

# **Robust Steel Doorsets**



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MON - FRI - 8.30AM - 5.30PM



## Product Guide 2019

**ROBUST**®

Steel Door Solutions

Scandinavian design. Manufactured in Britain

Robust by name.  
Robust by nature.

**Robust UK are the leading supplier of steel door solutions, offering a wide range of products to suit your purpose in both the Industrial and Commercial sectors.**

Our doors are ideally used for projects within the Transport, Education, Health, Housing, Industrial, Warehousing and Utilities markets; whether it's for a new build or a refurbishment project, Robust has you covered.

The 'Robust' nature of our products comes from our history as Scandinavian manufacturers of steel hinged doors. The harsh environments of Sweden required security, function and peace of mind - all of which Robust deliver on a daily basis. With over forty years of experience, we are leading the industry with our custom-made steel door solutions

Robust manufactures the whole product range on its UK site, delivering a consistent and satisfactory service to both the Industrial and Commercial sectors.

You always get more



### **10 YEAR ANTI-CORROSION WARRANTY**

Up to 10 years anti corrosion warranty on doors manufactured using Magnelis® steel\*

\*some door types not suitable for magnelis construction.



### **10-DAY TURNAROUND**

Standard specifications are available made to order in as little as 10 working days



### **HIGH QUALITY LOCKS AS STANDARD**

Locks are always fitted into a purpose made internal reinforcement box not hung from the fore end plate loose into the leaf



### **QUICK, HASSLE-FREE FITTING**

Fitting a Robust door is quick and easy thanks to adjustable fixing feet and variable sub-frames, always supplied as standard



### **DELIVERY TO SITES ACROSS THE UK**

We can deliver your doors to any site across the UK

# with a Robust door



## MADE-TO-MEASURE

All steel doors are made to order at our UK factory, are available in a wide range of heights and widths to suit any requirement, and are delivered fully assembled



## HARDWARE FITTED

Hardware is already fitted to the door in the factory saving time and effort on site



## FULL FITTING KITS SUPPLIED WITH EVERY DOOR

Kit includes a 12mm allen key to make frame adjustment easy and a selection of drills for fitting into concrete or steel



## SOME LITTLE EXTRAS

We supply a pot of touch-up paint with every door along with a tube of clear mastic for use during installation to prevent water ingress under the threshold



## INSTALLATION TRAINING AND SUPPORT

We can provide installation training to your fitters and assist onsite, if required



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GLAS-DOR

OUTA-DOR

INNA-DOR

TUFF-DOR

SECUR-DOR

LOUVRED

HARDWARE & FINISHES

## Notes

**NEW!**

# GLAS-DOR

**STEEL DOORS  
FOR THE  
REAL WORLD**



**FIRE RESISTANT**

Up to 120 mins

BS 1634-1 up to EI120



**ACOUSTIC REDUCTION**

Up to 55dB



**BALLISTIC RESISTANT**

BS EN 1522

FB3NS to FB7NS



**INTRUDER RESISTANT**

BS EN 1627

RC2 to RC5

Glazed fire resistant  
steel profile and  
doorsets

**ROBUST**

Steel Door Solutions

GLAS-DOR

OUTA-DOR

INNA-DOR

TUFF-DOR

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LOUVRED

HARDWARE  
& FINISHES

**GLAS-DOR**

## Glazed Steel Profile System

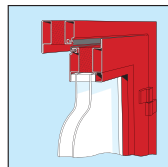
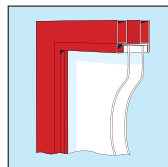


**ROBUST GLAS-DOR offers a fire rated fully glazed profile available in insulated and non-insulated profiles for glazed doors, sliding doors, partition walls and window sections. GLAS-DOR is now PAS 24 certified and Secured By Design approved\*.**

Ideal for use in offices, shopping centres, airports, hotels, hospitals, schools and similar public buildings. GLAS-DOR is manufactured in the UK and is available made to measure.

### > KEY FEATURES

- > Fire resistance up to 2 hours – BS EN 1634-1
- > Fire-resistant sliding doors up to 30 mins
- > Burglary and bullet resistance
- > Door leaf and frame profiles available 30, 50 and 85 mm
- > Narrow 20mm and wide profiles available: 85, 130, 180 or 260 mm
- > Finger trap gasket tested to BS476



### GLAZED WALL SECTIONS - UP TO 120 MINS FIRE RESISTANCE



\*Available Secured By Design in certain configurations. Speak to our sales team for more information.

> **FIRE RESISTANCE**

Up to 2 hours fire resistance

Robust fire resistant sections in steel have been tested in accordance with **BS476: Part 22: 1987** for wall sections up to 120 minutes integrity and insulation, doorsets up to 90 minutes integrity and 60 minutes insulation as well as double leaf sliding doors with top and side lights for 30 minutes integrity.

Door and wall sections make up the fire cell partitions in, for example, corridors, main passageways and stairwells used as evacuation routes in the event of a fire. The solid fire-resistant insulating core between the steel profiles effectively reduces heat transfer from the side of the door or wall exposed to the fire.

**GLAZED DOORSETS - 90 MINS FIRE RESISTANCE**



**GLAZED DOUBLE LEAF SLIDING DOORS - 30/30 MINS FIRE RESISTANCE**





## > COMBINED FIRE AND SECURITY RESISTANCE

GLAS-DOR system is type-approved for several fire-resistant classes in combination with burglary resistance, e.g. EI 60 and RC3. Fire resistance is provided in accordance with the applicable type approval certificate. Burglary-resistance classes RC3 and RC4 are in accordance with standard ENV 1627.

The type approval certificates mean that “labelled” sections can be used to comply with specific requirements for fire and burglary resistance with a transparent solution in stairwells, for instance. It is also possible to move exterior protection from an entrance and also comply with these requirements in stairwells, for example, that may separate various activities.

The profile depth can be adjusted to suit specific requirements, e.g. 65, 70 and 90 mm.

In addition to requirements for fire resistance, glass must also comply with requirements for burglary resistance as per EN 356 as well as fittings. Type-approved solutions include, among other things, multipoint locks (MPL).

## > UNIQUE FIRE-RESISTANT SLIDING DOOR SECTION

Robust has developed and tested a type-approved 30/30 fire resistant sliding door to BS476. The door is operated using Besam Unislide (including LD 550494). Max section dimensions are 10 x 3 m, and the max door leaf dimensions are 1250 mm. This provides a max. opening of 2210 mm for bi-parting sliding doors. Please refer to IFC Assessment Report.

Please note that door leaves in sliding doors must not pass over any vertical element, as there is a risk of damages. Sliding doors must not be installed along evacuation routes and if required an emergency exit door should be installed at the side.



## > SIZE AND CONFIGURATIONS

The systems can be adapted to suit requirements and are type approved, with features including finger trap gaskets. The systems have profiles adapted for modular locks (85 mm) as well as narrow (20 mm) and wide (130, 180 and 260 mm) profiles. These tested and approved systems also come in a wide variety of heights and widths. Wall sections up to 3.45m height and with a free edge have been tested as per EN 1364-1 to ensure compliance up to EI 120, and 4 metres height sections up to EI 60.

> **APPLICATIONS**

Robust GLAS-DOR profile systems are intended for use in glazed door and sliding door sections and wall and window sections in offices, shopping centres, airports, hotels, sports centres, banks, embassies, prisons, schools, and hospitals, etc.





# OUTA-DOR

## External Steel Doorsets

**STEEL DOORS  
FOR THE  
REAL WORLD**



**TEN YEAR  
GUARANTEE**

Our doors are manufactured in a range of materials offering strength and durability. Our OUTA-DOR external doors are manufactured using Magnelis® sheets and can offer an anti-corrosion warranty of up to 10 years with a standard PPC coating.\*



**MADE TO  
MEASURE**

All steel doors are made to order at our UK factory, are available in a wide range of heights and widths to suit any requirement, and are delivered fully assembled.



