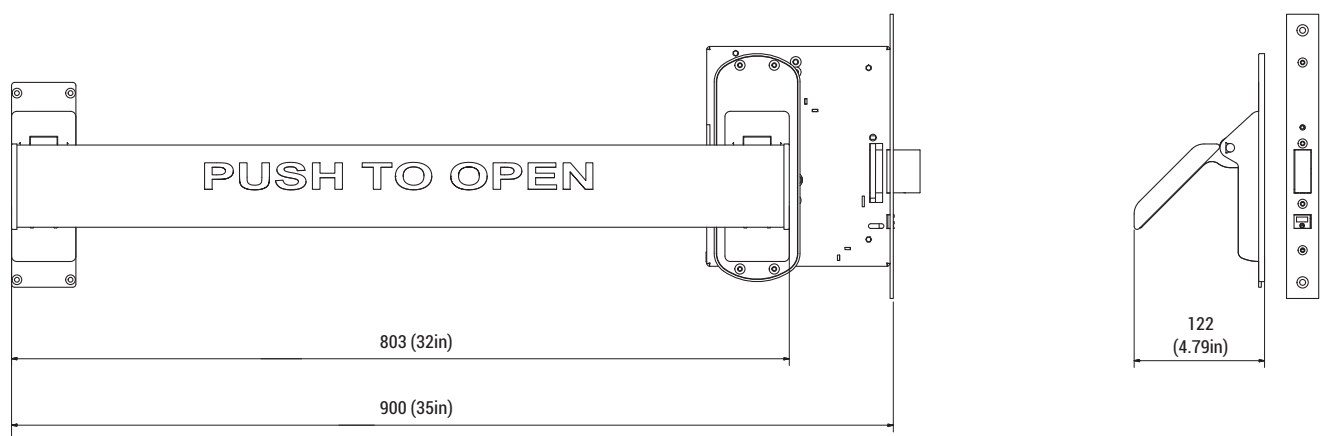
TYNE TECHNICAL DRAWINGS



TYNE PANIC & EMERGENCY EXIT



TYNE PANIC BAR (TUBE)



TYNE PANIC BAR (BLADE)

The Stirling range is a compact high performance single-point, surface mounted locking system, tested and certified to multiple international standards against forced entry, blast, ballistic and fire protection. Stirling has been engineered to provide multiple entry & exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes single key operation to unlock and release, alternatively key or access control with lever handle, or complete hands-free motorised remote operation. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. Manufactured in 316 stainless steel for hostile environments and durability.



FEATURES

- Surface mounted for maximum strength
- 19 mm (3/4") square bolt x 25 mm (1") throw
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Cycle tested to over 1,000,000 cycles
- To suit rim and euro-profile cylinders (order cylinder separately)
- Steel template provides for fast installation

BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality
- Easy retrofit, to upgrade existing doors

OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key entry with no lever handle required
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Sandwich through-bolt fixing kits for easier retro-fit installation
- Bolt-through loadplate for cylinder guard installation

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|-----|-----|-----|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-----------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | | | | | | | | | | | | | | H |
| 20 MIN | | | | | | | | | UP TO SR4 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB5 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | A10 | B10 | C10 | D10 | | | | | | 45 MINS | | RC4 | | | FB6 | EN 1670:GR3 | 200K | | | | |
| 5 MIN | | | | | | | | | | 30 MINS | | RC3 | | | FB4 | EN 1670:GR2 | | | | | |
| 3 MIN | | | | | | | | | | 15 MINS | | RC2 | | | FB3 | CERTIFIRE | EN 1670:GR1 | | | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | | | | | |

ENTRY FUNCTION (OPTIONS)

| | |
|-------------------------------|---|
| KEY DRIVEN | Key to unlock & release |
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| ACCESS CONTROL | Access control to unlock & lever handle to release |
| MOTORISED | Single remote activation to unlock & release |
| LOCKABLE OPERATOR | External key lockable lever handle/hasp for panic exits |



KEY & LEVER HANDLE

EXIT FUNCTION (OPTIONS)

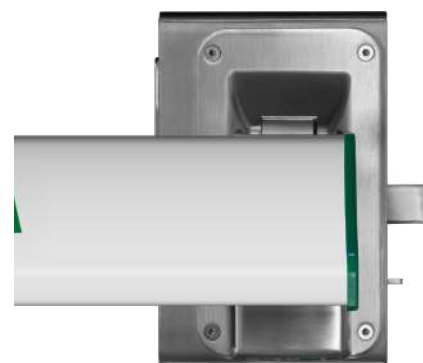
| | |
|--|--|
| PANIC BAR | Life-safety panic exit |
| EMERGENCY – PUSH PAD | Single operation exit |
| EMERGENCY – LEVER HANDLE | Single operation exit |
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| THUMBTURN & LEVER HANDLE | Thumbturn to unlock & lever handle to release |
| BREAK DOME & LEVER HANDLE | Break dome & thumbturn to unlock & lever handle to release |
| ACCESS CONTROL & LEVER HANDLE | Access control to unlock & lever handle to release |
| MOTORISED | Single remote activation to unlock & release |



MOTORISED

LOCK FUNCTION (OPTIONS)

| | |
|---------------------------|--|
| AUTO DEADLOCKING | Automatic deadlocking upon door closure (Storeroom function) |
| MANUAL DEADLOCKING | Manual deadlocking upon door closure (Classroom function) |
| NO DEADLOCKING | Panic & emergency exit only |



PANIC & EMERGENCY EXIT

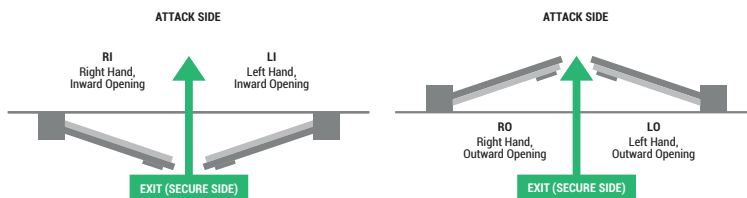
BOLT FUNCTION (OPTIONS)

| | |
|---------------------|-------------------------------------|
| AUTO BOLTING | Automatic bolting upon door closure |
|---------------------|-------------------------------------|

SELF CODING SYSTEM

The Stirling (ST) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: ST1A-AMLS-AA-LMLS



| PRODUCT | | | ENTRY | | SECURING | | EXIT | | | |
|----------------|-----------------|-------|-----------------|---------------------------------|---------------------------|-----------------------------------|-----------|-----------------------------------|-----------------|-----------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | | | |
| ST | Stirling | 1 | X | None | AA | Auto bolting / Auto deadlocking | X | None | | |
| BOLT DIRECTION | | | K | Key | AM | Auto bolting / Manual deadlocking | K | Key | | |
| A | Horizontal bolt | | A | Access control | AB | Auto bolting only | A | Access control | | |
| | | | BOLT RETRACTION | | | | T | Thumbturn | | |
| | | | X | None | | | L | Single Handed / Panic - Emergency | | |
| | | | M | | | | Manual | | BOLT RETRACTION | |
| | | | P | Powered (Electric) | | | X | None | | |
| | | | OPERATOR | | | | M | Manual | | |
| | | | XX | None | | | P | Powered (Electric) | | |
| | | | LS | Lever handle (Tubular straight) | | | OPERATOR | | | |
| | | | US | Profile lever handle (Straight) | | | LS | Lever handle (Tubular straight) | | |
| | | | KK | Key | | | US | Profile lever handle (Straight) | | |
| | | | | | | | | | PB | Panic bar (Blade aluminium) |
| | | | | PP | Push pad | | | | | |
| | | | | PE | Panic bar (Tubular st/st) | | | | | |

EXAMPLE BOLT DIRECTIONS

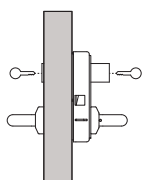
See coding chart above for reference



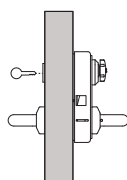
No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

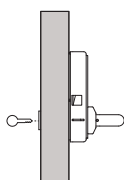
See coding chart above for reference



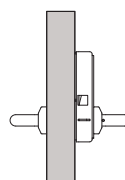
Entry (KMLS)
Exit (KMLS)



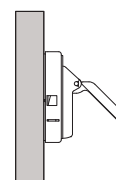
Entry (KMLS)
Exit (TMLS)



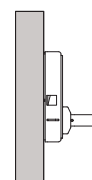
Entry (XMKK)
Exit (LMLS)



Entry (AMLS)
Exit (AMLS)



Entry (APXX)
Exit (LMPB)



Entry (APXX)
Exit (LMLS)

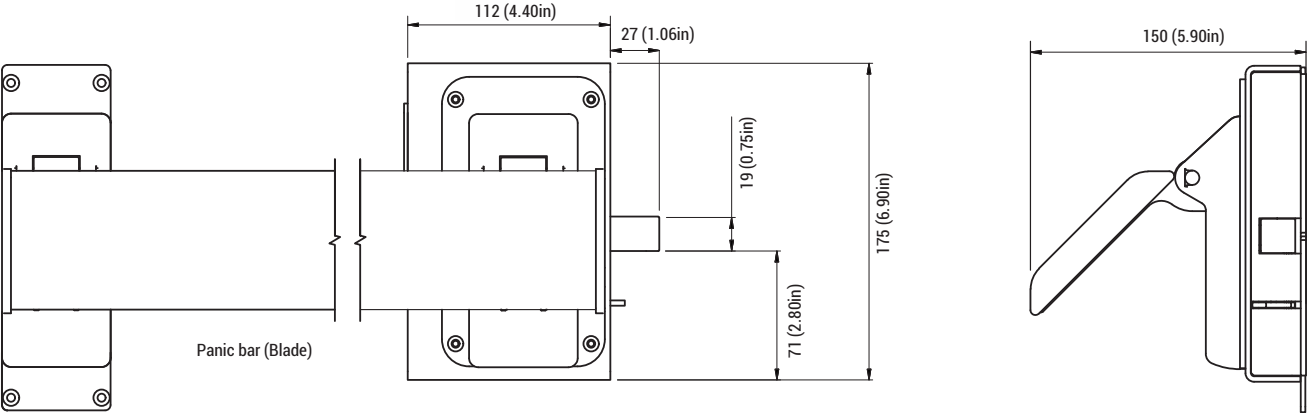
For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

STIRLING ACCESS CONTROL & MOTORISED POWER CONSUMPTION

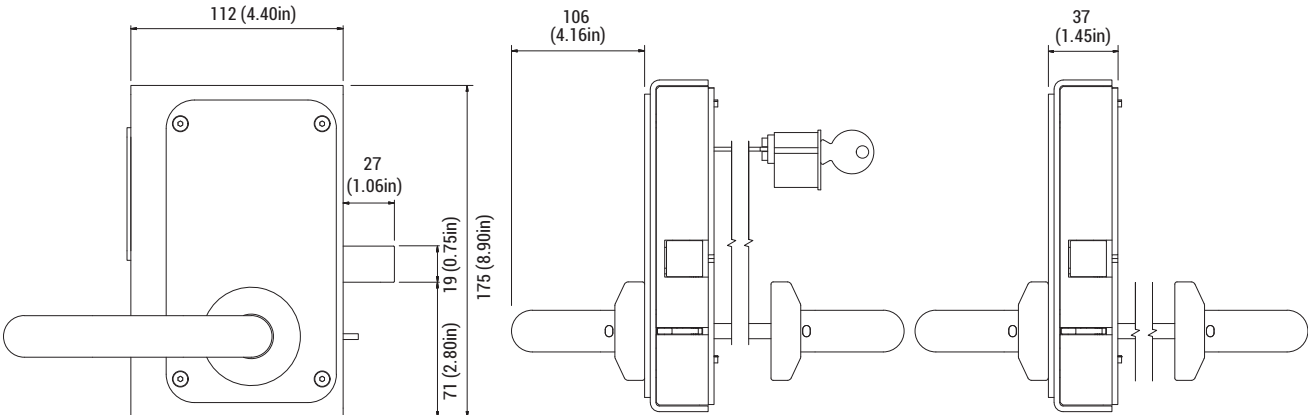
| VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|---------|--------------------------------|---------------------------|--------------------------|
| 12 V | 7 W | 0.6 A | 12 V 1.0 A |
| 24 V | 7 W | 0.3 A | 24 V 0.5 A |

| VOLTAGE | POWER CONSUMPTION PER MOTOR | CURRENT DRAW PER MOTOR | RECOMMENDED POWER SUPPLY |
|---------|-----------------------------|------------------------|--|
| 24 V | 48 W | 2 A | 24 V 2 A (110V to 240V ac) Power supply provided with lock |

STIRLING TECHNICAL DRAWINGS

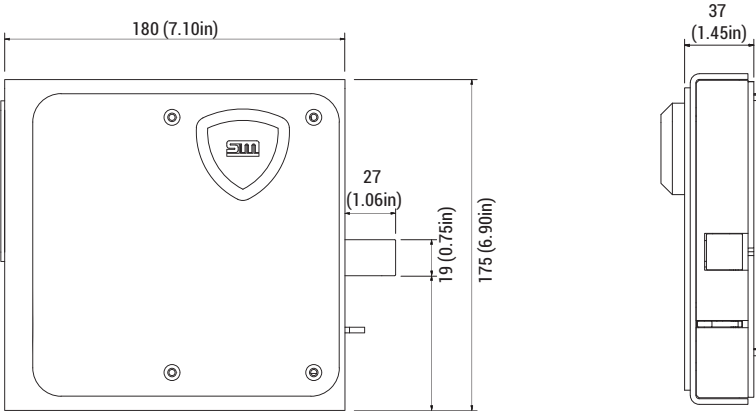


STIRLING PANIC & EMERGENCY EXIT



STIRLING KEY DRIVEN

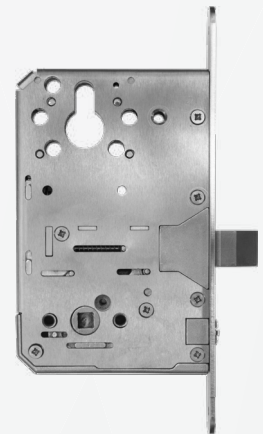
STIRLING KEY / ACCESS CONTROL & LEVER HANDLE



STIRLING MOTORISED

The Modula is a cost-effective high security single-point mortice lock that completely changes the performance expectations of standard 70mm backset locks. Modula has been engineered to provide multiple entry & exit methods, making it incredibly versatile and suitable for most applications.

Entry includes key, or access control with lever handle. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. The robust design and stainless steel construction of Modula will assist in protecting your facility and provide durability.



FEATURES

- Unique design utilises partial latching prior to deadlocking
- Mortice mounted & retrofittable with selected Assa Abloy locksets
- 70 mm (2 3/4") backset
- 20 mm (3/4") x 15 mm (5/8") bolt x 25 mm (1") throw
- Stainless steel construction for corrosion resistance and durability
- Tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality

OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to enable exit
- Further enhancements are available

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|---------|----|---|---|---|---|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-------------|-------------|--|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | SR 1-8 | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR2 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | |
| 15 MIN | | | | | | | | | | 45 MINS | RC4 | | | | | EN 179 | | FB6 | | | EN 1634-1 | EN 1670:GR4 | |
| 10 MIN | | | | | | | | | | 30 MINS | RC3 | BR2 | | | | | FB5 | | | | EN 1670:GR3 | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC2 | | | | | | FB4 | | | | EN 1670:GR2 | | |
| 3 MIN | A3 | B3 | | | | | | | | 5 MINS | RC1 | BR1 | | | | | UL 305 | FB3 | | | CERTIFIRE | EN 1670:GR1 | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | | | |

ENTRY FUNCTION (OPTIONS)

KEY & LEVER HANDLE

Key to unlock & lever handle to release

ACCESS CONTROL

Access control to unlock & lever handle to release

EXIT FUNCTION (OPTIONS)

PANIC BAR

Life-safety panic exit

EMERGENCY – PUSH PAD

Single operation exit

EMERGENCY – LEVER HANDLE

Single operation exit

KEY & LEVER HANDLE

Key to unlock & lever handle to release

THUMBTURN & LEVER HANDLE

Thumbturn to unlock & lever handle to release

BREAK DOME & LEVER HANDLE

Break dome & thumbturn to unlock & lever handle to release

ACCESS CONTROL & LEVER HANDLE

Access control to unlock & lever handle to release

LOCK FUNCTION (OPTIONS)

AUTO DEADLOCKING

Automatic deadlocking upon door closure
(Storeroom function)

MANUAL DEADLOCKING

Manual deadlocking upon door closure
(Classroom function)

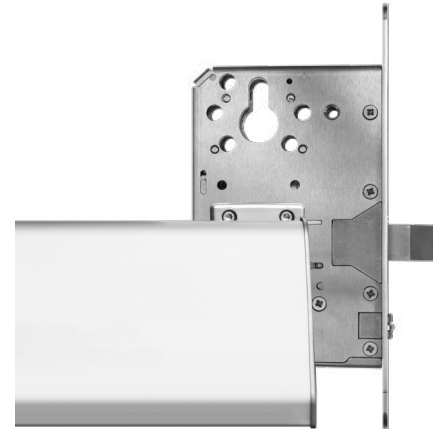
NO DEADLOCKING

Panic & emergency exit only

BOLT FUNCTION (OPTIONS)

AUTO BOLTING

Automatic bolting upon door closure



PANIC & EMERGENCY EXIT



KEY & LEVER HANDLE

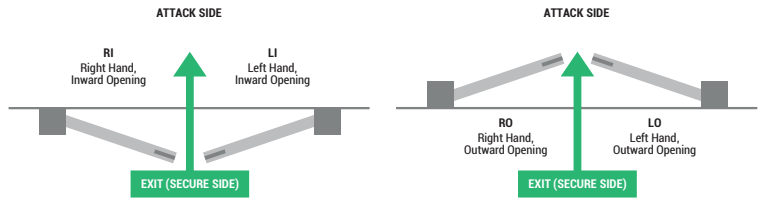


ACCESS CONTROL

SELF CODING SYSTEM

The Modula (MA) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: MA1A-KMLS-AM-KMLS



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-------|---------------------------|---------------------------------|-------------------|-----------------------------------|-----------------|-----------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| MA | Modula | 1 | X | None | AA | Auto bolting / Auto deadlocking | X | None |
| BOLT DIRECTION | | | K | Key | AM | Auto bolting / Manual deadlocking | K | Key |
| A | Horizontal bolt | | A | Access control | AB | Auto bolting only | A | Access control |
| | | | BOLT RETRACTION | | | | T | Thumbturn |
| | | | X | None | | | L | Single Handed / Panic - Emergency |
| | | | M | Manual | | | BOLT RETRACTION | |
| | | | OPERATOR | | | | X | None |
| | | | XX | None | | | M | Manual |
| | | | LS | Lever handle (Tubular straight) | | | OPERATOR | |
| | | | US | Profile lever handle (Straight) | | | XX | None |
| | | | | | | | LS | Lever handle (Tubular straight) |
| | | | | | | | US | Profile lever handle (Straight) |
| | | | | | | | PB | Panic bar (Blade aluminium) |
| | | PP | Push pad | | | | | |
| | | PE | Panic bar (Tubular st/st) | | | | | |

EXAMPLE BOLT DIRECTIONS

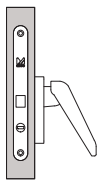
See coding chart above for reference



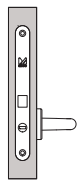
No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

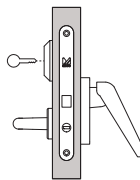
See coding chart above for reference



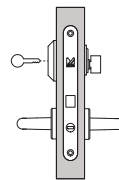
Entry (XXXX)
Exit (LMPB)



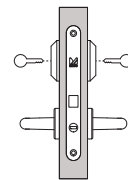
Entry (XXXX)
Exit (LMLS)



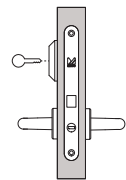
Entry (KMLS)
Exit (LMPB)



Entry (KMLS)
Exit (TMLS)



Entry (KMLS)
Exit (KMLS)



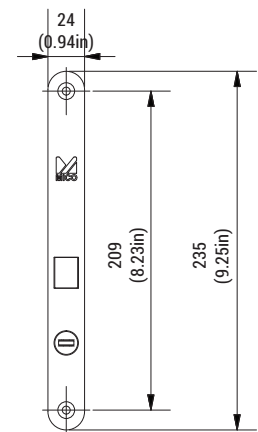
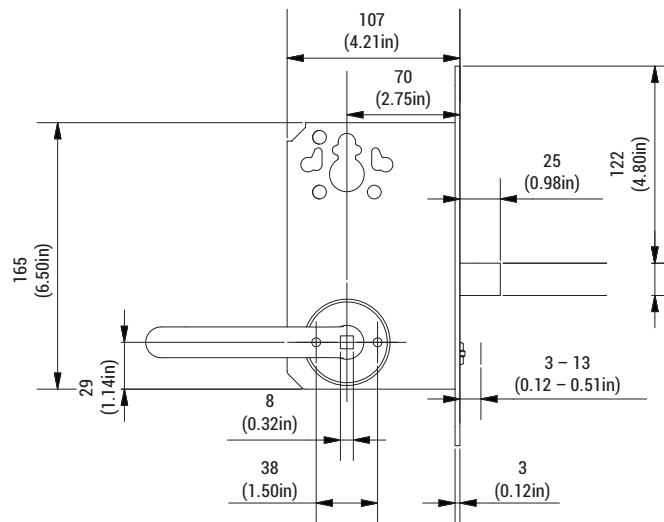
Entry (KMLS)
Exit (LMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

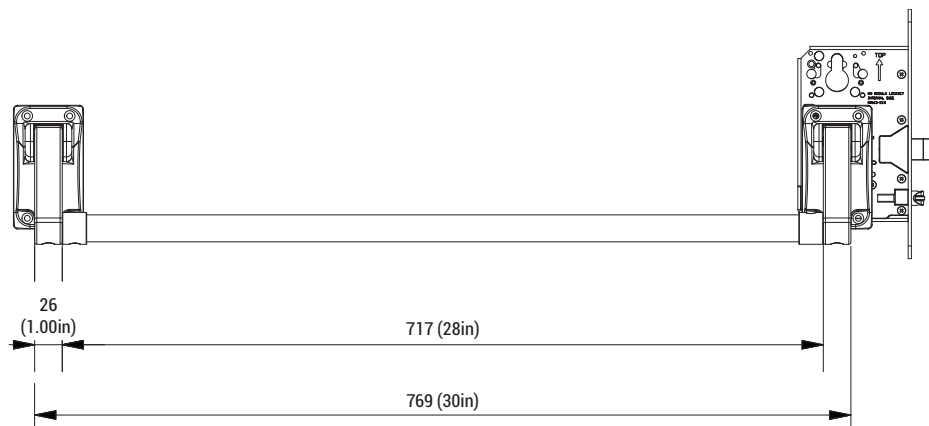
MODULA ACCESS CONTROL POWER CONSUMPTION

| VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|---------|--------------------------------|---------------------------|--------------------------|
| 12 V | 10 W | 0.8 A | 12 V 1.5 A |

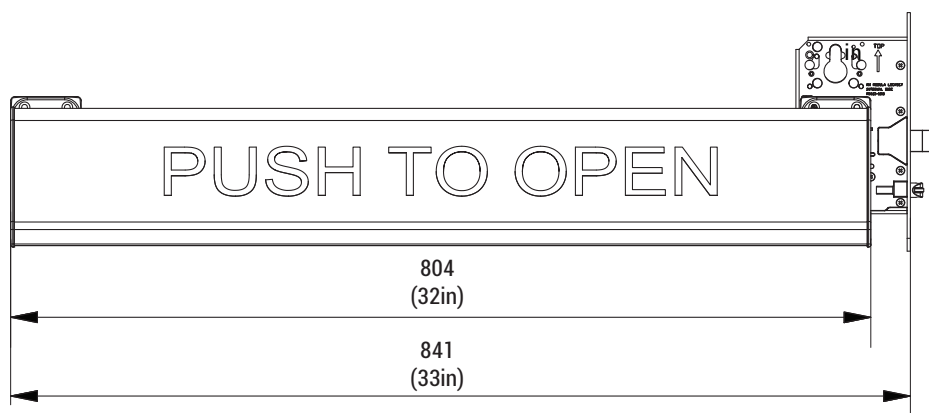
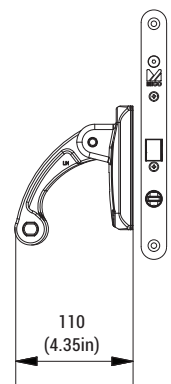
MODULA TECHNICAL DRAWINGS



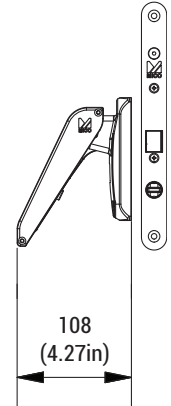
MODULA PANIC & EMERGENCY EXIT



MODULA PANIC BAR



MODULA PANIC BAR (BLADE)





MSR SINGLE-POINT

The MSR is a cost-effective single-point bolting device, designed for commercial doors securing high-value sites.

Single motion release by lever handle or panic bar, making this device suitable to secure exit doors and provide life-safety egress. An optional external trim provides key entry for authorized personnel. The robust design and stainless steel construction of 'MSR' will assist in protecting your facility and provide durability.



FEATURES

- Surface mounted for maximum strength
- 20 mm (3/4") x 16.5 mm (5/8") central bolt x 20 mm (3/4") throw
- Stainless steel construction for corrosion resistance and durability
- Tested to over 500,000 cycles

BENEFITS

- Cost-effective
- Door automatically secured against physical attack
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service

OPTIONAL ENHANCEMENTS

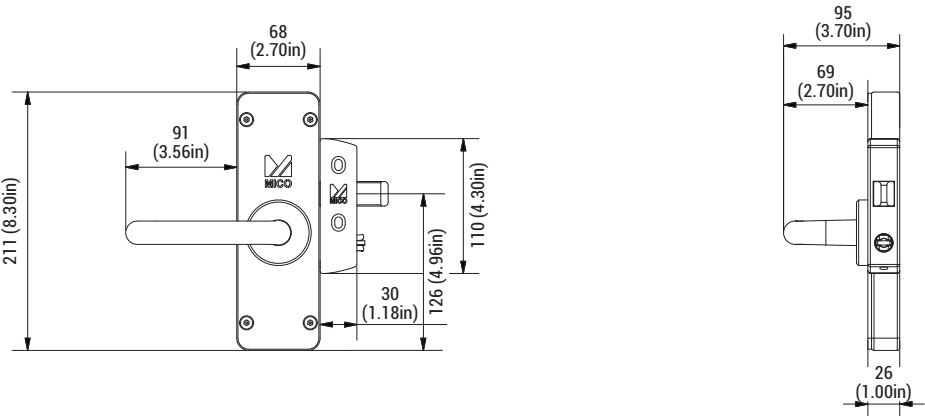
- Monitoring of bolt status
- External lockable trim to provide key entry for authorized personnel
- Further enhancements are available

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|----|---|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-----------|-------------|----------------|----------------|-----------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR2 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | BR2 | EN 179 | | FB6 | EXV 15 | | EN 1634-1 |
| 10 MIN | | | | | | | | | | 30 MINS | RC4 | FB5 | | | | EN 1670:GR3 | | | | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC3 | FB4 | | | | EN 1670:GR2 | CERTIFIRE | EN 1670:GR1 | | | 200K |
| 3 MIN | A3 | B3 | | | | | | | | 5 MINS | RC2 | BR1 | | | UL 305 | FB3 | | | | | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | |

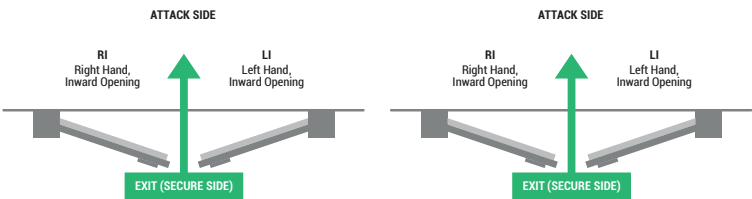
MSR SINGLE-POINT TECHNICAL DRAWING



SELF CODING SYSTEM

The MSR (MS) has simple ordering codes that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: MS1A-XXXX-AB-LMPB



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-------|-----------------|-------------------------------|-------------------|---------------------------|-----------------|-----------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| MS | MSR | 1 | X | None | AB | Auto bolting only | X | None |
| BOLT DIRECTION | | | H | Lockable handle (Key/Padlock) | | | L | Single Handed / Panic - Emergency |
| A | Horizontal bolt | | BOLT RETRACTION | | | | BOLT RETRACTION | |
| | | | X | None | | | M | Manual |
| | | | M | Manual | | | OPERATOR | |
| | | | OPERATOR | | | | LS | Lever handle (Tubular straight) |
| | | | XX | None | | | US | Profile lever handle (Straight) |
| | | | LH | Lockable handle | | | PB | Panic bar (Blade aluminium) |
| | | | | | PP | Push pad | | |
| | | | | | PE | Panic bar (Tubular st/st) | | |

EXAMPLE BOLT DIRECTIONS

See coding chart above for reference



No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (XXXX)
Exit (LMPB)

Entry (XXXX)
Exit (LMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The Loddon is a heavy duty rim deadlock with external key entry and single operation egress for inward opening doors. Through-bolt mounting of the lock body, passing through the door into the external cylinder housing, provides for maximum strength and security.

Compatible with key cylinders from all leading manufacturers. Ideal for new doors, or as a security upgrade to exiting doors and includes keeps. The robust design and stainless steel construction of Loddon will assist in protecting your facility and provide durability.



FEATURES

- Surface mounted for maximum strength
- Automatic securement upon door closure
- 25 mm (1") x 11mm (3/8") bolt x 25 mm (1") throw
- Retrofit/Security upgrade of Ingersoll rim locks, includes stainless steel escutcheon plate to cover previous lock mountings
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 1,000,000 cycles
- To suit rim cylinders (order cylinder separately)

BENEFITS

- Door automatically secured in closed position
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Popular retrofit, to upgrade existing doors

OPTIONAL ENHANCEMENTS

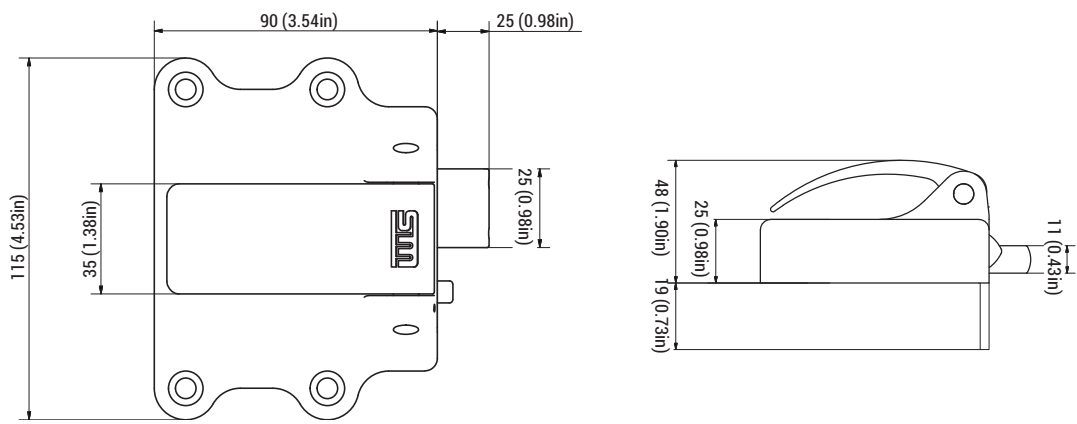
- Ingersoll cylinder profile housing & protector (accepts KIK type cylinder from leading manufacturers)
- Bolt dogging (manual hold-back facility)
- External lockdown facility
- Cylinder guard protection available from our tested and accredited range

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|-------|----|---|---|---|---|---|---|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|---------|-----------|----------------|----------------|-------------|-------------|
| ISSUE 8 | | | | | | | | | | | | | | | | | | | | | ISSUE 7 | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | SR 1-8 | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR2 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB5 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 | 500K |
| 10 MIN | | | | | | | | | | 45 MINS | | RC4 | | | | | EN 1125 | | | | FB6 | |
| 5 MIN | | | | | | | | | | 30 MINS | | RC3 | | | UL 305 | FB4 | | FB3 | CERTIFIRE | | | |
| 3 MIN | A3 | B3 | | | | | | | | 15 MINS | | RC2 | | | | | BR1 | | | | UL 305 | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | BR1 | | | UL 305 | FB4 | | FB3 | CERTIFIRE | | | EN 1670:GR1 |

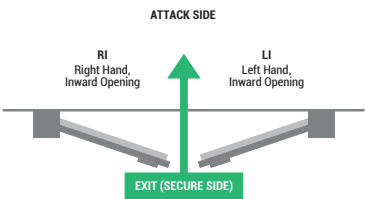
LODDON TECHNICAL DRAWING



SELF CODING SYSTEM

The Loddon (LO) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

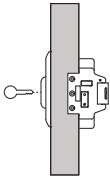
EXAMPLE ORDER CODE: LO1A-KMKK-AA-LMPL



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-----------------|-----------|-----|-------------------|---------------------------------|------------|-----------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| LO | Loddon | 1 | K | Key | AA | Auto bolting / Auto deadlocking | L | Single Handed / Panic - Emergency |
| BOLT DIRECTION | | BOLT RETRACTION | | | | BOLT RETRACTION | | |
| A | Horizontal bolt | M | Manual | | | M | Manual | |
| | | OPERATOR | | | | OPERATOR | | |
| | | KK | Key | | | PL | Pull lever | |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (KMKK)
Exit (LMPL)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



The Rimlock is the most popular key entry device for medium security applications. The Rimlock is self-handed, bi-directional, compatible with rim cylinders from all leading manufacturers and providing latching and auto-deadlocking upon door closure.

Exit by thumbturn, or optional key control. The robust design and stainless steel construction of the Rimlock will assist in protecting your facility and provide durability.



FEATURES

- Surface mounted for maximum strength
- Self-handing and bi-directional
- Automatic securement upon door closure
- 25 mm (1") x 16 mm (5/8") bolt x 25 mm (1") throw
- Stainless steel construction for corrosion resistance and durability
- Tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Choice to manually or automatically secure upon door closure
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Supplied with mounting plate and outward opening strike plate as standard
- Popular retrofit, to upgrade existing doors

OPTIONAL ENHANCEMENTS

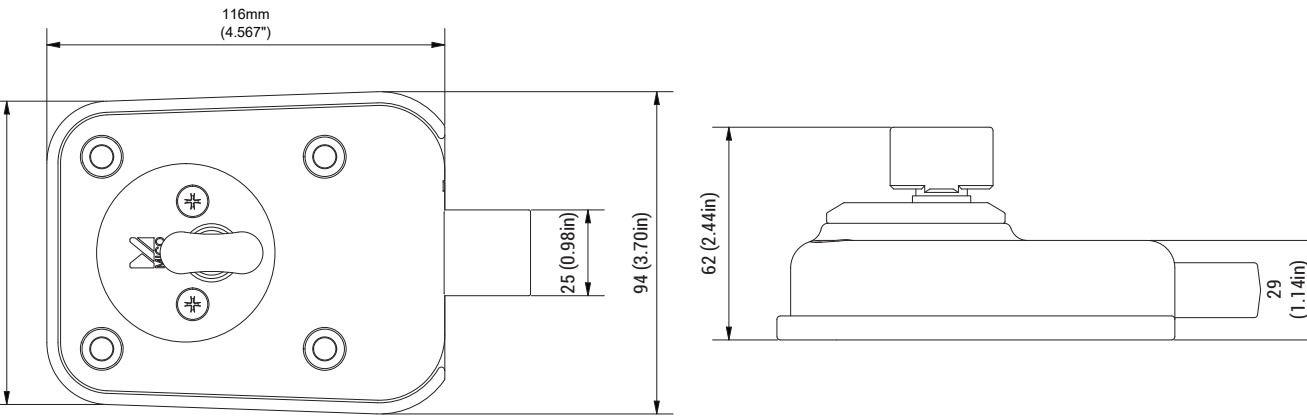
- Monitoring of lock status
- Breakdome over thumbturn
- Bolt dogging (manual hold-back facility)
- Cylinder guard protection available from our tested and accredited range

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|---------|----|---|---|---|---|---|---------|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-------------|-------------|----------------|-----------|--------|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR2 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | |
| 15 MIN | | | | | | | | 45 MINS | | RC4 | BR2 | EN 179 | | | FB6 | EN 1634-1 | | EN 1670:GR4 | 500K | | | |
| 10 MIN | | | | | | | | 30 MINS | | RC3 | BR1 | UL 305 | | | FB3 | EXV 15 | CERTIFIRE | EN 1670:GR3 | 200K | | | |
| 5 MIN | | | | | | | | 15 MINS | | RC2 | | | | | | | | EN 1670:GR2 | | | | |
| 3 MIN | A3 | B3 | | | | | | 5 MINS | | RC1 | | | | | | | | EN 1670:GR1 | | | | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | | |

RIMLOCK TECHNICAL DRAWING



SELF CODING SYSTEM

The Rimlock (RM) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: RM1A-KMKK-AA-TMTN

| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-------|-----------------|--------|-------------------|-------------------------------------|-----------------|-----------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| RM | Rimlock | 1 | K | Key | AA | Auto bolting / Auto deadlocking | K | Key |
| BOLT DIRECTION | | | BOLT RETRACTION | | MM | Manual bolting / Manual deadlocking | T | Thumbturn |
| A | Horizontal bolt | | M | Manual | | | BOLT RETRACTION | |
| | | | OPERATOR | | | | M | Manual |
| | | | KK | Key | | | OPERATOR | |
| | | | | | | | KK | Key |
| | | | | | | | TN | Thumbturn |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (KMKK)
Exit (TMTN)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The Ribble is an anti-tamper cabinet lock, providing a high level of protection against surreptitious breach. Dual mounting footprint provides for retrofit of UK and International combination locks.

Accommodates selected profile cylinders from a choice of major manufacturers. Cylinders are keyed to a unique differ and each with two keys. A choice of cylinder protection guards are available to suit cabinet dimensions and cylinder projection.