**CE marked to  
BS EN 14351-1**

**ROBUST**  
Steel Door Solutions

GLAS-DOR

OUTA-DOR

INNA-DOR

TUFF-DOR

SECUR-DOR

LOUVRED

HARDWARE  
& FINISHES

# OUTA-DOR

## External Steel Doors



**The 'OUTA-DOR' product leads the industry in steel doorsets; designed as a general purpose external door the OUTA-DOR is manufactured in the UK and is available made to measure in as little as 10 days from order.**

Recent investments in machinery have made the process of purchase and manufacture much quicker, meaning less of a wait for your product while maintaining the same level of quality-control and value for money.

### > DOOR LEAF

<b>Thickness:</b>	55mm
<b>Material:</b>	1.2mm corrosion resistant Magnelis® steel sheets as standard, with upgrade options of 1.5mm and 2.0mm sheets. Wide variety of colours and finishes available. Also 304 or 316 grade Stainless Steel.
<b>Infill:</b>	Self supporting resin-impregnated honeycomb core as standard. Optionally Mineral Wool, Polyurethane or Solid Timber.
<b>Construction:</b>	Doorblade manufactured from two 1.2mm sheets lockformed together, by bonding skins around a rigid core, using a no-weld construction.

### > THERMAL 'U' VALUES

Depending on construction and infill values of 3.2 - 1.6 w/m²k are obtainable.

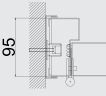

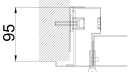
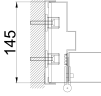
<b>Infill:</b>	<b>U Value (w/m²k)</b>
Honeycomb	3.1
Solid Timber	2.9
Mineral Wood (with steel strengtheners)	2.4
Mineral Wood (lamella)	1.8
Polyurethane	1.6



> **DOOR FRAME**

<b>Construction:</b>	Folded from 1.6mm Magnelis® with upgrade option to 2.0mm Screw and tab construction with 4no. adjustable fixing feet per jamb, variable sub frame supplied as standard to accommodate site tolerance of -0/+30mm. The frame is fitted with 4no. Dog-bolt hinges as standard.
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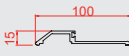
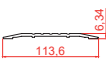
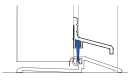



**Profile:** Types A & B available in both inward and outward opening versions.

<b>Standard</b>	<b>Optional</b>		
			
<b>TYPE C</b>	<b>TYPE A</b>	<b>TYPE B</b>	<b>TYPE D</b>

> **WALL CONSTRUCTION**

<b>Construction Types:</b>	Can be used in all forms of Masonry, Concrete and Flexible Stud Wall (cold wall style).
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> **THRESHOLD**

<b>Standard</b>	<b>Optional</b>				
					
15mm rebated threshold (DDA compliant)	5mm driveable (DDA compliant)	12.5mm 564A Aluminium Inward opening (DDA compliant)	Rain deflector	Drop seal	No threshold

> **SIZES**

<b>Sizing:</b>	Doors are custom manufactured in 10mm increments for single openings 690mm to 1290mm and double openings 1290mm to 2600mm, at heights up to 2900mm.
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**Contact the Sales office for special configurations and finishes.**

## > VISION PANELS

### Guidance notes:

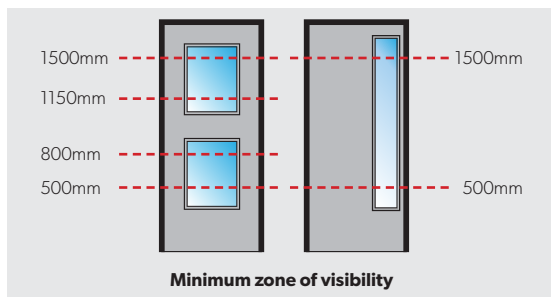
To comply with Part M of the Building Regulations 2004 doors circulation across routes should have visibility glazing.

### Construction:

Welded construction from 1mm cold rolled steel, screwed together from one side

### Options:

Double Glazed as standard. Alternative options include 6mm GWPP or a 19mm Double Glazed Unit (6.4/6/6.4 mm laminate). Custom sizes and glass are available to customer requirements



**Standard Vision Panels - max size 508x1524mm per leaf. Please contact Sales for other options.**

305 mm dia	457 mm dia	254x254 mm	254x559 mm	254x762 mm	254x1219 mm	254x762 254x559 mm Part M compliant	254x1524 mm Part M compliant	610x610 mm*	610x1219 mm*	









## > LOUVRE PANELS

<b>Construction:</b>	Standard Louvre offers 50% air flow with louvre blades constructed to stop birds. Frames are 1.2mm thick and blades 0.7mm.
<b>Options:</b>	Fly mesh available as an optional extra, also custom sizes.



457x1524mm



457x457mm  
top



457x457mm  
bottom



457x457mm  
twin

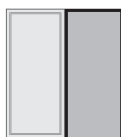


## > PANEL ARRANGEMENTS

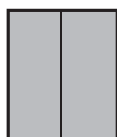
<b>Guidance notes:</b>	Panels can be solid, glazed or louvred
<b>Construction:</b>	Standard side panels are available up to 1290mm wide x 2900mm high. Standard over panels are available up to 1290 x 2900mm (single door) or 1290 x 2600mm (double door).
<b>Options:</b>	Hinged panels. Removeable, flush, glazed or louvred are all available. Please consult the Sales office with specific requirements.



Single  
Door



Single Door  
and Side Panel



Double Doors



Double Doors  
and Side Panel



Single Door  
and Over Panel



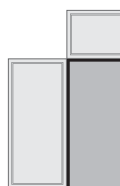
Double Doors  
and Over Panel



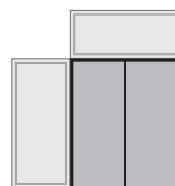
Single Door  
and 2 Side Panels



Double Doors  
and 2 Side Panels



Single Door with  
Side and Over Panels



Double Doors with  
Side and Over Panels

**FINISHES**

**> STANDARD COLOUR FINISHES**

All Robust doors are supplied with a choice of polyester powder coatings from our Standard PPC Colour Range (see chart on page 55)



**> OPTIONAL FINISHES**

We also offer a range of optional finishes to fit your exterior or interior application.



Polyester Powder Coated from Non-Standard Colour Range



PVC Laminate from Standard Range

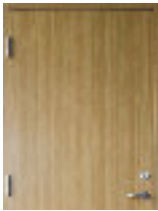


Stainless Steel Brushed, Polished or Patterned



Unfinished for site finishing

Woodgrain PVC Laminates



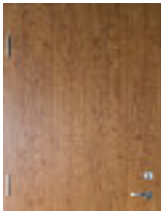
NORDIK OAK



ASH



MAHOGANY



MAGIC OAK



TEAK



CHERRY



VIRGIN WHITE



GOLDEN OAK

## LOCKS & HARDWARE

We stock a wide range of steel door parts, including: handles, locks, hinges, seals, panic hardware, closers & stays, cylinders, paint, thresholds, access control hardware, and plates.

### > MORTICE LOCKS AND LATCHES



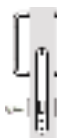
#### DEADLOCK ALT 1

DeadLock fitted with external cylinder pull, double cylinder and internal escutcheon. Standard for plant rooms.



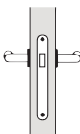
#### DEADLOCK ALT 2

Deadlock fitted with 19mm bolt through handle, and push plate to opposite side. Double cylinder with escutcheons as standard.



#### DEADLOCK ALT 3

Deadlock fitted with double 19mm bolt through handle. Double cylinder with escutcheons as standard.



#### LATCH

The standard latch fitting is with a pair of 19mm stainless steel levers, suitable for non-secure doors to provide privacy.



#### SASHLOCK

The standard fitting for sashlocks is with pair of 19mm stainless levers and a double cylinder deadbolt. Illustrated is optional thumbscrew on non-secure side.



#### TOILET LOCK

As the sash lock but the deadbolt is fitted with a privacy/indicator set instead of a cylinder.



#### NIGHTLATCH ALT 1

Suitable for automatic locking entrance doors, used manually or in conjunction with an electric strike. Illustrated optional cylinder pull.



#### NIGHTLATCH ALT 2

As Alt 1 but fitted with a pull handle. Doors fitted electric strikes provide key access for authorised persons as a manual override, whilst the internal handle gives escape at all times.



#### NIGHTLATCH WITH SNIB

The snib allows the locking latch to be secured within the lockcase giving free access. Doors with night latches are normally fitted with closers.



> **MORTICE MULTI-POINT LOCKING**



**3-POINT SASHLOCK**

This lock has a sashlock fitted centrally with top & bottom deadbolts. The cylinder operates all locks from the central point. Either a double or euro cylinder & turn can be fitted. An escape version is also available. Note this lock is only available on custom built doors.



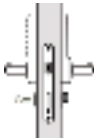
**DEADLOCK ALT 2**

Additional locks, usually deadlocks, can be fitted to standard doors to aid security. In the illustration are additional deadlocks & a sashlock, which can be fitted in either the upper or lower quarter, or both. The standard option is two locks, one fitted centrally and one in the lower quarter (it is more difficult to apply leverage to the upper half of a door when attacking it).

Additional locks can be fitted with panic bolts and latches to provide night time security, subject to Fire Regulations.

**Typically locks are Hooply Sashlock or Deadlock with Securefast Escutcheons.**

> **LOCKING: ACCESS CONTROL**



**MECHANICAL KEYPAD**

As standard this is provided with a latchbolt complete with a pair of stainless steel levers and a deadbolt for security, operated by a double cylinder. Illustrated is optional thumbscrew on non-secure side.



**ELECTRIC STRIKE**

As standard the door blade is fitted with a nightlatch complete with an external pull handle and internal half-lever. The lever allows manual egress from the inside (this can be replaced by a push button or a secure access system). A half-cylinder can be fitted to allow fail-safe override. The strike can be activated by the full range of secure access systems, eg. keypad, swipe card, etc. Available in 12 or 24vDC and with Fail Open (power to hold strike) or Fail Closed (power to open).



**ELECTRO-MAGNET LOCK, SURFACE MOUNTED**

Available in 12 or 24vDC the magnet can be activated by the range of security access systems, eg. keypad, swipe card, etc. It is fitted to the frame with a bolt through armature plate on the door blade. The magnet is locked when power is applied and automatically Fails Open when it is removed. The lock can be fitted to single or double doors.



**ELECTRO-MAGNET LOCK, CONCEALED MOUNTING**

The door is fitted with two mag-locks flush mounted into a special frame section, whilst the armature plates are recessed into the door blade. This arrangement is ideal for high traffic entrance doors to offices and flats, as it provides an esthetically pleasing door offering high security and resistance to attack or abuse. The lock can be fitted to single or double doors (on double doors only active leaf operation is allowed).

## > PANIC ESCAPE HARDWARE

Every new build or replacement panic and emergency exit application is required to comply with European safety legislation, the relevant standards are EN1125 & EN179 which replace BS5725:pt1:1981.

### EMERGENCY APPLICATION - EN 179

An emergency application where the exit door is in a low occupancy environment and will only be used by trained personnel, typically a workplace or somewhere not accessed by the public. Examples being offices, private flats and apartments, store rooms and boiler rooms. This application requires only a single point of contact, e.g. push pads.



#### RIM PANIC PAD

A surface mounted single point panic pad, suitable for light to medium security.



#### ESCAPE SASHLOCK

A mortice sashlock with cylinder and turn, ideal for doors combining access with escape and medium security. The door can be left unlocked for daytime latched access. An internal lever retracts latch and deadbolt allowing escape when the door is locked.



#### MORTICE PANIC PAD

Surface mounted panic pad with single point locking from a mortice night latch, for medium security. Self locking on closure. Shown with optional external cylinder and pull.



#### ESCAPE NIGHT LATCH

An internal lever handle retracts the latch bolt allowing escape, with the door re-locking on each closure. Can be fitted with external cylinder and pull handle.

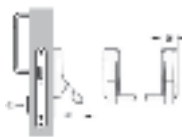
### PANIC APPLICATION - EN 1125

A panic application occurs where the exit door is used by the public and provides "safe & effective escape through the doorway with the minimum effort & without prior knowledge of operation", typically theatres, shops, schools, hospitals & cinemas. This applications require an operating device that covers the width of the door, e.g. crossbars or touchbars.



#### RIM PANIC LATCH

Surface mounted, single point rim panic latch.



#### MORTICE PANIC NIGHT LATCH

A mortice night latch operated by an internal crossbar, providing medium security. Can be fitted with external cylinder as shown, to give external access whilst still self locking.



#### TWO POINT PANIC BOLT

Surface mounted, two point bolting panic with a full width internal crossbar.



#### DOUBLE DOOR ESCAPE

The standard option for rebated double doors. The combination of panic latch on the active leaf and a bolt on the inactive one allows independent escape.



## OUTSIDE KEY ACCESS

Escape door furniture can be fitted with a number of options for access from outside. EN179 & EN1125 door furniture is primarily designed as a means of escape and even when fitted with outside access should not be used as the main access door.

For high frequency access the best results will be those based on mortice lockcases, such as escape sashlock or night latch, but they will be a compromise between ease of escape and practical durable access.



### SURFACE MOUNTED OUTSIDE KEY ACCESS WITH LEVER

Supplied as standard with a Euro single cylinder for use with panic latches, pads and bolts. Suitable for infrequent access and secondary to escape. When in the locked position the lever cannot be operated. When un-locked it will remain active until re-locked. Unit can be fitted with a knob in lieu of lever but will then not comply with the DDA Regs .



### ROUND RIM CYLINDER WITH CYLINDER PULL

A budget alternative to the above. The main functional difference is the door will re-secure each it is closed, a key being required to open it.



### EURO CYLINDER

The mortice locks in the panic range can be fitted with a Euro cylinder to provide outside key access.

**Single Euro Cylinder:** For use with Rim Panic Push Pad Night Latch and the Escape Night Latch. The door will always be secure as the key extracts the latches allowing egress but is re-secured every time it is locked.

**Double Euro or Euro Cylinder & Turn:** For use with the Escape Sashlock. Once opened the door remains unlocked for egress until re-locked.

## ACCESS CONTROLLED EXTERNAL ACCESS

The panic latch or panic pad can be fitted with a mechanical keypad to allow controlled access outside without the need for a key. The keypad does not interfere with the escape function of the inside panic unit but cannot be used with panic bolts.

Panic latches and pads are primarily designed as a means of escape and should not be used as high frequency access doors. Care should be taken when specifying this combination.



### MECHANICAL KEY PAD

The Mechanical Key Pad is a panic bar internally operating a mortice latch-bolt complete with a stainless steel lever externally controlled by a 5-digit key code.