FEATURES

- Surface mounted for maximum strength
- Dual UK & International combination lock retrofit mounting
- 25 mm (1") x 9 mm (3/8") bolt x 10 mm (3/8") throw
- Tested to over 1,000,000 cycles
- To suit profile cylinder (order cylinder separately)

BENEFITS

- Key retained in unlocked position
- Engineered for longevity and trouble-free service
- Popular retrofit, replacing existing combination locks

OPTIONAL ENHANCEMENTS

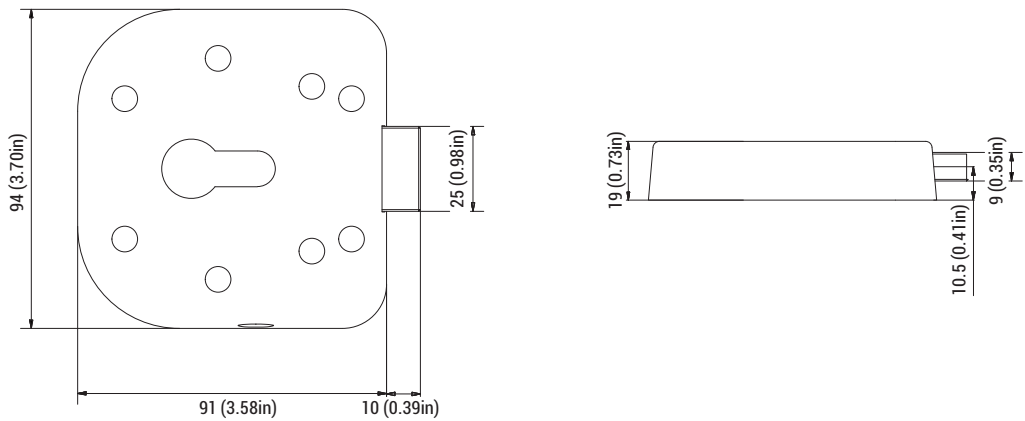
- Choice of cylinder projection guards
- Double sided key/key or key/thumbturn cylinders available (order separately)
- Deadlock status monitoring

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|---|---|---|---|---|---|---|------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-----------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | | | | | | | | | | | | | | ISSUE 7 |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | NONE | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | | | | | | | | | | 45 MINS | | RC4 | | | FB5 | EN 1670:GR3 | 200K | | | | |
| 5 MIN | | | | | | | | | | 30 MINS | | RC3 | | | UL 305 | FB4 | | CERTIFIRE | EN 1670:GR2 | | |
| 3 MIN | | | | | | | | | | 15 MINS | | RC2 | | | | FB3 | EN 1670:GR1 | | | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | BR1 | | | | | | | | | |

RIBBLE TECHNICAL DRAWING



SELF CODING SYSTEM

The Ribble (RL) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: RB1A-KMCK-MM-XXXX

| PRODUCT | | | ENTRY | | SECURING | | EXIT | | |
|----------------|-----------------|-------|-----------------|--------|-------------------|-------------------------------------|-----------------|-----------|------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | | |
| RB | Ribble | 1 | K | Key | MM | Manual bolting / Manual deadlocking | X | None | |
| BOLT DIRECTION | | | BOLT RETRACTION | | | | K | Key | |
| A | Horizontal bolt | | M | Manual | | | T | Thumbturn | |
| | | | OPERATOR | | | | BOLT RETRACTION | | |
| | | | KK | | | | Key | X | None |
| | | | | | | | M | Manual | |
| | | | | | | | OPERATOR | | |
| | | | | | | | XX | None | |
| | | | | | | | KK | Key | |
| | | | | | | | TN | Thumbturn | |
| | | | | | | | | | |

EXAMPLE BOLT DIRECTIONS

See coding chart above for reference

No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference

Entry (KMCK)
Exit (XXXX)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



MULTI-POINT SYSTEMS

| | MULTI-POINT LOCKS | SLIMLINE RANGE | MSR MULTI-POINT | ZEUS | CONISTON | |
|------|-------------------|----------------|-----------------|------|---------------------------------|-------------|
| PAGE | 34 | 40 | 42 | 44 | INSTALLATION | |
| | • | • | • | • | SURFACE MOUNTED | |
| | • | | | | MORTICE FITTED | |
| | | | | | ENTRY FUNCTION (OPTIONS) | |
| | | | | | KEY | |
| | • | | | | KEY & LEVER HANDLE / KNOB | |
| | • | | | | ACCESS CONTROL | |
| | • | | | | HANDS FREE MOTORISED | |
| | • | | | | COMBINATION LOCK & / OR LEVER | |
| | • | • | • | • | PADLOCKABLE / LOCKABLE OPERATOR | |
| | | | | | EXIT FUNCTION (OPTIONS) | |
| | • | • | • | • | PANIC BAR (BLADE / TUBE) | |
| | • | • | | | EMERGENCY PUSH PAD | |
| | • | • | | | EMERGENCY LEVER HANDLE | |
| | • | | | | KEY & LEVER | |
| | | | | • | PULL LEVER / SLIDE BAR | |
| | | | | | THUMBTURN | |
| | • | | | | THUMBTURN & LEVER | |
| | • | | | | BREAKGLASS DOME & LEVER | |
| | • | | | | ACCESS CONTROL | |
| | • | | | | HANDS FREE MOTORISED | |
| | | | | | THUMBTURN WITH SLIDE BAR | |
| | | | | | BREAKGLASS DOME & SLIDE BAR | |
| | | | | | LOCK FUNCTION (OPTIONS) | |
| | • | | | | AUTO DEADLOCKING | |
| | • | | | | MANUAL DEADLOCKING | |
| | • | • | • | • | NO DEADLOCKING | |
| | | | | | BOLTING FUNCTION (OPTIONS) | |
| | • | • | • | • | AUTO BOLTING | |
| | • | | | • | MANUAL BOLTING | |
| | | | | | PERFORMANCE | |
| | • | • | • | | EN 1125 | LIFE SAFETY |
| | • | • | • | | EN 179 | |
| | • | | | | UL 305 | |
| | • | | | | EN 1634-1 * | FIRE |
| | • | | | | UL 10C * | |
| | • | | | | CERTIFIRE | |
| | • | • | | | LPS 1175 * | SECURITY |
| | • | | | | FEBR * | |
| | • | | | | EN 1627 * | |
| | • | | | | STS 202 * | |
| | • | • | | | SRB * | |
| | • | | | | PAS 24 | |
| | • | | | | EN 1522 * | BALLISTIC |
| | • | | | | ISO 16933 * | BLAST |
| | • | • | • | | EN 1670 | CORROSION |
| | • | | | | TESTING | SEISMIC |

* - When tested on selected doorsets

The Slimline range is a high performance multi-point locking system, tested and certified to multiple international standards against forced entry, blast, ballistic and fire protection. Slimline has been engineered to provide multiple entry and exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes key, access control, or combination lock with lever handle, or complete hands-free motorised remote operation. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Available for mortice, or surface mounted
- 2 to 7 point bolting positions*
- 15 mm (5/8") bolts x 25 mm (1") throw
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides the greatest selection of operational functionality

OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Further enhancements are available

*Single-Point available

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|-----|-----|-----|-----|----|----|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-----------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | A10 | B10 | C10 | D10 | E10 | | | | | 45 MINS | | RC4 | | | FB5 | EN 1670:GR3 | 200K | | | | |
| 5 MIN | | | | | | F5 | G5 | | | 30 MINS | | RC3 | | | UL 305 | FB4 | | CERTIFIRE | EN 1670:GR2 | | |
| 3 MIN | | | | | | | | | | 15 MINS | | RC2 | | | | FB3 | EN 1670:GR1 | | | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | | | | | |



ENTRY FUNCTION (OPTIONS)

| | |
|-------------------------------|---|
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| ACCESS CONTROL | Access control to unlock & lever handle to release |
| MOTORISED | Single remote activation to unlock & release |
| COMBINATION LOCK | Combination to unlock & lever handle to release |
| LOCKABLE OPERATOR | External key lockable lever handle/hasp for panic exits |

EXIT FUNCTION (OPTIONS)

| | |
|--|--|
| PANIC BAR | Life-safety panic exit |
| EMERGENCY – PUSH PAD | Single operation exit |
| EMERGENCY – LEVER HANDLE | Single operation exit |
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| THUMBTURN & LEVER HANDLE | Thumbturn to unlock & lever handle to release |
| BREAK DOME & LEVER HANDLE | Break dome & thumbturn to unlock & lever handle to release |
| ACCESS CONTROL & LEVER HANDLE | Access control to unlock & lever handle to release |
| MOTORISED | Single remote activation to unlock & release |

LOCK FUNCTION (OPTIONS)

| | |
|---------------------------|--|
| AUTO DEADLOCKING | Automatic deadlocking upon door closure (Storeroom function) |
| MANUAL DEADLOCKING | Manual deadlocking upon door closure (Classroom function) |
| NO DEADLOCKING | Panic & emergency exit only |

BOLT FUNCTION (OPTIONS)

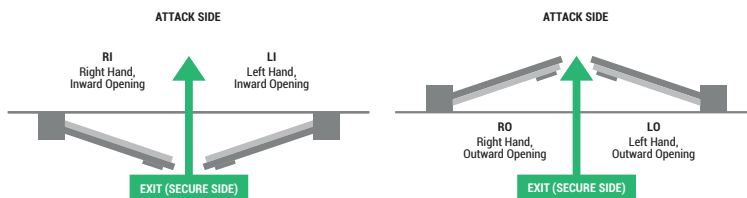
| | |
|-----------------------|-------------------------------------|
| AUTO BOLTING | Automatic bolting upon door closure |
| MANUAL BOLTING | Manual bolting |



SELF CODING SYSTEM

The Slimline (SL) and mortice version (SM) have simple ordering codes that cover the chosen methods of entry and exit, followed by the mounting and orientation codes. Additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: SL3A-AMLS-AA-LMLE



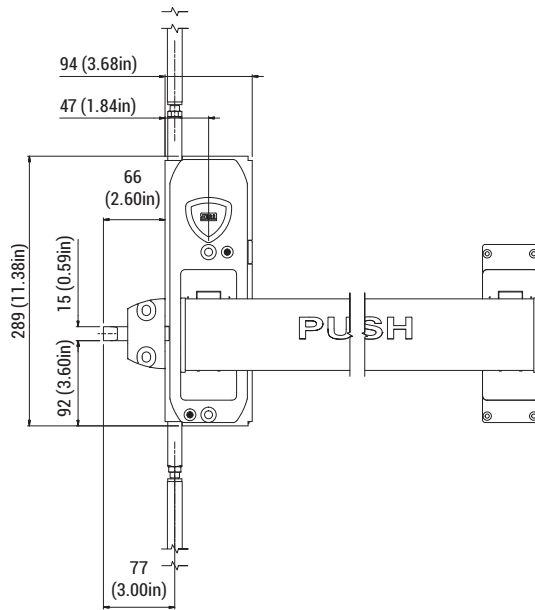
| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|-----------------------|---------------------------------|-------|------------------------|------------------------------------|-------------------|-------------------------------------|------------------------|------------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| SL | Surface | 2-7 | X | None | AA | Auto bolting / Auto deadlocking | X | None |
| SM | Mortice | 2-7 | K | Key | AM | Auto bolting / Manual deadlocking | K | Key |
| BOLT DIRECTION | | | H | Lockable handle (Key / Padlock) | AB | Auto bolting only | A | Access control |
| A | Vertical bolts, Horizontal bolt | | A | Access control | MA | Manual bolting / Auto deadlocking | T | Thumbturn |
| B-E | Other variants | | C | Combination | MM | Manual bolting / Manual deadlocking | L | Single Handed / Panic - Emergency |
| | | | L | Single Handed / Panic - Emergency | MB | Manual bolting only | BOLT RETRACTION | |
| | | | BOLT RETRACTION | | | | X | None |
| | | | X | None | | | M | Manual |
| | | | M | Manual | | | P | Powered (Electric) |
| | | | P | Powered (Electric) | | | OPERATOR | |
| | | | OPERATOR | | | | XX | None |
| | | | XX | None | | | LS | Lever handle (Tubular straight) |
| | | | LS | Lever handle (Tubular straight) | | | LE | Lever handle (Tubular ergonomic) |
| | | | US | Profile handle (Straight) | | | US | Profile handle (Straight) |
| | | | UC | Profile handle (Straight clutched) | | | UE | Profile handle (Ergonomic) |
| | | | LH | Lockable handle | | | UC | Profile handle (Straight clutched) |
| | | | PB | Panic bar (Blade aluminium) | | | PB | Panic bar (Blade aluminium) |
| | | | PE | Panic bar (Tubular st/st) | | | PE | Panic bar (Tubular st/st) |
| | | | PP | Push pad | | | PP | Push pad |
| | | | PS | Push pad (Stainless steel) | | | PS | Push pad (Stainless steel) |

| EXAMPLE BOLT DIRECTIONS | | | | | | See coding chart above for reference |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| | | | | | | |
| No Bolts (2) Direction (A) | No Bolts (3) Direction (A) | No Bolts (3) Direction (B) | No Bolts (3) Direction (C) | No Bolts (4) Direction (A) | No Bolts (5) Direction (A) | |

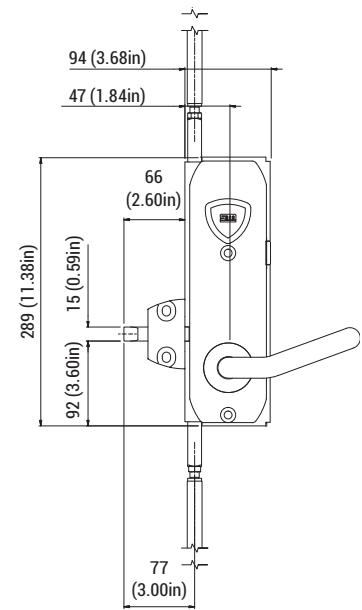
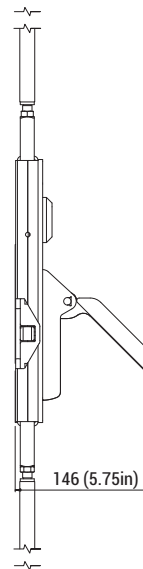
| EXAMPLE ENTRY/EXIT DIRECTIONS | | | | | See coding chart above for reference |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------------|
| | | | | | |
| Entry (XXXX) Exit (KMLS) | Entry (KMLS) Exit (TMLS) | Entry (AMLS) Exit (AMLS) | Entry (CMLS) Exit (LMLE) | Entry (HMLH) Exit (LMPB) | |

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

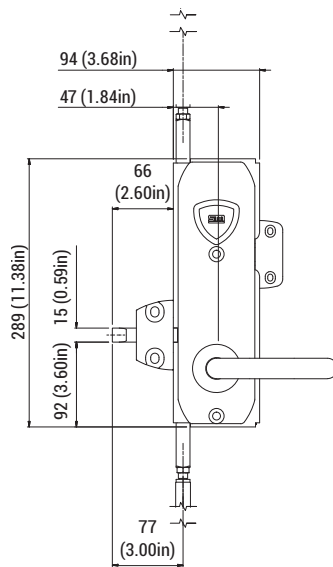
SLIMLINE TECHNICAL DRAWINGS



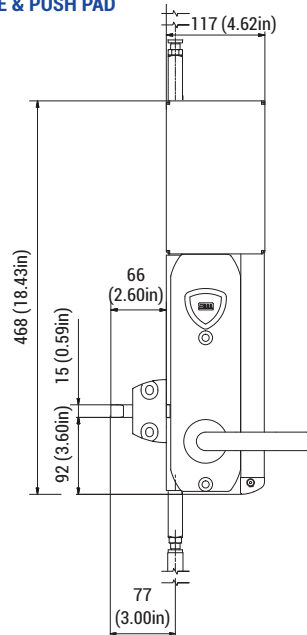
SLIMLINE PANIC BLADE & PUSH PAD



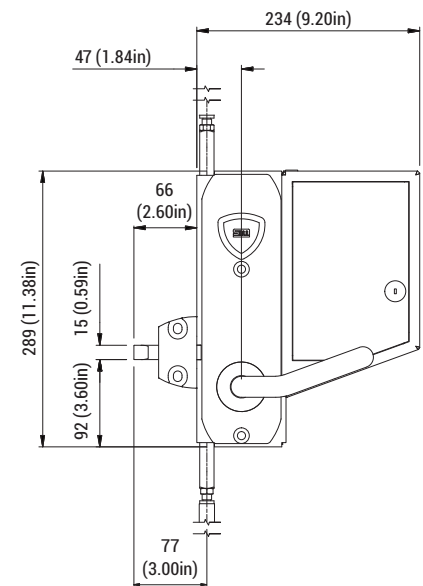
SLIMLINE EMERGENCY LEVER HANDLE



SLIMLINE ACCESS CONTROL



SLIMLINE MOTORISED BOLT RETRACTION



SLIMLINE COMBINATION LOCKING

SLIMLINE ACCESS CONTROL & MOTORISED POWER CONSUMPTION

| SYSTEM | OPTION CODE | VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY | |
|---------------------------|----------------|---------|--------------------------------|---------------------------|--------------------------|---------------|
| | | | | | SINGLE SOLENOID | TWIN SOLENOID |
| 12 V – Energise to unlock | R00 (Standard) | 12 V | 10 W | 0.8 A | 12 V 1.5 A | 12 V 2.0 A |
| 24 V – Energise to unlock | R01 | 24 V | 10 W | 0.4 A | 24 V 1.0 A | 24 V 1.5 A |
| 12 V – Energise to lock | R02 | 12 V | 10 W | 0.8 A | 12 V 1.5 A | 12 V 2.0 A |
| 24 V – Energise to lock | R03 | 24 V | 10 W | 0.4 A | 24 V 1.0 A | 24 V 1.5 A |

| SYSTEM | POWER CONSUMPTION | CURRENT DRAW | POWER CONSUMPTION PER SOLENOID |
|-------------------------|-------------------|--------------|--|
| Slimline delayed egress | 20 W | 1.67 A | 12 V 3 A (240 V ac) power supply provided with lock |
| Slimline motorised | 48 W | 2 A | 24 V 2 A (110 V to 240 V ac) power supply provided with lock |

There are three basic tiers of blast protection offered by the Slimline range. Each level has been tested on selected doors to at least 100kg of TNT at selected distances in line with ISO 16933:2007 to provide the following calculated blast protection levels.

| SYSTEM | MAXIMUM LOAD CAPACITY PER SHOOTBOLT (Including 20% safety factor) | | | | | |
|---------------------|---|-----------|------------------|-----------|------------------|-----------|
| | Category 1 Limit | | Category 2 Limit | | Category 3 Limit | |
| Slimline (Standard) | 12.4 kN | 2788 lbF | 20.8 kN | 4676 lbF | 24.4 kN | 5485 lbF |
| Slimline D15 | 20.8 kN | 4676 lbF | 24.9 kN | 5598 lbF | 35.3 kN | 7935 lbF |
| Slimline D25 | 97.9 kN | 22008 lbF | 122.6 kN | 27560 lbF | 236 kN | 53053 lbF |

SLIMLINE STANDARD BLAST LEVEL

| LOCKING SYSTEM | PEAK PRESSURE (CATEGORY 3 RESPONSE) | |
|-------------------------|-------------------------------------|------|
| | kPa | psi |
| 3-Point Outward Opening | 70 | 10.1 |
| 5-Point Outward Opening | 114 | 16.5 |
| 3-Point Inward Opening | 42 | 6 |
| 5-Point Inward Opening | 68 | 9.8 |

SLIMLINE ENHANCED BLAST LEVEL (OPTION D15)

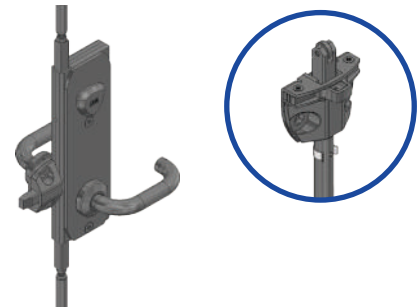
| LOCKING SYSTEM | PEAK PRESSURE (CATEGORY 3 RESPONSE) | |
|-------------------------|-------------------------------------|------|
| | kPa | PSI |
| 3-Point Outward Opening | 102 | 14.7 |
| 5-Point Outward Opening | 166 | 24 |
| 3-Point Inward Opening | 61 | 8.8 |
| 5-Point Inward Opening | 99 | 14.3 |

SLIMLINE HIGH BLAST LEVEL (OPTION D25)

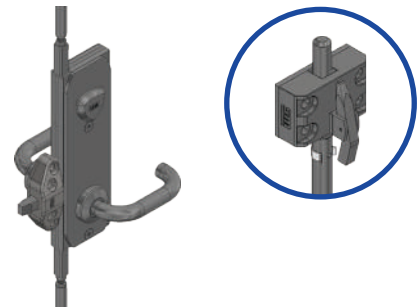
| LOCKING SYSTEM | PEAK PRESSURE (CATEGORY 3 RESPONSE) | |
|-------------------------|-------------------------------------|-------|
| | kPa | PSI |
| 3-Point Outward Opening | 681 | 98.7 |
| 5-Point Outward Opening | 1108 | 160.7 |
| 3-Point Inward Opening | 408 | 59.1 |
| 5-Point Inward Opening | 664 | 96.3 |

* Peak pressure values are a guide based on static load calculations on a specific door construction. Calculations should be done for individual door sizes and constructions.

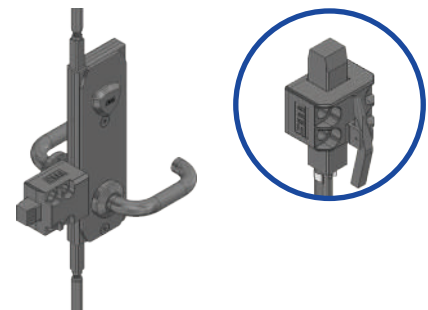
STANDARD



ENHANCED BLAST LEVEL (D15)



HIGH BLAST LEVEL (D25)



3-POINT SLIMLINE SYSTEMS (CODE SL3A PLUS ENHANCEMENT CODE)

STANDARD BLAST SYSTEM
CODE: SL3A



ENHANCED BLAST SYSTEM
CODE: SL3A (WITH OPTION D15)



HIGH BLAST SYSTEM
CODE: SL3A (WITH OPTION D25)



5-POINT SLIMLINE SYSTEMS (CODE SL5A PLUS ENHANCEMENT CODE)

STANDARD BLAST SYSTEM
CODE: SL5A



ENHANCED BLAST SYSTEM
CODE: SL5A (WITH OPTION D15)



HIGH BLAST SYSTEM
CODE: SL5A (WITH OPTION D25)





MSR MULTI-POINT

The MSR is a cost-effective, multi-point bolting system, designed for commercial doors to secure high-value sites.

Single motion release by lever handle or panic bar makes this system suitable to secure exit doors and provide life-safety egress. An optional lockable external trim provides key entry for authorized personnel. The robust design and stainless steel construction of the MSR will assist in protecting your facility and provide durability.



FEATURES

- Surface mounted for maximum strength
- 2 to 3 point bolting options available*
- 20 mm (3/4") x 16.5 mm (5/8") central bolt plus 14 mm (9/16") A/F hex. top & bottom bolts x 20 mm (3/4") throw
- Stainless steel construction for corrosion resistance and durability
- Tested to over 500,000 cycles

BENEFITS

- Cost-effective
- Door automatically secured against physical attack
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service

OPTIONAL ENHANCEMENTS

- Monitoring of bolt status
- External lockable trim to provide key entry for authorized personnel
- Further enhancements are available

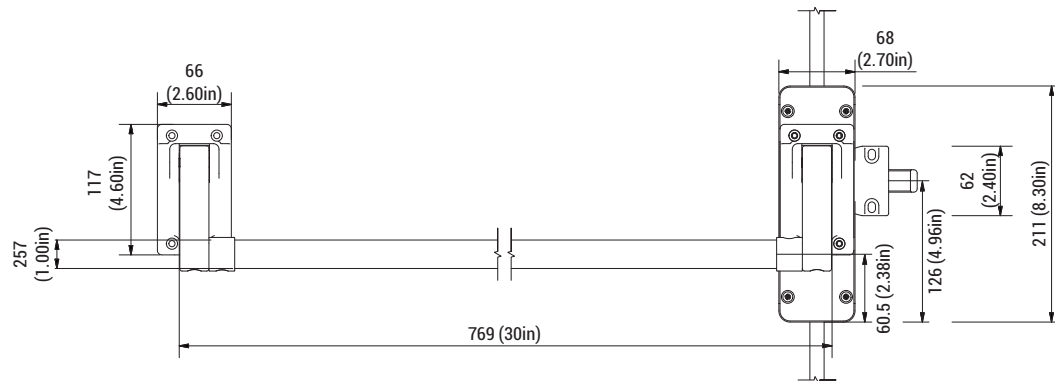
*Single-Point available

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | | | | |
|---------------|-------|----|---|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-----------|-------------|-------------|-------------|------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR2 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | | | |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | | | | | | | | | | | |
| 10 MIN | | | | | | | | | | 30 MINS | RC4 | BR2 | | | | | EN 179 | FB6 | FB5 | | EN 1634-1 | EN 1670:GR4 | EN 1670:GR3 | 500K | |
| 5 MIN | | | | | | | | | | 15 MINS | RC3 | | | | | | | | | | | | | | |
| 3 MIN | A3 | B3 | | | | | | | | | 5 MINS | RC2 | | | BR1 | | | UL 305 | FB4 | | EXV 15 | CERTIFIRE | EN 1670:GR2 | EN 1670:GR1 | 200K |
| 1 MIN | | | | | | | | | | | RC1 | | | | | | | | | | | | | | |

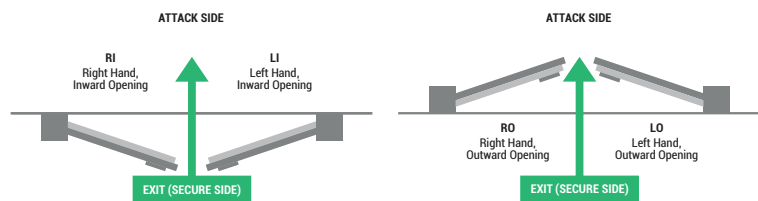
MSR MULTI-POINT TECHNICAL DRAWING



SELF CODING SYSTEM

The MSR (MS) has a simple ordering codes that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: MS3A-XXXX-AB-LMPB



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|---------------------------------|-------|-----------------|-------------------------------|-------------------|-------------------|-----------------|-----------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| MS | MSR | 2–3 | X | None | AB | Auto bolting only | X | None |
| BOLT DIRECTION | | | H | Lockable handle (Key/Padlock) | | | L | Single Handed / Panic – Emergency |
| A | Vertical bolts, Horizontal bolt | | BOLT RETRACTION | | | | BOLT RETRACTION | |
| | | | X | None | | | M | Manual |
| | | | M | Manual | | | OPERATOR | |
| | | | OPERATOR | | | | LS | Lever handle (Tubular straight) |
| | | | XX | None | | | PB | Panic bar (Blade aluminium) |
| | | | LH | Lockable handle | | | PE | Panic bar (Tubular st/st) |
| | | | | | | | PP | Push pad |

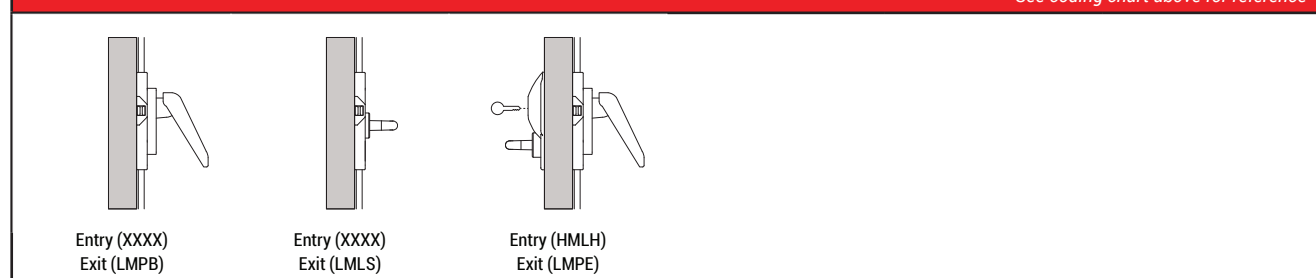
EXAMPLE BOLT DIRECTIONS

See coding chart above for reference



EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



The Zeus is a surface mounted, secure five-point bolting system designed especially for commercial hollow metal doors. Three stainless steel bolts secure horizontally into the frame, while two surface mounted hinge bolts offer additional strength onto the opposite side of the door.

Single motion egress by lever or panic bar makes this system a preferred choice emergency escape routes, while optional lockable trim provides external entry for authorized personnel.

FEATURES

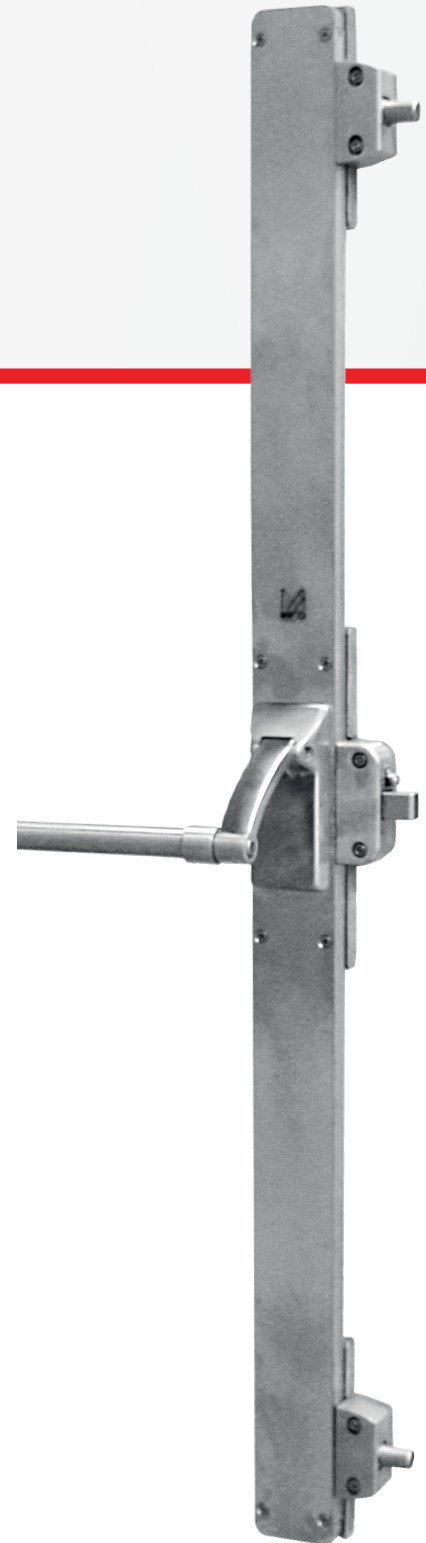
- Surface mounted for maximum strength
- 20 mm (3/4") x 16.5 mm (5/8") center bolt, plus 14 mm dia. (9/16") 15 mm dia round to bottom bolts., all with 25 mm (1") throw
- Automatic bolting upon door closure
- 3 to 7 point bolting, including 2 fixed hinge bolts
- 2 Surface mounted hinge bolts
- Strikes and mounting hardware provided
- Panic bar or lever handle exit options
- Fully 304 Stainless steel construction for corrosion resistance and durability
- Unhanded and Bi-directional, making specification easy
- Unique Infinite restraint.
- Certified Life-Safe device under UL305
- Heavy duty astragal as standard

BENEFITS

- Simple and quick installation
- Straightforward upgrades of external doors
- Always provides single motion egress in an emergency
- Door automatically secured against physical attack
- Cost-effective locking solution
- Restraint holds bolts in open position throughout door swing, ensuring they do not release until the door has closed
- Engineered for durability and trouble free service

OPTIONAL ENHANCEMENTS

- External lockable trim to provide key entry for authorized personnel
- Optional vertical bolts for increased security

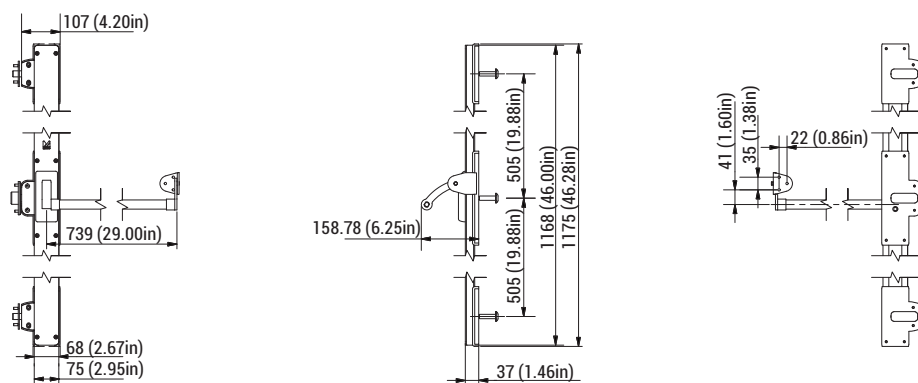


PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|---|---|---|---|---|---|---|---------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-----------|-------------|
| ISSUE 8 | | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | NONE | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | BR2 | EN 179 | | FB6 | EXV 15 | | EN 1634-1 | EN 1670:GR4 |
| 10 MIN | | | | | | | | | | 30 MINS | RC3 | FB5 | | | | EN 1670:GR3 | | | | | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC2 | BR1 | | | | FB4 | EN 1670:GR2 | 200K | | | | |
| 3 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | FB3 | EN 1670:GR1 | | | | | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | | |

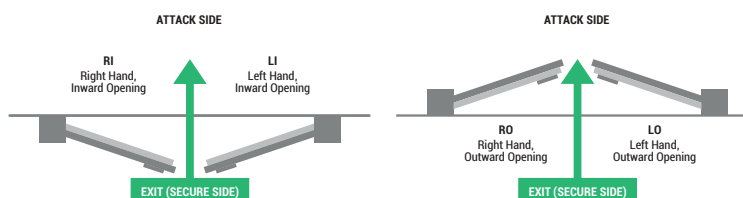
ZEUS TECHNICAL DRAWING



SELF CODING SYSTEM

The Zeus (ZE) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

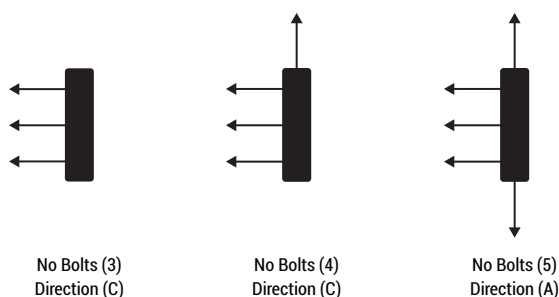
EXAMPLE ORDER CODE: ZE3C-XXXX-AB-LMPB



| PRODUCT | | | ENTRY | | | SECURING | | | EXIT | | |
|----------------|----------------------------------|-------|-----------------|-------------------------------|--|-------------------|----------------------------|--|---------------------------------|-----------------------------------|--|
| RANGE | | BOLTS | UNLOCKING | | | UPON DOOR CLOSURE | | | UNLOCKING | | |
| ZE | Zeus | 3 – 7 | X | None | | AB | Auto bolting only | | X | None | |
| BOLT DIRECTION | | | H | Lockable handle (Key/Padlock) | | | | | L | Single Handed / Panic - Emergency | |
| C | Horizontal bolts | | BOLT RETRACTION | | | | | | BOLT RETRACTION | | |
| A | Vertical bolts, Horizontal bolts | | X | None | | | | | M | Manual | |
| | | | M | Manual | | | | | OPERATOR | | |
| | | | OPERATOR | | | | | | XX | None | |
| | | | XX | None | | | | | PE | Panic bar (Tubular st/st) | |
| | | | LH | Lockable handle | | PS | Push pad (Stainless steel) | | | | |
| | | | | | | LS | | | Lever handle (Tubular straight) | | |

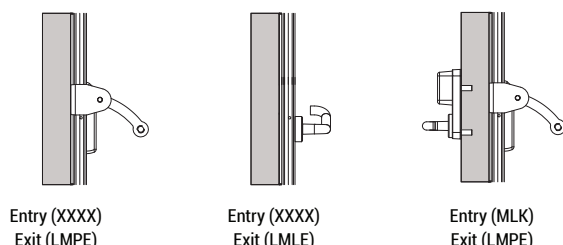
EXAMPLE BOLT DIRECTIONS

See coding chart above for reference



EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

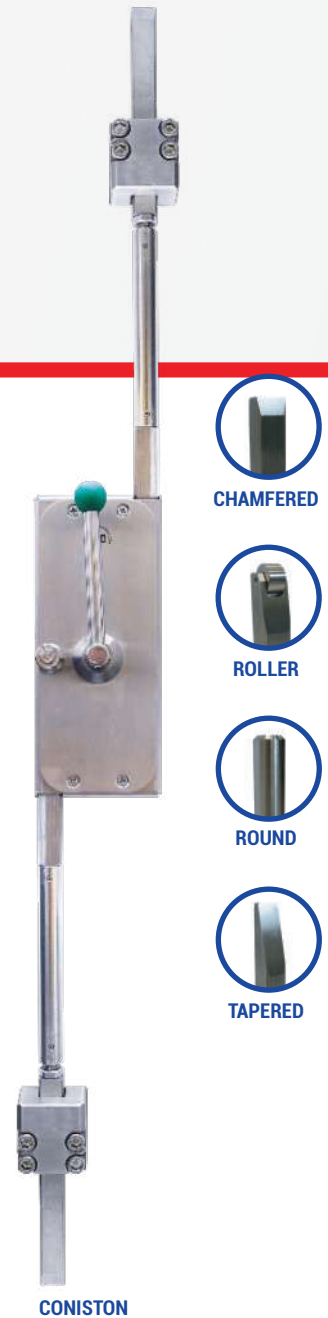
The Coniston is a highly reliable, heavy duty, manually thrown deadbolt for use on one to two point locking applications. A robust surface mounted alternative to a more integrated lock, the range offers high levels of pressure resistance ideal for blast, acoustic and sealing doorsets. Offering a flexible modular solution, the Coniston allows for a choice of four bolt types, three bolt sizes of 15mm, 25mm or 50mm square and a bolt throw of up to 200mm. Manufactured in 316 grade stainless steel for hostile environments and durability.