## Notes

# INNA-DOR

## Internal Steel Doorsets



### FIRE DOORS

Available with  
60, 120 and 240 mins  
fire protection

TESTED TO  
BS 476 Parts 20 & 22  
BS EN 1634

GLAS-DOR

OUTA-DOR

INNA-DOR

TUFF-DOR

SECUR-DOR

LOUVRED

HARDWARE  
& FINISHES

**ROBUST**  
Steel Door Solutions



# INNA-DOR

## Fire Resistant Steel Doors



**Robust has successfully redesigned steel doors away from their original industrial roots to provide a highly cost-effective single solution offering an aesthetic design, durable construction and fire protection for up to 4 hours.**

The doors, fitted in internal and external applications in a wide variety of wall constructions, are designed to protect personnel & property from the spread of flames & smoke. Robust Doors offer substantial benefits over comparable timber doors in strength, durability & security. The range has been tested to BS 476 Parts 20 & 22, and BS EN 1634.

## Notes

[illegible]

> VERSIONS

We offer three versions – each providing increased fire protection (latched or unlatched):

INNA-DOR	INNA-DOR	INNA-DOR
60	120	240
UP TO 1 HR (60 mins)	UP TO 2 HRS (120 mins)	UP TO 4 HRS (240 mins)

> DOOR LEAF

**Production Sizes:**

NB: Sizes quoted may exceed manufacturing limitations.

All fire resistant doors are custom made. The maximum size varies according to fire rating as shown below for Mild Steel and 316 or 304 Stainless Steel.

**Single Doors Latched**

(Single Swing)

Max Width	mm	1370	1370	1370
Max Height	mm	2830	2830	2830
Max Area	m <sup>2</sup>	4.0	4.0	3.56

**Single Doors Unlatched**

(Single Swing)

Max Width	mm	1300	1300	1300
Max Height	mm	2500	2500	2500
Max Area	m <sup>2</sup>	2.96	2.96	2.96

**Double Doors**

(Single Swing - latched or unlatched, equal or unequally split)

Max Width	mm	2650	2650	2650
Max Height	mm	2830	2830	2830
Max Area	m <sup>2</sup>	4.0	4.0	3.56

**Thickness:**

54mm

**Material:**

1.2mm Corrosion resistant Magnelis® sheets as standard with a variety of colours and finishes available.

**Infill:**

Self support resin impregnated honeycomb core with option of mineral wool available for improved acoustic performance.

**Construction:**

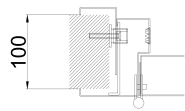
A non welded construction from 2 skins of Magnelis® folded around a rigid core. Stainless steel 240minute fire rated doors must be fitted with a 'Z' and astragal section to form a rebated meeting stile.

## > DOOR FRAME

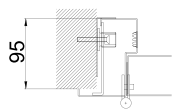
### Construction:

Folded from 1.5mm Magnelis®.  
Screw and tab construction with 4 no adjustable fixing feet per jamb.  
Variable sub frame supplied as standard to accommodate site tolerance of -0/+30mm.  
Frame is fitted with 3 no class 13 hinges with 2 no dog bolts

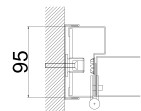
### Profile:



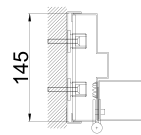
TYPE A



TYPE B



TYPE C



TYPE D

Types A & B available in both inward and outward opening versions.

## > WALL CONSTRUCTION

### Construction Types:

All Robust Fire Doors (INNA-DOR 60, 120 & 240) can be used in all forms of Masonry, Concrete and Flexible Stud Wall (cold wall style). When using Timber or Steel Stud Walls the client must ensure they have adequate evidence that the wall can support steel fire doors under fire conditions. 120 & 240 rated Stud Wall constructions should have the walls' reveal face protected by a fire resting board to protect the wall construction.

## > THRESHOLD

**Standard**

15mm aluminium (DDA compliant)

5mm aluminium driveable (DDA compliant)

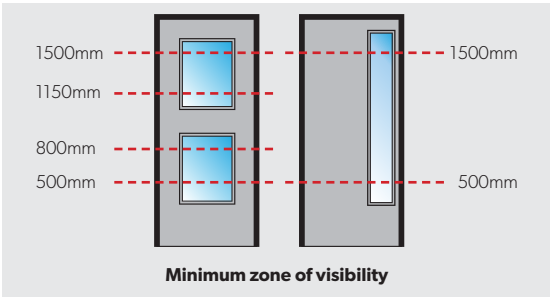
No threshold

**Optional**

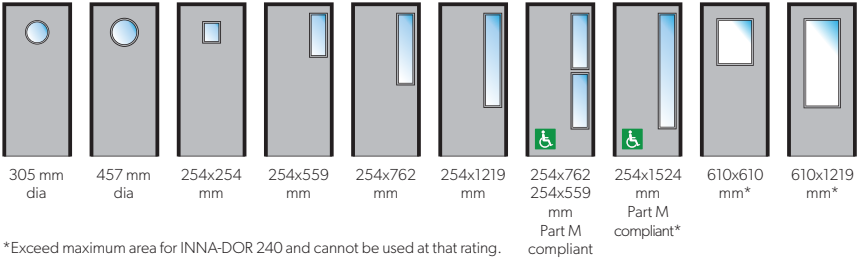
15mm steel pressed rebated threshold

## Notes

> **VISION PANELS**



**Standard Vision Panels - max size 508x1524mm per leaf. Please contact Sales for other options.**



		<b>INNA-DOR 60</b>		<b>INNA-DOR 120</b>		<b>INNA-DOR 240</b>	
<b>Permitted panel sizes:</b>		<b>SSS</b>	<b>M</b>	<b>SSS</b>	<b>M</b>	<b>SSS</b>	<b>M</b>
<b>SSS = Standard Stainless Steel</b> <b>M = Magnelis®</b>	Max Width mm	396	610	396	610	214	214
	Max Height mm	1631	1854	1631	1854	1483	1483
	Max Area m²	0.35	0.8	0.35	0.8	0.32	0.32
<b>Standard glazings available:</b> Other configurations and sizes available – please contact the Sales Office.		8mm Firelite Safety*		8mm Firelite Safety*		8mm Firelite Safety*	






> LOUVRE PANELS

Construction:

Consists of an intumescent block grille only 14mm thick within the door leaf and an FDLS two-part steel louvre set which fixes to both sides of the door and sandwiches the FB intumescent block. 18g Galvanised steel frame louvre blades. (Stainless steel Grade 304 and Grade 316 available to order.)

Applications:

Designed to be used on fire rated doors fitted to rooms that require ventilation. A standard louvre will allow ventilation but will also allow the passage of flames and smoke, but a Fire Block Louvre System will maintain the integrity of fire doors and prevent the spread of flames. Examples are doors to plant rooms, stores, computer rooms, changing facilities and manufacturing areas. In fact, any area that requires ventilation but is protected by a fire rated door.

			INNA-DOR 60	INNA-DOR 120	INNA-DOR 240
Permitted panel sizes:	Max Width	mm	610	610	610
	Max Height	mm	610	610	610
	Max Area	m <sup>2</sup>	0.4	0.4	0.35
Allowed panels by relevant British Standard:	 457 x 457 mm lower		BS 476 BS EN1634	BS 476 BS EN1634	BS 476 BS EN1634
	 457 x 457 mm upper		BS 476	BS 476	BS 476
	 457 x 457 mm upper and lower		BS 476	BS 476	
	 610 x 610 mm lower		BS 476 BS EN1634	BS 476 BS EN1634	BS EN1634
	 610 x 610mm upper		BS 476	BS 476	

> SIDE AND OVER PANEL ARRANGEMENTS

Construction:

Panels can be solid, glazed or louvred.

Applications:

Hinged panels, flush or glazed. Other glazing arrangements can be fitted subject to satisfactory evidence of testing in a steel door. Please consult the Sales office with specific requirements

Solid permitted overpanel sizes (fixed and hinged):	Max Height	mm	2000	2000	2000
	Removable Transom		Yes	Yes	Yes
Permitted sidepanel sizes:	Max Width	mm	1300	1300	1300
	Max Height	mm	2830	2830	2830
Permitted glazed overpanel and sidepanel sizes:					
6mm Vetroflam/6mm Spacer /6mm Vetroflam:	Max Height	mm	2000	2000	
	Max Area	m <sup>2</sup>	4.08	3.53	
8mm Firelite Safety:	Max Height	mm	2060	2060	2060
	Max Area	m <sup>2</sup>	2.88	2.88	2.88

FINISHES

> STANDARD COLOUR FINISHES

All Robust doors are supplied with a choice of polyester powder coatings from our Standard PPC Colour Range (see chart on page 55)



> OPTIONAL FINISHES

We also offer a range of optional finishes to fit your exterior or interior application.



Polyester Powder Coated from Non-Standard Colour Range



PVC Laminate from Standard Range



Stainless Steel Brushed, Polished or Patterned



Unfinished for site finishing

Woodgrain PVC Laminates



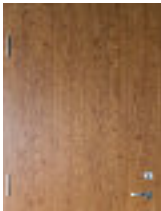
NORDIK OAK



ASH



MAHOGANY



MAGIC OAK



TEAK



CHERRY



VIRGIN WHITE



GOLDEN OAK

## LOCKS & HARDWARE

We stock a wide range of steel door parts, including: handles, locks, hinges, seals, panic hardware, closers & stays, cylinders, paint, thresholds, access control hardware, and plates.

### > MORTICE LOCKS AND LATCHES



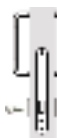
#### DEADLOCK ALT 1

DeadLock fitted with external cylinder pull, double cylinder and internal escutcheon. Standard for plant rooms.



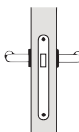
#### DEADLOCK ALT 2

Deadlock fitted with 19mm bolt through handle, and push plate to opposite side. Double cylinder with escutcheons as standard.



#### DEADLOCK ALT 3

Deadlock fitted with double 19mm bolt through handle. Double cylinder with escutcheons as standard.



#### LATCH

The standard latch fitting is with a pair of 19mm stainless steel levers, suitable for non-secure doors to provide privacy.



#### SASHLOCK

The standard fitting for sashlocks is with pair of 19mm stainless levers and a double cylinder deadbolt. Illustrated is optional thumbscrew on non-secure side.



#### TOILET LOCK

As the sash lock but the deadbolt is fitted with a privacy/indicator set instead of a cylinder.



#### NIGHTLATCH ALT 1

Suitable for automatic locking entrance doors, used manually or in conjunction with an electric strike. Illustrated optional cylinder pull.



#### NIGHTLATCH ALT 2

As Alt 1 but fitted with a pull handle. Doors fitted electric strikes provide key access for authorised persons as a manual override, whilst the internal handle gives escape at all times.



#### NIGHTLATCH WITH SNIB

The snib allows the locking latch to be secured within the lockcase giving free access. Doors with night latches are normally fitted with closers.



> **MORTICE MULTI-POINT LOCKING**



**3-POINT SASHLOCK**

This lock has a sashlock fitted centrally with top & bottom deadbolts. The cylinder operates all locks from the central point. Either a double or euro cylinder & turn can be fitted. An escape version is also available. Note this lock is only available on custom built doors.



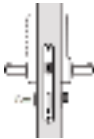
**DEADLOCK ALT 2**

Additional locks, usually deadlocks, can be fitted to standard doors to aid security. In the illustration are additional deadlocks & a sashlock, which can be fitted in either the upper or lower quarter, or both. The standard option is two locks, one fitted centrally and one in the lower quarter (it is more difficult to apply leverage to the upper half of a door when attacking it).

Additional locks can be fitted with panic bolts and latches to provide night time security, subject to Fire Regulations.

**Typically locks are Hooply Sashlock or Deadlock with Securefast Escutcheons.**

> **LOCKING: ACCESS CONTROL**



**MECHANICAL KEYPAD**

As standard this is provided with a latchbolt complete with a pair of stainless steel levers and a deadbolt for security, operated by a double cylinder. Illustrated is optional thumbscrew on non-secure side.



**ELECTRIC STRIKE**

As standard the door blade is fitted with a nightlatch complete with an external pull handle and internal half-lever. The lever allows manual egress from the inside (this can be replaced by a push button or a secure access system). A half-cylinder can be fitted to allow fail-safe override. The strike can be activated by the full range of secure access systems, eg. keypad, swipe card, etc. Available in 12 or 24vDC and with Fail Open (power to hold strike) or Fail Closed (power to open).



**ELECTRO-MAGNET LOCK, SURFACE MOUNTED**

Available in 12 or 24vDC the magnet can be activated by the range of security access systems, eg. keypad, swipe card, etc. It is fitted to the frame with a bolt through armature plate on the door blade. The magnet is locked when power is applied and automatically Fails Open when it is removed. The lock can be fitted to single or double doors.



**ELECTRO-MAGNET LOCK, CONCEALED MOUNTING**

The door is fitted with two mag-locks flush mounted into a special frame section, whilst the armature plates are recessed into the door blade. This arrangement is ideal for high traffic entrance doors to offices and flats, as it provides an esthetically pleasing door offering high security and resistance to attack or abuse. The lock can be fitted to single or double doors (on double doors only active leaf operation is allowed).



## Notes

# TUFF-DOR

## LPS 1175 Certified Security Doors

### **TUFF-DOR2**

TESTED TO  
LPS 1175 SR2

### **TUFF-DOR3**

TESTED TO  
LPS 1175 SR3

### **TUFF-DOR4**

TESTED TO  
LPS 1175 SR4

GLAS-DOR

OUTA-DOR

INNA-DOR

TUFF-DOR

SECUR-DOR

LOUVRED

HARDWARE  
& FINISHES

LPS 1175 Cert/LPCB ref. 1070A

## **ROBUST**

Steel Door Solutions

# TUFF-DOR

## LPS 1175 Certified Steel Security Doors



LPS 1175 Cert/LPCB ref. 1070A



**The Robust TUFF-DOR is a fully certified LPS 1175 security doorset designed to offer an enhanced level of security for a wide range of premises, from domestic or light commercial premises through to those at high risk of attack by experienced intruders.**

The doors are specially constructed to individual project requirements and each door has internal reinforcement designed to resist sustained attack from a wide range of tools. TUFF-DOR is approved by Secure by Design.

### > VERSIONS

We offer three versions – each providing increased security:

#### **TUFF-DOR2**

Tested to  
**LPS 1175 SR2**

Up to **3 minutes** of resistance to opportunist attempts at forced entry of protected premises using a range of mechanical tools including: screwdriver, levers, spanner, bolt cutters, claw hammer, drill, shears, etc.

#### **TUFF-DOR3**

Tested to  
**LPS 1175 SR3**

Up to **5 minutes** of resistance to determined attempts at forced entry of protected premises using a wide range of tools including: cordless tools, short axe, cold chisels, crow bar, brick bolsters, gas torch, etc.

#### **TUFF-DOR4**

Tested to  
**LPS 1175 SR4**

Up to **10 minutes** of resistance to experienced attempts at forced entry using a wide range of tools including: high powered cordless tools, felling axe, sledgehammer, power drill, disc grinder, jigsaw, etc.

### > LOCKS AND HARDWARE

ROBUST TUFF-DOR is tested with a wide range of hardware offering both personnel and fire escape functionality. Fire escapes can be fitted with hardware compliant with BS EN 1125 or BS EN179.