FEATURES

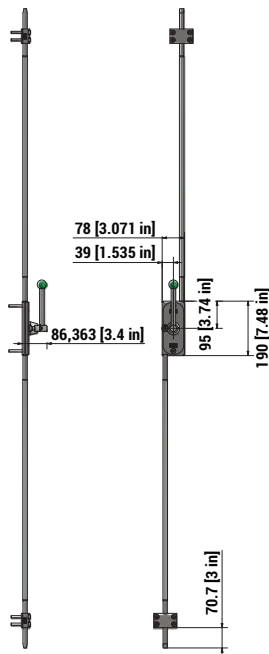
- One to two point systems available
- Available for both swing and sliding doors
- Standard – 15 mm (5/8") square bolt x 70.7 mm (3") bolt throw
- Heavy Duty – 25 mm (1") square bolt x 122.5 mm (5") bolt throw
- Extreme Duty – 50 mm (2") square bolt x 202.6 mm (8") bolt throw
- 180 degree handle rotation for full bolt throw and retraction
- Optional 90 degree handle rotation stop, reducing bolt throw to 50% where less bolt engagement is required
- Manual bolting controlled by ball lever handle
- Supplied unhandled
- Constructed from 316 grade stainless steel

BENEFITS

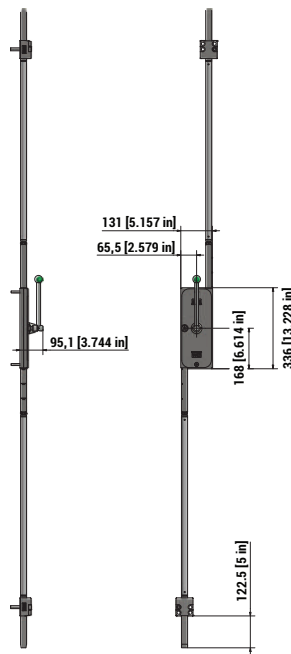
- Engineered for longevity and trouble free service
- Highly reliable bolting solution
- Smooth and controlled operation
- Flexible, modular lock allows a choice of bolt size, bolt throw and bolt type



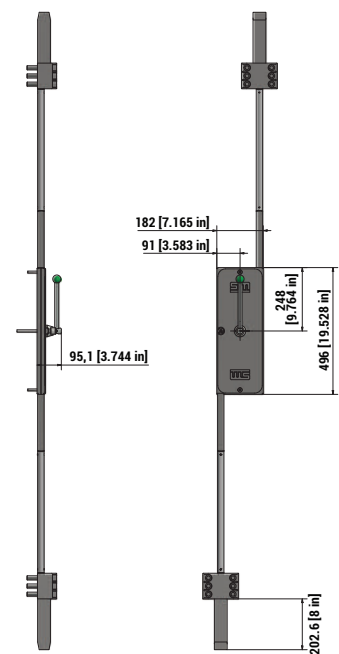
CONISTON TECHNICAL DRAWING



STANDARD LOCK BODY SIZE



HEAVY DUTY LOCK BODY SIZE



EXTREME DUTY LOCK BODY SIZE

SELF CODING SYSTEM

Coniston's have a simple ordering code that covers the chosen lock body size, bolt direction, length and type

EXAMPLE ORDER CODE: CN1B-XM

| PRODUCTS | | | ENTRY | | SECURING | | EXIT | | PRIMARY LOCK OPTIONS | |
|----------------|-------------------------------|-------|-----------------|--------|-------------------|---------------------|--------------------|-----------------------------|----------------------|----------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | | LOCK BODY SIZE | |
| CN | Coniston | 1-2 | x | None | MB | Manual bolting only | LH | Left hand | SD | Standard, 70.7mm (3") throw |
| BOLT DIRECTION | | | BOLT RETRACTION | | | | BOLT RETRACTION | | HD | Heavy Duty, 122.5mm (5") throw |
| 1B | Vertical bolts - bottom only | | x | None | | | X | None | HD | Extreme Duty, 202.6mm (8") throw |
| 1C | Vertical bolts - top only | | M | Manual | | | M | Manual | BOLT SIZE | |
| 2A | vertical bolts - top & bottom | | OPERATOR | | | | OPERATOR | | D15 | 15MM (5/8") bolt |
| | | | XX | None | | | BL | Ball Lever Handle | D25 | 25MM (1") bolt, M12 fixings |
| | | | | | | | D50 | 50MM (2") bolt, M16 fixings | | |
| | | | | | | | BOLT TYPE | | | |
| | | | | | | | X | None | | |
| | | | | | | | A | Standard Chamfered Bolt | | |
| | | | | | | | B | Roller Bolt End | | |
| | | | | | | | C | Round Turned Bolt | | |
| | | | | | | | D | Tapered Bolt End | | |
| | | | | | | | TUBE PACK INCLUDED | | | |
| | | | | | | | D50 | 50MM (2") bolt, M16 fixing | | |
| | | | | | | | D50 | 50MM (2") bolt, M16 fixing | | |



GATE LOCKING

| | GATELOCKING | MOORGATE RANGE | PALISADE | PURBROOK-GT | SGL | |
|------|-------------|----------------|----------|-------------|---------------------------------|-------------|
| PAGE | 48 | 52 | 54 | 56 | INSTALLATION | |
| | • | • | • | • | SURFACE MOUNTED | |
| | • | | | | MORTICE FITTED | |
| | | | | | ENTRY FUNCTION (OPTIONS) | |
| | | | | • | KEY | |
| | • | • | • | | KEY & LEVER / KNOB | |
| | • | • | • | • | ACCESS CONTROL | |
| | • | | | | HANDS FREE MOTORISED | |
| | • | | | | COMBINATION LOCK & / OR LEVER | |
| | • | | • | | PADLOCKABLE / LOCKABLE OPERATOR | |
| | | | | | EXIT FUNCTION (OPTIONS) | |
| | | | | • | KEY | |
| | | | | • | ACCESS CONTROL | |
| | • | | • | | EMERGENCY LEVER HANDLE | |
| | • | | | | KEY & LEVER HANDLE | |
| | | • | | | KEY, KNOB & SLIDE BAR | |
| | | • | | | ACCESS CONTROL & SLIDE BAR | |
| | • | | • | | THUMBTURN & LEVER HANDLE | |
| | • | | | | BREAKGLASS DOME & LEVER HANDLE | |
| | • | | • | | ACCESS CONTROL & LEVER HANDLE | |
| | • | | | | HANDS FREE MOTORISED | |
| | | • | | | THUMBTURN WITH SLIDE BAR | |
| | | • | | | BREAKGLASS DOME & SLIDE BAR | |
| | | | | | LOCK FUNCTION (OPTIONS) | |
| | • | • | • | | AUTO DEADLOCKING | |
| | • | • | • | | MANUAL DEADLOCKING | |
| | • | | | | NO DEADLOCKING | |
| | | | | | BOLTING FUNCTION (OPTIONS) | |
| | • | | • | • | AUTO BOLTING | |
| | • | • | | | MANUAL BOLTING | |
| | | | | | PERFORMANCE | |
| | | | | | EN 1125 | LIFE SAFETY |
| | • | | • | | EN 179 | |
| | | | | | UL 305 | |
| | | | | | EN 1634-1 * | FIRE |
| | | | | | UL 10C * | |
| | | | | | CERTIFIRE | |
| | • | • | • | | LPS 1175 * | SECURITY |
| | | | | | FEBR * | |
| | | | | | EN 1627 * | |
| | | | | | STS 202 * | |
| | | | | | SRB * | |
| | | | | | PAS 24 | |
| | | | | | EN 1522 * | BALLISTIC |
| | | | | | ISO 16933 * | BLAST |
| | • | | • | | EN 1670 | CORROSION |
| | | | | | TESTING | SEISMIC |

* - When tested on selected doorsets

The Moorgate is a high performance multi-point locking system with unique opposing hook bolts, for sliding/hinged gates and doors. Tested and certified to internationally recognised standards for protection against forced entry, and subjected to vigorous testing in relation to blast, ballistic and fire protection. Moorgate has been engineered to provide multiple entry and exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes key, access control, or combination lock with lever handle, or complete hands-free motorised remote operation. A choice of controlled, or single motion egress for emergency exit is available to meet a wide range of requirements. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Available for mortice, or surface mounted
- 3 to 7 point bolting positions
- Two 44 mm (1 3/4") x 10 mm (3/8") hook bolts, plus a 15 mm (5/8") square center bolt x 25 mm (1") throw
- Unique opposing hook design
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Prevents lift-off attack
- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides the greatest selection of operational functionality

OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Pre-installed in a structural steel rectangular tube section, for fast on-site retro-fitting

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|----|----|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-------------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | | | | | | | | | | 45 MINS | | RC4 | | | BR1 | FB5 | EN 1670:GR3 | | 200K | | |
| 5 MIN | A5 | B5 | C5 | | | | | | | 30 MINS | RC3 | FB4 | | | | FB3 | CERTIFIRE | EN 1670:GR2 | EN 1670:GR1 | | |
| 3 MIN | | | | | | | | | | 15 MINS | RC2 | | | | | | | | | | |
| 1 MIN | | | | | | | | | 5 MINS | RC1 | | | | | | | | | | | |



ENTRY FUNCTION (OPTIONS)

| | |
|-------------------------------|---|
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| ACCESS CONTROL | Access control to unlock & lever handle to release |
| MOTORISED | Single remote activation to unlock & release |
| COMBINATION LOCK | Combination lock & lever handle to release |
| LOCKABLE OPERATOR | External key lockable lever handle/hasp for panic exits |

EXIT FUNCTION (OPTIONS)

| | |
|--|--|
| EMERGENCY – LEVER HANDLE | Single operation exit |
| KEY & LEVER HANDLE | Key to unlock & lever handle to release |
| THUMBTURN & LEVER HANDLE | Thumbturn to unlock & lever handle to release |
| BREAK DOME & LEVER HANDLE | Break dome & thumbturn to unlock & lever handle to release |
| ACCESS CONTROL & LEVER HANDLE | Access control to unlock & lever handle to release |
| MOTORISED | Single remote activation to unlock & release |

LOCK FUNCTION (OPTIONS)

| | |
|---------------------------|--|
| AUTO DEADLOCKING | Automatic deadlocking upon door closure (Storeroom function) |
| MANUAL DEADLOCKING | Manual deadlocking upon door closure (Classroom function) |
| NO DEADLOCKING | Panic & emergency exit only |

BOLT FUNCTION (OPTIONS)

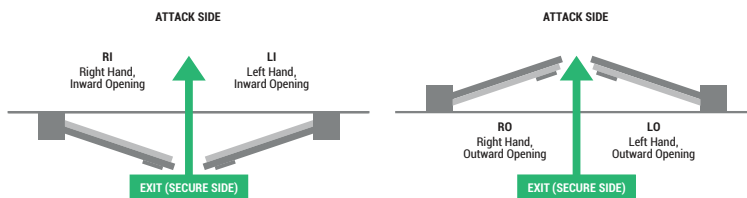
| | |
|-----------------------|-------------------------------------|
| AUTO BOLTING | Automatic bolting upon door closure |
| MANUAL BOLTING | Manual bolting |



SELF CODING SYSTEM

The Moorgate multi-point (MO) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: MO3A-KMLS-AA-LMLS



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|-----------------------|-----------------------------|-------|------------------------|---------------------------------|-------------------|-----------------------------------|------------------------|-----------------------------------|
| RANGE | BOLTS | | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| MO | Moorgate | 3 – 8 | X | None | AA | Auto bolting / Auto deadlocking | X | None |
| BOLT DIRECTION | | | K | Key | AM | Auto bolting / Manual deadlocking | K | Key |
| C | Horizontal bolts (Standard) | | H | Lockable handle (Key / Padlock) | AB | Auto bolting only | A | Access control |
| A-F | Other variants | | A | Access control | MB | Manual bolting only | T | Thumbturn |
| | | | C | Combination lock | | | L | Single Handed / Panic - Emergency |
| | | | BOLT RETRACTION | | | | BOLT RETRACTION | |
| | | | X | None | | | X | None |
| | | | M | Manual | | | M | Manual |
| | | | P | Powered (Electric) | | | P | Powered (Electric) |
| | | | OPERATOR | | | | OPERATOR | |
| | | | XX | None | | | XX | None |
| | | | LS | Lever handle (Tubular straight) | | | LS | Lever handle (Tubular straight) |
| | | | US | Profile handle (Straight) | | | LE | Lever handle (Tubular ergonomic) |
| | | | LH | Lockable handle | | | US | Profile handle (Straight) |

| EXAMPLE BOLT DIRECTIONS | | | | | | See coding chart above for reference |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| | | | | | | |
| No Bolts (3) Direction (C) | No Bolts (4) Direction (C) | No Bolts (5) Direction (A) | No Bolts (6) Direction (A) | No Bolts (6) Direction (B) | No Bolts (6) Direction (C) | |

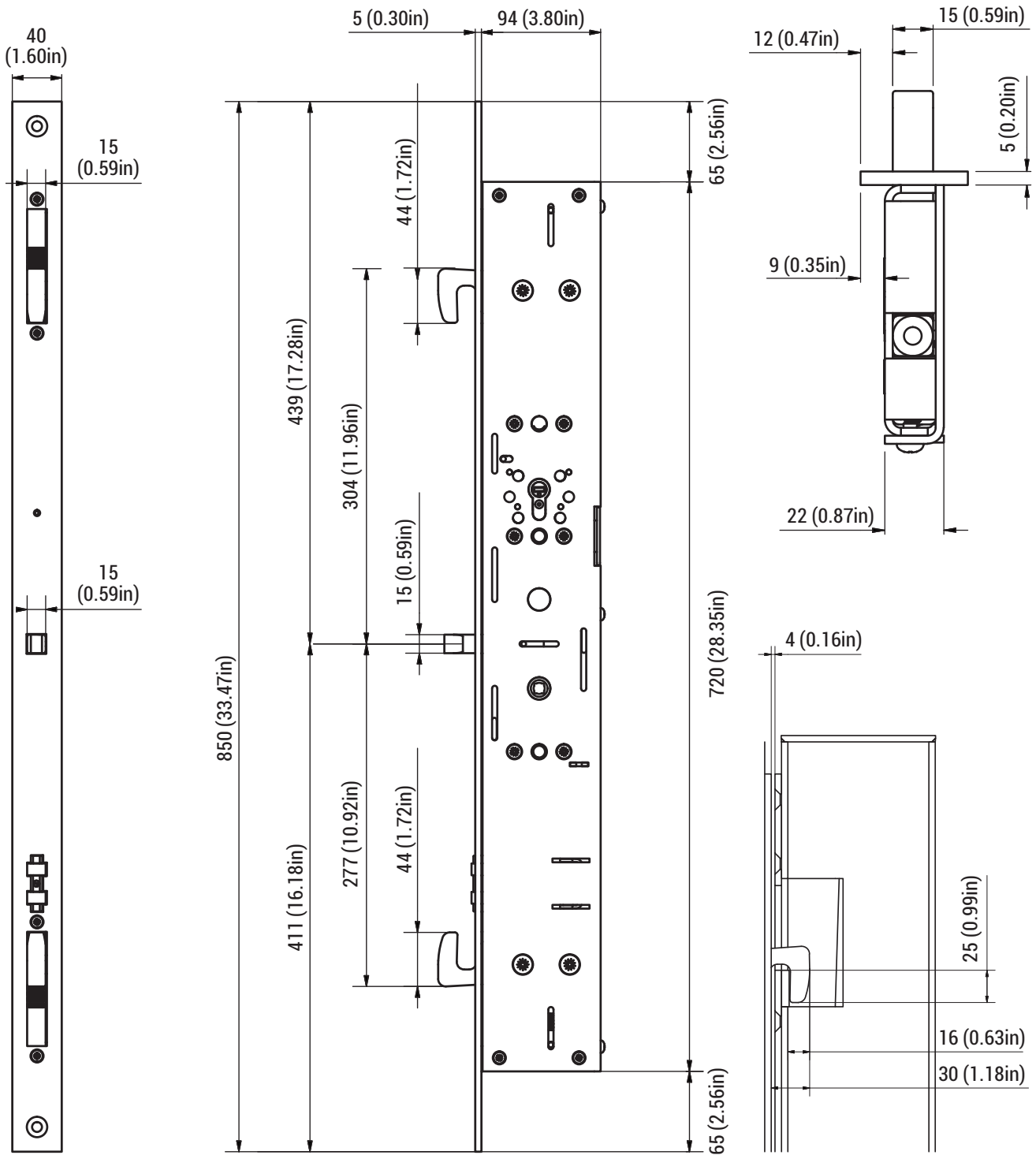
| EXAMPLE ENTRY/EXIT DIRECTIONS | | | See coding chart above for reference |
|-------------------------------|-----------------------------|-----------------------------|--------------------------------------|
| | | | |
| Entry (XXXX) Exit (KMLS) | Entry (KMLS) Exit (TMLS) | Entry (AMLS) Exit (LMLE) | |

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

MOORGATE ACCESS CONTROL & MOTORISED POWER CONSUMPTION

| SYSTEM | OPTION CODE | VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|---------------------------|--------------|---------|--------------------------------|---------------------------|--------------------------|
| | | | | | SINGLE SOLENOID |
| 12 V – Energise to unlock | R (Standard) | 12 V | 10 W | 0.8 A | 12 V 1.5 A |
| 24 V – Energise to unlock | R1 | 24 V | 10 W | 0.4 A | 24 V 1.0 A |
| 12 V – Energise to lock | R2 | 12 V | 10 W | 0.8 A | 12 V 1.5 A |
| 24 V – Energise to lock | R3 | 24 V | 10 W | 0.4 A | 24 V 1.0 A |

MOORGATE TECHNICAL DRAWING



The Palisade is an extreme heavy duty manual sliding bar locking system for hinged gates, with 125mm (5") engagement. Tested and certified to multiple international standards against forced entry. The Palisade has been engineered to provide a choice of entry & exit methods, making the range versatile and suitable for most applications



Entry includes key or access control with manual slide bar release. A choice of controlled, or single motion egress for emergency exit is available to meet a wide range of requirements. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Surface mounted for maximum strength
- 100 mm (4") x 15 mm (5/8") x 125 mm (5") throw sliding bar
- Choice of automatic or manual deadlocking
- 316 grade stainless steel construction for hostile environments and durability
- Independent padlocking
- Anti-climb knob
- Tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Secondary padlocking feature
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Retrofittable solution to upgrade existing gates

OPTIONAL ENHANCEMENTS

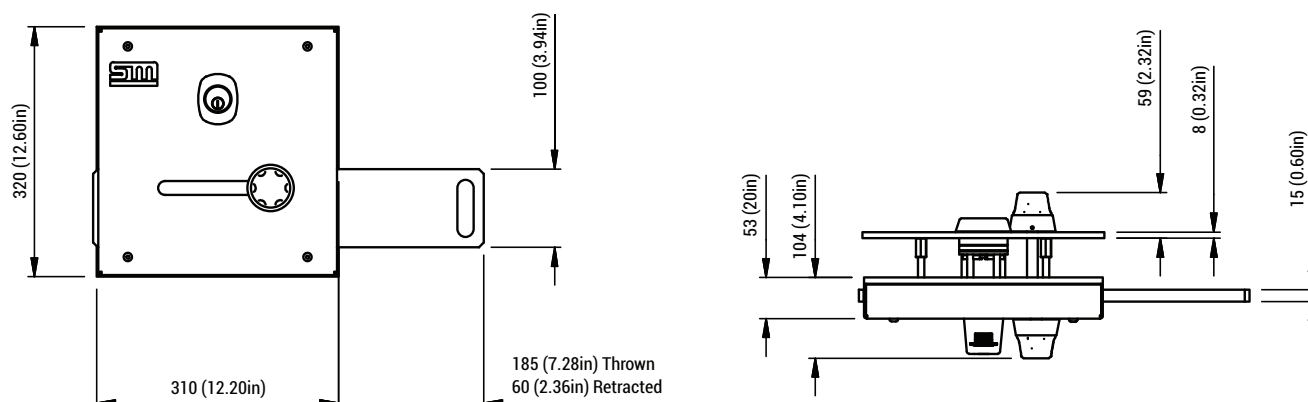
- Monitoring of bolt & lock status
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|----|----|----|----|----|----|---|------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-------------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | | | | | | | | | | | | | | ISSUE 7 |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | NONE | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EN 1634-1 | EN 1670:GR4 | | |
| 10 MIN | | | | | | | | | | 45 MINS | | RC4 | | | FB5 | EXV 15 | | EN 1670:GR3 | 200K | | |
| 5 MIN | | | | | | | | | | 30 MINS | | RC3 | | | FB4 | | | CERTIFIRE | | | EN 1670:GR2 |
| 3 MIN | | | | | | | | | | 15 MINS | | RC2 | | | BR1 | FB3 | EN 1670:GR1 | | | | |
| 1 MIN | A1 | B1 | C1 | D1 | E1 | F1 | G1 | | | 5 MINS | RC1 | | | | | | | | | | |

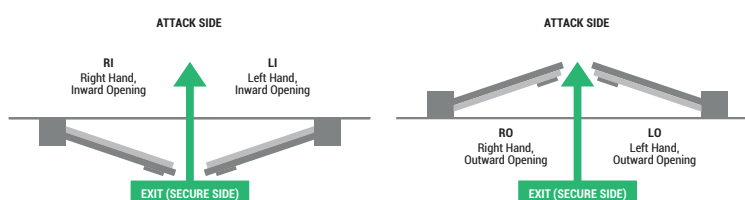
PALISADE TECHNICAL DRAWING



SELF CODING SYSTEM

The Palisade (PG) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: PG1A-KMSK-MA-LMSK



| PRODUCT | | | ENTRY | | | SECURING | | EXIT | | | |
|----------------|-----------------|-------|-----------------|-------------------------|-----------------|-------------------|-------------------------------------|------------------|-------------------------|------|--|
| RANGE | | BOLTS | UNLOCKING | | | UPON DOOR CLOSURE | | UNLOCKING | | | |
| PG | Palisade | 1 | X | None | | MA | Manual bolting / Auto deadlocking | | X | None | |
| BOLT DIRECTION | | | K | Key | | MM | Manual bolting / Manual deadlocking | | K | Key | |
| A | Horizontal bolt | | A | Access control | | | | A | Access control | | |
| | | | BOLT RETRACTION | | T | | | Thumbturn | | | |
| | | | X | None | L | | | Single Operation | | | |
| | | | M | Manual | BOLT RETRACTION | | | | | | |
| | | | OPERATOR | | X | | | None | | | |
| | | | XX | None | M | | | Manual | | | |
| | | | SK | Anti-climb sliding knob | OPERATOR | | | | | | |
| | | | | | | | | XX | None | | |
| | | | | | | | | SK | Anti-climb sliding knob | | |

EXAMPLE BOLT DIRECTIONS

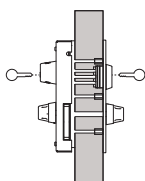
See coding chart above for reference



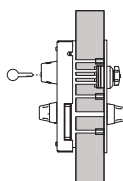
No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

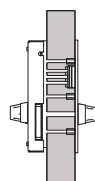
See coding chart above for reference



Entry (KMSK)
Exit (KMSK)



Entry (KMSK)
Exit (TMSK)



Entry (AMSK)
Exit (AMSK)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The 'Purbrook GT' is a strong, high performance single-point, surface mounted locking system, with 40mm (1 1/2") bolt engagement, adjustable to suit typical gate tolerances. Tested and certified to internationally recognised standards for protection against forced entry, and subjected to vigorous testing in relation to blast, ballistic and fire protection. 'Purbrook GT' is incredibly versatile with multiple entry & exit methods, making it suitable for almost all applications.

Entry includes key or access control with lever handle. A choice of controlled, or single motion egress for emergency exit to meet a wide range of requirements. Manufactured in 316 stainless steel for hostile environments and durability.



FEATURES

- Surface mounted for maximum strength
- 25 mm (1") x 19.5 mm (3/4") bolt x 40 mm (1 1/2") throw
- 316 grade stainless steel construction for hostile environments and durability
- Tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Choice of securing upon door closure (automatic or manual)
- 10mm (3/8") adjustable trip mechanism, enables greater tolerances on gate install
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides the greatest selection of operational functionality

OPTIONAL ENHANCEMENTS

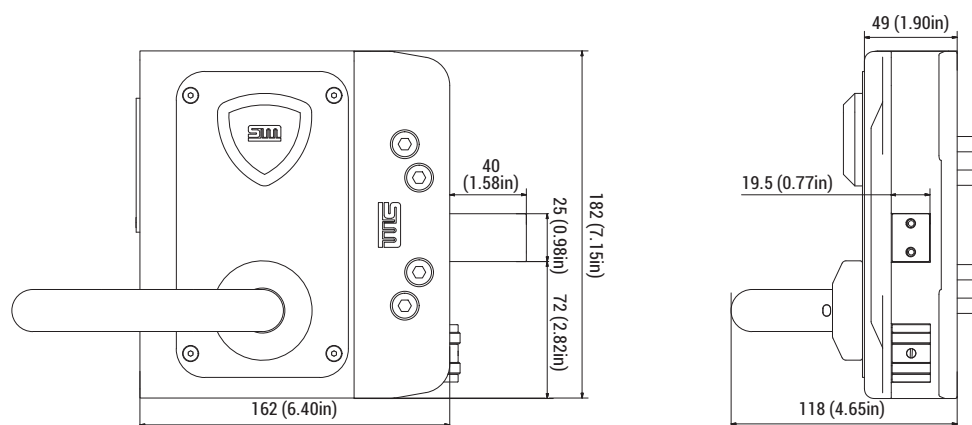
- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | | |
|---------------|-------|-----|-----|-----|-----|----|----|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|-------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | BR2 | EN 179 | | FB6 | EXV 15 | | EN 1634-1 | EN 1670:GR4 | EN 1670:GR3 |
| 10 MIN | A10 | B10 | C10 | D10 | E10 | | | | | 30 MINS | RC4 | BR1 | | | | UL 305 | FB5 | CERTIFIRE | | | EN 1670:GR2 | EN 1670:GR1 | |
| 5 MIN | | | | | | | | | | 15 MINS | RC3 | | | | RC1 | FB4 | | | | | | | |
| 3 MIN | | | | | | | | | | | | | | | | | | | | | | | |
| 1 MIN | | | | | | F1 | G1 | | | | | | | | | | | | | | | | |

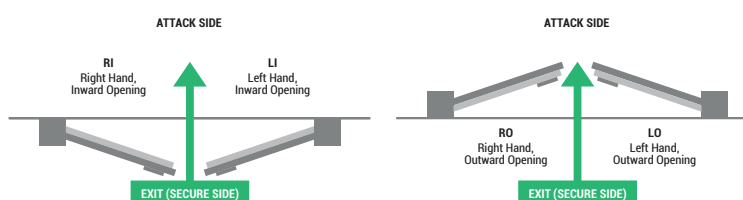
PURBROOK GT TECHNICAL DRAWING



SELF CODING SYSTEM

The Purbrook-GT (GT) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: GT1A-AMLS-AA-LMLE



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-------|-----------------|----------------------------------|-------------------|-----------------------------------|-----------------|---------------------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| GT | Purbrook-GT | 1 | X | None | AA | Auto bolting / Auto deadlocking | X | None |
| BOLT DIRECTION | | | K | Key | AM | Auto bolting / Manual deadlocking | K | Key |
| A | Horizontal bolt | | A | Access control | AB | Auto bolting only | A | Access control |
| | | | BOLT RETRACTION | | | | T | Thumbturn |
| | | | X | None | | | L | Emergency – Single operation |
| | | | M | Manual | | | BOLT RETRACTION | |
| | | | OPERATOR | | | | X | None |
| | | | XX | None | | | M | Manual |
| | | | LS | Lever handle (Tubular straight) | | | OPERATOR | |
| | | | LE | Lever handle (Tubular ergonomic) | | | XX | None |
| | | | US | Profile lever handle (Straight) | | | LS | Lever handle (Tubular straight) |

EXAMPLE BOLT DIRECTIONS

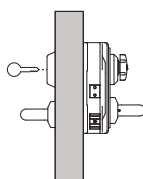
See coding chart above for reference



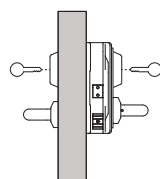
No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

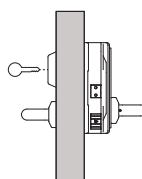
See coding chart above for reference



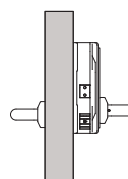
Entry (KMLS)
Exit (TMLS)



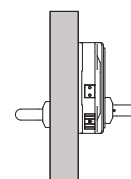
Entry (KMLS)
Exit (KMLS)



Entry (KMLS)
Exit (LMLS)



Entry (AMLS)
Exit (AMLS)



Entry (KMLS)
Exit (LMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The 'SGL' is a heavy duty, surface mounted electro-mechanical bolt lock. Designed for high security perimeter gate installations. 'SGL' features a 24 volt powered solenoid bolt retraction, with automatic latching upon gate closure. An ideal choice where controlled access is required to a secure facility.



Controlled exit, with optional mechanical override in case of power failure, is available. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Surface mounted for maximum strength
- 22 mm (7/8") diameter bolt x 20 mm (3/4") throw
- 316 grade stainless steel construction for hostile environments and durability
- Tested to over 1,000,000 cycles
- Key override entry facility built in as standard
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Automatically secured upon gate closure
- Easily integrated with any proprietary access control system
- Engineered for longevity and trouble-free service
- Easy retrofit, to upgrade existing gates

OPTIONAL ENHANCEMENTS

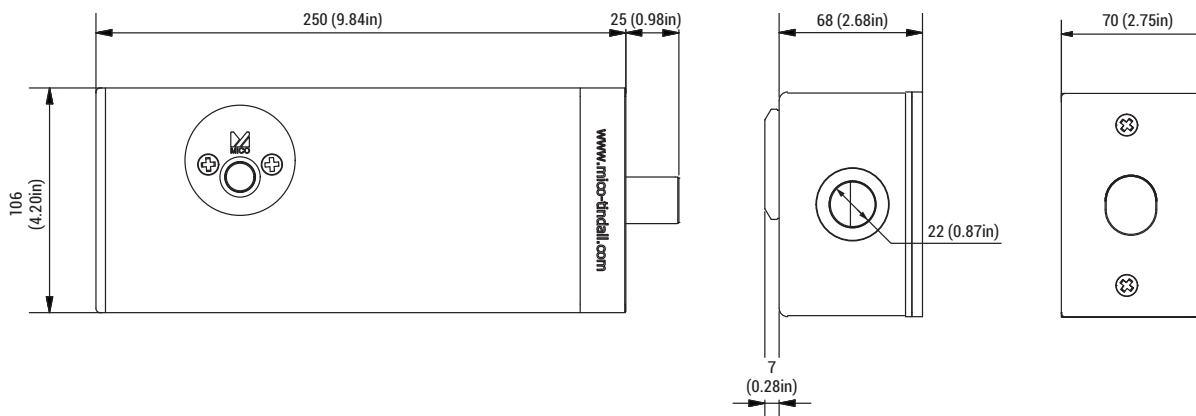
- Internal key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|---------|---|---|---|---|---|---|--------|---------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-------------|-------------|----------------|-----------|--|--|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | | |
| A | B | C | D | E | F | G | H | SR 1-8 | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | NONE | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | BR2 | | | EN 179 | FB6 | EXV 15 | EN 1634-1 | EN 1670:GR4 | | 500K | | |
| 10 MIN | | | | | | | | | | 30 MINS | RC4 | | | | FB5 | EN 1670:GR3 | | | | | | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC3 | | | | UL 305 | FB4 | | EN 1670:GR2 | | | | | |
| 3 MIN | | | | | | | | | | 5 MINS | RC2 | BR1 | | | | FB3 | | CERTIFIRE | | | | | |
| 1 MIN | | | | | | | | | | | | | | | | | | EN 1670:GR1 | 200K | | | | |

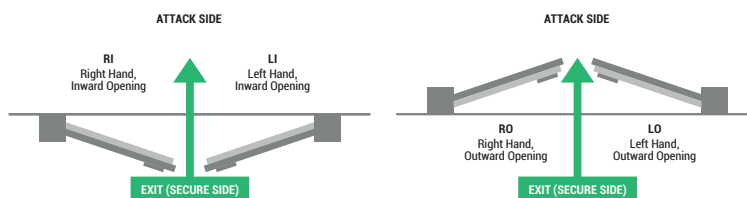
SGL TECHNICAL DRAWING



SELF CODING SYSTEM

The 'SGL' (SG) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: SG1A-APXX-AB-APXX



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|--------------------|-------|-----------------|--------------------|-------------------|-------------------|-----------------|--------------------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| SG | Solenoid gate lock | 1 | X | None | AB | Auto bolting only | X | None |
| BOLT DIRECTION | | | A | Access control | | | A | Access control |
| A | Horizontal bolt | | K | Key | | | K | Key |
| | | | BOLT RETRACTION | | | | T | Thumbturn |
| | | | X | None | | | BOLT RETRACTION | |
| | | | P | Powered (Electric) | | | X | None |
| | | | M | Manual | | | P | Powered (Electric) |
| | | | OPERATOR | | | | M | Manual |
| | | | XX | None | | | OPERATOR | |
| | | | KK | Key | | | XX | None |
| | | | | | | | KK | Key |
| | | | | | | | TN | Thumbturn |

EXAMPLE BOLT DIRECTIONS

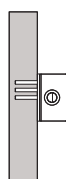
See coding chart above for reference



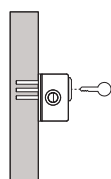
No Bolts (1)
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

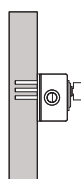
See coding chart above for reference



Entry (APXX)
Exit (APXX)



Entry (APXX)
Exit (KMXX)



Entry (AMXX)
Exit (TMXX)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



EXTERNAL DEVICES

| | EXTERNAL DEVICES | CYLINDER GUARDS | LEO | MLK | ELK | HASP & STAPLE | NAVIS-SHIELD | |
|------|------------------|-----------------|-----|-----|-----|---------------|--------------|---------------------------------|
| PAGE | 60 | 62 | 64 | 66 | 68 | 70 | | INSTALLATION |
| | • | • | • | • | • | • | | SURFACE MOUNTED |
| | • | • | | | | | | RECESS FITTED |
| | | | | | | | | ENTRY FUNCTION (OPTIONS) |
| | • | | | | | • | | KEY |
| | • | • | • | • | | | | KEY & LEVER HANDLE OR KNOB |
| | • | | | | | | | KEY OVERRIDE PROTECTION |
| | • | | | | | | | HANDS FREE MOTORISED |
| | | | | | | | | COMBINATION LOCK & / OR LEVER |
| | | • | • | • | • | | | PADLOCKABLE / LOCKABLE OPERATOR |
| | | | | | | | | PERFORMANCE |
| | | | | | | | | EN 1125 |
| | | | | | | | | EN 179 |
| | | | | | | | | UL 305 |
| | • | • | | • | | | | EN 1634-1 * |
| | • | | | | | | | UL 10C * |
| | • | • | | | | | | CERTIFIRE |
| | • | | • | • | • | • | | LPS 1175 * |
| | • | | | | | | | FEBR * |
| | • | | | | | | | EN 1627 * |
| | • | | | | | | | STS 202 * |
| | • | | • | • | • | | | SRB * |
| | • | | | | | | | PAS 24 |
| | • | | | | | | | EN 1522 * |
| | • | • | | | | | | ISO 16933 * |
| | • | • | • | • | • | • | | EN 1670 |
| | • | | | | | | | TESTING |
| | | | | | | | | LIFE SAFETY |
| | | | | | | | | FIRE |
| | | | | | | | | SECURITY |
| | | | | | | | | BALLISTIC |
| | | | | | | | | BLAST |
| | | | | | | | | CORROSION |
| | | | | | | | | SEISMIC |

* - When tested on selected doorsets

The Surelock McGill Cylinder Guard range have been developed and continuously improved to meet the evolving threats of the terrorist world. Providing protection against multiple threat, including manipulation, bumping, physical attack, ballistic, blast and fire. Successfully tested and certified to many international standards.

The cylinder guard range can accommodate round rim and profile cylinders commercially available from almost all manufacturers. A well proven modular mounting footprint, together with a balance of unique materials enables the correct level of security protection to be selected.

FEATURES

- Modular mounting
- Tested to over 1,000,000 cycles, on selected cylinders
- To suit rim and profile cylinders (order cylinder separately)
- Available for mortice, or surface mounted locks

BENEFITS

- Combined risk protection
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible fixings



GSS2 / GSS3
SR2 / 3



GSS4
SR4



GSS5
SR5



GSS6
ULTIMATE



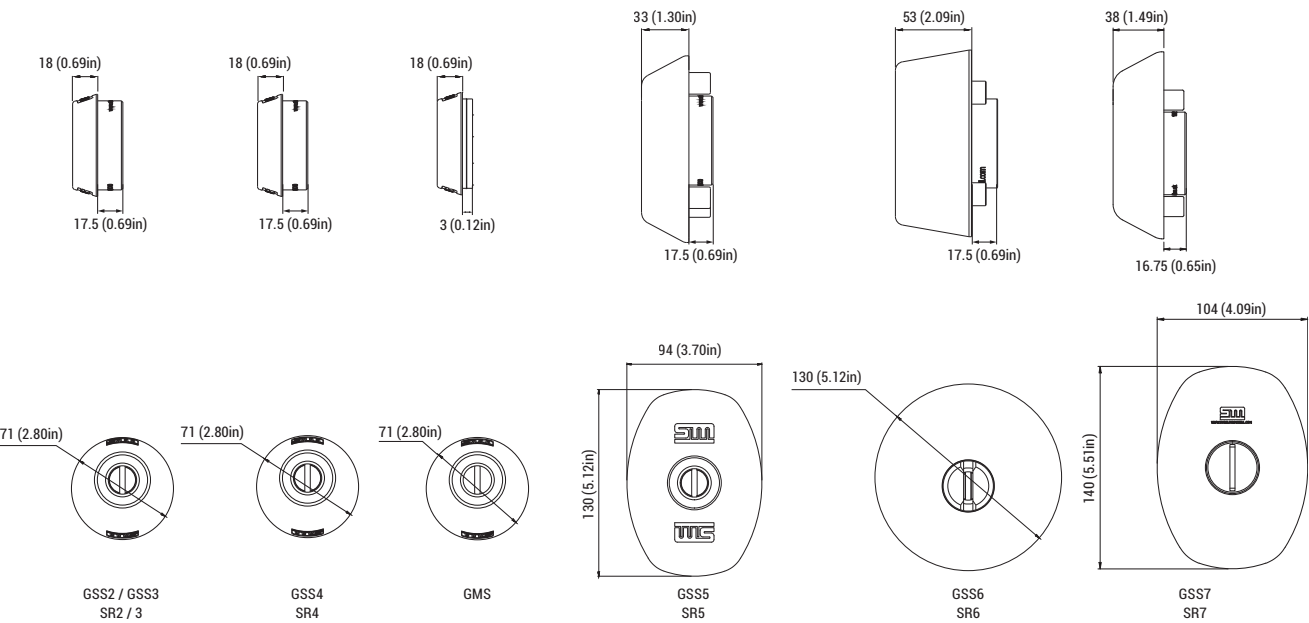
GSS7
SR7

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|-----|-----|-----|-----|-----|----|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-------------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | A10 | B10 | C10 | D10 | E10 | F10 | | | | 45 MINS | | RC4 | | | BR1 | FB5 | EN 1670:GR3 | | 200K | | |
| 5 MIN | | | | | | | G5 | | | 30 MINS | RC3 | UL 305 | | | | FB4 | CERTIFIRE | EN 1670:GR2 | | | |
| 3 MIN | | | | | | | | | | 15 MINS | RC2 | FB3 | | | EN 1670:GR1 | | | | | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | | | | | |

CYLINDER GUARDS TECHNICAL DRAWINGS



SELF CODING SYSTEM

Cylinder Guards have a simple ordering code that covers the chosen level of security protection, cylinder profile, lock mounting and fixings.

*Contact our technical department for more information.

EXAMPLE ORDER CODE: GS-LD05-RR61

| PRODUCT NAME | | ACCREDITATION | | SECURITY RATING (SR/SC) | | ATTACK DURATION | | CYLINDER PROFILE | | FIXINGS | | FIXING PLATE | |
|--------------|---------|---------------|----------|-------------------------|--|-----------------------------|--|------------------|----------------------|---------|---------------------|--------------|----------|
| GS | Surface | L | LPS 1175 | SR1 – SR8 (Issue 7) | | | | RR | Round Rim (Standard) | X | No fixings supplied | X | None |
| GM | Mortice | | | A – H (Issue 8) | | 01, 03, 05, 10, 15, 20 Mins | | AR | Abloy Rim | 4 | 40mm (1 1/2") | 1 | Included |
| | | S | LPS 2081 | A01 or B03 | | | | SI | Mortice (Screw-in) | 5 | 50mm (2") | | |
| | | E | EN 1627 | RC1 – RC6 | | | | SO | Scan Oval | 6 | 60mm (2 3/8") | | |
| | | F | FEBR | X | | 05, 15, 30, 60 Mins | | EU | Euro-profile | 7 | 70mm (2 3/4") | | |
| | | P | PAS 24 | XXX | | | | | | 8 | 80mm (3 1/4") | | |
| | | M | MFES* | 500 or ULT | | | | | | 9 | 90mm (3 1/2") | | |

The LEO range is an aesthetic and rugged exit device trim with key and lever handle for panic/emergency exit doors. LEO's are well proven in extremely challenging environments and available as surface mounted or recessed for higher level resistance against forced entry. The range also protects against increasing levels of physical attack.

The LEO modular design enables them to operate Surelock McGill panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability.



SURFACE LEO

FEATURES

- Surface, or recessed into the door for higher security
- 8 mm (5/16") or 9.5 mm (3/8") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability
- Tested to over 1,000,000 cycles
- To suit morticed (screw-in) or profile cylinder (order cylinder separately)
- Bolt-through mounting from inside the door

BENEFITS

- Provides external key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals



RECESSED LEO

SURFACE LEO

OPTIONAL ENHANCEMENTS

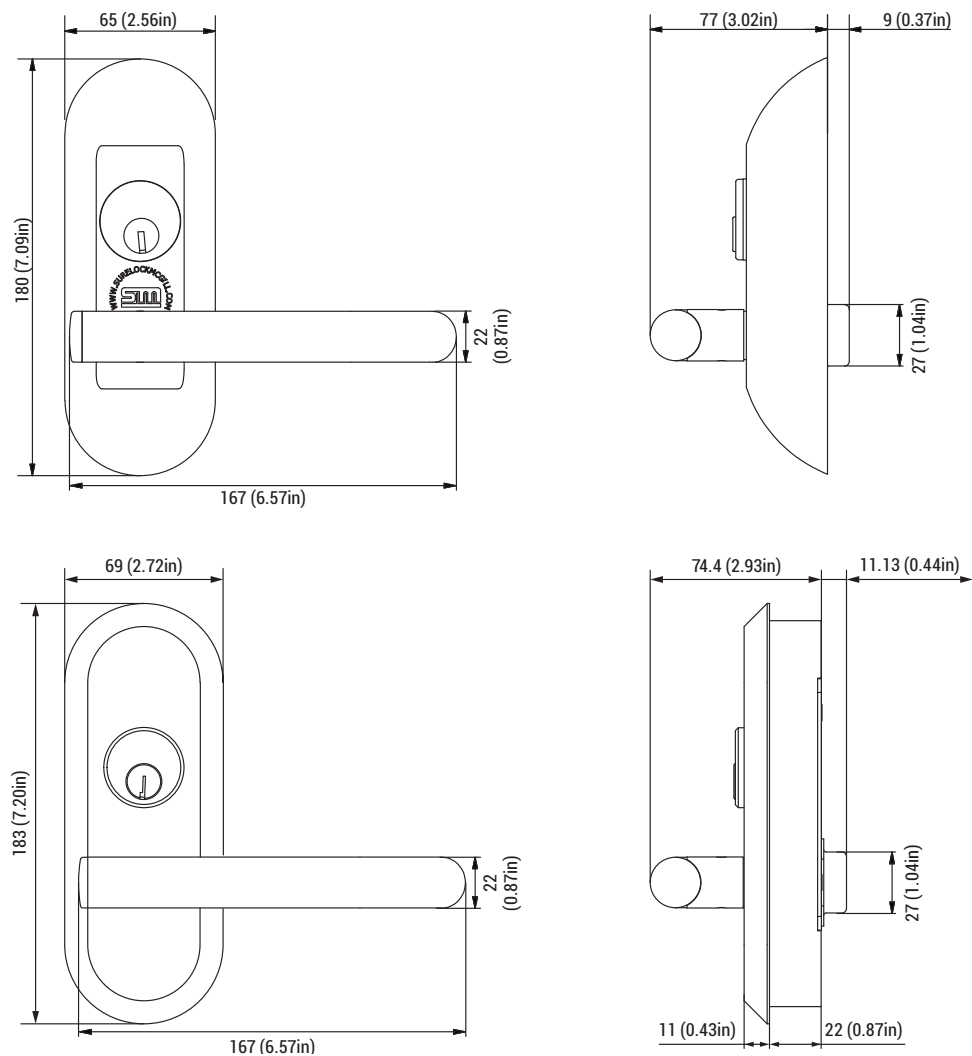
- Key retained in unlocked position (provides automatic re-locking)
- Monitoring of lock status
- Cylinder protection guard with anti-drilling plate

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|---------|---|---|---|---|---|---|---|---------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-------------|-------------|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | SR 1-8 | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | NONE | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | |
| 15 MIN | | | | | | | | | | RC5 | | | | | | | | | | | | |
| 10 MIN | | | | | | | | | | 45 MINS | RC4 | BR2 | | | | | FB6 | | EN 1634-1 | | EN 1670:GR4 | |
| 5 MIN | | | | | | | | | | 30 MINS | RC3 | | | | | | FB5 | | | | EN 1670:GR3 | |
| 3 MIN | | | | | | | | | | 15 MINS | RC2 | BR1 | | | | | FB4 | EXV 15 | | | EN 1670:GR2 | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | FB3 | | | | | EN 1670:GR1 |

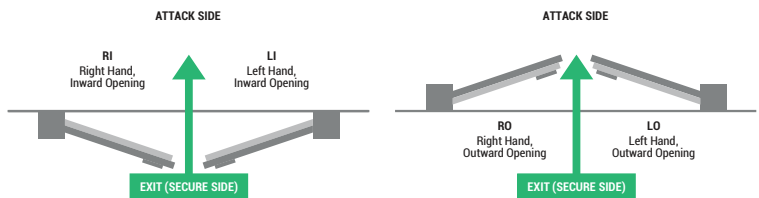
LEO TECHNICAL DRAWINGS



ORDERING CODES

LEO lockable handles have a simple ordering code that covers the chosen mounting method, cylinder profile, cylinder protection and handing configuration.

EXAMPLE ORDER CODE: LEO-R-SIMLSA-RH



| Product Name | | Cylinder Profile | | Re-Locking | | Lever Handle | | Drive Spindle | | Handing | | Optional Enhancements | |
|--------------|----------|------------------|--------------------|------------|------------------------|--------------|-------------------------------------|---------------|--------------|---------|------------|-----------------------|----------------------------------|
| LEO-S | Surface | SI | Mortice (Screw-in) | M | Manual | LS | Lever handle (Tubular straight) | A | 8mm (5/16") | RH | Right hand | M01 | Lock Monitoring (Microswitch) |
| LEO-R | Recessed | EU | Euro-profile | A | Auto (Key retained) | LE | Lever handle (Tubular ergonomic) | B | 9.5mm (3/8") | LH | Left hand | | |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference

Entry (LEO-S) Entry (LEO-R)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The MLK is a basic cost-effective exit device trim with key and lever handle for panic/emergency exit doors. MLK's are surface mounted and provide a higher level of physical protection than commercially available exit device trims.

The MLK modular design enables them to operate Surelock McGill group panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability.



FEATURES

- 8 mm (5/16") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability
- Tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)
- Bolt-through mounting from inside the door

BENEFITS

- Provides external key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals

OPTIONAL ENHANCEMENTS

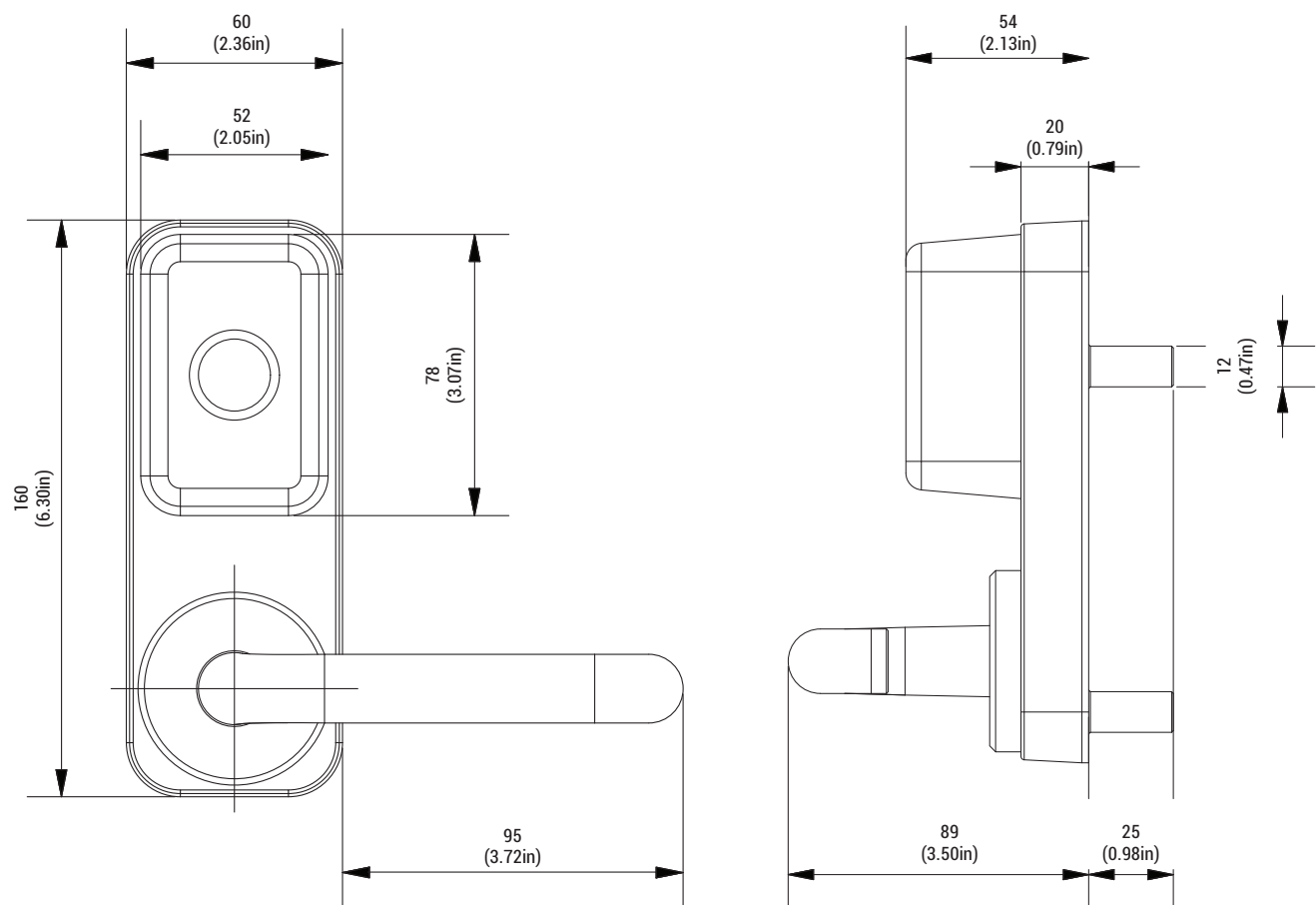
- Key retained in unlocked position (provides automatic re-locking)

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | | |
|---------------|---------|----|---|---|---|---|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-----------|-------------|-------------|------|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | SR 1-8 | | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR1 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | | |
| 15 MIN | | | | | | | | | | | RC5 | | | | | | | | | | | | | |
| 10 MIN | | | | | | | | | | | 45 MINS | RC4 | | | BR2 | | | FB6 | | | EN 1634-1 | EN 1670:GR4 | | |
| 5 MIN | | | | | | | | | | | 30 MINS | RC3 | | | | | | FB5 | | | | EN 1670:GR3 | 500K | |
| 3 MIN | A3 | B3 | | | | | | | | | 15 MINS | RC2 | | | BR1 | | | FB4 | EXV 15 | | | EN 1670:GR2 | | 200K |
| 1 MIN | | | | | | | | | | | 5 MINS | RC1 | | | | | | FB3 | | | | CERTIFIRE | EN 1670:GR1 | |

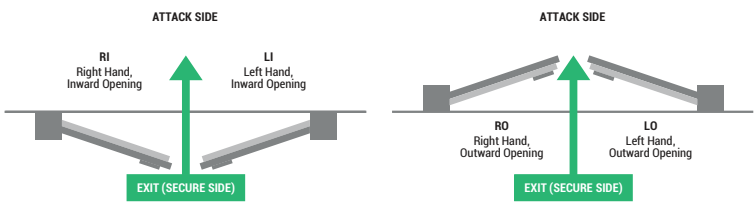
MLK TECHNICAL DRAWING



ORDERING CODES

MLK has a simple ordering code that covers the security level, cylinder profile and handing configuration.

EXAMPLE ORDER CODE: MLK-RRMLS-RH



| PRODUCT NAME | | CYLINDER PROFILE | | RE-LOCKING | | CYLINDER TYPE | | HANDING | |
|--------------|----|------------------|---|---------------------|--|---------------|---------------------------------|---------|------------|
| MLK | RR | Round Rim | M | Manual | | LS | Lever handle (Tubular straight) | XX | Non-handed |
| | SO | Scan Oval | A | Auto (Key retained) | | US | Profile handle (Straight) | RH | Right hand |
| | EU | Euro-profile | | | | TR | Turnknob handle | LH | Left hand |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (MLK-RRMLS-RH)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The ELK is a range of robust exit device trim with key and lever handle for panic/emergency exit doors. ELK's are recessed into the door for higher level resistance against forced entry. The range protects against increasing levels of physical attack, meeting various international standards.

The ELK modular design enables them to operate Surelock McGill panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability.



FEATURES

- Recessed into the door for higher level resistance against physical attack
- 8 mm (5/16") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability (ELK-3)
- Engineered using selected composite materials, providing higher levels of attack resistance (ELK-4)
- Tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)
- Bolt-through mounting from inside the door

BENEFITS

- Provides external key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals

OPTIONAL ENHANCEMENTS

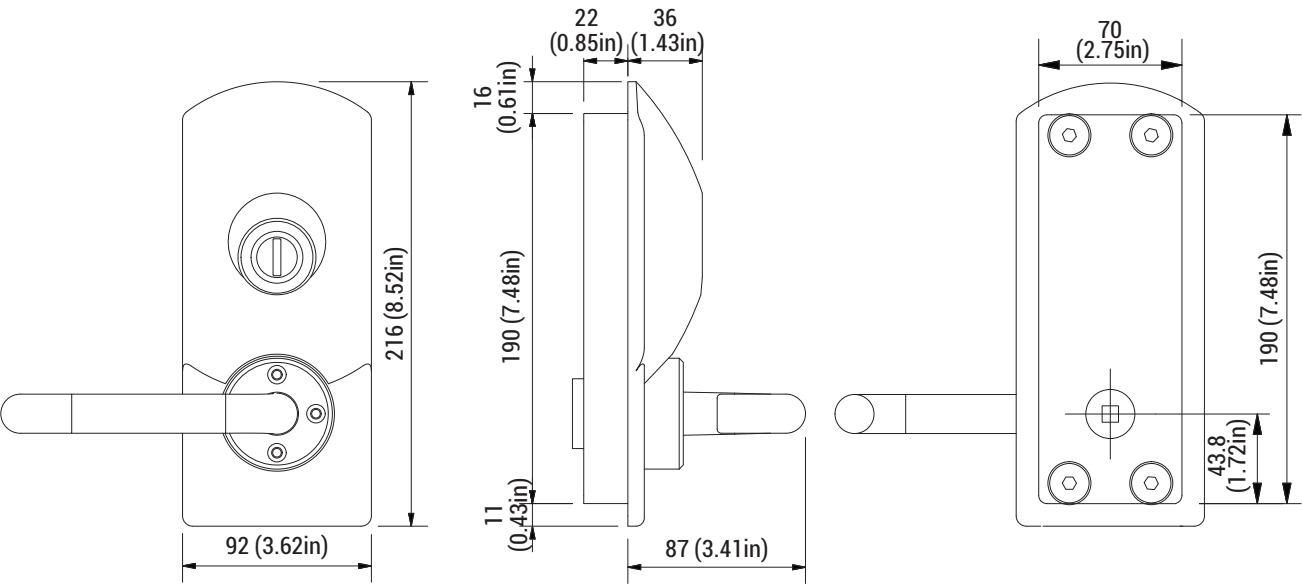
- Key retained in unlocked position (provides automatic re-locking)
- Monitoring of lock status
- Choice of lever handle type

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|-------|-----|-----|-----|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | | EN 179 | | FB6 | | | EN 1634-1 | EN 1670:GR4 |
| 10 MIN | A10 | B10 | C10 | D10 | | | | | | 30 MINS | RC4 | BR2 | | | | FB5 | | | EN 1670:GR3 | | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC3 | | | | | | | | | | EN 1670:GR2 | |
| 3 MIN | | | | | | | | | | | RC2 | BR1 | | | | UL 305 | FB4 | EXV 15 | CERTIFIRE | | EN 1670:GR1 | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | FB3 | | | | | |

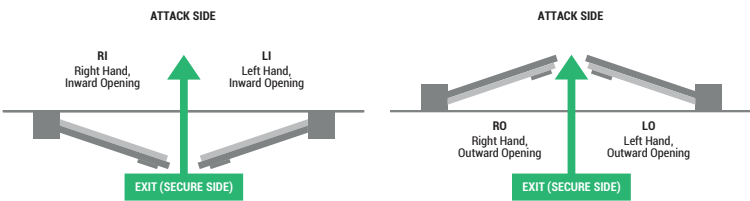
ELK TECHNICAL DRAWINGS



ORDERING CODES

ELK has a simple ordering code that covers the security level, cylinder profile and handing configuration.

EXAMPLE ORDER CODE: ELK3-RRALS-RH



| Product Name | | Cylinder Profile | | Re-Locking | | Cylinder Type | | Handing | | Optional Enhancements | |
|--------------|--|------------------|--------------|------------|---------------------|---------------|----------------------------------|---------|------------|-----------------------|-------------------------------|
| ELK-3 | | RR | Round Rim | M | Manual | LS | Lever handle (Tubular straight) | RH | Right hand | M01 | Lock monitoring (Microswitch) |
| ELK-4 | | SO | Scan Oval | A | Auto (Key retained) | LE | Lever handle (Tubular ergonomic) | LH | Left hand | | |
| | | EU | Euro-profile | | | US | Profile handle (Straight) | | | | |
| | | | | | | TR | Turnknob handle | | | | |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (ELK3-RRALS-RH)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The Panic Hasp & Staple is a range of high security exit device trim, providing padlock and handle entry for panic/emergency doors. When secured, the hasp shields the padlock and provides weather protection. With the padlock removed the hasp becomes the entry handle. The range protects against increasing levels of physical attack, meeting various international standards.

The Hasp and Staple modular design operate Surelock McGill panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability



HS1

FEATURES

- Surface mounted
- Non handed
- 8 mm (5/16") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability
- Tested to over 500,000 cycles
- Compatible with open shackle padlocks from leading manufacturers (order padlocks separately)
- Bolt-through mounting from inside the door

BENEFITS

- Provides external padlock/key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals
- Maximum 14mm (9/16") diameter shackle



HS2



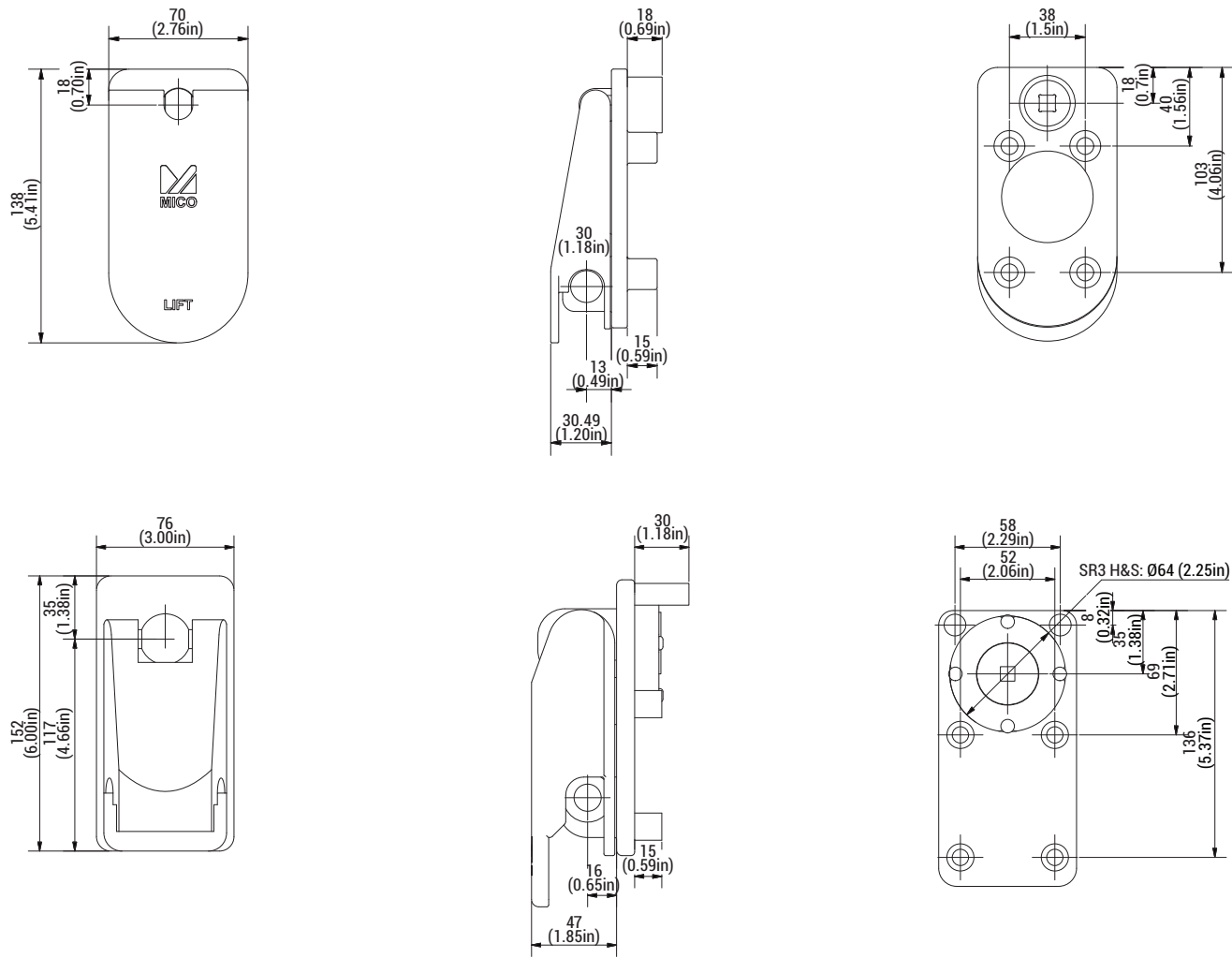
HS3

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | | |
|---------------|---------|----|----|---|---|---|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-------------|----------------|------|------|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | SR 1-8 | | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | | 1 MILLION | | | |
| 15 MIN | | | | | | | | | | | RC5 | | | | | EN 179 | FB6 | | EN 1634-1 | | EN 1670:GR4 | SEISMIC TESTED | | |
| 10 MIN | | | | | | | | | | | RC4 | BR2 | | | | FB5 | | | EN 1670:GR3 | | | | 500K | |
| 5 MIN | A5 | B5 | C5 | | | | | | | | 30 MINS | RC3 | | | | | | | | | EN 1670:GR2 | CERTIFIRE | | 200K |
| 3 MIN | | | | | | | | | | | 15 MINS | RC2 | | | BR1 | | | UL 305 | FB4 | | EN 1670:GR1 | | | |
| 1 MIN | | | | | | | | | | | 5 MINS | RC1 | | | | | | | FB3 | | | | | |

HASP & STAPLE TECHNICAL DRAWING



SELF CODING SYSTEM

The Hasp & Staple range has a simple ordering code that covers the security level tested to on selected doorsets.

EXAMPLE ORDER CODE: HS2

| HASP & STAPLE | SECURITY RATING | | |
|---------------|-----------------|----------|------|
| MODEL | BASE | ENHANCED | HIGH |
| HS1 | • | | |
| HS2 | | • | |
| HS3 | | | • |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (HS3)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

MICO Navis range has been specially designed and developed to secure valuable assets where enhanced security is required including electricity substations, plant rooms, chlorine storage rooms or remote sites. A heavy duty locking pin secures the door set preventing access without the suitable key to release it.

The range offers protection in the most hostile external environments.



NAVIS-SHIELD

FEATURES

- 316 Brushed stainless steel construction as standard.
- 12.7mm (½ Inch) diameter locking pin
- 6x bolt through M8 fixings for additional strength
- Compatible with market leading mechatronic cylinder for increased security and allowing remote control and full audit trail
- Range of packing plates available on request for ISO containers to allow convenient fit around the central rubber doors
- To suit wide range of cylinders including Scandinavian oval rim and Ingersoll profiles
- Easy to change cylinder with removable cylinder housing

BENEFITS

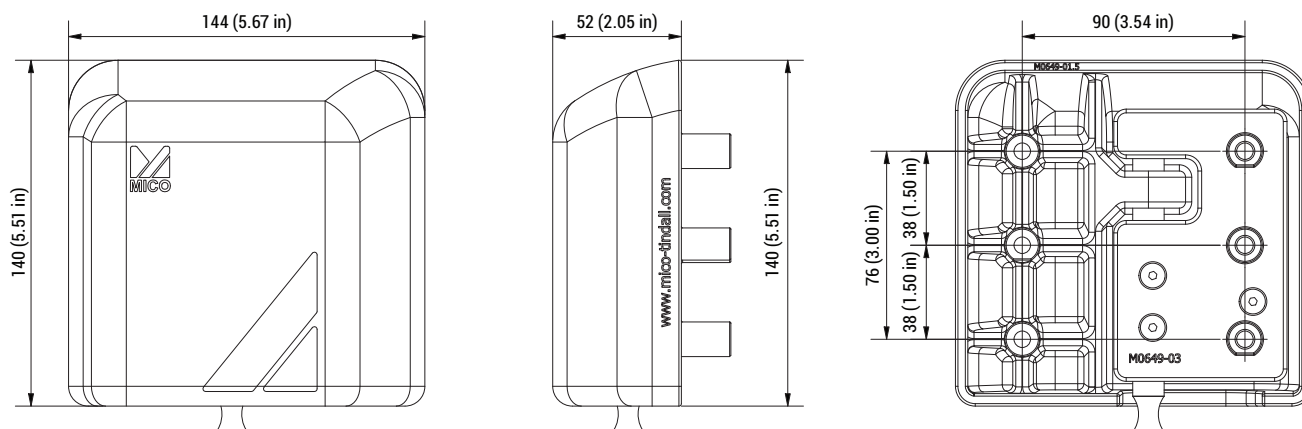
- Tested and approved to LPS 1175 B5 (SR2) on selected doorsets
- Tested and approved to LPS 1175 C5 (SR3) on selected doorsets
- Tested and approved to BS EN 1670:GR5 very high corrosion

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|-------|----|----|---|---|---|---|---|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-------------|----------------|----------------|-----------|--------|
| ISSUE 8 | | | | | | | | | | | | | | | | | | | | | ISSUE 7 | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR2 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EN 1634-1 | EN 1670:GR4 | | | |
| 10 MIN | | | | | | | | | | 45 MINS | | RC4 | | | FB5 | EN 1670:GR3 | 500K | | | | | |
| 5 MIN | | B5 | C5 | | | | | | | 30 MINS | | RC3 | | | FB4 | EXV 15 | | EN 1670:GR2 | 200K | | | |
| 3 MIN | | | | | | | | | | 15 MINS | RC2 | FB3 | | | CERTIFIRE | EN 1670:GR1 | | | | | | |
| 1 MIN | | | | | | | | | 5 MINS | RC1 | BR1 | | | | | | | | | | | |

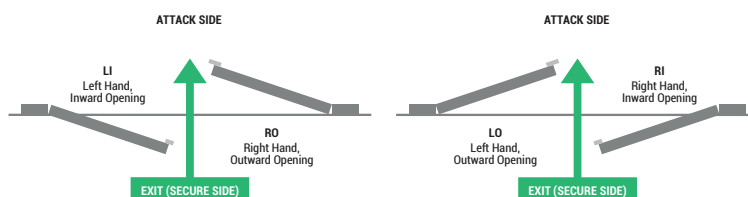
NAVIS-SHIELD TECHNICAL DRAWING



SELF CODING SYSTEM

The Navis-Shield (NA) has a simple ordering code that covers the chosen methods of entry, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: NA1A - K- MM - XXXX - XX



| PRODUCT | | | ENTRY | | SECURING | | EXIT | |
|----------------|-----------------|-----------------|-----------|-----|-------------------|-------------------------------------|-----------|------|
| RANGE | | BOLTS | UNLOCKING | | UPON DOOR CLOSURE | | UNLOCKING | |
| NA | Navis-shield | 1 | K | Key | MM | Manual bolting / Manual deadlocking | X | None |
| BOLT DIRECTION | | BOLT RETRACTION | | | | BOLT RETRACTION | | |
| A | Horizontal bolt | M | Manual | | | X | None | |
| | | OPERATOR | | | | OPERATOR | | |
| | | XX | None | | | XX | None | |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



ANCILLARIES

RIES

| | ANCILLARIES | SECURITY HINGES | HC HINGES | FLUSH BOLTS | BARREL BOLTS | VISION PANELS | LOUVERS | DOOR STAY | ADD DOOR OPERATORS | KEY RINGS | ANTI-LIGATURE HANDLES | H/DUTY LEVER HANDLES | THROUGH-BOLT KIT | | |
|------|-------------|-----------------|-----------|-------------|--------------|---------------|---------|-----------|--------------------|-----------|-----------------------|----------------------|------------------|-------------------------------|-------------|
| PAGE | 74 | 78 | 86 | 88 | 90 | 92 | 94 | 96 | 100 | 102 | 104 | 106 | | INSTALLATION | |
| | • | • | | • | | | • | • | | • | • | • | | SURFACE MOUNTED | |
| | • | | | | | | | | | • | | | | MORTICE FITTED | |
| | | | • | | • | • | | | | | | | | FITTED INTO DOOR CORE | |
| | | | | | | • | | | | | | | | FITTED INTO WALL CONSTRUCTION | |
| | | | | | | | | | | | | | | PERFORMANCE | |
| | | | | | | | | | | | | | | EN 1125 | LIFE SAFETY |
| | | | | | | | | | | | | | | EN 179 | |
| | | | | | | | | | | | | | | UL 305 | |
| | • | | | • | • | | | | | | | | | EN 1634-1 * | FIRE |
| | • | | | | | | | | | | | | | UL 10C * | |
| | | | | | • | | | | | | | | | CERTIFIRE | |
| | • | | | • | • | | | | | | | | | LPS 1175 * | SECURITY |
| | • | | | • | | | | | | | | | | FEBR * | |
| | | | | | | | | | | | | | | EN 1627 * | |
| | | | | | | | | | | | | | | STS 202 * | |
| | • | | | • | • | | | | | | | | | SRB * | |
| | | | | | | | | | | | | | | PAS 24 | BALLISTIC |
| | • | | | | • | | | | | | | | | EN 1522 * | |
| | • | | | | • | • | | | | | | | | ISO 16933 * | BLAST |
| | • | | | • | | • | • | | • | • | • | | | EN 1670 | CORROSION |
| | | | | | | | | | | | | | | TESTING | SEISMIC |

(*) - When tested on selected doorsets

A range of heavy duty 5-knuckle security hinges specially designed for high performance doors. Each hinge provides unrivalled levels of load carrying capability for its size and able to withstand blast, ballistic, forced entry attacks and fire resistance.

Self-lubricating bearings within and between each knuckle ensure continued smooth operation and longevity. Optional unique dog bolts (security pins) offer further levels of protection. Tested and accredited to meet various international standards. Manufactured in 316 stainless steel for hostile environments and durability.



FEATURES

- Unrivalled levels of load carrying capability
- Robust five-knuckle design
- 316 grade stainless steel construction for hostile environments and durability
- Tested to over 1,000,000 cycles
- Sealed top and bottom knuckles

BENEFITS

- Self-lubricating bearings
- Engineered for longevity and trouble-free service
- Certified to a range of international standards (see Product Performance Chart)

OPTIONS

- Knock-in & Screw-in dog bolts (security pins) on HA6 & HA7 hinges
- Extended leaves for thicker doors on HA6 & HA7 hinges
- Special leaf width cutting, and mounting screw positions accommodated on 80mm leaves

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|---------|----|----|---|---|---|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-------------|-------------|------|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | SR 1-8 | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | |
| 15 MIN | | | | | | | | | | 45 MINS | RC4 | | | | | EN 179 | | FB6 | | | EN 1634-1 | EN 1670:GR4 | |
| 10 MIN | | | | | | | | | | 30 MINS | RC3 | BR2 | | | | | FB5 | | | | EN 1670:GR3 | | 500K |
| 5 MIN | A5 | B5 | C5 | | | | | | | 15 MINS | RC2 | | | | | | FB4 | EXV 15 | | | EN 1670:GR2 | | |
| 3 MIN | | | | | | | | | | 5 MINS | RC1 | BR1 | | | | UL 305 | FB3 | | | | CERTIFIRE | EN 1670:GR1 | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | | | |

HA6 100 MM (3.94 IN) 5-KNUCKLE SECURITY HINGE

Technical information

- Stainless steel for arduous environments
- Sealed top and bottom knuckles
- Bearings within and between each knuckle
- Additional 10 mm (0.393") hardware fixing hole for enhanced security
- Tested to over 1 million cycles
- CE marked BSEN 1935:2002



HA6

HA7 146 MM (5.75 IN) 5-KNUCKLE SECURITY HINGE

Technical information

- Stainless steel for arduous environments
- Sealed top and bottom knuckles
- Bearings within and between each knuckle
- Additional 10mm (0.393") hardware fixing hole for enhanced security
- Tested to over 1 million cycles
- CE marked BSEN 1935:2002



HA7

HA8 146 MM (5.75 IN) 5-KNUCKLE SECURITY HINGE

Technical information

- Face Mounting
- 316 Stainless steel for arduous environments
- Sealed top and bottom knuckles
- Bearings within and between each knuckle
- Tested to over 1 million cycles



HA8

SELF CODING SYSTEM

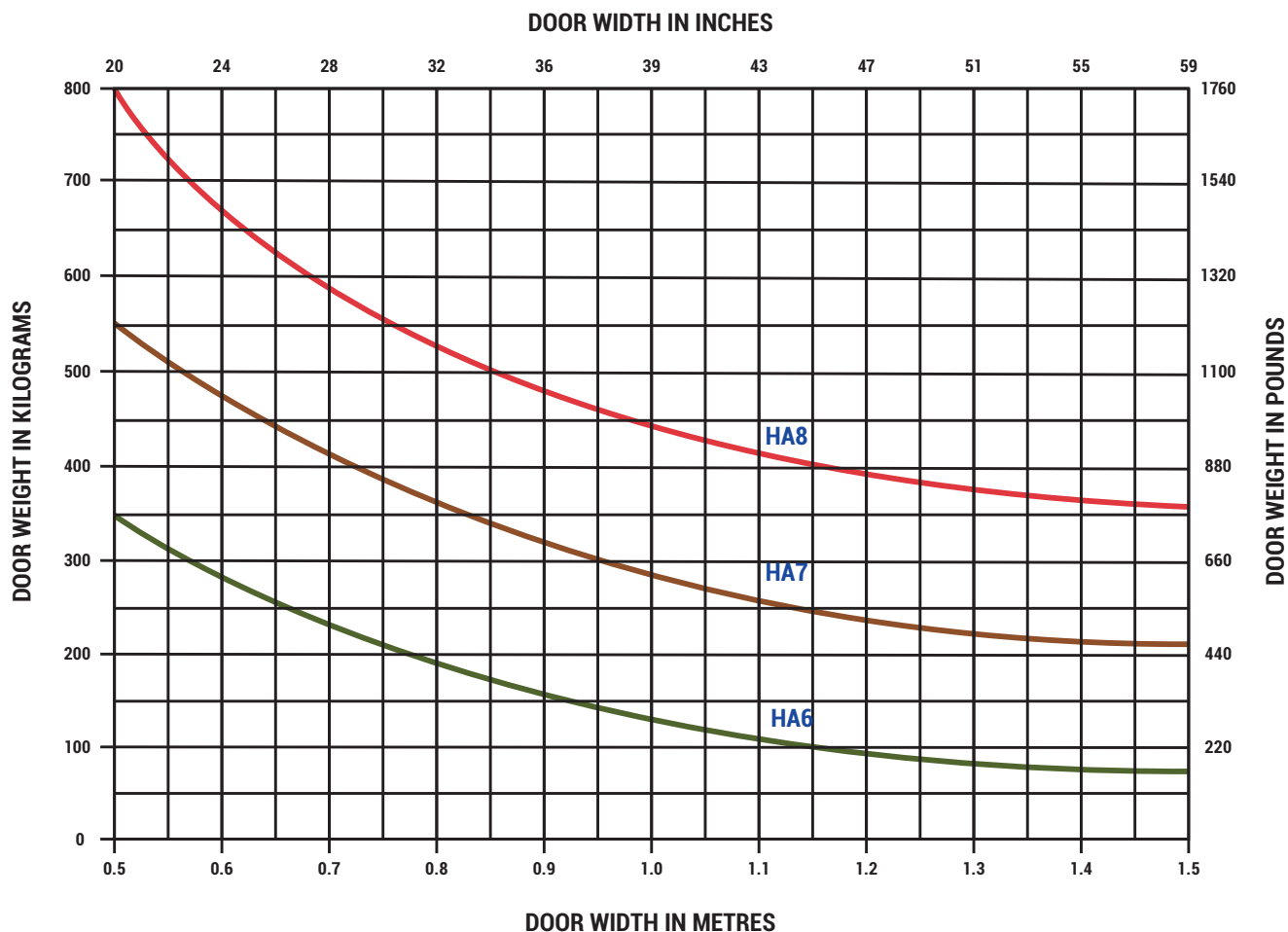
5-Knuckle Security Hinges have a simple ordering code that covers the size and security level tested to on selected doorsets.

EXAMPLE ORDER CODE: HA7-40-B -00

| SYSTEM | | TYPE | | MOUNTING PLATE SIZE | | | SECURITY PINS | | FINISH | |
|--------|-----------------|------|------------------|---------------------|---|--|---------------|----------------|--------|------------------|
| H | 5-Knuckle Hinge | 6 | 100 mm (4") | 40 | 40 mm (1 1/2") HA6 & HA7 (Standard) | | B | None | 00 | Satin (Standard) |
| | | 7 | 146 mm (5 3/4") | 50 | 50 mm (2") HA8 (Standard) | | K | 1 No. Knock-in | 01 | Polished |
| | | 8 | 210 mm (8 3/10") | 60 | 60 mm (2 1/4") + 20 mm (4/5") on HA6 & HA7 (Extended) | | S | 1 No. Screw-in | 15 | Lacquered brass |
| | | | | 80 | 80 mm (3 1/8") + 20 mm (4/5") on HA6 & HA7 (Extended) | | | | 16 | Lacquered bronze |
| | | | | 90 | 90 mm (3 1/2") + 20 mm (4/5") on HA6 & HA7 (Extended) | | | | 99 | Other special |
| | | | | | | | | | | |

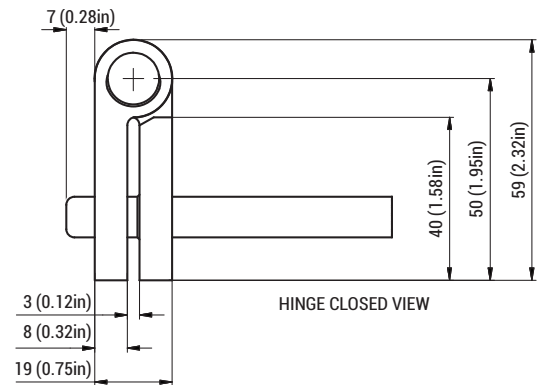
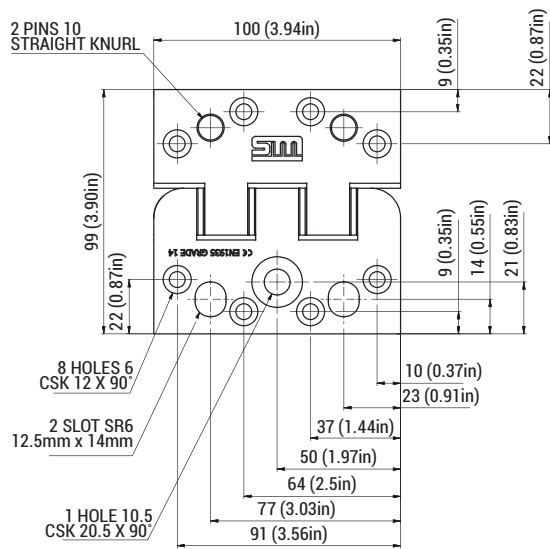
TECHNICAL INFORMATION

The following chart is a guide for maximum door sizes and weights, based on a door height of 2.2 metres (7ft) using three hinges equally spaced.