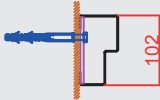
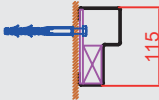
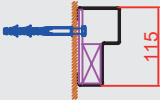
TUFF-DOR is regularly tested to update available hardware. A list of tested hardware can be found at <http://www.redbooklive.com/search/companylist.jsp?companyid=1783>

> DOOR LEAF

**TUFF-DOR2**   **TUFF-DOR3**   **TUFF-DOR4**

Production Sizes:			All TUFF-DOR doors are custom made.		
Single Doors Latched:	Max Width	mm	1250	1300	1300
	Max Height	mm	2600	2500	2500
Double Doors:	Max Width	mm	2500	2500	2500
	Max Height	mm	2600	2500	2500
Thickness:		mm	46	59	61
Material:			Aluzinc	Aluzinc	Aluzinc
Infill:			Honeycomb/ Mineral Wool	Solid Timber	Solid Timber
Construction:			Welded	Welded	Welded
All TUFF-DORs contain additional internal reinforcement in strategic locations to enhance attack resistance.					

> DOOR FRAME

Frame width:	mm	102	115	115
Material:		Aluzinc	Aluzinc	Aluzinc
Construction:		Bolted	Welded	Welded
Profile:				

> SITE INSTALLATION

Strike:	mm	4	3	3
Hinge:	mm	4	13	13
Meeting Stile:	mm	5	5	5
Head:	mm	3	3	3
Floor:	mm	7	5	5

NOTE: For the doors to operate correctly it is imperative that the clearance at both the strike side on single doorsets and meeting stile on double doors is achieved and maintained as detailed in the table overleaf.

## > MANUAL HANDLING

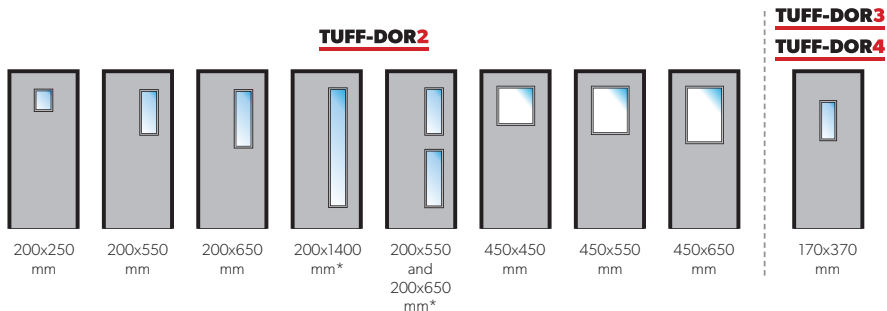
While the TUFF-DOR2 leaves, weighing approx 100kg, can be manually handled with a minimum of 4 operatives on site, all other doors in the range require mechanical means to distribute and install.

## > WALL CONSTRUCTION

The opening must be fully formed from a material with sufficient composition strength to withstand a minimum load/fixing of  $7\text{N/nm}^2$  (such as concrete or brick). Aerated concrete is NOT RECOMMENDED and hollow brick / block should only be considered if suitably backfilled with materials that will provide adequate strength ( $7\text{N/nm}^2$ ) to take the frame fixings.

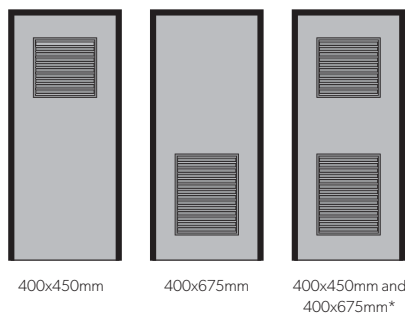
## > VISION PANELS

A limited range of vision panel and louvre options are available in tested configurations



## > LOUVRES AND GRILLS

All louvre and grill options can be used with double door sets.



\*Not permitted with panic hardware



# FINISHES

## > STANDARD COLOUR FINISHES

All Robust doors are supplied with a choice of polyester powder coatings from our Standard PPC Colour Range (see chart on page 55)



## > OPTIONAL FINISHES

We also offer a range of optional finishes to fit your exterior or interior application.



Polyester Powder Coated from Non-Standard Colour Range



PVC Laminate from Standard Range



Stainless Steel Brushed, Polished or Patterned



Unfinished for site finishing



## Notes

# SECUR-DOR

Certified Intruder  
and Blast Resistant  
Security Doors



## INTRUDER RESISTANT

TESTED TO  
BS EN 1627:2011

CERTIFIED BY  
Warrington Exova  
Certisecure STS 202  
PAS 24



## EXPLOSIVE RESISTANT

(SECUR-DOR SD4)  
BS EN 13124-2:2004  
EXR2

# ROBUST

Steel Door Solutions



# SECUR-DOR

## Certified Steel Security Doors



**Robust Security Doors** been tested to and passed **Warrington Exova Certisecure STS 202 and PAS 24 standards** and are included in the **‘Secured by Design’ scheme; the official UK Police initiative to ‘design out crime’.**

Our Security Doors have also been tested to and passed **BS EN 1627:2011** and **European Security Standard DD ENV 1627:1999.**

**certisecure**



### > VERSIONS

We offer three versions – each providing increased security (latched or unlatched):

#### **SECUR-DOR2**

##### **Security Door**

Tested to  
**STS202 BR2  
& PAS24**

protect low to medium risk properties from determined opportunist attempts at forced entry using a variety of hand tools. They are particularly suitable as apartment doors for residential and social housing.

#### **SECUR-DOR3**

##### **Security Door**

Tested to  
**STS202 BR3**

Protect medium risk residential or commercial properties from attempts at forced entry, with little regard for noise, using heavy hand tools.

#### **SECUR-DOR4**

##### **Security and Blast Door**

Tested to  
**ENV 1627 Level 4**

Protect medium to high risk properties from experienced attempts at forced entry, regardless of noise, using heavy hand and battery tools or explosives.

> DOOR LEAF

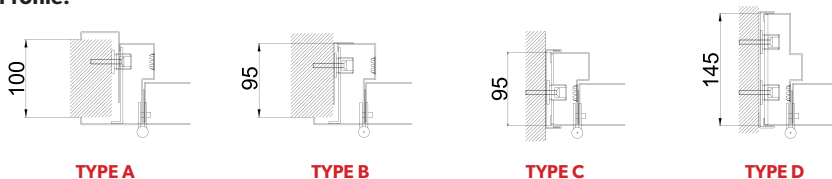
**SECUR-DOR2** : **SECUR-DOR3** : **SECUR-DOR4**

Production Sizes:			All SECUR-DOR doors are custom made. The maximum size varies as shown below for Mild Steel and 316 or 304 Stainless Steel.		
Single Doors Latched (Single Swing)	Max Width	mm	1300	1300	1250
	Max Height	mm	2800	2800	2800
Double Doors (Single Swing - equal or unequally split)	Max Width	mm	2700	2700	2600
	Max Height	mm	2800	2800	2800
Thickness:		mm	55	55	48
Material:			1.5mm corrosion resistant Zintec/ Aluzinc sheets as standard	2mm corrosion resistant Zintec/ Aluzinc sheets as standard	1.5mm corrosion resistant Zintec/ Aluzinc sheets as standard
Infill:			Filled with mineral wool and integral steel stiffeners.	Filled with mineral wool and integral steel stiffeners.	Solid timber cored with internal stainless steel anti-attack skin
Construction:			Doorblade manufactured from two 1.5mm sheets lockformed together, by bonding two steel skins around a rigid core. A total steel armour thickness of 3 - 4mm.	Doorblade manufactured from two 2mm sheets lockformed together, by bonding two steel skins around a rigid core. A total steel armour thickness of 4mm. Fitted with anti-tamper hinges.	Doorblade manufactured from two 1.5mm sheets lockformed together, by bonding two steel skins around a rigid core. Additionally fitted with a 1.5mm stainless steel sheet to the internal face of the outer skin and a solid timber core. Fitted with a full length continuous hinge. A total steel armour thickness of 4.5mm. Fitted with integral lock box.