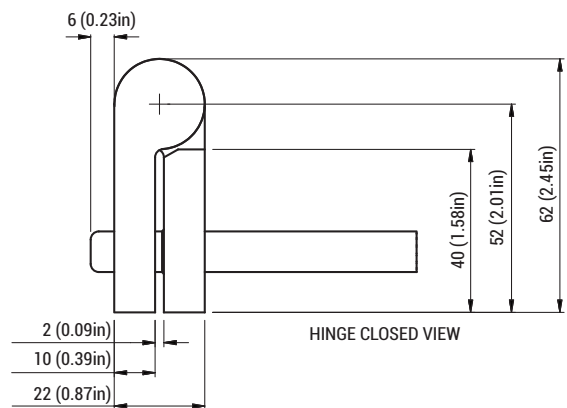
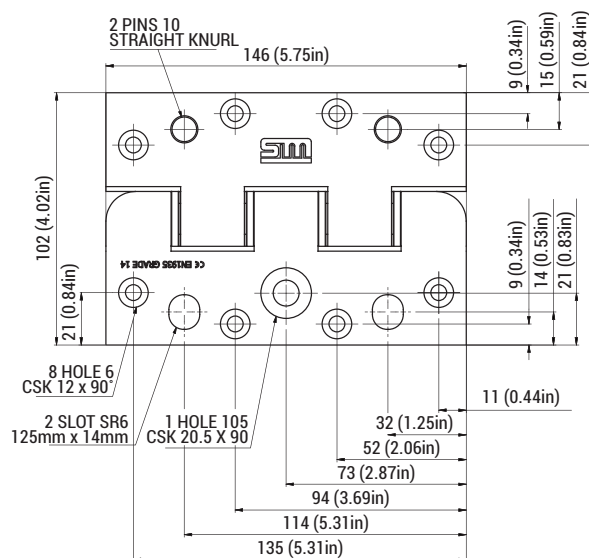


5-KNUCKLE SECURITY HINGES TECHNICAL DRAWINGS

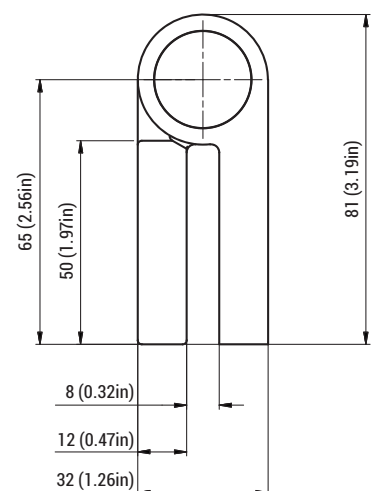
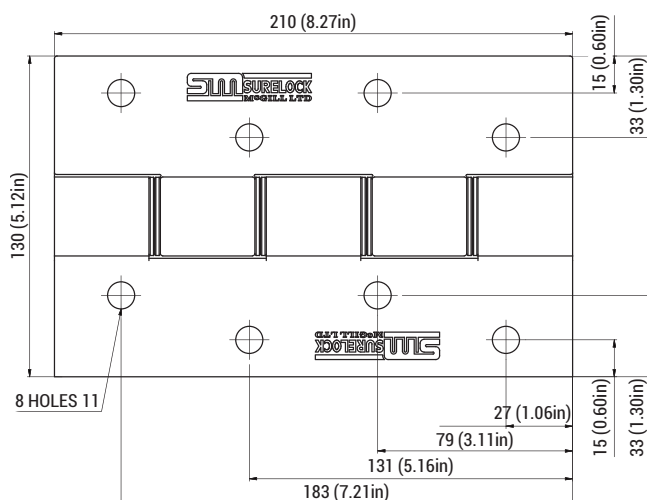
HA6



HA7



HA8



Fitted centrally on the door, the HC30 Cam Lift Hinges provide the lift momentum, which releases the door from the fixed threshold, reducing the potential risk of early wear and tear of the seal. This means that there is reduced need for costly and inefficient drop-down seals.

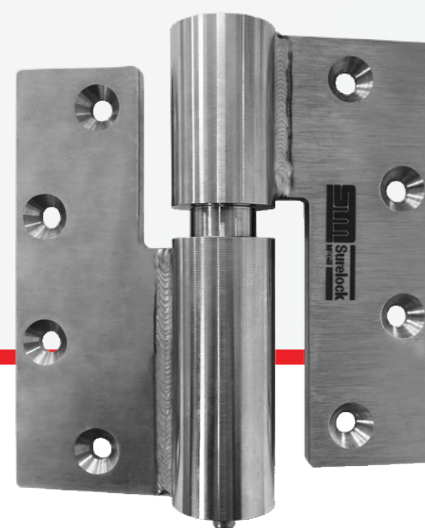
The HC30 Cam Lift Support Hinges are fitted at both the top and bottom of the door adding radial support to the Cam Lift.

FEATURES

- Designed to support heavy loading
- 3.55 mm (0.14") rise over 90 degrees
- 316 grade stainless steel offering long term durability
- Install using 8 x #12-24 UNC, or M6 undercut stainless steel screws (not supplied)
- Less than 5 pounds opening force on door leaves under 200 kg (440 lbs), to meet ADA requirements
- Mounting plates recessed into door and frame
- Radial load = 100 kg (220 lbs) per hinge
- Thrust load = 175 kg (385 lbs) per hinge

BENEFITS

- Grease nipple for ease of service
- Engineered for longevity and trouble-free service



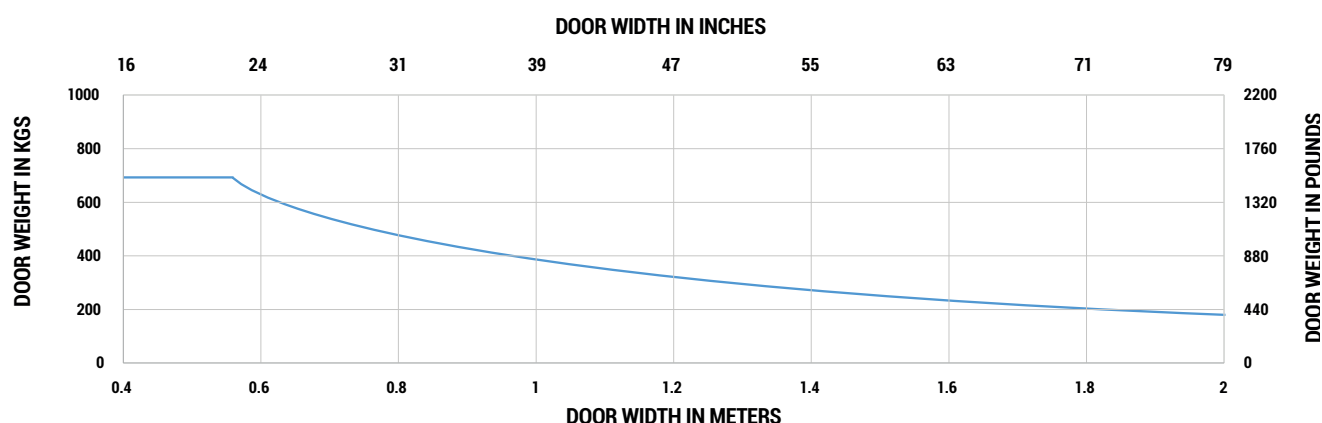
HC30 CAM LIFT



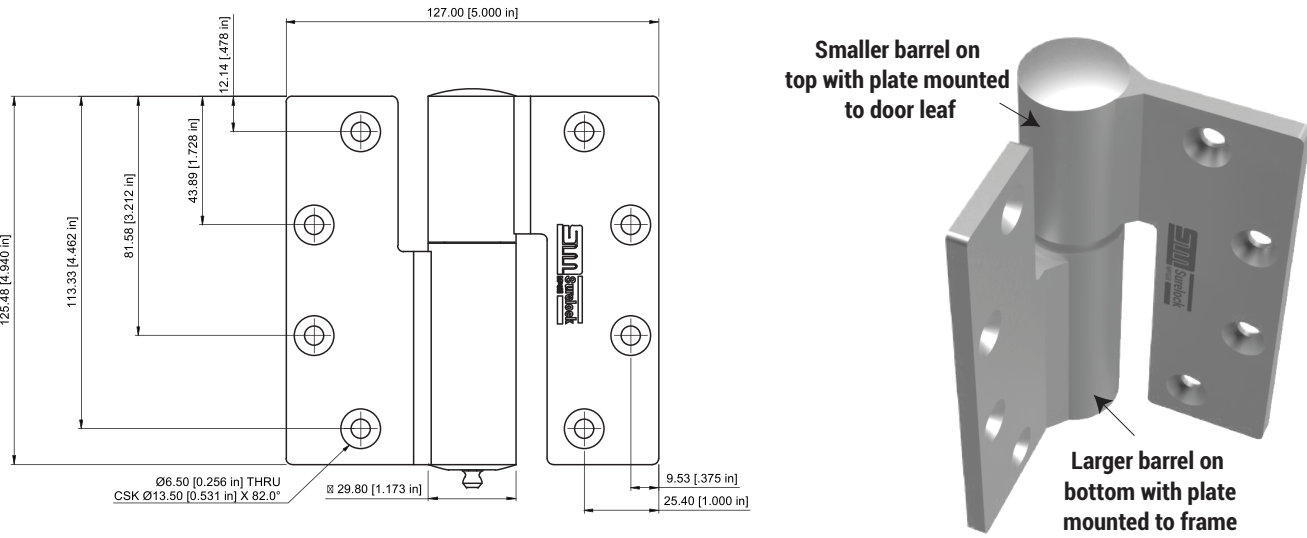
HC30 CAM LIFT SUPPORT

LOADING CHART

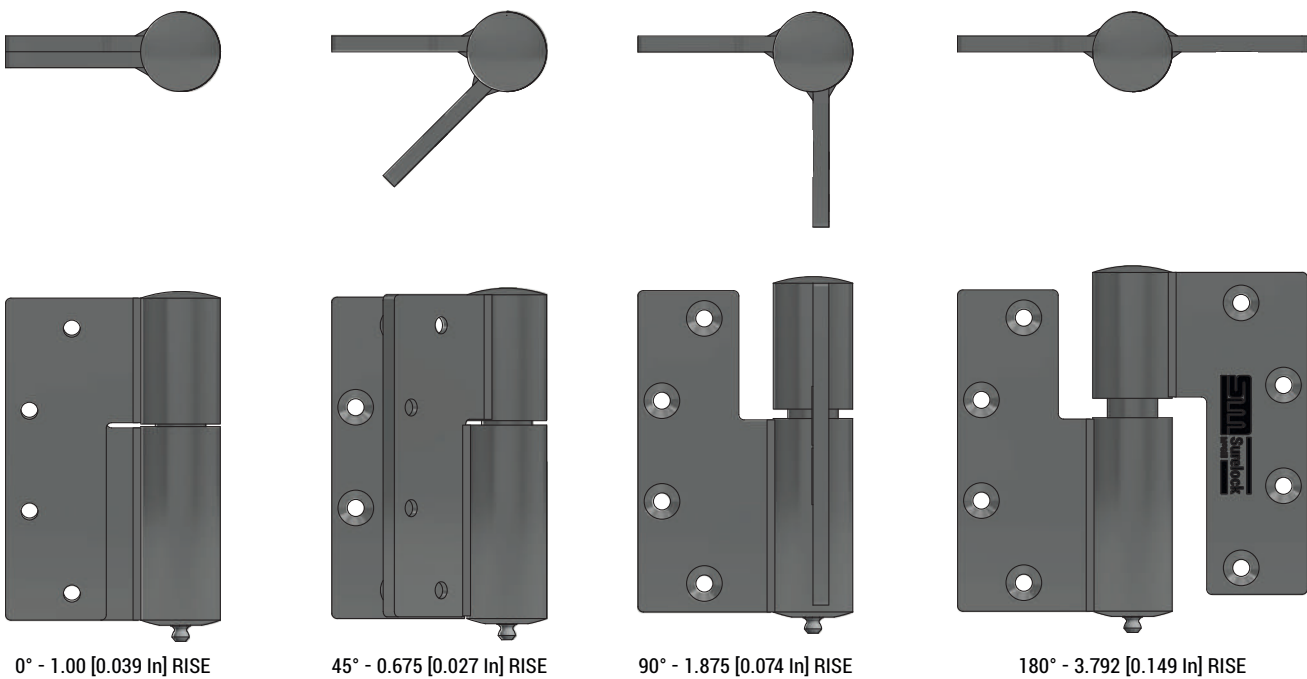
The following chart is a guide for maximum door widths and weights tested on a door height of 2.1 mm using 2 hinges spaced equally apart at the top and bottom of the leaf.



HC30 MEDIUM DUTY CAM LIFT HINGE TECHNICAL DRAWINGS



HC30 MEDIUM DUTY CAM LIFT HINGE DETAILS OF RISE



Adjust to ensure there is a gap between hinge barrel faces when closed, this maintains the helix drive force to close the door

SELF CODING SYSTEM

The HC30 Medium Duty Cam Lift Hinge has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: HC30-C2-55-B-00-LH

| SYSTEM | | LOADING REQUIREMENT | | TYPE | | MOUNTING PLATE WIDTH | | PIN | | FINISH | | ORIENTATION | |
|--------|----|---------------------|----|-------------------------------|----|----------------------|--|-----|---------------------|--------|-------|-------------|--------------|
| HC | 30 | Medium Duty | C2 | 2 x Cam-lift Hinge set | 55 | ANSI 5x5 Mortise | | A | 1 No. Knock Pins | 00 | Satin | RH | Right Handed |
| | | | C | Cam Lift | | | | B | No Pin Provided | | | LH | Left Handed |
| | | | S | Cam Lift Support | | | | E | 1 No. Screw-in Pins | | | | |
| | | | E | Electric Power Transfer (EPT) | | | | | | | | | |

Fitted at the top and bottom of the door, our HC30 Lift Off Hinges are designed to be used for medium loads. Fitted with a self lubricating thrust bearing, the HC30 Lift Off Hinges are designed to reduce maintenance

Designed for continued smooth operation and longevity. Tested and accredited to meet various international standards. Manufactured in 316 stainless steel for hostile environments and durability.



HC30 RIGHT HANDED LIFT OFF HINGE

FEATURES

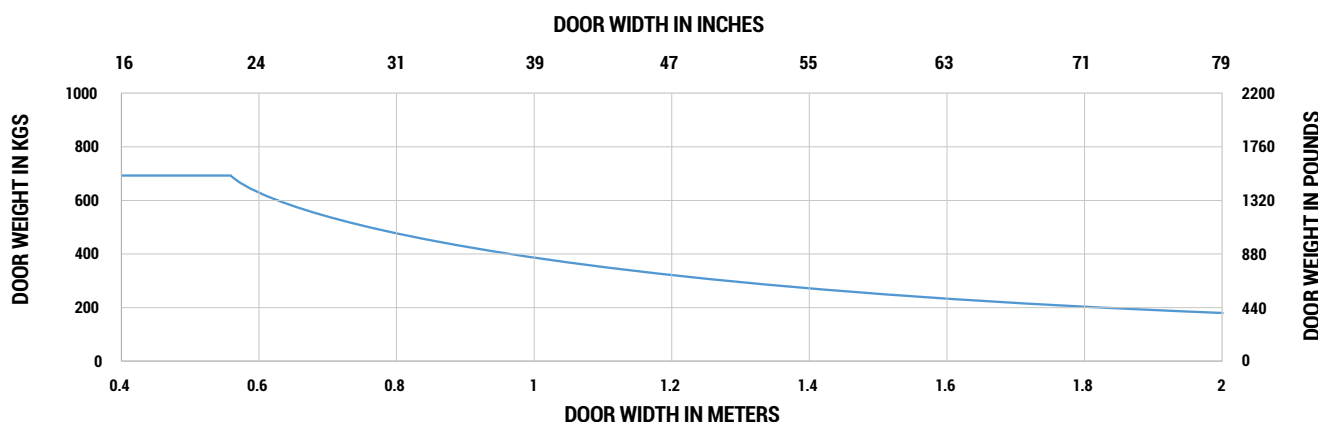
- Designed to support heavy loading
- 316 grade stainless steel construction offering long term durability
- Install using 8 x M12 grade 12.9, or 1/2"-13 UNC Grade 8 screws (not supplied)
- Mounting plates recess fitted onto door and frame

BENEFITS

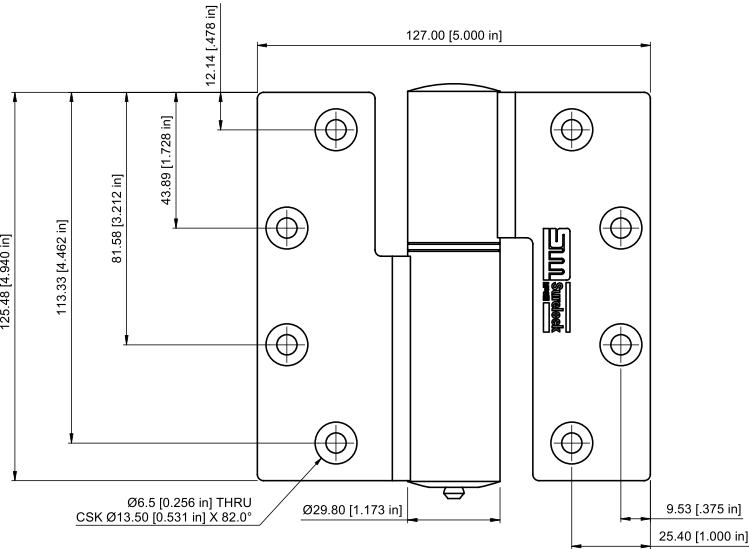
- Grease nipple for ease of service
- Self lubricating bearings

LOADING CHART

The following chart is a guide for maximum door widths and weights tested on a door height of 2.1 m using 2 hinges spaced equally apart at the top and bottom of the leaf.



HC30 MEDIUM DUTY LIFT OFF HINGE TECHNICAL DRAWINGS



SELF CODING SYSTEM

The HC30 Medium Duty Lift Off Hinge has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: HC30-L-55-B-00-LH

| SYSTEM | | LOADING REQUIREMENT | | TYPE | | MOUNTING PLATE WIDTH | | PIN | | FINISH | | ORIENTATION | |
|--------|----|---------------------|---|-------------------------------|----|----------------------|---|---------------------|----|--------|----|--------------|--|
| HC | 30 | Medium Duty | L | Lift Off | 55 | ANSI 5x5 Mortise | A | 1 No. knock-in Pins | 00 | Satin | RH | Right Handed | |
| | | | E | Electric Power Transfer (EPT) | | | B | No Pins Provided | | | LH | Left Handed | |
| | | | | | | | E | 1 No. Screw-in Pins | | | | | |
| | | | | | | | | | | | | | |

Fitted centrally on the door, the HC44 Cam Lift Hinges provide the lift momentum, which releases the door from the fixed threshold, reducing the potential risk of early wear and tear of the seal. This means that there is reduced need for costly and inefficient drop-down seals.

The HC44 Cam Lift Support Hinges are fitted at both the top and bottom of the door adding radial support to the Cam Lift.



HC44 CAM LIFT HINGE



HC44 CAM LIFT SUPPORT

FEATURES

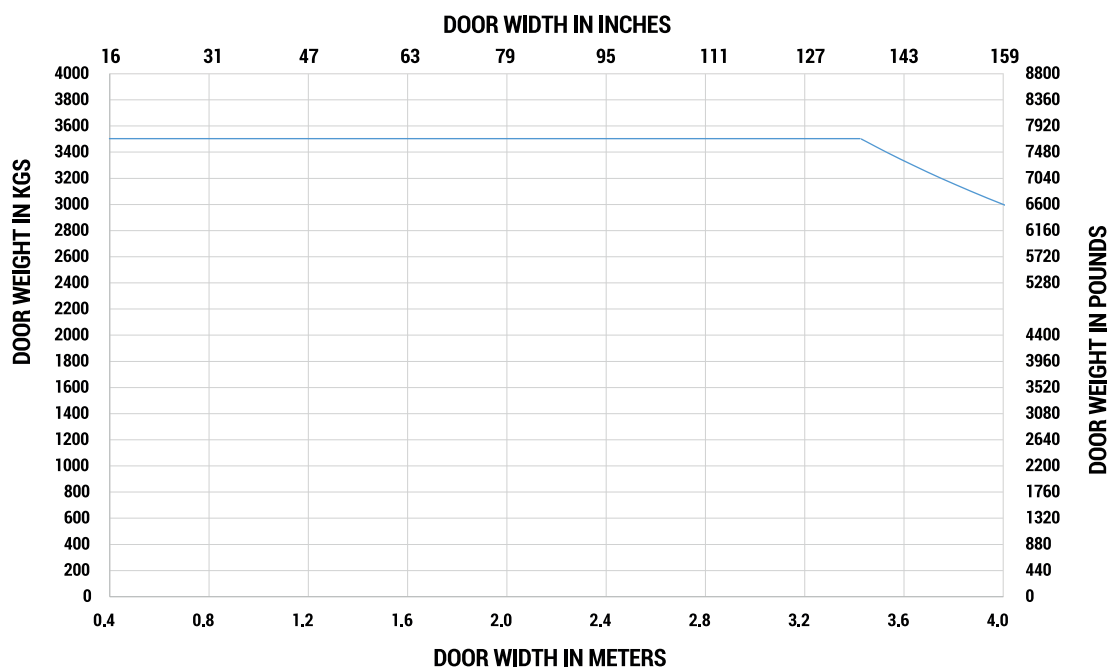
- Designed to support heavy loading
- 6.35 mm (0.25") rise over 90 degrees
- 316 grade stainless steel offering long term durability
- Install using 8 x M12 grade 12.9, or 1/2"-13 UNC Grade 8 screws (not supplied)
- Adjustable set-screw with locking nut on Cam Lift Hinges to adjust base level separation between barrels
- Mounting plates surface mounted onto door and frame

BENEFITS

- Grease nipple for ease of service
- Engineered for longevity and trouble-free service

LOADING CHART

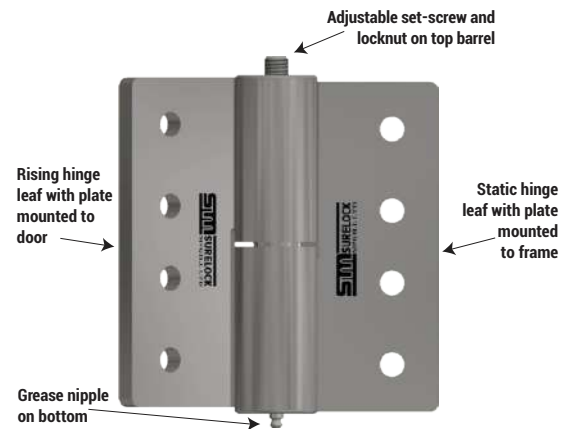
The following chart is a guide for maximum door widths and weights tested on a doorheight of 2.1 m using 2 Cam Lift Support and 1 Cam Lift Hinge spaced equally apart at the top and bottom of the leaf.



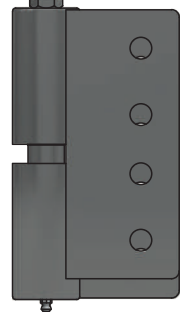
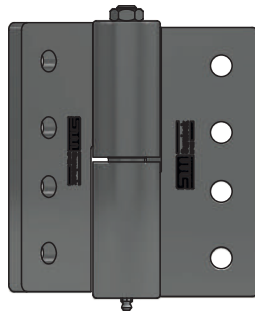
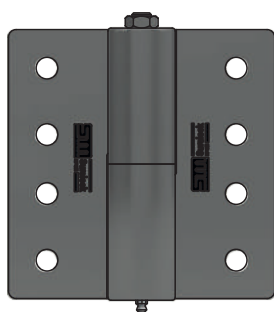
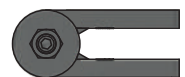
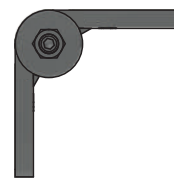
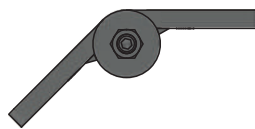
LOAD DECLARATIONS - All load ratings are based on mounting with 4x # M12 Grade 12.9 screws or 1/2"-13 UNC Grade 8 mounting hardware
 Radial load capacity - 2,994 kg (6,600 pounds) Per Cam Lift Support Hinge
 Thrust load capacity - 3,493 kg (7,700 pounds) Per Cam Lift Support Hinge

Technical drawing of the front view of a 2000 Series 1200 mm wide motor. The drawing shows a rectangular motor frame with four mounting feet on each side. Dimensions are provided in millimeters and inches.

- Total width: 177.80 [7.000 in]
- Total height: 152.40 [6.000 in]
- Distance between centers of mounting feet: 108.40 [4.268 in]
- Distance from top edge to center of top mounting feet: 69.40 [2.732 in]
- Distance from top edge to center of bottom mounting feet: 25.40 [1.000 in]
- Distance between centers of top and bottom mounting feet: 176.00 [6.929 in]
- Distance from center of top mounting feet to center of bottom mounting feet: 62.60 [2.465 in]
- Motor label: 2000
- Motor label: 1200



A technical diagram showing a side view of a bolted connection. A horizontal plate is connected to a vertical column flange. A bolt is shown passing through the plate and the flange, secured with a nut and washer on the column side. The diagram illustrates the components and their assembly.



0° - 6.350 [0.250 In] RISE

Adjust to ensure there is a gap between hinge barrel faces when closed, this maintains the helix drive force to close the door

| SYSTEM | LOADING REQUIREMENT | | TYPE | | MOUNTING PLATE WIDTH | | PIN | | FINISH | | ORIENTATION | |
|--------|---------------------|------------|------|--------------------------------------|----------------------|---------------|-----|---------------------|--------|-------|-------------|--------------|
| HC | 44 | Heavy Duty | C1S2 | 1 x Cam-lift & 2 x Support Hinge set | 77 | Surface 7 x 7 | A | 1 No. Knock-in Pins | 00 | Satin | RH | Right Handed |
| | | | C | Cam Lift | | | B | No Pin Provided | | | LH | Left Handed |
| | | | S | Cam Lift Support | | | E | 1 No. Screw-in Pins | | | | |
| | | | E | Electric Power Transfer (EPT) | | | | | | | | |

Fitted at the top and bottom of the door, our HC44 Lift Off are designed to be used for heavy loads. Fitted with a self lubricating thrust bearing, the HC44 Lift Off are designed with maintenance in mind.

Designed for continued smooth operation and longevity. Manufactured in 316 stainless steel for hostile environments and durability.



HC44 LEFT HANDED LIFT OFF

FEATURES

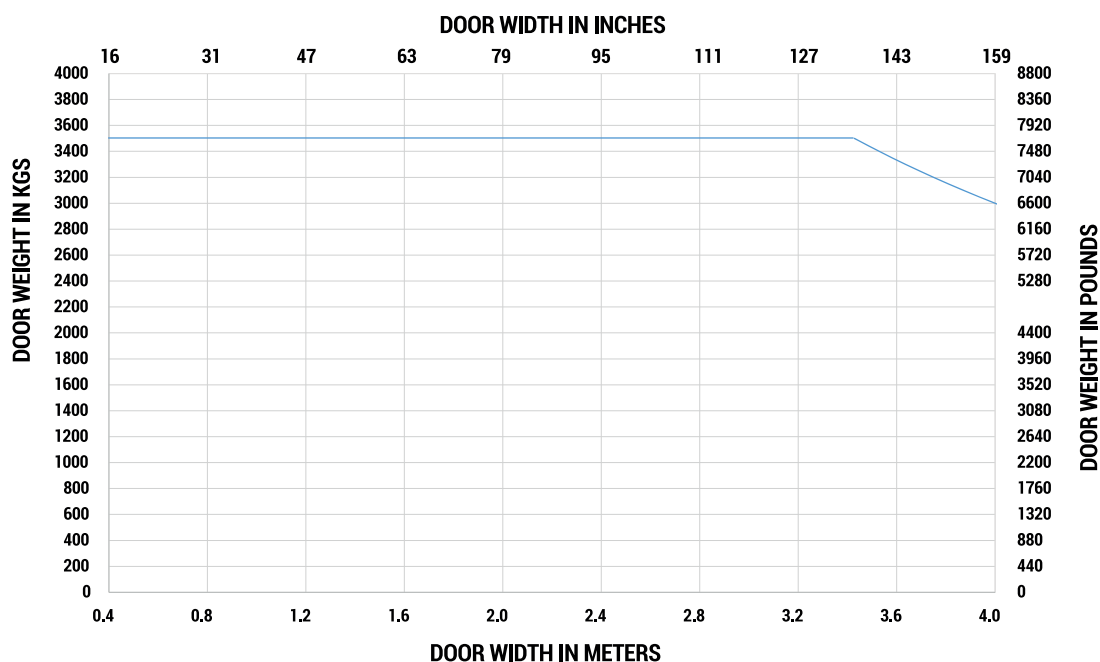
- Designed to support heavy loading
- 6.4 mm (0.252") rise over 90 degrees
- 316 grade stainless steel offering long term durability
- Install using 8 x M12 grade 12.9, or 1/2"-13 UNC Grade 8 screws (not supplied)
- Adjustable set-screw with locking nut on cam lift hinges to adjust base level separation between barrels
- Mounting plates surface mounted onto door and frame

BENEFITS

- Grease nipple for ease of service
- Engineered for longevity and trouble-free service
- Self lubricating bearings

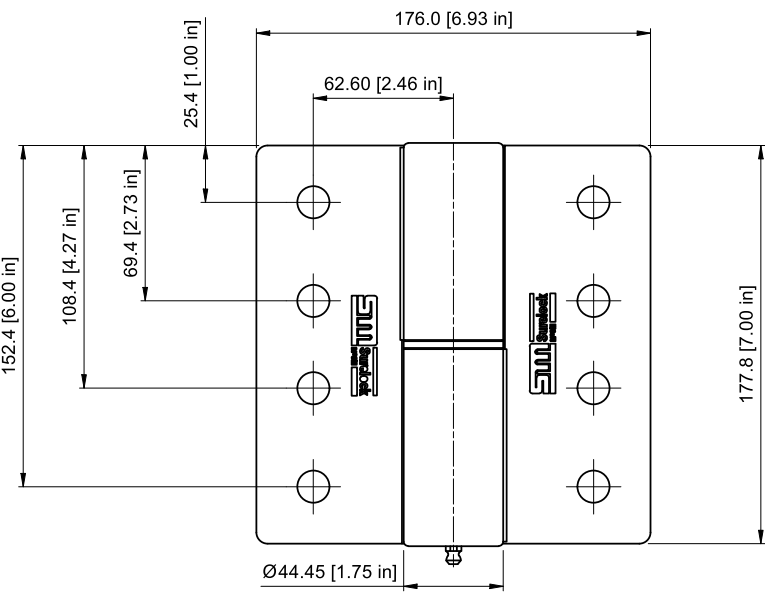
LOADING CHART

The following chart is a guide for maximum door widths and weights tested on a doorheight of 2.1 m using 2 Lift Off Hinge spaced equally apart at the top and bottom of the leaf.



LOAD DECLARATIONS - All load ratings are based on mounting with 4x # M12 Grade 12.9 screws or 1/2"-13 UNC Grade 8 mounting hardware
 Radial load capacity - Not applicable (no radial capacity)
 Thrust load capacity - 3,493 kg (7,700 pounds) per hinge

HC44 HEAVY DUTY LIFT OFF TECHNICAL DRAWING



SELF CODING SYSTEM

The HC44 Heavy Lift Off Hinge has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: HC44-L-77-B-00-LH

| SYSTEM | LOADING REQUIREMENT | | TYPE | | MOUNTING PLATE WIDTH | | PIN | | FINISH | | ORIENTATION | |
|--------|---------------------|-------------|------|-------------------------------|----------------------|---------------|-----|---------------------|--------|-------|-------------|--------------|
| | | | | | | | | | | | | |
| HC | 44 | Medium Duty | L | Lift Off | 77 | Surface 7 x 7 | A | 1 No. Knock-in Pins | 00 | Satin | RH | Right Handed |
| | | | E | Electric Power Transfer (EPT) | | | B | No Pins Provided | | | LH | Left Handed |
| | | | | | | | E | 1 No. Screw-in Pins | | | | |



FLUSH BOLTS

A heavy duty range of bolts, fitted within the profile of the door and designed to complement our wide range of high security locking systems. Ideal for securing the passive leaf of a double doorset, whilst having the security of being built into the door.

The range incorporates a selection of bolt sizes and bolt engagement, with extended lengths available for taller doors. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Concealed fixing for protection against attacks
- 30 mm bolt throw
- 316 grade stainless steel construction
- Tested and approved to BS EN 1670:GR5 very high corrosion

BENEFITS

- Easy install with M8 threaded ROD
- Self-handling
- Flexible install for Top and Bottom configuration

OPTIONAL ENHANCEMENTS

- Interchangeable bolts Hex 16 AF or 19 AF for higher security

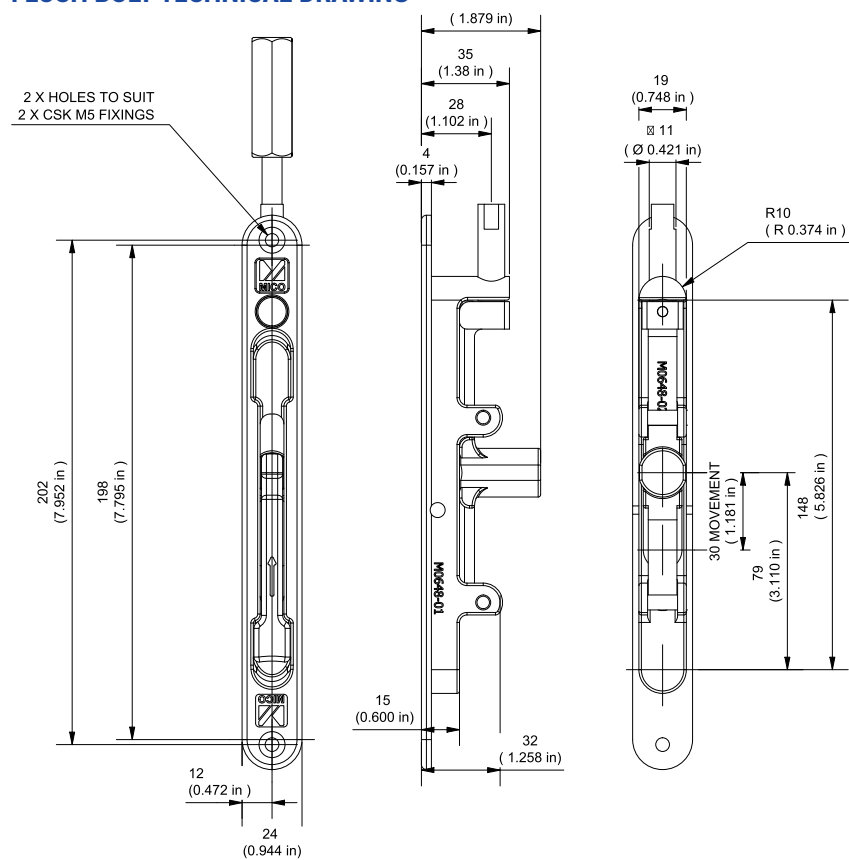


FLUSH BOLT
BOTTOM
(CODE)

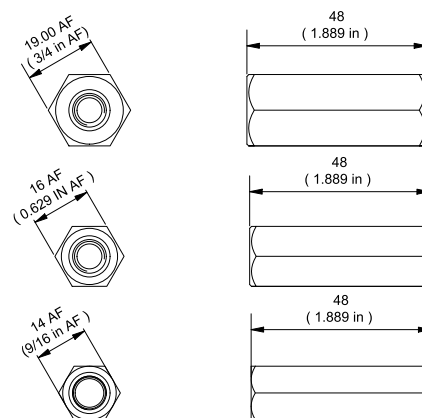


FLUSH BOLT
TOP
(CODE)

FLUSH BOLT TECHNICAL DRAWING



BOLT OPTIONS



* DIMENSIONS FOR ILLUSTRATIVE PURPOSES ONLY

SELF CODING SYSTEM

High Security Flush Bolts have a simple ordering code that covers the size and security level tested to on selected doorsets.

EXAMPLE ORDER CODE: FB14

| MODEL | DIMENSION CODES | | | | EXTENSION CODES |
|---------|-----------------|-----------------|-----------------|--------------|-----------------|
| VARIANT | BOLT DIA (A) | THROW (B) | LENGTH (C) | WIDTH (D) | 1000 mm (40") |
| FB14 | 14 mm (1/2") | 30 mm (1 3/16") | 222 mm (8 3/4") | 24 mm (7/8") | N/A |
| FB16 | 16 mm (5/8") | 30 mm (1 3/16") | 222 mm (8 3/4") | 24 mm (7/8") | 1000 |
| FB19 | 19 mm (3/4") | 30 mm (1 3/16") | 222 mm (8 3/4") | 24 mm (7/8") | |



BARREL BOLTS

A heavy duty range of surface fitting Barrel Bolts designed to complement our wide range of high security locking systems. Ideal for securing the passive leaf of a double doorset and removeable upper or side panels.

The range incorporates a selection of bolt sizes and bolt engagement, with extended lengths available for taller doors. Successfully tested to a wide range of international standards. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Surface fitting for maximum strength
- Size selection to meet security, including extended reach
- 316 grade stainless steel construction for hostile environments and durability
- Padlock facility in thrown position (order padlock separately)

BENEFITS

- Certified to a range of international standards (see Product Performance Chart)
- Easy retrofit, to upgrade existing doors
- Successfully tested on security, blast, ballistic and fire doors

OPTIONAL ENHANCEMENTS

- Extensions for taller doors 600 mm (24") or 1,000 mm (40")
- Mounting screws and strikes to be ordered separately

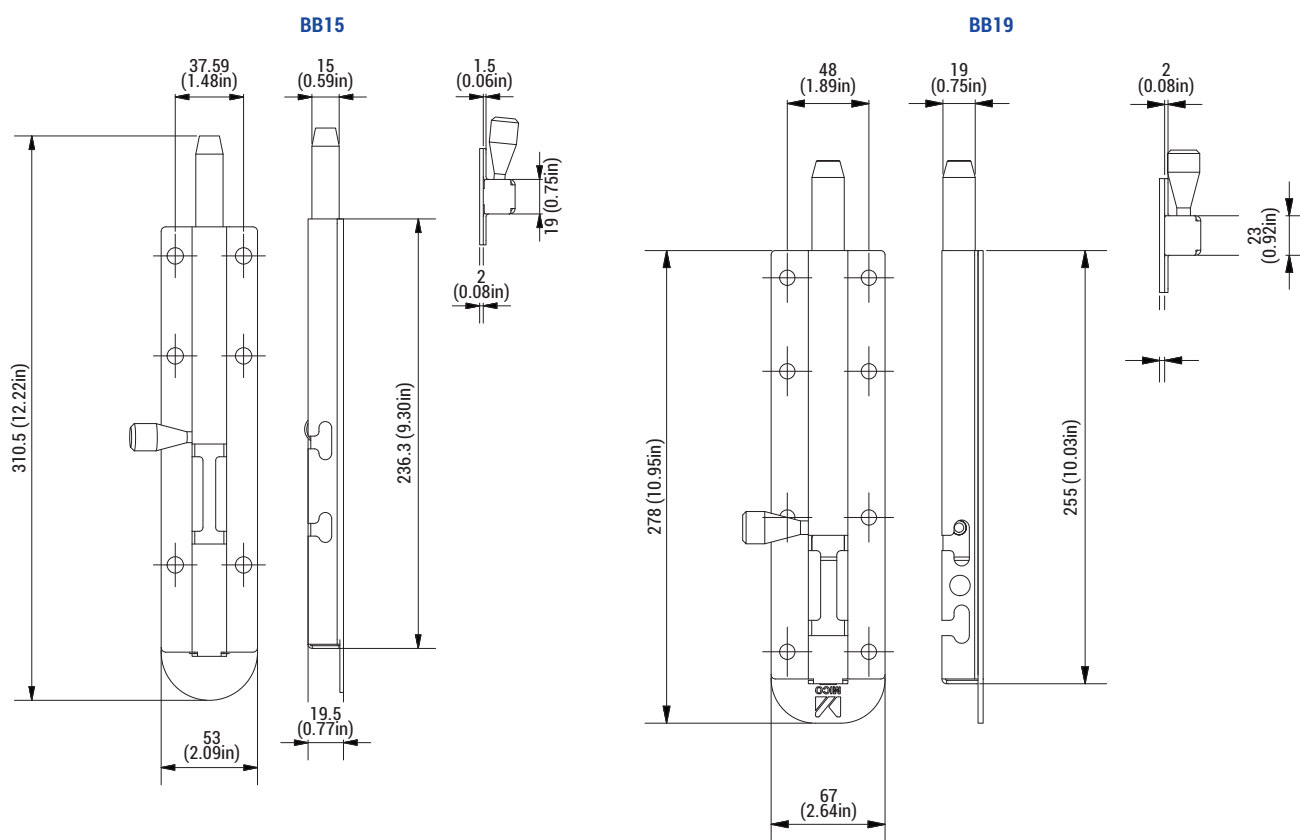


PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|-----|-----|-----|-----|-----|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-------------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | BR2 | EN 179 | | FB6 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | A10 | B10 | C10 | D10 | E10 | F10 | | | | 30 MINS | RC4 | FB5 | | | | EXV 15 | EN 1670:GR3 | | | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC3 | FB4 | | | | | CERTIFIRE | EN 1670:GR2 | 200K | | |
| 3 MIN | | | | | | | | | | 5 MINS | RC2 | BR1 | | | | UL 305 | FB3 | EN 1670:GR1 | | | |
| 1 MIN | | | | | | | | | | | RC1 | | | | | | | | | | |

BARREL BOLT TECHNICAL DRAWING



SELF CODING SYSTEM

High Security Barrel Bolts have a simple ordering code that covers the size and security level tested to on selected doorsets.

EXAMPLE ORDER CODE: BB15

| MODEL | SECURITY RATING | DIMENSION CODES | | | | EXTENSION CODES | |
|---------|-----------------|-----------------|----------------|------------------|----------------|-----------------|---------------|
| VARIANT | LPS 1175 | BOLT DIA (A) | THROW (B) | LENGTH (C) | WIDTH (D) | 600 mm (24") | 1000 mm (40") |
| BB12 | - | 12 mm (1/2") | 25 mm (1") | 150 mm (6") | 40 mm (1 5/8") | N/A | N/A |
| BB15 | SR6 | 15 mm (5/8") | 50 mm (2") | 260 mm (10 3/4") | 53 mm (2 1/4") | 600 | 1000 |
| BB19 | | 19 mm (3/4") | 35 mm (1 3/8") | 280 mm (11") | 66 mm (2 5/8") | | |

A range of Vision Panel Lites and Windows to provide awareness of pedestrians, or potential threats on the other side of the door, or wall. Each designed to provide resistance to a combination of forced entry, blast, ballistic and fire protection. Successfully tested and certified to many international standards.

Vision Panel Lites are supplied as a pre-assembled package for fast-easy installation, suitable for varying door and wall thicknesses, a perfect additional feature for high performance doors.



EXTERNAL VIEW

FEAUTURES

- Pre-assembled and bolt-through mounting makes for a fast-easy Installation
- Choice of multiple threat protection
- Standard sizes for fast delivery (clear vision)
 - 170 mm (6 5/8") x 170 mm (6 5/8")
 - 170 mm (6 5/8") x 370 mm (14 1/2")
 - 170 mm (6 5/8") x 670 mm (26 3/8")

BENEFITS

- Easy retrofit, to upgrade existing doors and walls
- Certified to a range of international standards (see Product Performance Chart)

OPTIONAL ENHANCEMENTS

- 316 grade stainless steel construction for hostile environments and durability
- Additional security mesh (included as standard on SR4 and above)
- Powered glass for clear or diffused view at the touch of a button
- Maximum measurements for non-standard sizes (clear vision)
- Non-fire rated – 1100 mm (43") wide x 2300 mm (90") high
- E30 fire rated – 1125 mm (44") wide x 1250 mm (49") high, max area 1.25m² (10sqft)
- SR5 & SR6 – 170 mm (6 1/2") x 370 mm (14 1/2")

Non-standard sizes will have additional cost and lead times applicable



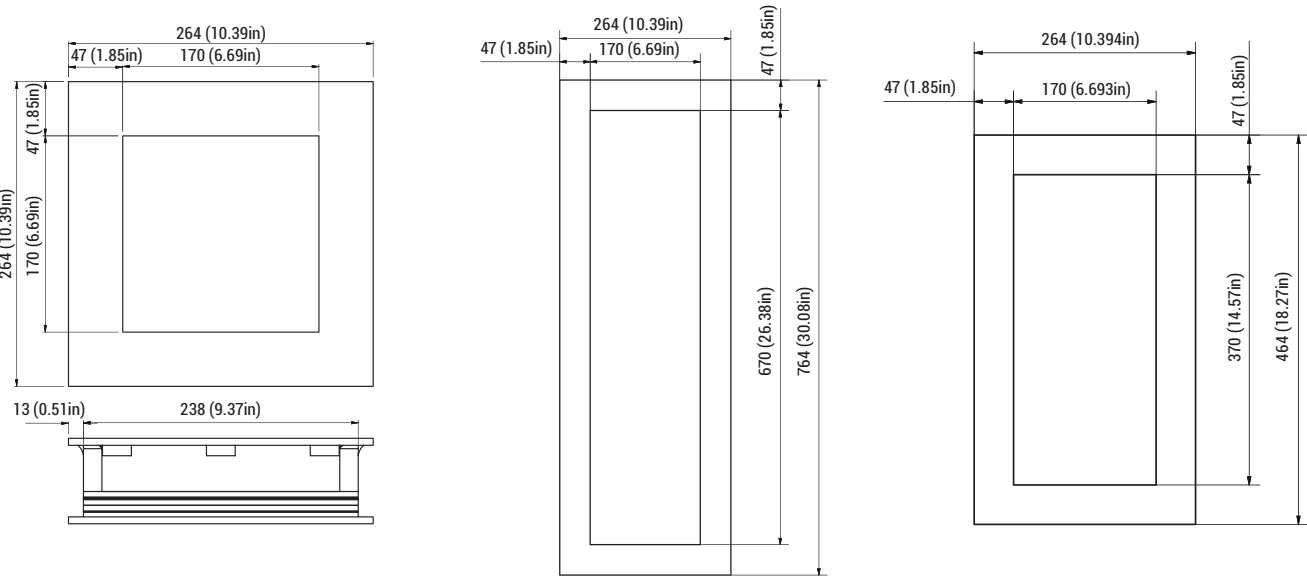
INTERNAL VIEW

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|-----|-----|-----|-----|-----|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | | | | | | | |
| 10 MIN | A10 | B10 | C10 | D10 | E10 | F10 | | | | 45 MINS | | RC4 | | | BR1 | UL 305 | FB4 | EXV 15 | EN 1670:GR4 | | EN 1670:GR2 |
| 5 MIN | | | | | | | | | | 30 MINS | RC3 | | | | | | | | | | |
| 3 MIN | | | | | | | | | | 15 MINS | RC2 | | | | | | | | | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | | | | | |

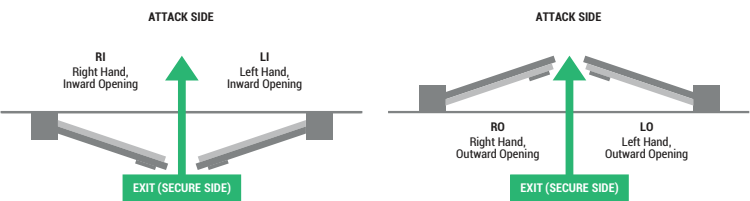
VISION PANEL LITE TECHNICAL DRAWING



SELF CODING SYSTEM

Vision Panel Lites have a simple ordering code that covers the size and threat protection tested on selected doorsets.

EXAMPLE ORDER CODE:
VP3-256-60BI-0170X0170-57ST



| MODEL | SECURITY RATING | | BLAST ISO 16933 | | BALLISTIC PROTECTION | | FIRE EN 1634 | | | | CLEAR VISION AREA WIDTH X HEIGHT (MM) | | DOOR / WALL THICKNESS (MM) | | FINISH | | | | | | |
|-------|-----------------|-------------------|-----------------|--------|----------------------|-------------|--------------|---------|----------------|----------------|---|--|----------------------------|------------------------|--------|--------------------------------|--|--|--|--|--|
| | | | | | | | INTEGRITY | | FIRE DIRECTION | | | | | | | | | | | | |
| VP | 0 | None | 00 | None | 0 | None | 00 | None | 00 | Unidirectional | 0170 mm x 0170 mm (6 3/4" x 6 3/4") | | 00 | No packers Required | PR | Primed (ready for printing) | | | | | |
| | 2 | Security rating 2 | 25 | EXV 25 | 2 | EN 1522 FB2 | 30 | 30 Mins | FA | Attack side | 0170 mm x 0370 mm (6 3/4" x 14 3/3") | | 46 | 46mm (1 7/8") | ST | 316 Stainless steel | | | | | |
| | 3 | Security rating 3 | 15 | EXV 15 | 4 | EN 1522 FB4 | 60 | 60 Mins | FS | Secure side | 0170 mm x 0670 mm (6 3/4" x 26 3/8") | | 57 | 57mm (2 1/4") | 9006 | Painted (Ral number) | | | | | |
| | 4 | Security rating 4 | | | 6 | EN 1522 FB6 | | | BI | Bidirectional | | | | | | | | | | | |
| | 5 | Security rating 5 | | | 7 | EN 1522 FB7 | | | | | | | | | | | | | | | |
| | 6 | Security rating 6 | | | 8 | FEBR | | | | | | | | | | | | | | | |

High Performance Louvres provide the necessary ventilation for a wide range of critical infrastructure applications. Designed to meet the combined threats of high level forced entry and blast protection. Ideal for use in high performance structural walls, as well as multi-threat doors. Successfully tested and certified to many international standards.

Louvre.s are supplied in modular sizes and in pre-assembled packages for fast-easy installation. Suitable for varying wall and door thicknesses and available for specific ventilation requirements.



MAX-AIR-XA0

FEATURES

- Multiple threat protection
- 316 grade stainless steel construction for hostile environments and durability
- Fast Installation made easy through the simple through-bolt mounting
- Suitable for server rooms, generator housings, air conditioning systems, sub stations, chemical storage, etc.
- Standard sizes for fast delivery

170 mm (7") x 170 mm (7")

170 mm (7") x 370 mm (14")

170 mm (7") x 670 mm (26")

BENEFITS

- Easy retrofit, to upgrade existing walls and doors
- Certified to a range of international standards (see Product Performance Chart)

OPTIONS

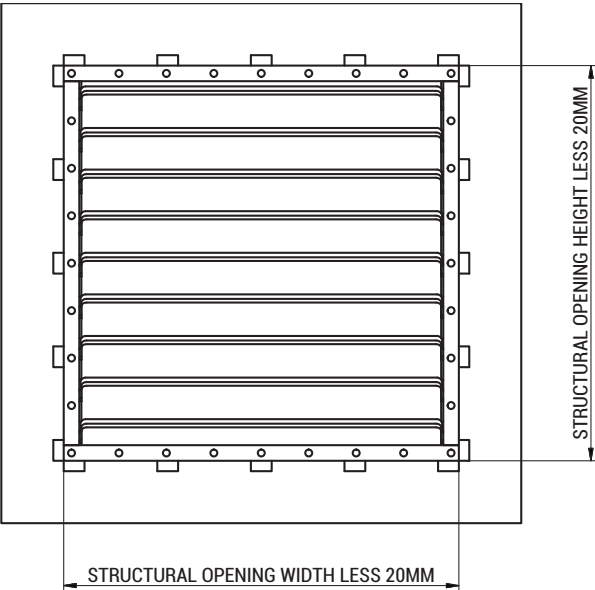
- Button or Countersunk head mounting screws available
- Accelerant protection
- Insect mesh (bug screens)
- Vibration alarm
- Special finishes available
- Anti-ligature louver for use in seclusion rooms and secure hospitals

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | ISSUE 7 | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | | |
|---------------|---------|-----|-----|-----|-----|-----|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-----------|-------------|--|
| TIME | ISSUE 8 | | | | | | | | | | | | | | | | | | | | | SR 1-8 | |
| | TOOLS | | | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION | | |
| 15 MIN | | | | | | | | | | RC5 | BR3 | | | | | EN 179 | | FB5 | EXV 15 | | EN 1634-1 | EN 1670:GR4 | |
| 10 MIN | A10 | B10 | C10 | D10 | E10 | F10 | | | | 45 MINS | RC4 | BR2 | | | | | FB6 | | | | | EN 1670:GR3 | |
| 5 MIN | | | | | | | | | | 30 MINS | RC3 | BR2 | | | | | FB5 | | | | | | |
| 3 MIN | | | | | | | | | | 15 MINS | RC2 | BR1 | | | | | FB4 | EXV 15 | CERTIFIRE | EN 1670:GR2 | | 200K | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | FB3 | | | EN 1670:GR1 | | | |

LOUVRE TECHNICAL DRAWING



SELF CODING SYSTEM

High Performance Louver's have a simple ordering code that covers the size and threat protection, together with airflow and finish.

EXAMPLE ORDER CODE: XA-LD05B-25-400X400-S4

| LOUVER MODEL | | ACCREDITATION | | SECURITY RATING | | ATTACK DURATION | | QUALIFIER | | BLAST ISO 16933 | | WALL CLEAR OPENING (MAXIMUM 1M X 1M (40" X 40")) | | STAINLESS STEEL 304 OR 316 | |
|--------------|----------------------|---------------|----------|-----------------|-----------------|---------------------|------|-----------|------|-----------------|--------|--|----------------|----------------------------|-----------------------|
| | | | | | | | | | | | | WIDTH | HEIGHT | | |
| XA | Max-Air louver | L | LPS 1175 | A-F | Tools (Issue 8) | 01, 03, 05, 10 Mins | | H | Hand | XX | None | 400 mm (16") | 400 mm (16") | S4 | S304 |
| | | | | | | | | | | 15 | EXV 15 | 500 mm (20") | 500 mm (20") | | |
| | | | | | | | | B | Body | 25 | EXV 25 | 700 mm (28") | 700 mm (28") | S6 | S316 |
| | | | | | | | | | | | | 1,000 mm (39") | 1,000 mm (39") | | |
| AL | Anti-ligature louver | X | None | X | None | XX | None | X | None | XX | None | 500mm (20") | 500mm (20") | MS | Steel (Powder coated) |

Surelock McGill Overhead Holders and Stops are heavy duty devices designed to control the degree of door opening. An inbuilt spring cushion absorbs the shock when the door is forced beyond its intended opening.

Recommended for use on doors which are subject to high usage, or where external doors may open out to hostile weather conditions, such as strong winds. The robust design and stainless steel construction assists in protecting facilities and provides a high level of durability.

Overhead Door Stops – provide reliable control of door opening with a cushioned end-stop, preventing damage and/or injury.

Overhead Door Holders – provide the same door opening control and cushioned stop, with the addition of an automatic hold open mechanism, until manually released.



FEATURES

- Surface mounted for quick easy installation
- Spring cushion to absorb excessive load
- Stainless steel construction for corrosion resistance and durability
- Position to stop at 90° - 110° door opening
- Hold open mechanism, easily adjusted on site.

BENEFITS

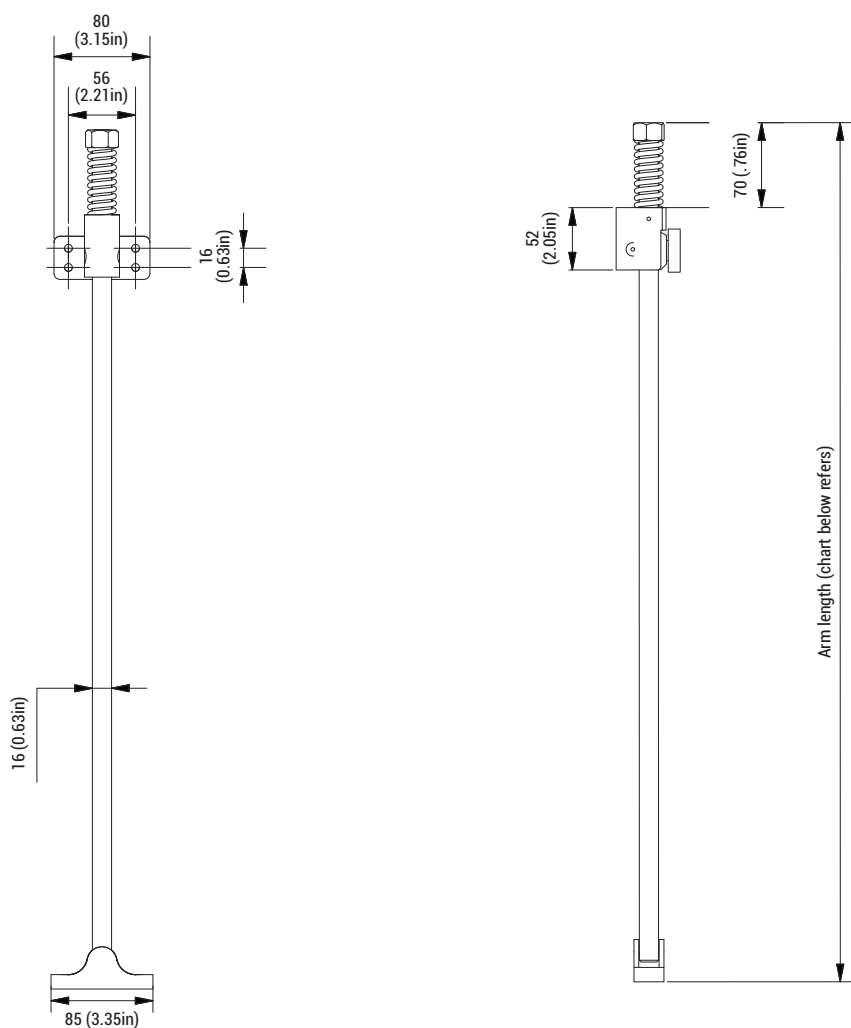
- Available for a wide range of door leaf widths
- Tested to over 1,000,000 cycles
- Designed to stop heavy weight high performance doors

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|---|---|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-----------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | BR2 | EN 179 | | FB6 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | | | | | | | | | | 30 MINS | RC3 | FB5 | | | | EN 1670:GR3 | | | | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC2 | BR1 | | | | FB4 | EN 1670:GR2 | | | | |
| 3 MIN | | | | | | | | | | 5 MINS | RC1 | | | | FB3 | CERTIFIRE | EN 1670:GR1 | 200K | | | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | |

DOOR HOLDER & STOP TECHNICAL DRAWING



SELF CODING SYSTEM

Door Holders & Stops have a simple ordering code that covers the performance requirement and suitable for door size.

EXAMPLE ORDER CODE: DH16-500

| DOOR STAYS | | ARM DIA. | RANGE | ARM LENGTH | | DOOR WIDTHS |
|------------|-------------|--------------|-------------|------------|--------------|--------------------------------|
| DH | Door holder | 12 mm (1/2") | Medium duty | 400 | 400 mm (16") | 550 mm (22") to 700 mm (28") |
| DS | Door stop | 16 mm (5/8") | Heavy duty | 500 | 500 mm (20") | 700 mm (28") to 900 mm (36") |
| | | | | 600 | 600 mm (24") | 900 mm (36") to 1050 mm (42") |
| | | | | 700 | 700 mm (28") | 1050 mm (42") to 1200 mm (48") |

The Surelock McGill ADO 300 is a heavy duty automatic swing door operator, designed to electronically control the power opening and closing of single- and double-leaf doors. The robust, belt driven design can operate doors up to 315 kg (700 lbs), a perfect fit for high performance blast, ballistic, forced entry resistant, and fire doors.

The digital programming module enables each door to be customised to meet their specific operational requirements, including compensation for wind and internal building pressure differences. The ADO's DC power supply seamlessly integrates with access control, alarm and locking systems.



RANGE FEATURES

- Operates doors up to 315 kg (700 lbs) and width of 1,400 mm (55")
- Motor driven opening and closing
- Power supply field-selectable 115/230 VAC 50-60 Hz, 5amp circuit (120 W)
- Working temperature range of 5 °F (-15 °C) to 120 °F (50°C)
- 24 VDC/1 A power supply for external locking accessories (electric strikes, maglocks, motorized bolt retraction locks, electric latch retraction)
- Digital programmer sets field operating parameters and displays system diagnostics
- Opening time to 95° is 4-12 seconds, closing time from 95° is 5-15 seconds (field programmable)
- Enclosure environmental rating: IP31

BENEFITS

- High degree of site-specific programming options
- Works seamlessly with all Surelock McGill motorised bolt retraction devices
- Capable for use on escape routes
- Provides hands free access solutions when used with motorised locking
- Battery back-up available, in case of power failure

OPTIONS

- Arm Pivot extensions 'B' & 'C' to suit various applications
- Entry/Exit sensors and switches
- Finger protection guards
- Operating mode key switches
- Battery back-up

REFERENCE STANDARDS

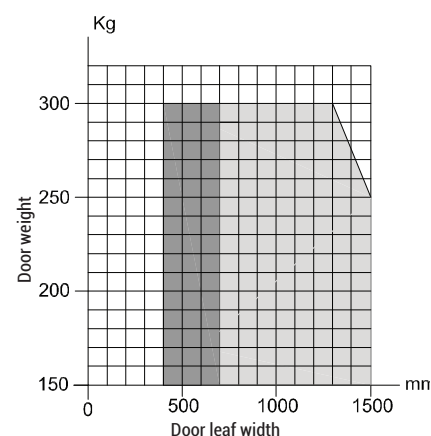
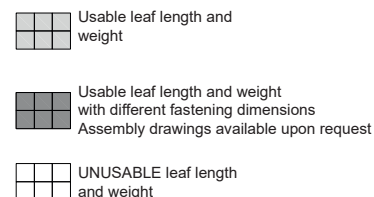
- EN 13849-1 Safety of machinery
- EN 13849-2 Safety of machinery
- EN 61000-6-2 Electromagnetic compatibility
- EN 61000-6-3 Electromagnetic compatibility
- EN 60335-1 Low Voltage Directive (LVD)
- EN 16005 Power operated pedestrian doorsets

Options to be ordered separately - for more information please contact our sales office

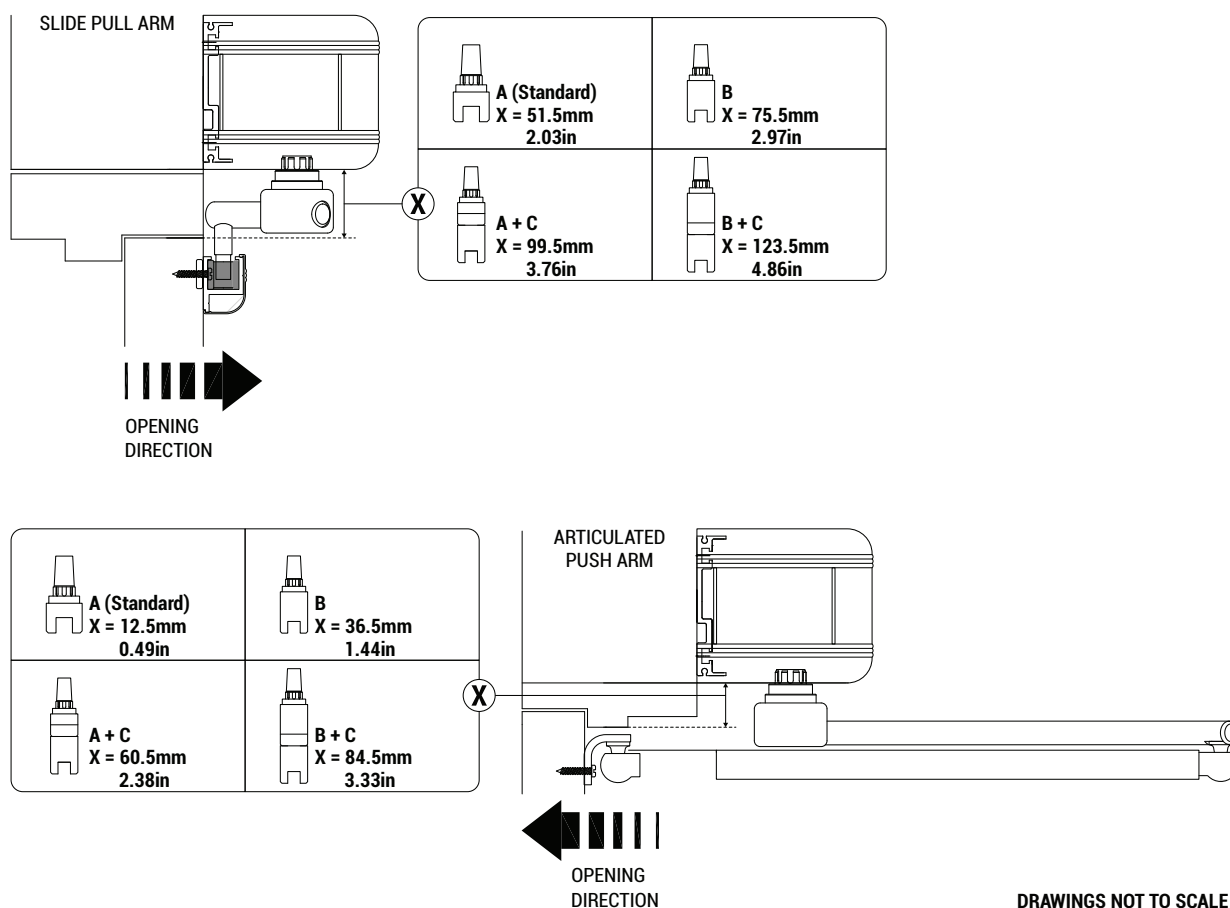
ADO CHART

Weight vs width for articulated arms

The relation between height and width of a door leaf must be less than 5:1



SURELOCK ADO 300 TECHNICAL DRAWING



| ARM | | EXTENSION | X (DIMENSION) SLIDE PULL ARM | X (DIMENSION) ARTICULATED PUSH ARM |
|-------|-------|----------------|---------------------------------|--|
| CODE | REF | | | |
| Std | A | Zero (Datum) | 51.5 mm (2.03in) | 12.5 mm (0.49in) |
| Ext-B | B | 24 mm (0.95in) | 75.5 mm (2.97in) | 36.5 mm (1.42in) |
| Ext-C | A + C | 48 mm (1.89in) | 99.5 mm (3.76in) | 60.5 mm (2.38in) |
| Ext-D | B + C | 72 mm (2.84in) | 123.5 mm (4.86in) | 84.5 mm (3.33in) |

SELF CODING SYSTEM

ADO's have a simple ordering code that covers the performance requirement and suitable for door size.

EXAMPLE ORDER CODE: ADO-300-1AOS-1

| ADO (CODE & MAX WEIGHT) | DOOR (LEAVES) | | ADO (QTY/STYLE) | OPENING (DIRECTION) | | BATTERY (BACKUP) | |
|------------------------------|---------------|--------|-----------------|---------------------|----------|------------------|-----|
| ADO-300 (315kg / 700lbs Max) | 1 | Single | A 1 x Single | OS | Outswing | 0 | No |
| | 2 | Double | A 2 x Singles | IS | Inswing | 1 | Yes |
| | 2 | Double | B Dual Package | | | | |

The Surelock McGill ADO 200 is a medium duty automatic swing door operator, designed to electronically control the power opening and spring closing of single- and double-leaf doors. The robust, belt driven design can operate doors up to 250 kg (550 lbs), a perfect fit for high performance blast, ballistic, forced entry resistant, and fire doors.

The digital programming module enables each door to be customised to meet their specific operational requirements, including compensation for wind and internal building pressure differences. The ADO's DC power supply seamlessly integrates with access control, alarm and locking systems.



RANGE FEATURES

- Operates doors up to 250 kg (550lbs) and width of 1,400mm (55")
- Motor driven opening with spring closing
- Power supply field-selectable 115/230 VAC 50-60 Hz, 5amp circuit (120 W)
- Working temperature range of 5 °F (-15 °C) to 120 °F (50 °C)
- 24 VDC/1A power supply for external locking accessories (electric strikes, maglocks, motorized bolt retraction locks, electric latch retraction)
- Digital programmer sets field operating parameters and displays system diagnostics
- Opening time to 95° is 4-12 seconds, closing time from 95° is 5-15 seconds (field programmable)
- Enclosure environmental rating: IP31

BENEFITS

- High degree of site-specific programming options
- Works seamlessly with all Surelock McGill motorised bolt retraction devices
- Capable for use on escape routes
- Provides hands free access solutions when used with motorised locking
- Suitable for use on escape routes (when wired appropriately into the fire alarm) on selected fire doors for up to 120 minutes
- Battery back-up available, in case of power failure

OPTIONS

- Arm Pivot extensions 'B' & 'C' to suit various applications
- Entry/Exit sensors and switches
- Finger protection guards
- Operating mode key switches
- Battery back-up

REFERENCE STANDARDS

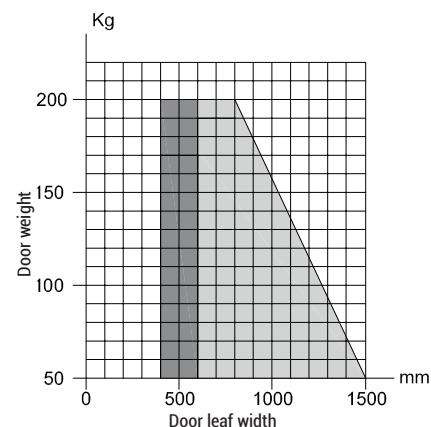
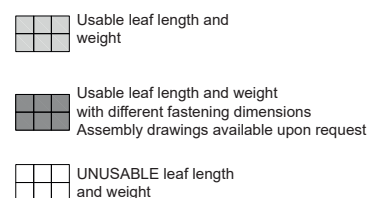
- EN 13849-1 Safety of machinery
- EN 13849-2 Safety of machinery
- EN 61000-6-2 Electromagnetic compatibility
- EN 61000-6-3 Electromagnetic compatibility
- EN 60335-1 Low Voltage Directive (LVD)
- EN 16005 Power operated pedestrian doorsets
- EN 1634-1 Fire resisting doorsets

Options to be ordered separately - for more information please contact our sales office

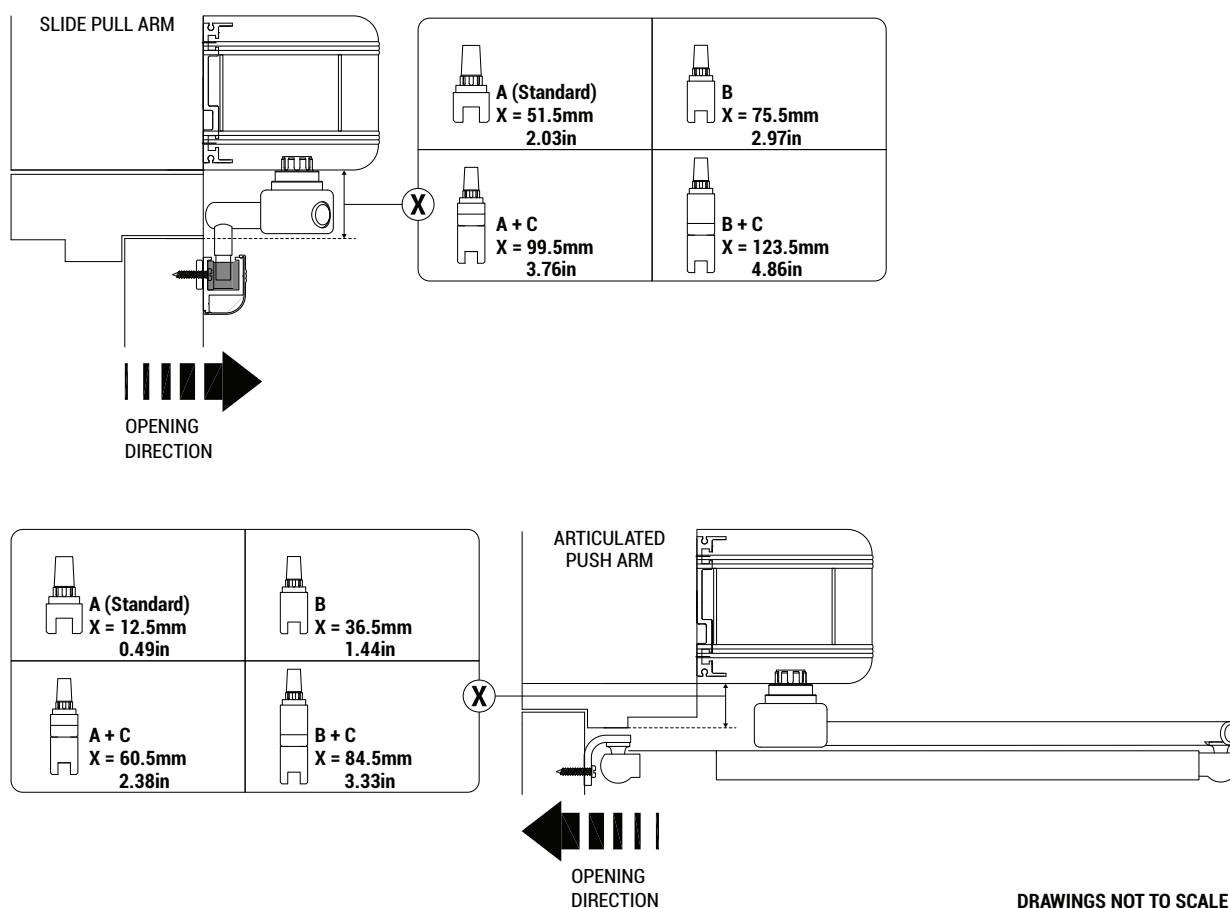
ADO CHART

Weight vs width for articulated arms

The relation between height and width of a door leaf must be less than 5:1



SURELOCK ADO 200 TECHNICAL DRAWING



| ARM | | EXTENSION | X (DIMENSION) SLIDE PULL ARM | X (DIMENSION) ARTICULATED PUSH ARM |
|-------|-------|----------------|---------------------------------|--|
| CODE | REF | | | |
| Std | A | Zero (Datum) | 51.5 mm (2.03in) | 12.5 mm (0.49in) |
| Ext-B | B | 24 mm (0.95in) | 75.5 mm (2.97in) | 36.5 mm (1.42in) |
| Ext-C | A + C | 48 mm (1.89in) | 99.5 mm (3.76in) | 60.5 mm (2.38in) |
| Ext-D | B + C | 72 mm (2.84in) | 123.5 mm (4.86in) | 84.5 mm (3.33in) |

SELF CODING SYSTEM

ADO's have a simple ordering code that covers the performance requirement and suitable for door size.

EXAMPLE ORDER CODE: ADO-200-1AOS-1

| ADO (CODE & MAX WEIGHT) | DOOR (LEAVES) | | ADO (QTY/STYLE) | OPENING (DIRECTION) | | BATTERY (BACKUP) | |
|------------------------------|---------------|--------|-----------------|---------------------|----------|------------------|-----|
| ADO-200 (250kg / 550lbs Max) | 1 | Single | A 1 x Single | OS | Outswing | 0 | No |
| | 2 | Double | A 2 x Singles | IS | Inswing | 1 | Yes |
| | 2 | Double | B Dual Package* | | | | |

Note: Options to be ordered separately to suit each individual application – for more information please contact our sales office

The Surelock McGill Sealed Keyring is designed for the higher security needs of prison type environments, including secure hospitals and detention centers, where unauthorised transfer of keys is a serious risk. Sealed keyrings ensure best possible control of specific keys issued to individuals.

Special hydraulic tooling creates a permanent key ring seal preventing unauthorised key removal. This unique seal can be applied to a range of keyring sizes. Removal of the seal requires the special tooling to cut and destroy the seal and enable the authorised change of keys, a new seal can be applied to the same keyring.



FEATURES

- Tamperproof
- High resistance to abuse/misuse
- Negates welding/brazing problems and metal embrittlement
- 316 grade stainless steel construction

BENEFITS

- Reusable key rings saving cost when changes are required
- Choice of ring sizes to suit content
- Resists unauthorised key removal
- Sealed by special tooling

OPTIONS

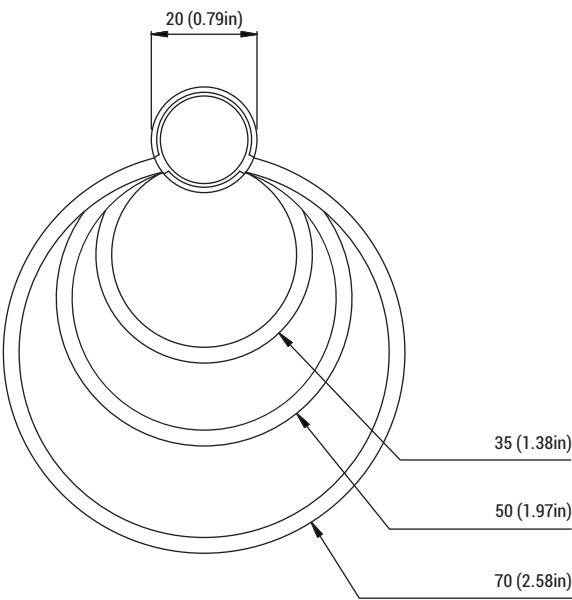
- Customised branding of the seal by special order
- Seal & Open tooling (3,000 kg - 3 tonne capacity)

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|---|---|---|---|---|---|-----------------------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-----------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 SR 1-8 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | | | | | | | | | | | | | | H |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | BR2 | | | | EN 179 | FB6 | | EXV 15 | EN 1634-1 | | EN 1670:GR4 |
| 10 MIN | | | | | | | | | | 45 MINS | | RC4 | | | | FB5 | EN 1670:GR3 | | | | CERTIFIRE |
| 5 MIN | | | | | | | | | | 30 MINS | | RC3 | | | BR1 | FB4 | EN 1670:GR1 | | | | |
| 3 MIN | | | | | | | | | | 15 MINS | | RC2 | | | | UL 305 | FB3 | | | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | | | | | | |

SEALED KEYRING TECHNICAL DRAWING



SELF CODING SYSTEM

Sealed Keyrings have a simple ordering code that covers the size of the keyring to suit the planned content.

EXAMPLE ORDER CODE: AN400-50

| PRODUCT CODE | RING SIZE | RING SECTION | SEAL DIAMETER |
|--------------|----------------|------------------|---------------|
| AN400-35 | 35 mm (1 3/8") | 3 mm (1/8") dia. | 20 mm (3/4") |
| AN400-50 | 50 mm (2") | | |
| AN400-70 | 70 mm (3/4") | | |

A range of Anti-Ligature products specifically designed for use in mental, and secure health facilities. These products help to provide an appropriate level of controlled access, with protection for both patient and staff.

ROOM PRIVACY LATCH

- Contemporary anti-ligature fingertip internal operator
- Patient key-controlled access, provides room privacy
- Automatic latching
- Staff key entry overrides internal handle blockage
- Anodised aluminium body with stainless steel handle
- Latching function can be disabled by staff



ROOM PRIVACY LATCH

RESTROOM (WC) PRIVACY BOLT

- Contemporary anti-ligature fingertip internal operator
- Manual bolting
- Staff entry override by special removable T-Key
- Anodised aluminium body with stainless steel handle
- Indication of restroom status (occupied/vacant)



WC PRIVACY BOLT

GUARDED PULL HANDLE

- Pull handle on staff side of door provides force advantage when used in conjunction with 'Sunken Pull Handle' on patient side
- Through-bolt mounting
- Anodised aluminium



GUARDED PULL HANDLE

SUNKEN PULL HANDLE FEATURES

- Sunken pull handle on patient side of door provides force disadvantage when used in conjunction with 'Guarded Pull Handle' on staff side
- Through-bolt mounting
- Anodised aluminium



SUNKEN PULL HANDLE

OPTIONAL ENHANCEMENTS

- Anti-Viral & Anti-Bacterial Handle Coatings - designed to reduce the chance of transmission and maintain safe environments

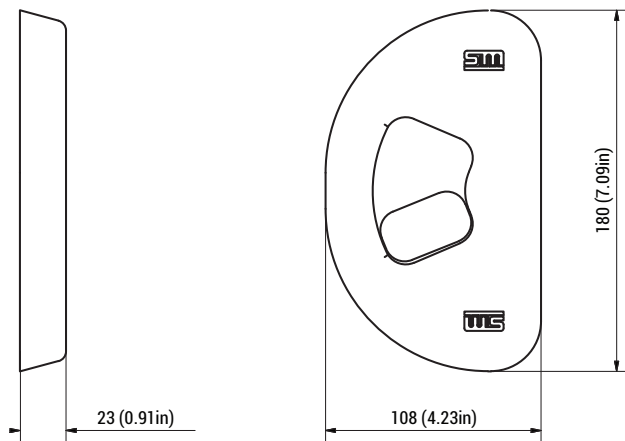
These are available for all common door touchpoints, such as handles, panic bars, thumbturns etc. Tests show over 99% of bacteria killed over 24 hours, 66% of coronavirus killed in just 2 hours in accordance with ISO 21702:2019.