## > DOOR FRAME

Construction:	<b>SECUR-DOR2</b>	<b>SECUR-DOR3</b>	<b>SECUR-DOR4</b>
<b>Material:</b>	Folded and welded from 1.6mm Zintec/Aluzinc.	Folded and welded from 2mm Zintec/Aluzinc.	Folded and welded from 3mm Zintec/Aluzinc.
<b>Sub-Frame:</b>	Fully welded, variable sub-frame supplied as standard to accommodate site tolerance of -0/+30mm. The sub-frame providing additional protection to the fixings against jemmys.	Folded and welded from 2mm Zintec/Aluzinc. Fully welded, variable sub-frame supplied as standard to accommodate site tolerance of -0/+30mm. Complete with Anti-Crush plate. The sub-frame providing additional protection to the fixings against jemmys.	Specially modified, variable sub-frame supplied as standard to accommodate site tolerance of -0/+30mm. The sub-frame providing additional protection to the fixings against jemmys.
<b>Fixings:</b>	Four specially modified Class 13 stainless steel hinges with four security dog bolts for security.	Four Class 13 stainless steel dog bolt hinges recessed and specially modified to prevent pin extraction. Plus two solid ball round dog bolts to increase resistance to prising.	Stainless steel dog bolted continuous hinges for additional security.
<b>Infill:</b>	Mineral wool	Mineral wool	
	A, B, C	A, B, C, D	C, D

### Profile:



## > THRESHOLD

	<b>SECUR-DOR2</b>	<b>SECUR-DOR3</b>	<b>SECUR-DOR4</b>
<b>Standard: 15mm rebated (DDA compliant)</b>		✓	✓
<b>Optional: 5mm driveable (DDA compliant)</b>		✓	✗

> **VISION PANELS**

Only available on **SECUR-DOR2**

<b>Permitted panel sizes:</b>	Max Width	mm	610
	Max Height	mm	1854
	Max Area	m <sup>2</sup>	0.4
<b>Standard glazings available:</b> Other configurations and sizes available – please contact the Sales Office.			11.5mm laminated (wired or clear)



254x254mm



254x559mm

> **SECURE LOCKING**

**SECUR-DOR2**

**PAS 24**

Fitted with high security Deadlock or Sashlock (c/w lever handles or pull handle) & double europrofile cylinder and fitted with TS007 security escutcheons.

**STS202 (BR2)**

Fitted with a minimum of two high security locks;

1 no Securefast C EN grade 7 security sashlock and lever handle, (SA 222 50SS R/7) double europrofile cylinder and fitted with TS007 security escutcheons fitted to the centre door position

1 no Securefast C EN grade 7 security deadlock, (SA21250 SS R/7) double europrofile cylinder and fitted with TS007 security escutcheons fitted to the lower quarter of the door leaf.

**Fire Escape Doors**

Alternatively the doors can be fitted with 3 point heavy duty panic escape hardware to offer means of escape, which is accepted by the Secure by Design scheme.

Fire Escape Doors are fitted with a 1.2mm internal skin to resist drill attack.

Note: Taller doors may require a third, additional, lock.

**SECUR-DOR3**

3 no individual high security locks for enhanced security

High Security triple point high security sashlock, Securefast, with High Security cylinders and anti-jemmy escutcheon protecting against snapping attack. Lock is anti-drill and pattern protected to reduce the risk of key copying. Doors are fitted with Exidor tower bolts.

Alternatively doors can be fitted with three point heavy duty Panic Hardware for Fire Escape but must be fitted with a Locking Box to prevent Drill Attack.

Double doors are fitted with heavy duty tower bolts to inactive leaf.

**SECUR-DOR4**

A centre High Security Sashlock combined with two similar Deadlocks in the upper and lower quarters of the door. All locks fitted with anti-jemmy escutcheon and welded shroud. Locks are anti-drill and pattern protected to reduce risk of key copying. MICO TINDALL and Surelock McGill hardware can also be used. Doors are fitted with Exidor tower bolts.

Alternatively high security multi-point heavy duty panic hardware for fire escapes.

Double doors are fitted with heavy duty tower bolts to inactive leaf.

## SECUR-DOR2

## SECUR-DOR3

## SECUR-DOR4

### > THERMAL VALUES

Obtainable thermal values with infill as detailed:

2.4 w/m²k

2.6 w/m²k

2.9 w/m²k

### > APPLICATIONS

Light commercial and perimeter security.

Protection from a determined attack, with some preparation and a number of tools where the attacker is willing to make some, but not prolonged, noise.

**Note:** All duty recommendations assume the doors are used in conjunction with other comparable levels of security at windows, etc.

The SD2 door can offer up to 120min. fire rating if fitted with appropriate ironmongery.

Medium risk residential and commercial properties which may be obscured from view.

Protection from a deliberate forced entry of a well protected property using a wide variety of tools with little regard for noise.

**Note:** All duty recommendations assume the doors are used in conjunction with other comparable levels of security at windows etc.

The SD3 door can offer 120min. fire rating if fitted with appropriate ironmongery.

Heavy duty and vulnerable properties, probably with a prior record of attempts at forced entry.

Protection from experienced attempts at forced entry of commercial properties with no regard for noise.

Further the door is suitable for protection against attempted entry by explosive blasts.

**Note:** All duty recommendations assume the doors are used in conjunction with other comparable levels of security at windows, etc.

### > SECURITY TESTING

These doors achieve a pass to the following: **PAS24** and **STS202 (BR2)**. Both of which are accepted by Secure by Design.

**BS EN 1627 RC2**

Tests involve a determined attack over a period of 15mins. using tools including screwdriver, 300mm. lever, and hammer. When fitted with Vision Panels the door can only be offered to PAS24 rating.

The SD2 holds Secure by Design certification.

These doors achieve a pass to the following: **STS202 (BR3)** which is accepted by Secure by Design. **BS EN 1627 RC3**

Tests involve a determined attack over a period of 20mins. using tools including hand hammer, hand drill, and crowbar.

Tested to **BS EN 1627 RC4** The test involves a determined attack over a period of 30mins. using a selection of hand and battery tools including club hammer, cordless drill, cold chisel and axe.

### > BLAST TESTING

N/A

N/A

SD4 doors have been tested and passed **EXR2 of BS EN 13124-2**, Explosion Resistance standard, with explosive blasts using plastic explosives.



## Notes

# LOUVRED DOORS

**STEEL DOORS  
FOR THE  
REAL WORLD**



**TEN YEAR  
GUARANTEE**

Our doors are manufactured in a range of materials offering strength and durability. Our external doors are manufactured using magnelis sheets and can offer an anti-corrosion warranty of up to 10 years with a standard PPC coating.\*



**MADE TO  
MEASURE**

All steel doors are made to order at our UK factory, are available in a wide range of heights and widths to suit any requirement, and are delivered fully assembled.



**CE marked to  
BS EN 14351-1**

**ROBUST**   
Steel Door Solutions

GLAS-DOR

OUTA-DOR

INNA-DOR

TUFF-DOR

SECUR-DOR

LOUVRED

ARDWARE  
& FINISHES



# LOUVRED DOORS

## Steel and aluminium doors for ventilation



**ROBUST manufacture a range of louvred doorsets including fully louvred options in steel or aluminium and louvred panels for inserting into our OUTA-DOR or INNA-DOR range.**

Our fully louvred doors are suitable for plant rooms, boiler rooms, etc. where continuous airflow is required to ventilate machinery, etc.

### Steel Louvred Doors

Louvred doors are used to ventilate plant areas but also to offer protection against machinery otherwise open to potential vandalism. Robust Louvred Steel Doors are stronger than traditional lightweight aluminium louvres and can be used with side and overpanels. In addition to this, we can also produce louvred screens and enclosures.