PRODUCT PERFORMANCE CHART

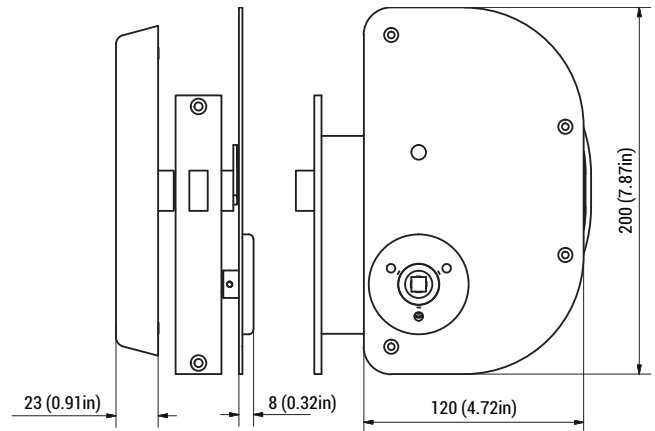
☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|---|---|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR3 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | 45 MINS | RC5 | | | | BR2 | EN 179 | | FB6 | EXV 15 | | EN 1634-1 |
| 10 MIN | | | | | | | | | | 30 MINS | RC3 | FB5 | | | | EN 1670:GR3 | | | | | |
| 5 MIN | | | | | | | | | | 15 MINS | RC2 | BR1 | | | | UL 305 | FB4 | CERTIFIRE | | | EN 1670:GR2 |
| 3 MIN | | | | | | | | | | 5 MINS | RC1 | | | | FB3 | | | | | | |
| 1 MIN | | | | | | | | | | | | | | | | | | | | | |

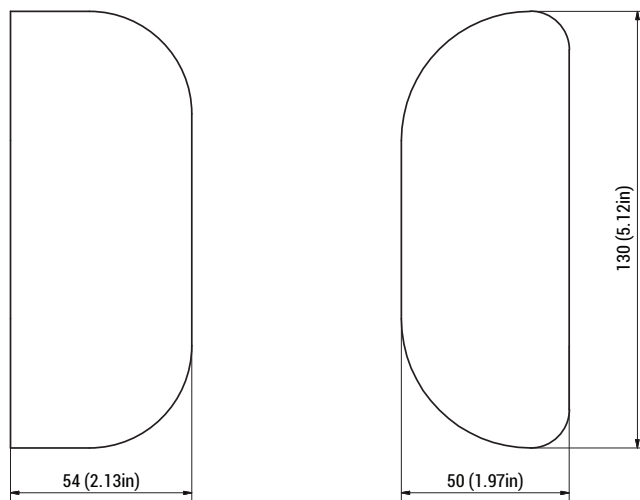
ANTI-LIGATURE HANDLES TECHNICAL DRAWINGS



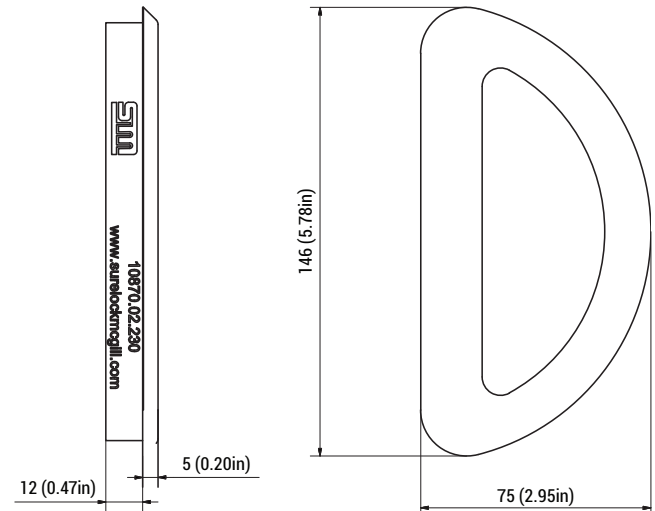
ROOM PRIVACY LATCH



ROOM PRIVACY LATCH



GUARDED PULL HANDLE

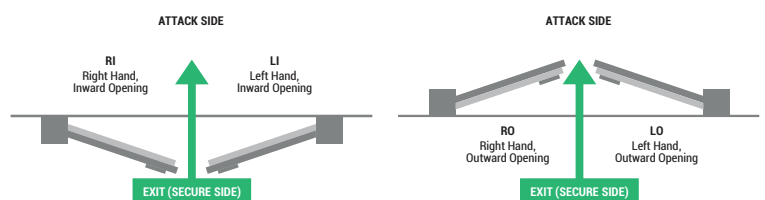


SUNKEN PULL HANDLE

SELF CODING SYSTEM

Anti-Ligature products have a simple ordering coding for each individual product.

EXAMPLE ORDER CODE: RPL-R-AV



| PRODUCT CODE | DESCRIPTION | HANDING | ENHANCEMENTS |
|--------------|----------------------------|--------------|-----------------------------------|
| RPL | Room privacy latch | X None | AV Anti-Viral / Bacterial coating |
| RPB | Restroom (WC) privacy bolt | R Right hand | |
| GPH | Guarded pull handle | L Left hand | |
| SPH | Sunken pull handle | | |



HEAVY DUTY LEVER HANDLES

A range of Heavy-Duty Lever Handles developed for use on over-sized, heavy, high-performance doors. The unique and simple design provides for a strong, rugged, abuse resistant range of handles. Tested with many locking systems with high-performance door manufacturers to meet various international standards. Manufactured in 316 stainless steel for hostile environments and durability.



HS



HE

FEATURES

- Robust design to withstand heavy use
- 316 grade stainless steel construction for hostile environments and durability
- Tested to over 1,000,000 cycles

BENEFITS

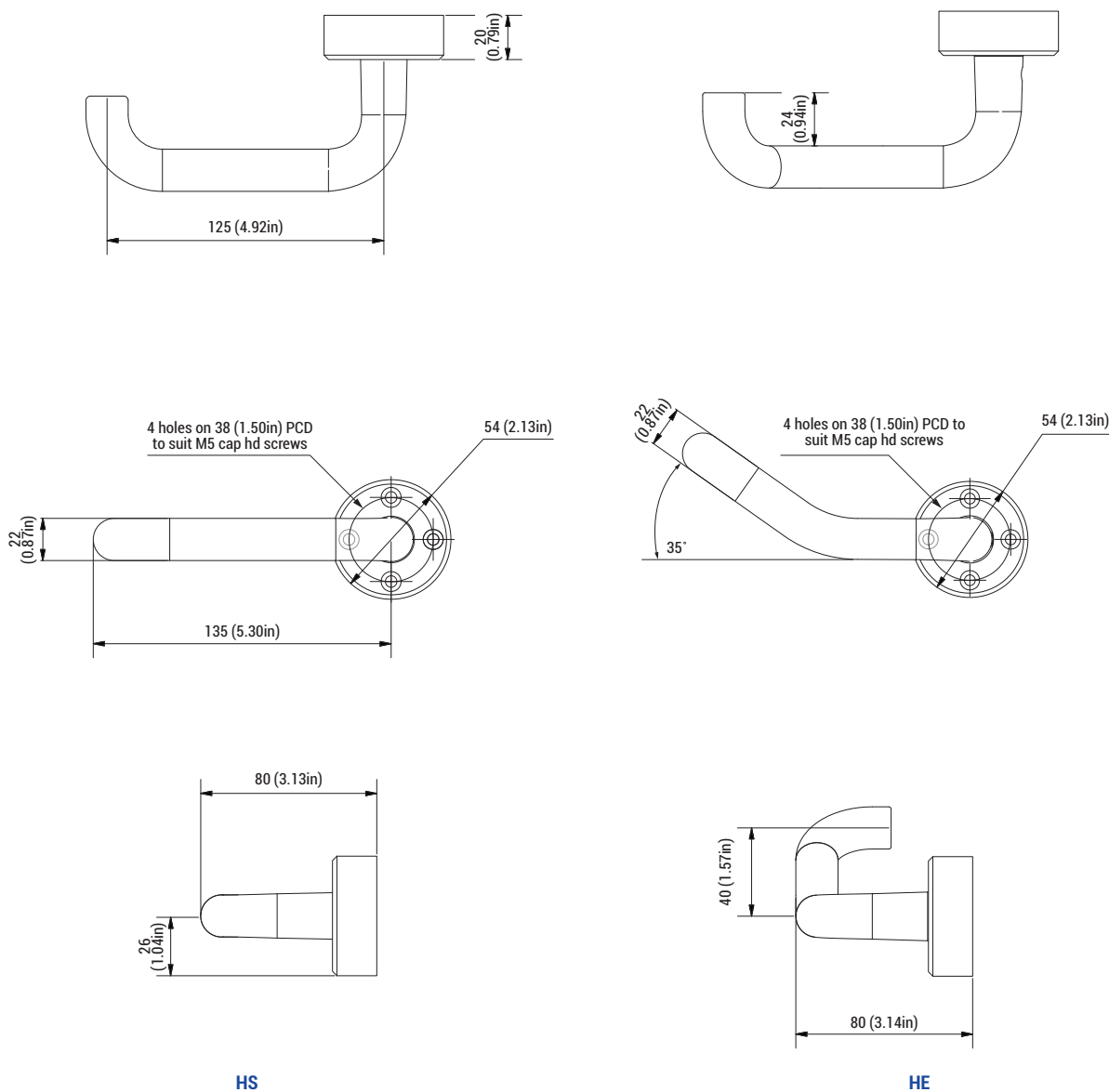
- Withstands high leverage forces without damage
- Resists abuse
- Provides trouble-free service
- Strength tested with locks to a range of international standards

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 | | | | | | | | | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES | |
|---------------|-------|---|---|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-----------|
| ISSUE 8 | | | | | | | | ISSUE 7 | | | | | | | | | | | | | |
| TIME | TOOLS | | | | | | | | | | | | | | | | | | | | SR 1-8 |
| | A | B | C | D | E | F | G | H | | | | | | | | | | | | | |
| 20 MIN | | | | | | | | | UP TO SR6 | 60 MINS | RC6 | BR3 | PAS 24 | SRB | EN 1125 | FB7 | EXV 25 | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN | | | | | | | | | | RC5 | | | | | | EN 1670:GR4 | | | | | |
| 10 MIN | | | | | | | | | | 45 MINS | RC4 | BR2 | | | EN 179 | FB6 | EXV 15 | EN 1634-1 | EN 1670:GR3 | | 500K |
| 5 MIN | | | | | | | | | | 30 MINS | RC3 | | | | | FB5 | | | | | |
| 3 MIN | | | | | | | | | | 15 MINS | RC2 | BR1 | | | UL 305 | FB4 | | CERTIFIRE | EN 1670:GR2 | | |
| 1 MIN | | | | | | | | | | 5 MINS | RC1 | | | | | FB3 | | | EN 1670:GR1 | | |

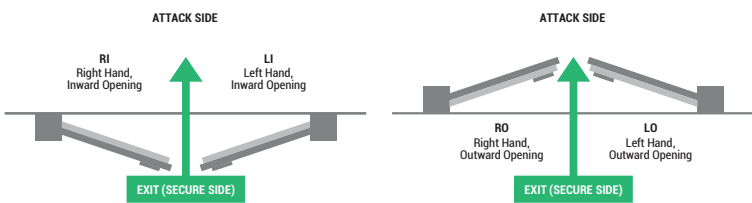
HEAVY DUTY LEVER HANDLE TECHNICAL DRAWING



SELF CODING SYSTEM

Heavy Duty Lever Handles have a simple ordering coding for each individual product, handing, fixing and options.

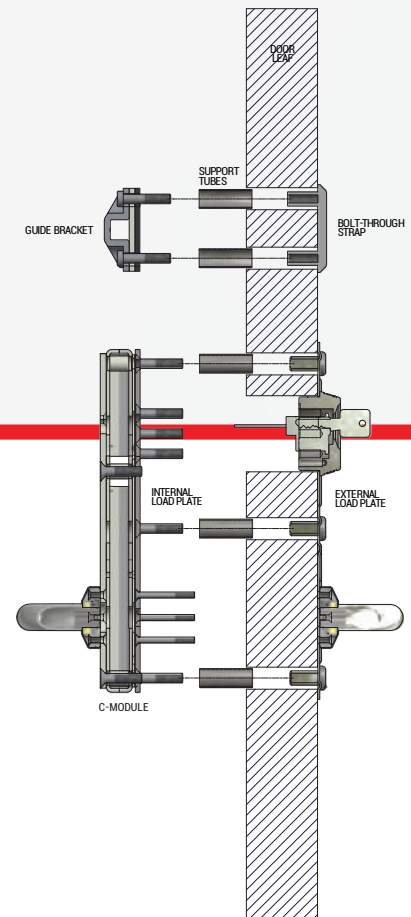
EXAMPLE ORDER CODE: HEPX-W10



| PRODUCT CODE | DESCRIPTION | SINGLE / PAIR | | HANDING | | MOUNTING SCREWS | |
|--------------|-----------------------------------|---------------|--------|---------|------------------------|-----------------|---------------------------|
| HS | Heavy duty straight lever handle | S | Single | X | None | W03 | Machine screws (Metric) |
| HE | Heavy duty ergonomic lever handle | P | Pair | R | Right (HE Single only) | W10 | Machine screws (Imperial) |
| | | | | L | Left (HE Single only) | W02 | Wood screws |

Through-Bolt Mounting Kits provide a robust solution to enhance the combined strength and security of the door after on-site lock installation. Providing a fast and extremely effective solution for both new and aftermarket up-grades, including steel, timber, composite, and hollow metal doors.

Through-Bolt Mounting Kits enable a new lock to be installed to upgrade security, safety, accessibility, and access control capability. Tested to meet various international standards and manufactured in 316 stainless steel for hostile environments and durability.



FEATURES

- Fast and effective security, safety and operational upgrade
- Combined strength of door and lock as one
- 316 grade stainless steel constructions

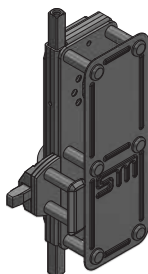
BENEFITS

- Simple design allows for fast installation.
- Stainless steel cast straps and plates ensure secure installation
- Tested to meet various international standards
- Through-bolt kits to cover most locks and operational features
- Ideal aftermarket and up-grade requirements for security, safety, accessibility and access control capability
- Covers most previous lock mounting holes

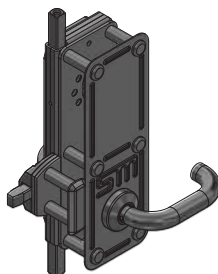
EXAMPLE KITS FOR SLIMLINE AND STIRLING SYSTEMS

SLIMLINE

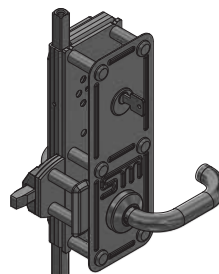
NO ENTRY PROVISION



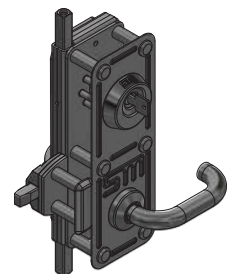
LEVER HANDLE ONLY ENTRY



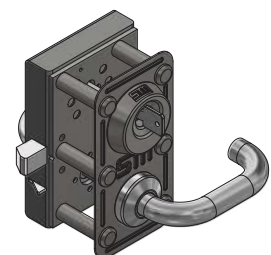
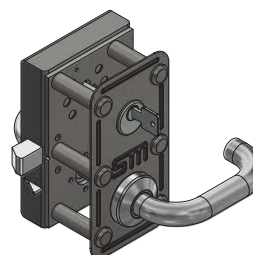
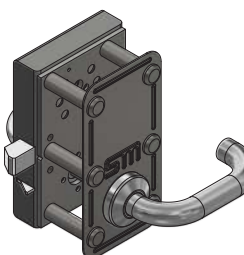
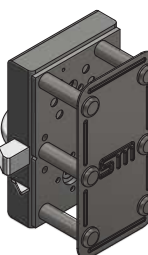
LEVER HANDLE AND RIM / EURO CYLINDER ENTRY



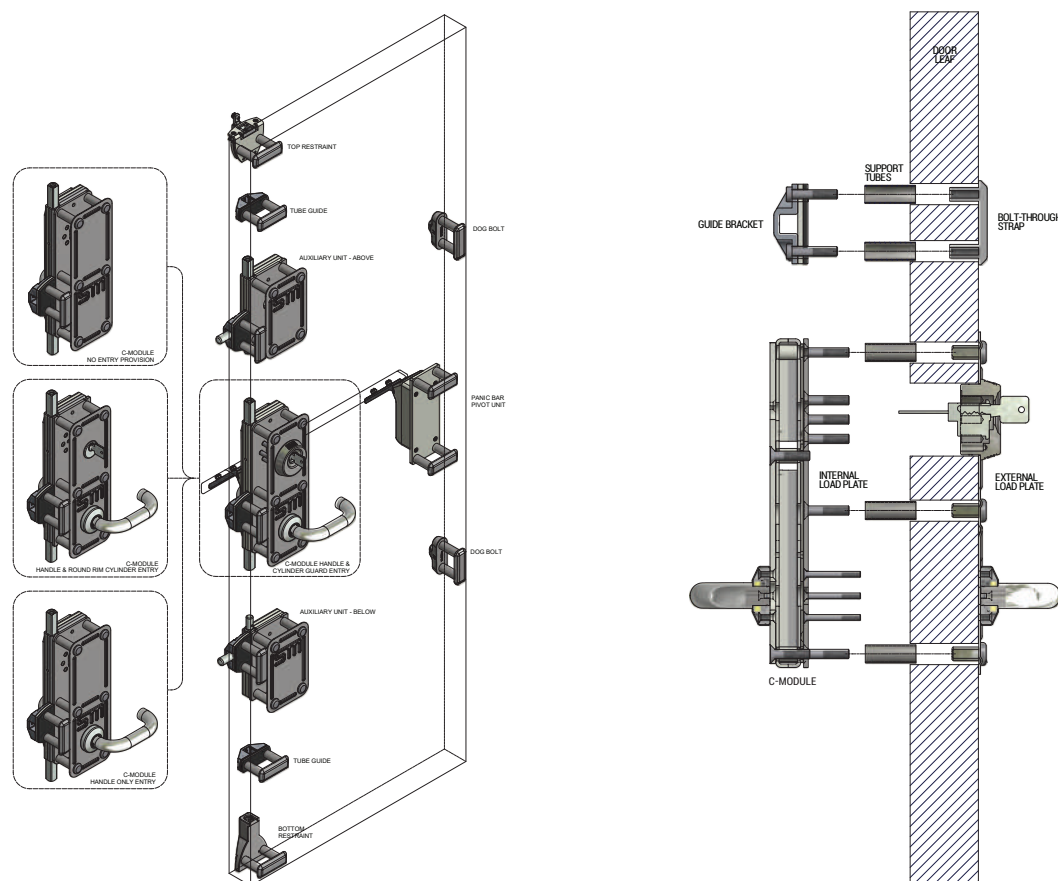
LEVER HANDLE AND CYLINDER GUARD ENTRY



STIRLING



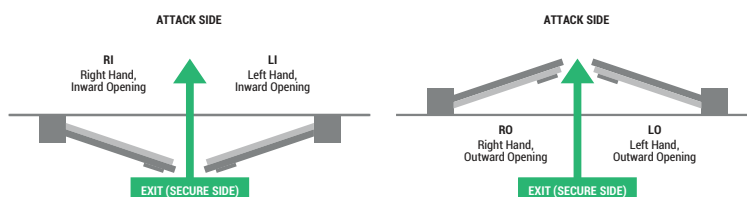
THROUGH-BOLT MOUNTING KIT TECHNICAL DRAWING



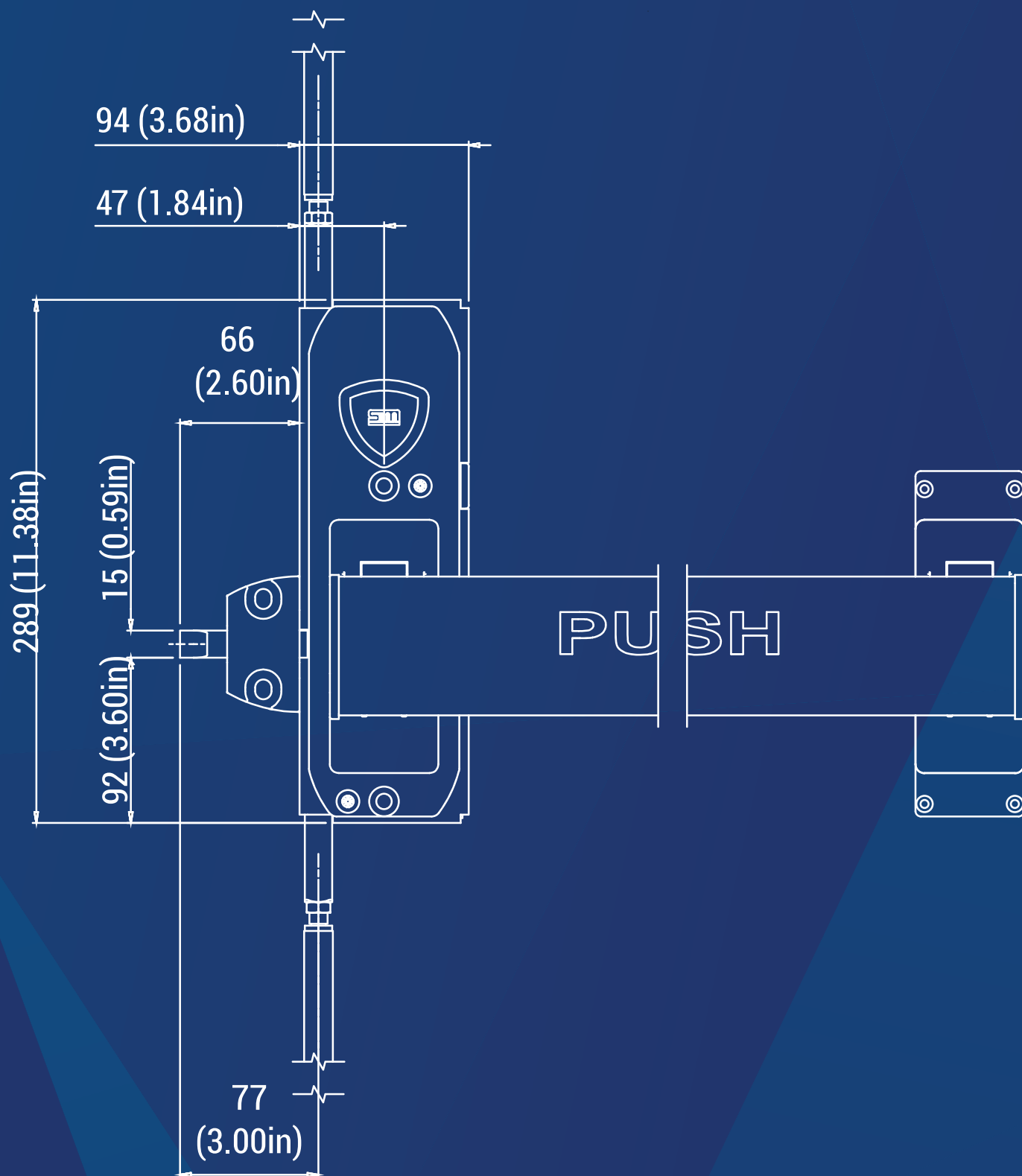
SELF CODING SYSTEM

Through-bolt Mounting Kits have a simple ordering coding for each individual product, please refer to the above drawings and the chart below to reference your ordering code to your chosen system.

EXAMPLE ORDER CODE: TB-SL3C-4R57-W10



| MODEL | SYSTEM | | BOLTING CONFIGURATION | | EXTERNAL TRIM FEATURES | | HANDING | | DOOR THICKNESS | | MOUNTING SCREWS | |
|-------|--------|----------|-----------------------|-----------|------------------------|---------------------------------|---------|------------|----------------|----------------|-----------------|---------------------------|
| | | | QTY | DIRECTION | | | | | | | | |
| TB | SL | Slimline | 1 | A | 0 | None | X | None | 44 | 44 mm (1 3/4") | W03 | Machine screws (Metric) |
| | | | 2 | B | 1 | Cylinder only | R | Right hand | 57 | 57 mm (2 1/4") | W10 | Machine screws (Imperial) |
| | ST | Stirling | 3 | C | 2 | Lever handle only | L | Left hand | 99 | 100 mm (4") | | |
| | | | 4 | D | 3 | Lever handle & Rim cylinder | | | | | | |
| | | | 5 | E | 4 | Lever handle & Cylinder guard | | | | | | |
| | | | 6 | F | 5 | Lever handle & Combination lock | | | | | | |
| | | | 7 | G | | | | | | | | |



TECHNICAL INFORMATION

As a leader in the field of physical security and as a manufacturer that prides itself on quality, our Surelock and MICO brands adhere to a wide host of International testing standards. Testing is performed via third-party test houses and in many cases requires a complete doorset or gate to ensure combined accreditation, these are marked with an asterisk (*). Independent auditing of continual design and manufacture ensures a continual genuine stamp of product performance.

Continual testing and approval of our products provides the confidence of their ability to perform and meet these standards, enabling individual door and gate manufacturers to select suitable products and submit their designs for testing and accreditation.



Assessed to ISO 9001:2015
LPCB Cert. No. 516-1

PHYSICAL SECURITY

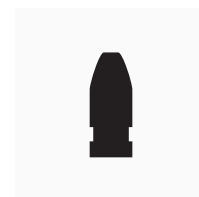
- LPS 1175 Issue 8 SR2 to SR6 & B3 to E10 & G5- LPCB/BRE physical security standard*
- US DoS SD-STD-01-01G (FEBR) up to 60 minutes - US combined ballistic and forced entry test standard*
- ASTM F3038 - Standard Test Method for Timed Evaluation of Forced-Entry-Resistant Systems
- CPNI - UK Government security tests*
- EN 1627 - European security test standard*
- PAS 24 - UK domestic security test standard*
- Exova STS202 - security test standard*



PHYSICAL SECURITY

BALLISTIC

- EN 1522 / EN 1523 FB4 to FB7 + FSG - European ballistic test standard*
- UL 752 – Standard for Bullet-Resisting Equipment
- NIJ Standard 0108.01 – Ballistic Resistant Protective Materials
- US DoS SD-STD-01-01G (FEBR) up to 60 minutes – US combined ballistic and forced entry test standard*



BALLISTIC

BLAST

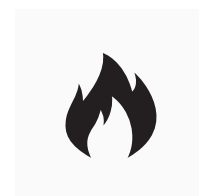
- ISO 16933 – Test Method (100 kg TNT at 15m on standard systems) – Arena blast test*
- EN 13123-2/EN 13124-2 – Arena blast test*
- CPNI Protected Spaces C15 & C25 – UK Government arena blast test*
- ASTM F2927 – Standard Test Method for Door Systems Subject to Airblast Loadings
- Static load tests*



BLAST

FIRE

- EN 1634-1 – European Fire Protection, up to 4 hours*
- BS 476-22 – UK Fire Protection, up to 4 hours*
- DNV-OS-D301 – Marine Fire Protection, A60, H60, H120*
- IMO MSC.307 FTP – International Maritime Organisation Fire Test Procedure, A15, A30, A60*
- ISO 22899-1 – Jet fire resistance test, J60, J120*
- UL10C – US Fire Protection
- NS 3919 – Norwegian Fire Protection
- Certifire approved – Certification scheme for fire door hardware



FIRE

PANIC & EMERGENCY ESCAPE:

- EN 1125 – European test for panic escape hardware (panic bars)
- UL305 – US Standard for Panic Hardware
- EN 179 – European test for emergency escape hardware (lever handle and push pads)
- CE marked – European requirement
- Certifire approved – Certification scheme for panic & emergency escape hardware

WINDSTORM

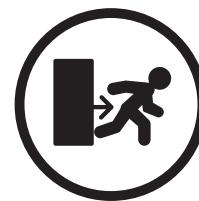
- FEMA 361 – Safe Rooms for Tornadoes and Hurricanes

CORROSION

- EN 1670:2007 – Corrosion resistance for building hardware, grade 5

SEISMIC

- 0.5 g to 6.0 g, 5 Hz to 100 Hz



PANIC &
EMERGENCY ESCAPE



WINDSTORM



CORROSION



SEISMIC

As modern requirements surrounding security and accessibility change – there has developed a worldwide need for locking systems that can allow for automated door access.

This requires locks and other hardware to interact with door sensors, timers, remote control from a security room, personnel 'swipe-in swipe-out', or disabled access buttons. For external entrances the challenge does not just focus on designing doors around access but also protecting against physical attack, ballistics, blast and other threats.

The Surelock McGill Group manufactures a full range of products to enable businesses and governments around the world to design their secure environments with suitable automated locking systems, automatic door operators, and other appropriate architectural ironmongery and door furniture.

FEATURES

- High performance single- or multi-point locking system, to meet building risk and operational needs
- Automatic door operator (ADO), to suit door weight and operational performance
- Sensors and protection guards, for personnel safety
- Directly wired to access control system, to ensure desired operation
- Power supply and back-up
- Choice of 'fail-secure' (as standard), or 'fail-safe' available
- Out-of-hours lock-down, optional
- BSEN 1125 & BSEN 179 life-safety compliance, optional
- Multiple risk protection against forced entry, blast, ballistic and fire protection
- Durable in design, construction, testing and operation

BENEFITS

- Ease of hands-free operation on high-performance, heavy doors
- Safe for all users
- Retrofittable upgrade for equality
- Can be used on life-safety panic & emergency exit single & double doors, fire doors and more
- High-performance and longevity assured



MOTORISED SLIMLINE
PAGE 30

AUTOMATIC DOOR OPERATORS (ADO)

FEATURES

- Doors up to 315 kg (700 lbs) and width of 1,400 mm (55")
- Working temperature range of 5°F (-15°C) to 120°F (50°C)
- Digital programmer sets field operating parameters and displays system diagnostics
- Opening time to 95° is 4-12 seconds, closing time from 95° is 5-15 seconds (field programmable)
- Enclosure environmental rating: IP31

BENEFITS

- High degree of site-specific programming options
- Works seamlessly with all Surelock McGill motorised bolt retraction devices
- Capable for use on escape routes
- Provides hands free access solutions when used with motorised locking
- Battery back-up available, in case of power failure



AUTOMATIC DOOR OPERATORS
PAGE 82

STIRLING MOTORISED

FEATURES

- Surface mounted for maximum strength
- Stainless steel '316' construction
- Proven rack & pinion driven
- 1 No x 19 mm (0.75 in) square bolt x 25 mm (0.98 in) throw
- Tested to over 1,000,000 cycles
- Monitoring of bolt & lock status
- Control box & power supply



STIRLING MOTORISED
PAGE 12

BENEFITS

- Automatically secured in door closed position
- Tested on specific doorsets up to LPS 1175:SR4
- Life safety device BSEN 1125 & 179 compliant
- Engineered for longevity and trouble-free service

SLIMLINE MOTORISED

FEATURES

- Surface mounted fitted solutions
- Stainless steel '316' construction
- Proven rack & pinion mechanism
- 3 No x 15 mm (0.59 in) x 25 mm (0.98 in) throw stainless steel bolts
- Tested to over 1,000,000 cycles
- Monitoring of bolt & lock status
- Control box & power supply

BENEFITS

- Automatically secured in door closed position
- Tested on specific doorsets up to LPS 1175:SR6
- Life safety device BSEN 1125 & 179 compliant
- Engineered for longevity and trouble-free service

SELF-CODING PRODUCT GUIDE (POPULAR EXAMPLES)

This is a guide to the simple ordering code that covers the chosen methods of entry, securing, and exit, followed by additional enhancements to further customise the device. Please refer to your chosen product pages for individual availability.

EXAMPLE ORDERING CODE: ST1A-KMLS-AA-LMPB-RO

STEP 1. SELECT PRODUCT

RANGE



AB - ABRYLL



TY - TYNE



ST - STIRLING



MA - MODULA



MS -
MSR SINGLE-POINT



LO - LODDON



RM - RIMLOCK



RB - RIBBLE

NUMBER OF BOLTS & BOLT DIRECTION



1A

STEP 2. ENTRY

UNLOCKING



X - NONE



K - KEY



H - LOCKABLE
LEVER HANDLE



A - ACCESS
CONTROL



C - COMBINATION
LOCK



L - PANIC /
EMERGENCY /
SINGLE OPERATION

BOLT RETRACTION



X - NONE



M - MANUAL



P - POWERED
(ELECTRIC)

OPERATOR



XX - NONE



LS - LEVER HANDLE
(STRAIGHT)



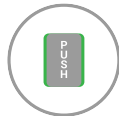
LE - LEVER HANDLE
(ERGONOMIC)



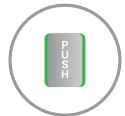
PB - PANIC BAR
(BLADE ALUMINIUM)



PE - PANIC BAR
(STAINLESS STEEL)



PP - PUSH PAD
(ALUMINIUM)



PS - PUSH PAD
(STAINLESS STEEL)

STEP 3. SECURING

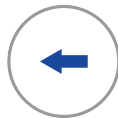
UPON DOOR CLOSURE



**AA – AUTO
BOLTING / AUTO
DEADLOCKING**



**AM – AUTO
BOLTING / MANUAL
DEADLOCKING**



**AB – AUTO
BOLTING ONLY**



**MA – MANUAL
BOLTING / AUTO
DEADLOCKING**



**MM – MANUAL
BOLTING / MANUAL
DEADLOCKING**



**MB – MANUAL
BOLTING ONLY**

STEP 4. EXIT

UNLOCKING



X – NONE



K – KEY



**A – ACCESS
CONTROL**



**L – PANIC /
EMERGENCY /
SINGLE OPERATION**



T – THUMBTURN

BOLT RETRACTION



X – NONE



M – MANUAL



**P – POWERED
(ELECTRIC)**

OPERATOR



XX – NONE



**LS – LEVER HANDLE
(STRAIGHT)**



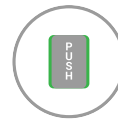
**LE – LEVER HANDLE
(ERGONOMIC)**



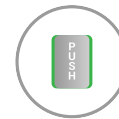
**PB – PANIC BAR
(BLADE ALUMINIUM)**



**PE – PANIC BAR
(STAINLESS STEEL)**



**PP – PUSH PAD
(ALUMINIUM)**



**PS – PUSH PAD
(STAINLESS STEEL)**



TN – THUMBTURN



PL – PULL LEVER



KK – KEY

STEP 5. FITTING & ORIENTATION

HANDING & OPENING METHOD



XX – UNHANDED



**RI – RIGHT
HAND, OPEN IN**



**RO – RIGHT HAND
(REVERSED),
OPEN OUT**



**LI – LEFT HAND,
OPEN IN**



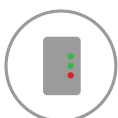
**LO – LEFT HAND
(REVERSED),
OPEN OUT**



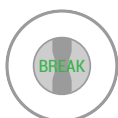
UN – UNKNOWN

STEP 6. OPTIONAL ENHANCEMENTS

POTENTIAL OPTIONAL ENHANCEMENTS



M01 – MONITORING



**K04 – BREAKDOME
OVER THUMBTURN**



**M03 – REQUEST
TO EXIT FACILITY**

SELF-CODING PRODUCT GUIDE (POPULAR EXAMPLES)

This is a guide to the simple ordering code that covers the chosen methods of entry, securing, and exit, followed by additional enhancements to further customise the device. Please refer to your chosen product pages for individual availability.

EXAMPLE ORDERING CODE: SL3A-AMLS-AA-LMLE-RO-M03

STEP 1. SELECT PRODUCT

RANGE



SL / SM – SLIMLINE



MS – MSR
MULTI-POINT

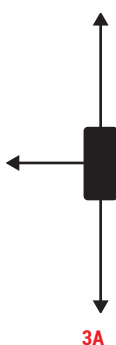


ZE – ZEUS

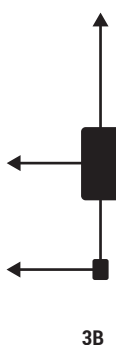
NUMBER OF BOLTS & BOLT DIRECTION



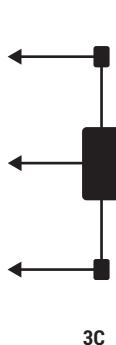
2A



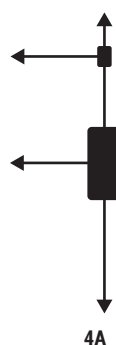
3A



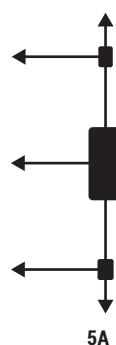
3B



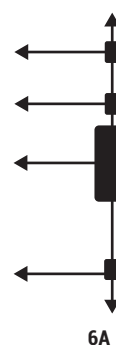
3C



4A



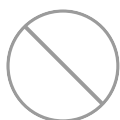
5A



6A

STEP 2. ENTRY

UNLOCKING



X – NONE



K – KEY



H – LOCKABLE
LEVER HANDLE



A – ACCESS
CONTROL



C – COMBINATION
LOCK



L – PANIC /
EMERGENCY /
SINGLE OPERATION

BOLT RETRACTION



X – NONE



M – MANUAL



P – POWERED
(ELECTRIC)

OPERATOR



XX – NONE



LS – LEVER HANDLE
(STRAIGHT)



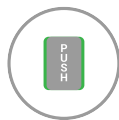
LE – LEVER HANDLE
(ERGONOMIC)



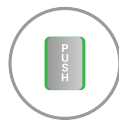
PB – PANIC BAR
(BLADE ALUMINIUM)



PE – PANIC BAR
(STAINLESS STEEL)



PP – PUSH PAD
(ALUMINIUM)



PS – PUSH PAD
(STAINLESS STEEL)

STEP 3. SECURING

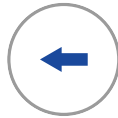
UPON DOOR CLOSURE



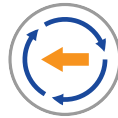
**AA – AUTO
BOLTING / AUTO
DEADLOCKING**



**AM – AUTO
BOLTING / MANUAL
DEADLOCKING**



**AB – AUTO BOLTING
ONLY**



**MA – MANUAL
BOLTING / AUTO
DEADLOCKING**



**MM – MANUAL
BOLTING / MANUAL
DEADLOCKING**



**MB – MANUAL
BOLTING ONLY**

STEP 4. EXIT

UNLOCKING



X – NONE



K – KEY



**A – ACCESS
CONTROL**



**L – PANIC /
EMERGENCY /
SINGLE OPERATION**



T – THUMBTURN

BOLT RETRACTION



X – NONE



M – MANUAL



**P – POWERED
(ELECTRIC)**

OPERATOR



XX – NONE



**LS – LEVER HANDLE
(STRAIGHT)**



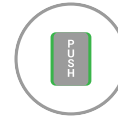
**LE – LEVER HANDLE
(ERGONOMIC)**



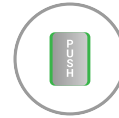
**PB – PANIC BAR
(BLADE ALUMINIUM)**



**PE – PANIC BAR
(STAINLESS STEEL)**



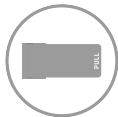
**PP – PUSH PAD
(ALUMINIUM)**



**PS – PUSH PAD
(STAINLESS STEEL)**



**TN – THUMBTURN
& LEVER HANDLE**



PL – PULL LEVER



KK – KEY

STEP 5. FITTING & ORIENTATION

HANDING & OPENING METHOD



XX – UNHANDED



**RI – RIGHT
HAND, OPEN IN**



**RO – RIGHT HAND
(REVERSED),
OPEN OUT**



**LI – LEFT HAND,
OPEN IN**



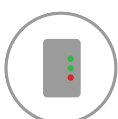
**LO – LEFT HAND
(REVERSED),
OPEN OUT**



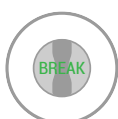
UN – UNKNOWN

STEP 6. OPTIONAL ENHANCEMENTS

POPULAR OPTIONAL ENHANCEMENTS



M01 – MONITORING



**K04 – BREAKDOME
OVER THUMBTURN**



**M03 – REQUEST
TO EXIT FACILITY**

SELF-CODING PRODUCT GUIDE (POPULAR EXAMPLES)

This is a guide to the simple ordering code that covers the chosen methods of entry, securing, and exit, followed by additional enhancements to further customise the device. Please refer to your chosen product pages for individual availability.

EXAMPLE ORDERING CODE: M03C-KMLS-AA-LMLE-RO

STEP 1. SELECT PRODUCT

RANGE



MO - MOORGATE



PG - PALISADE

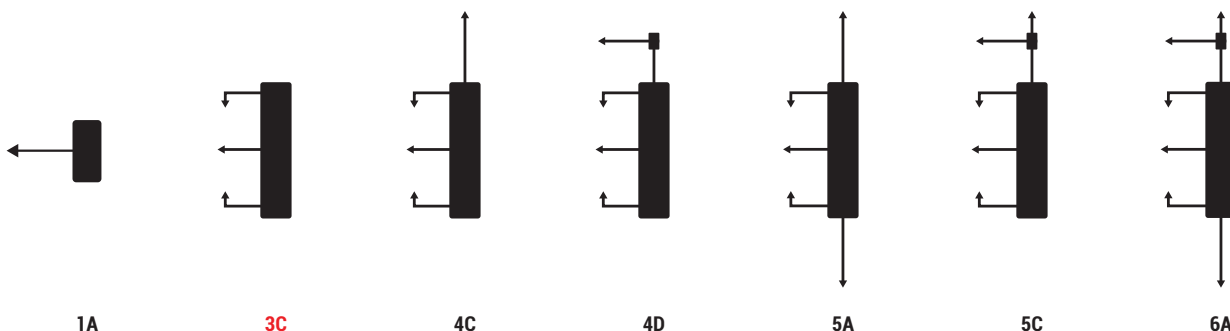


GT - GT



SGL - SG

NUMBER OF BOLTS & BOLT DIRECTION



STEP 2. ENTRY

UNLOCKING



X - NONE



K - KEY



H - LOCKABLE
LEVER HANDLE



A - ACCESS
CONTROL



C - COMBINATION
LOCK

BOLT RETRACTION



X - NONE



M - MANUAL



P - POWERED
(ELECTRIC)

OPERATOR



XX - NONE



LS - LEVER HANDLE
(STRAIGHT)



LE - LEVER HANDLE
(ERGONOMIC)



US - PROFILE
HANDLE (STRAIGHT)



UC - PROFILE
HANDLE (STRAIGHT
CLUTCHED)

STEP 3. SECURING

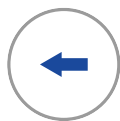
UPON DOOR CLOSURE



**AA – AUTO
BOLTING / AUTO
DEADLOCKING**



**AM – AUTO
BOLTING / MANUAL
DEADLOCKING**



**AB – AUTO
BOLTING ONLY**



**MA – MANUAL
BOLTING / AUTO
DEADLOCKING**



**MM – MANUAL
BOLTING / MANUAL
DEADLOCKING**

STEP 4. EXIT

UNLOCKING



X – NONE



K – KEY



**A – ACCESS
CONTROL**



**L – PANIC /
EMERGENCY /
SINGLE OPERATION**



T – THUMBTURN

BOLT RETRACTION



X – NONE



M – MANUAL



**P – POWERED
(ELECTRIC)**

OPERATOR



XX – NONE



**LS – LEVER HANDLE
(STRAIGHT)**



**LE – LEVER HANDLE
(ERGONOMIC)**



**US – PROFILE
HANDLE (STRAIGHT)**



**UC – PROFILE
HANDLE (STRAIGHT
CLUTCHED)**



**SK – ANTI-CLIMB
SLIDING KNOB**

STEP 5. FITTING & ORIENTATION

HANDING & OPENING METHOD



XX – UNHANDED



**RI – RIGHT
HAND, OPEN IN**



**RO – RIGHT HAND
(REVERSED),
OPEN OUT**



**LI – LEFT HAND,
OPEN IN**



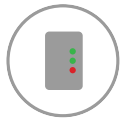
**LO – LEFT HAND
(REVERSED),
OPEN OUT**



UN – UNKNOWN

STEP 6. OPTIONAL ENHANCEMENTS

POPULAR OPTIONAL ENHANCEMENTS



M01 – MONITORING



**K04 – BREAKDOME
OVER THUMBTURN**

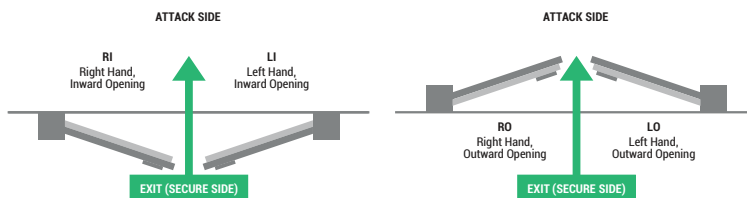


**M03 – REQUEST
TO EXIT FACILITY**

SELF CODING SYSTEM

Surelock and Mico keeps have a simple ordering code, covering the opening method and door material type.

EXAMPLE ORDER CODE: KAB-OS-00

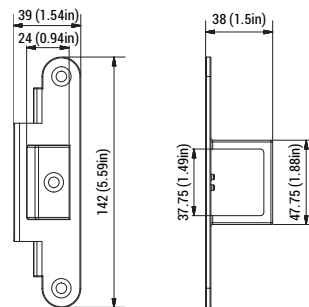
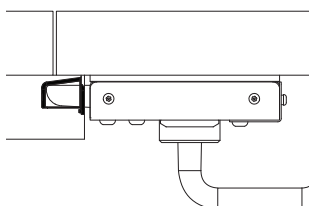


| MODEL | | OPENING DIRECTION | | FRAME MATERIALS | | VARIANTS | PACKING (OPTION B) | |
|-------|-------------|-------------------|----------------|-----------------|--------|----------|--------------------|--|
| AB | Abryll | O | Outward | S | Steel | 00-99 | 08 | Load plate & packing; door to bolt 8mm (0.32in) |
| TY | Tyne | I | Inward | T | Timber | | 12 | Load plate & packing; door to bolt 12mm (0.47in) |
| ST | Stirling | B | Bi-directional | B | Both | | 15 | Load plate & packing; door to bolt 15mm (0.59in) |
| MA | Modula | S | Sliding | X | N/A | | 20 | Load plate & packing; door to bolt 20mm (0.79in) |
| RM | Rimlock | F | Floor | | | | 25 | Load plate & packing; door to bolt 25mm (0.98in) |
| SL | Slimline | | | | | | | |
| MS | MSR | | | | | | | |
| ZE | Zeus | | | | | | | |
| MO | Moorgate | | | | | | | |
| PG | Palisade | | | | | | | |
| GT | Purbrook-GT | | | | | | | |
| SG | SGL | | | | | | | |

ABRYLL KEEPS

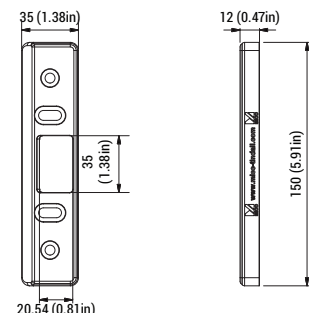
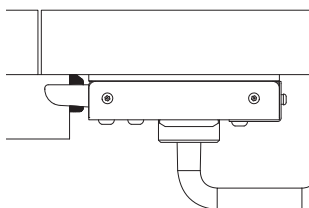
EXAMPLE CODE: KAB-OS-00

Stainless steel keep to suit outward opening doors in a steel frame.



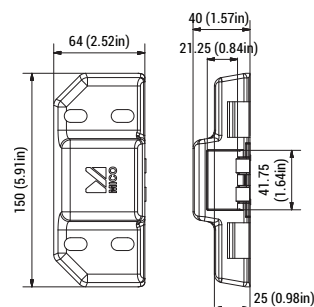
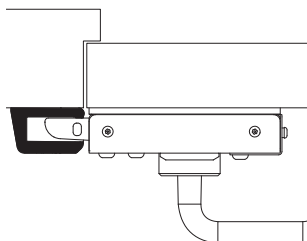
EXAMPLE CODE: KAB-OT-00

Stainless steel keep to suit outward opening doors in a timber frame.



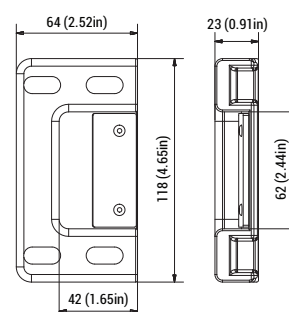
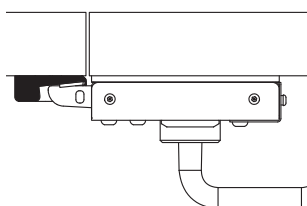
EXAMPLE CODE: KAB-IB-00

Stainless steel keep to suit inward opening doors in a steel or timber frame.



EXAMPLE CODE: KAB-OB-01

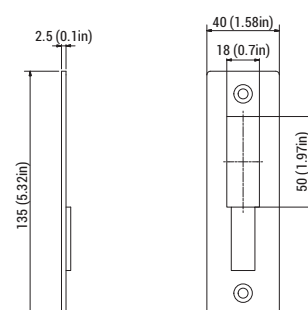
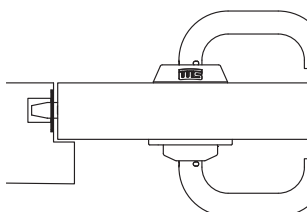
Stainless steel keep to suit outward (dual-opening) steel or timber double doors.



TYNE KEEPS

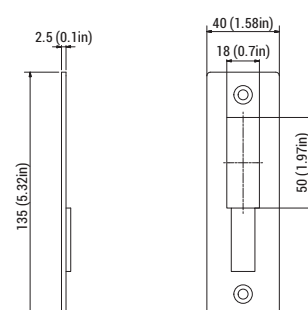
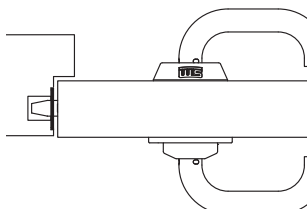
EXAMPLE CODE: KTY-BB-00

Stainless steel keep to suit inward & outward opening doors in a steel or timber frame.



EXAMPLE CODE: KTY-BB-00

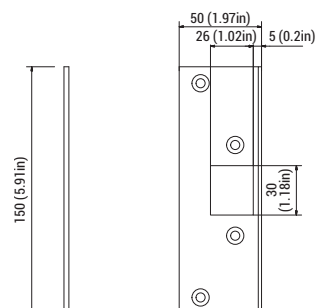
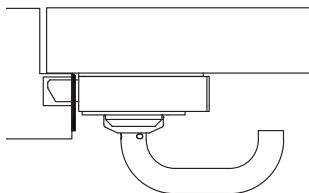
Stainless steel keep to suit inward & outward opening doors in a steel or timber frame



STIRLING KEEPS

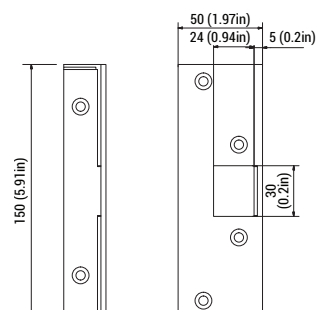
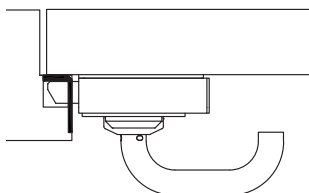
EXAMPLE CODE: KST-OS-00

Stainless steel keep to suit outward opening doors in a steel frame.



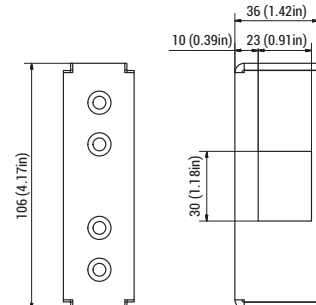
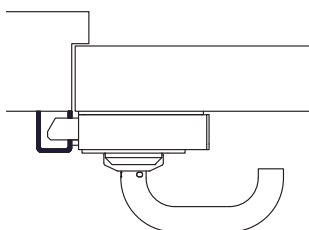
EXAMPLE CODE: KST-OT-00

Stainless steel keep to suit outward opening doors in a timber frame.



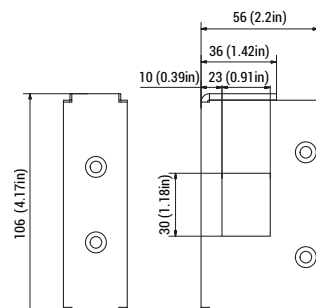
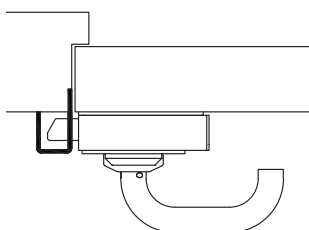
EXAMPLE CODE: KST-IS-00

Stainless steel keep to suit inward opening doors in a steel frame.



EXAMPLE CODE: KST-IT-00

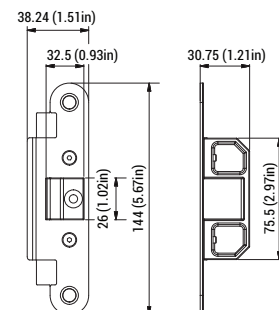
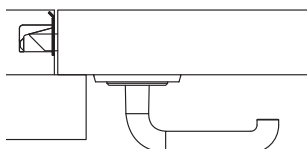
Stainless steel keep to suit inward opening doors in a timber frame.



MODULA KEEPS

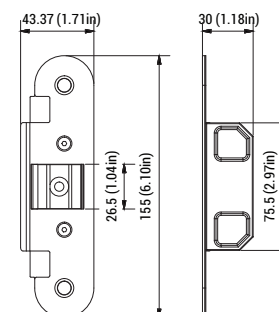
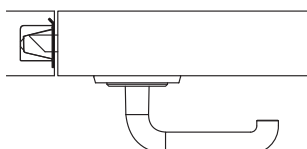
EXAMPLE CODE: KMA-BB-00

Stainless steel keep to suit inward & outward opening in a steel or timber door.



EXAMPLE CODE: KMA-OB-00

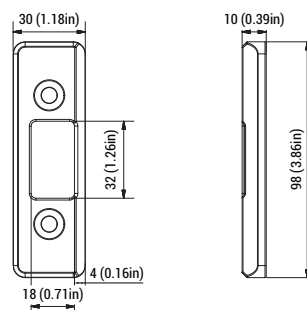
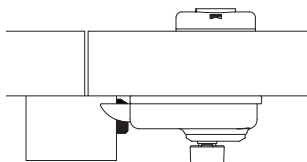
Stainless steel keep to suit outward opening in steel or timber double doors.



RIMLOCK KEEPS

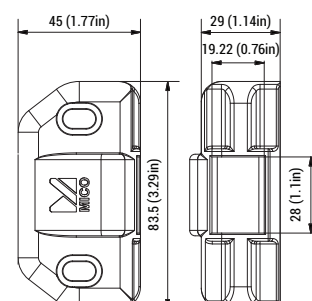
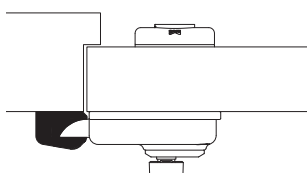
EXAMPLE CODE: KRM-OB-00

Stainless steel keep to suit outward opening doors in a steel or timber frame.



EXAMPLE CODE: KRM-IB-00

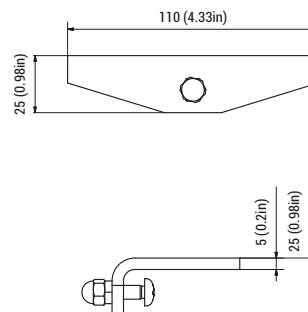
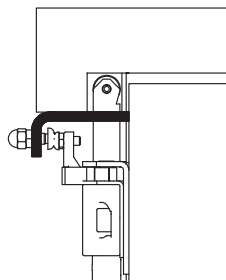
Stainless steel keep to suit inward opening doors in a steel or timber frame.



SLIMLINE TOP KEEPS

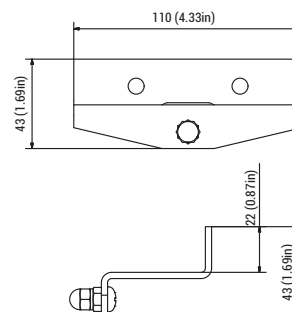
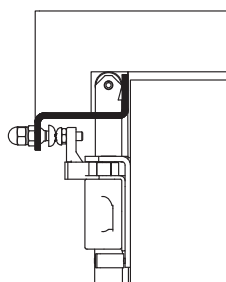
EXAMPLE CODE: KSL-OS-01

Stainless steel keep & restraint strike to suit outward opening doors in a steel or timber frame.



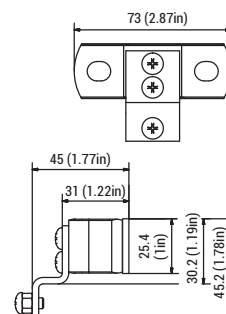
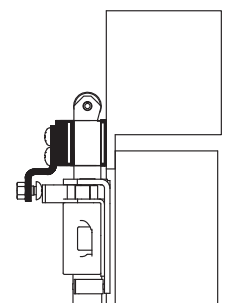
EXAMPLE CODE: KSL-OT-01

Stainless steel keep & restraint strike to suit outward opening doors in a timber frame.



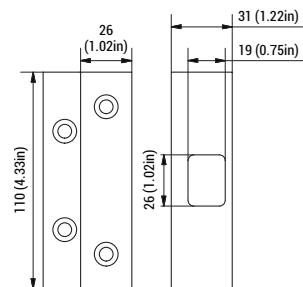
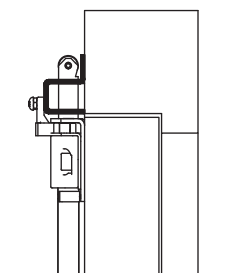
EXAMPLE CODE: KSL-OS-02

Stainless steel keep & restraint strike to suit outward opening doors in a narrow section steel frame.



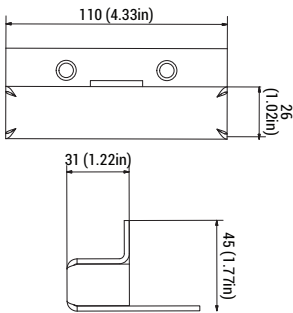
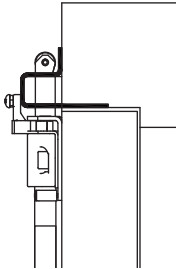
EXAMPLE CODE: KSL-IS-00

Stainless steel keep to suit inward opening doors in a steel frame.



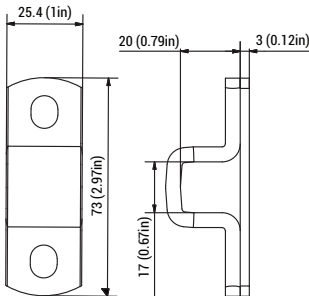
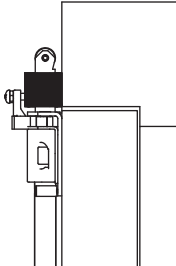
EXAMPLE CODE: KSL-IT-00

Stainless steel keep to suit inward opening doors in a timber frame.



EXAMPLE CODE: KSL-IS-02

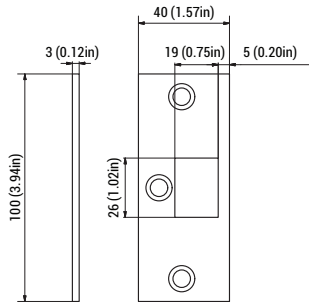
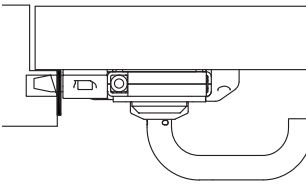
Stainless steel keep to suit inward opening doors in a narrow section steel frame.



SLIMLINE CENTER KEEPS

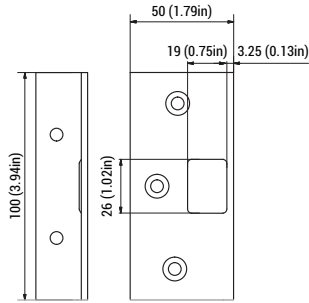
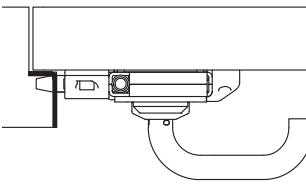
EXAMPLE CODE: KSL-OS-01

Stainless steel keep to suit outward opening doors in a steel frame.



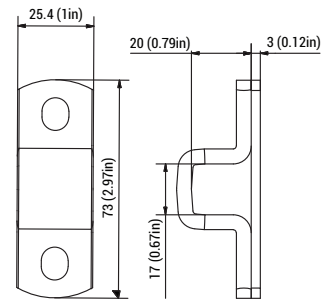
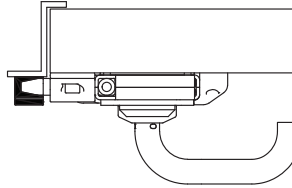
EXAMPLE CODE: KSL-OT-00

Stainless steel keep to suit outward opening doors in a timber frame.



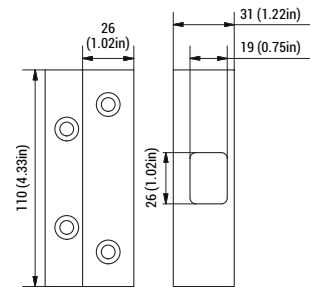
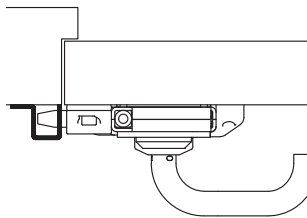
EXAMPLE CODE: KSL-IS-00

Stainless steel keep to suit inward opening doors in a steel frame.



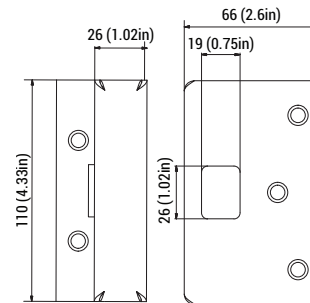
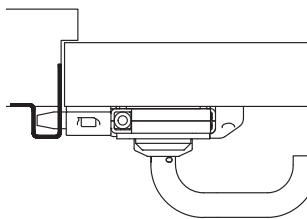
EXAMPLE CODE: KSL-IS-01

Stainless steel keep to suit inward opening doors in a steel frame.



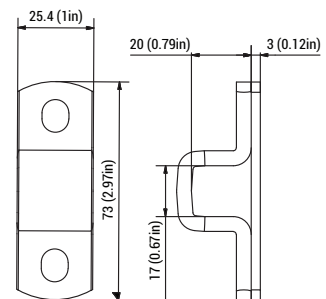
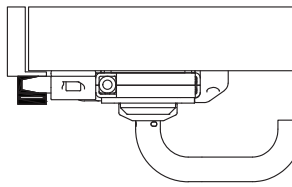
EXAMPLE CODE: KSL-IT-00

Stainless steel keep to suit inward opening doors in a timber frame.



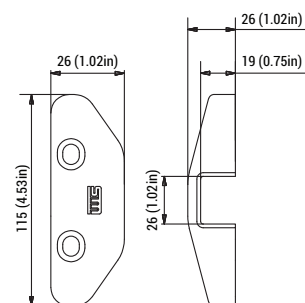
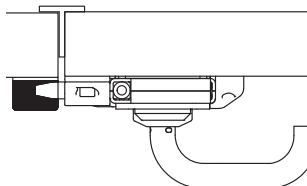
EXAMPLE CODE: KSL-OS-00

Stainless steel keep to suit outward opening doors in a steel frame.



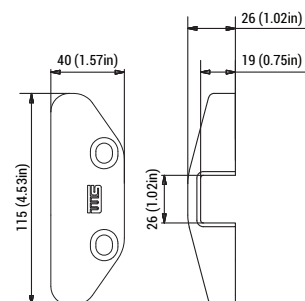
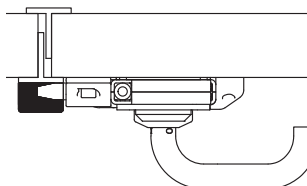
EXAMPLE CODE: KSL-BB-00

Stainless steel keep to suit inward & outward opening double doors.



EXAMPLE CODE: KSL-BB-01

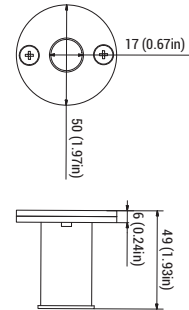
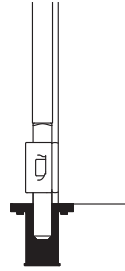
Stainless steel keep to suit inward & outward opening double doors with internal 'T' Astragal.



SLIMLINE FLOOR KEEPS

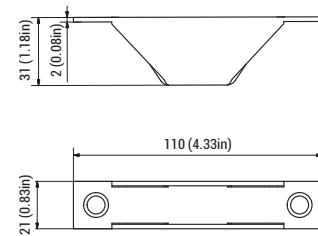
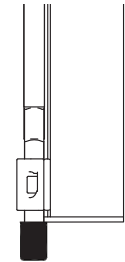
EXAMPLE CODE: KSL-FX-00

Stainless steel 'Dust-free' floor keep.



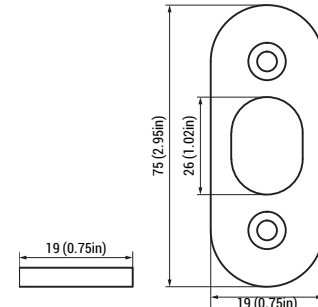
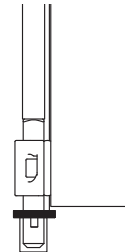
EXAMPLE CODE: KSL-FX-01

Stainless steel 'Easy-clean' floor keep.



EXAMPLE CODE: KSL-FX-02

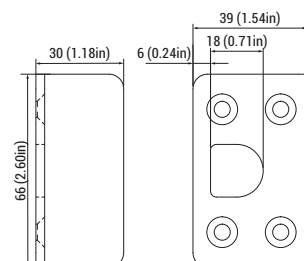
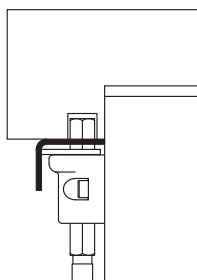
Stainless steel 'Plate' floor keep.



MSR TOP KEEPS

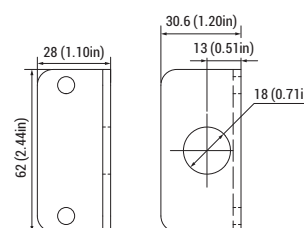
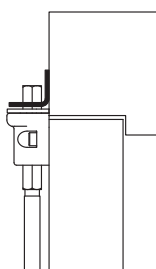
EXAMPLE CODE: KMS-OB-01

Stainless steel keep & restraint strike to suit outward opening doors in a steel or timber frame.



EXAMPLE CODE: KMS-IB-01

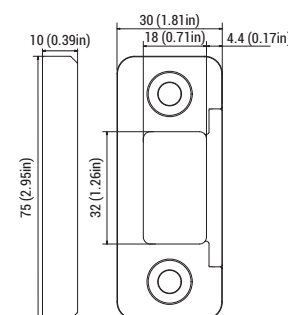
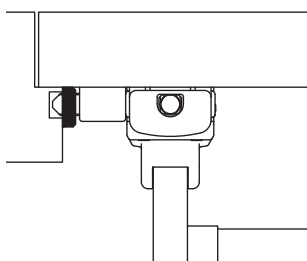
Stainless steel keep & restraint strike to suit inward opening doors in a steel or timber frame.



MSR CENTER KEEP

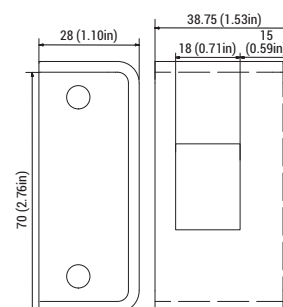
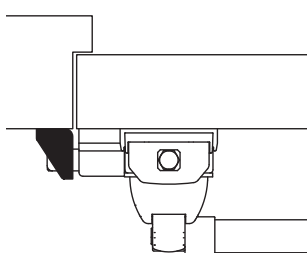
EXAMPLE CODE: KMS-OB-00

Stainless steel keep to suit outward opening doors in a steel or timber frame.



EXAMPLE CODE: KMS-IB-00

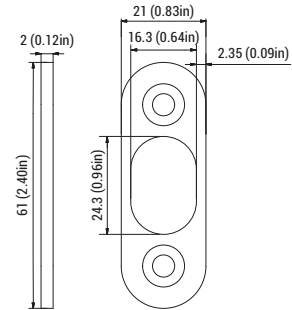
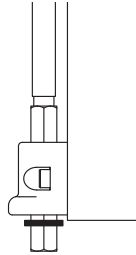
Stainless steel keep to suit inward opening doors in a steel or timber frame.



MSR BOTTOM KEEPS

EXAMPLE CODE: KMS-FX-04

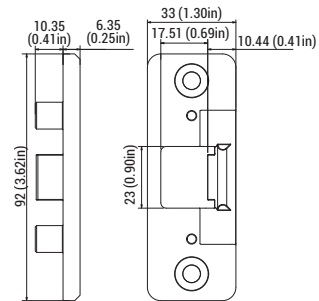
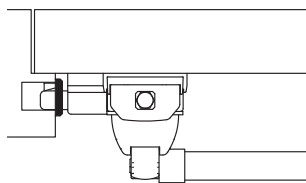
Stainless steel floor keep.



ZEUS HORIZONTAL KEEPS

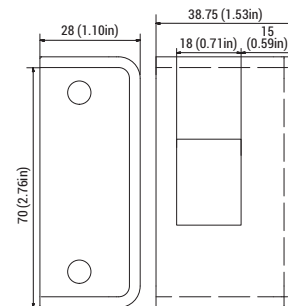
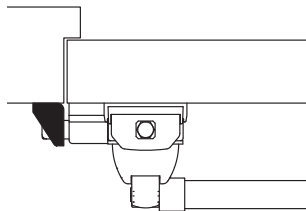
EXAMPLE CODE: KZE-OB-00

Stainless steel keep & restraint strike to suit center bolt on outward opening doors in a steel or timber frame.



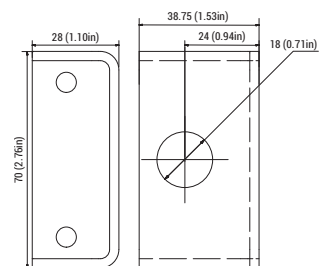
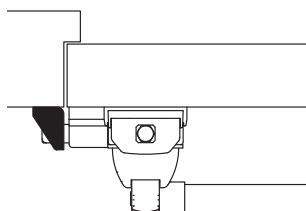
EXAMPLE CODE: KZE-IB-00

Stainless steel keep & restraint strike to suit center bolt on inward opening doors in a steel or timber frame.



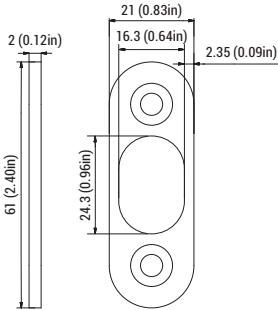
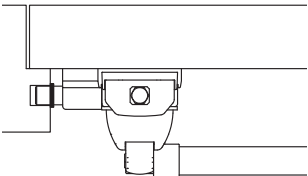
EXAMPLE CODE: KZE-OB-01

Stainless steel keep to suit upper & lower horizontal bolts on outward opening doors in a steel or timber frame.



EXAMPLE CODE: KZE-IB-01

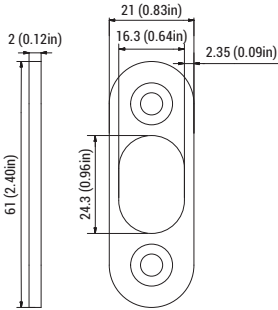
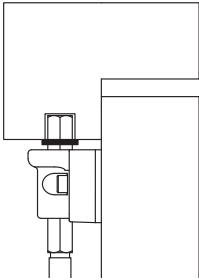
Stainless steel keep to suit upper & lower horizontal bolts on inward opening doors in a steel or timber frame.



ZEUS VERTICAL KEEPS

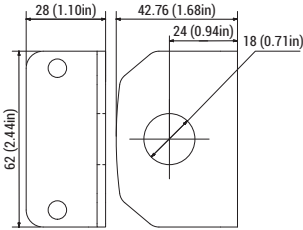
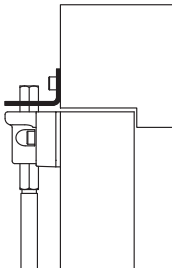
EXAMPLE CODE: KZE-OB-02

Stainless steel keep to suit top bolt on outward opening doors in a steel or timber frame.



EXAMPLE CODE: KZE-IB-02

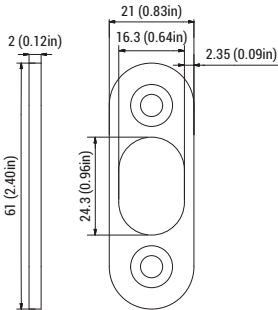
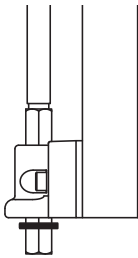
Stainless steel keep to suit top bolt on inward opening doors in a steel or timber frame.



ZEUS VERTICAL & HORIZONTAL BOTTOM KEEPS

EXAMPLE CODE: KZE-FX-04

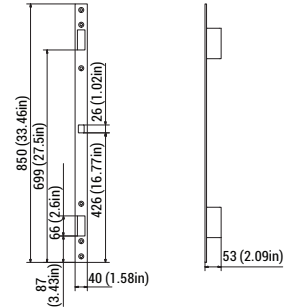
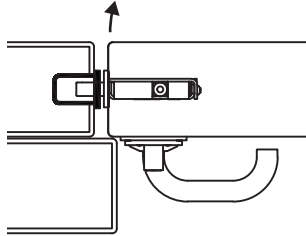
Stainless steel floor keep.



MOORGATE KEEPS

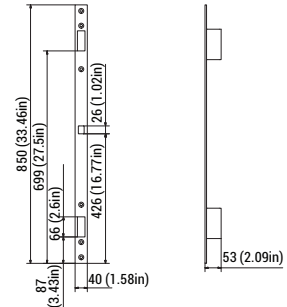
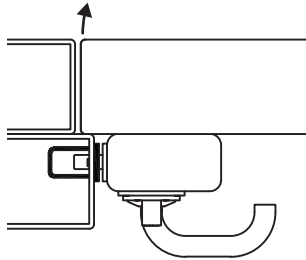
EXAMPLE CODE: KMO-BS-00

Stainless steel mortice fitted keep to suit inward & outward opening gates.



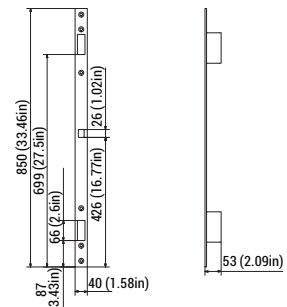
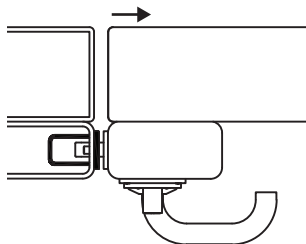
EXAMPLE CODE: KMO-BS-01

Stainless steel surface mounted keep to suit inward & outward opening gates.



EXAMPLE CODE: KMO-SS-00

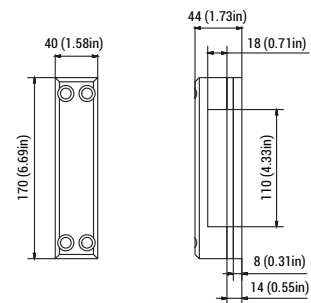
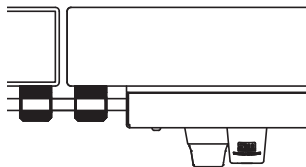
Stainless steel surface mounted keep to suit sliding gates.



PALISADE KEEPS

EXAMPLE CODE: KPG-BB-00

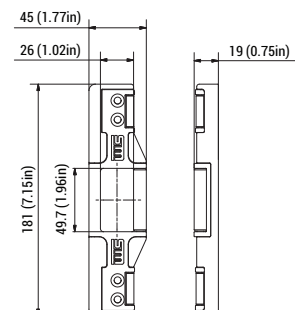
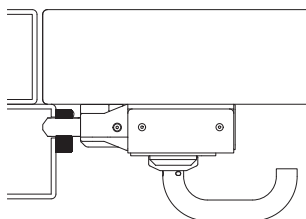
Stainless steel keep to suit inward & outward opening gates.



PURBROOK-GT KEEPS

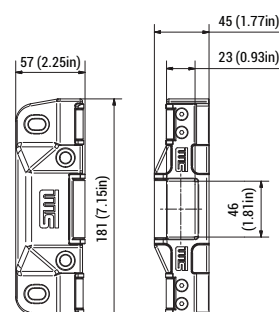
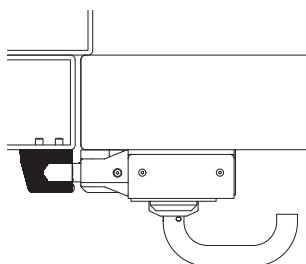
EXAMPLE CODE: KGT-OB-00

Stainless steel keep to suit outward opening gates.



EXAMPLE CODE: KGT-IB-00

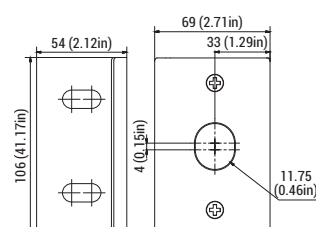
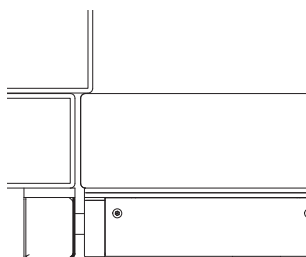
Stainless steel keep to suit inward opening gates.



SGL KEEPS

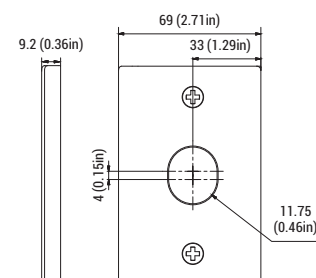
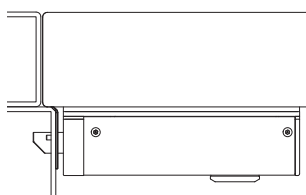
EXAMPLE CODE: KSG-IB-00

Stainless steel keep to suit inward opening gates.



EXAMPLE CODE: KSG-OB-00

Stainless steel keep to suit outward opening gates.



CONTINUOUS PROFESSIONAL DEVELOPMENT

As long standing leaders and innovators in the physical security sector, the Surelock McGill Group stand uniquely positioned to share our expertise with our customers and contacts across the industry. We run our training sessions with the goal of helping you and your staff understand when particular standards are relevant, how these standards are tested and certified, and ultimately allowing your designers, architects, and engineers to specify and order with confidence.

Our first series of webinars focusses on introducing Blast and Ballistic resistance standards, as well as exploring the potential conflicts between Physical Security and Life Safety.

An Introduction to Ballistic Protection Standards - Doorset

Join the Surelock McGill Group who will be hosting an insightful webinar, taking you through the world of ballistic standards. With many years' experience in designing and manufacturing solutions for ballistic protection, our technical team of expertise will provide further guidance on various International Ballistic Standards and what must be considered to be compliant when protecting buildings.



**Explore the world
of International
Ballistic Standards**



Securing the people
who secure the country



For more information on our upcoming webinars please visit www.surelockmcgillgroup.com where you will be able register your interest.

Life Safety vs Security – Examining the paradox of two conflicting requirements

This presentation, hosted by the Surelock McGill Group, will focus on some of the more prominent Life Safety and Security standards – giving an overview of how these standards are tested, where they are required, and examining whether two seemingly conflicting requirements can work in harmony.



An Introduction to Blast Resistance Standards

In this presentation, the team at the Surelock McGill Group will be exploring the world of explosives – how explosions differ, why they vary so greatly, and the real world implications of these differences. With this in mind, we will be looking at the standards associated with explosives, and how to design and specify to minimise threat to life and valuable assets.





**[Securing the people
who secure the country]**

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