Another application for our louvred doors is in refuse areas, allowing air to circulate in from the bottom and allowing foul odours and potential dangerous fumes to escape.



### Aluminium Louvres

As an option Robust can also supply doors with leaves formed from extruded aluminium louvres in a 114mm single rebate frame. These doors are available in single or double configurations and can also be supplied with matching overpanels and side panels. In addition the aluminium louvres can be provided as screen sections for plant enclosures etc. All louvres are available in a choice of PPC colours from standard range.

> DOOR LEAF

Thickness:	55mm
Material:	2mm corrosion resistant Zintec/Aluzinc as standard, wide variety of colours and finishes available. Also Stainless Steel.
Construction:	Doorblade manufactured from 2mm steel. The louvre blades are inclined at 45° and mounted at 50mm centres within a 50mm deep angle frame, which is mounted on a box section sub-frame for rigidity. A galvanised bird and vermin mesh can be supplied.



> DOOR FRAME

Construction:	Folded from 1.6mm Zintec/Aluzinc. Screw and tab construction with 4no. adjustable fixing feet per jamb, variable subframe supplied as standard to accommodate site tolerance of -0/+30mm. The frame is fitted with 3no. Class 13 stainless steel hinges with 2no. security dog bolts.
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**Profile:** Types A & B available in both inward and outward opening versions.

Standard

TYPE C

Optional

TYPE A

TYPE B

TYPE D

> THRESHOLD

15mm aluminium driveable (DDA compliant)

Standard

5mm aluminium driveable (DDA compliant)

No threshold

Optional

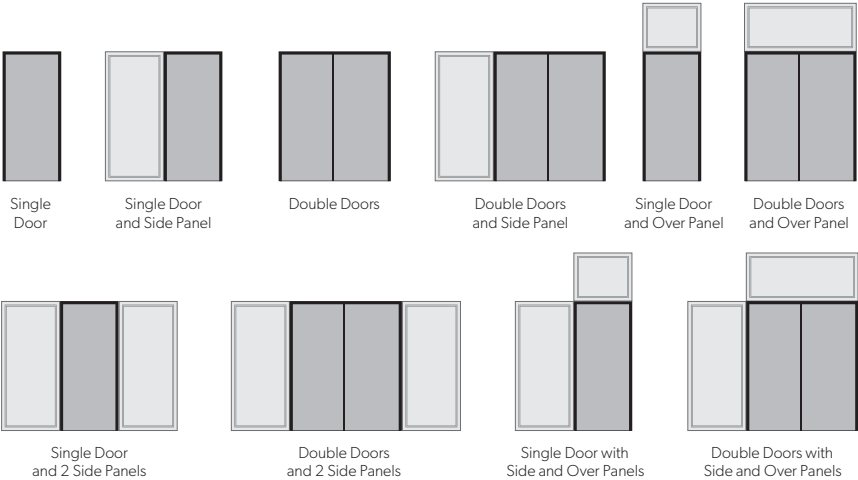
15mm steel pressed rebated threshold

> **SIZES**

<b>Sizing:</b>	Doors are custom manufactured in 10mm increments for single openings 690mm to 1100mm and double openings 1290mm to 2300mm, at heights up to 2500mm. Over these sizes fully louvred performance can be achieved by custom design. <b>Contact the Sales office for special configurations and finishes.</b>
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> **PANEL ARRANGEMENTS**

<b>Construction:</b>	Side and over panels can be supplied.
<b>Construction:</b>	Side panels are available up to 1100mm wide x 2500mm high. Over panels are available up to 2500mm (single door) or 2200mm (double door).
<b>Options:</b>	Hinged or removeable panels are available. Also combinations to create enclosures. Please consult the Sales office with specific requirements.



# TUFF-VENT

Our TUFF-VENT doorset offers the maximum free airflow whilst maintaining strength and security. A standard 2mm galvanised steel louvre vane is used throughout, welded at every junction for additional strength. Side panels and overpanels can also be manufactured to make up large openings where large doors may be impractical.



When calculated on a 1000mm x 2100mm over frame door, the Robust TUFF-VENT achieves a free area of 55% (based on the area of the louvres only, this equates to 72%). Robust TUFF-VENT doors are fully CE compliant and can be polyester powder coated in a standard range of colours.

\*Please note our TUFF-VENT doors are tested to PAS 24 but are not available certified to LPS1175. They are approved by Secured By Design - the Official Police Security Initiative.



# HARDWARE

**We stock a wide range of steel door parts, including: handles, locks, hinges, seals, panic hardware, closers & stays, cylinders, paint, thresholds, access control hardware, and plates.**

We have tried to include our most commonly requested parts and to make it quick and easy to order parts via our online store located at **[www.robust-hardware.com](http://www.robust-hardware.com)**.



## > MORTICE LOCKS AND LATCHES



### DEADLOCK ALT 1

DeadLock fitted with external cylinder pull, double cylinder and internal escutcheon. Standard for plant rooms.



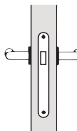
### DEADLOCK ALT 2

Deadlock fitted with 19mm bolt through handle, and push plate to opposite side. Double cylinder with escutcheons as standard.



### DEADLOCK ALT 3

Deadlock fitted with double 19mm bolt through handle. Double cylinder with escutcheons as standard.



### LATCH

The standard latch fitting is with a pair of 19mm stainless steel levers, suitable for non-secure doors to provide privacy.



### SASHLOCK

The standard fitting for sashlocks is with pair of 19mm stainless levers and a double cylinder deadbolt. Illustrated is optional thumbscrew on non-secure side.



### TOILET LOCK

As the sash lock but the deadbolt is fitted with a privacy/indicator set instead of a cylinder.



### NIGHTLATCH ALT 1

Suitable for automatic locking entrance doors, used manually or in conjunction with an electric strike. Illustrated optional cylinder pull.



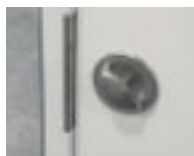
### NIGHTLATCH ALT 2

As Alt 1 but fitted with a pull handle. Doors fitted electric strikes provide key access for authorised persons as a manual override, whilst the internal handle gives escape at all times.



### NIGHTLATCH WITH SNIB

The snib allows the locking latch to be secured within the lockcase giving free access. Doors with night latches are normally fitted with closers.



> **MORTICE MULTI-POINT LOCKING**



**3-POINT SASHLOCK**

This lock has a sashlock fitted centrally with top & bottom deadbolts. The cylinder operates all locks from the central point. Either a double or euro cylinder & turn can be fitted. An escape version is also available. Note this lock is only available on custom built doors.



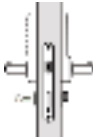
**DEADLOCK ALT 2**

Additional locks, usually deadlocks, can be fitted to standard doors to aid security. In the illustration are additional deadlocks & a sashlock, which can be fitted in either the upper or lower quarter, or both. The standard option is two locks, one fitted centrally and one in the lower quarter (it is more difficult to apply leverage to the upper half of a door when attacking it).

Additional locks can be fitted with panic bolts and latches to provide night time security, subject to Fire Regulations.

**Typically locks are Hooply Sashlock or Deadlock with Securefast Escutcheons.**

> **LOCKING: ACCESS CONTROL**



**MECHANICAL KEYPAD**

As standard this is provided with a latchbolt complete with a pair of stainless steel levers and a deadbolt for security, operated by a double cylinder. Illustrated is optional thumbscrew on non-secure side.



**ELECTRIC STRIKE**

As standard the door blade is fitted with a nightlatch complete with an external pull handle and internal half-lever. The lever allows manual egress from the inside (this can be replaced by a push button or a secure access system). A half-cylinder can be fitted to allow fail-safe override. The strike can be activated by the full range of secure access systems, eg. keypad, swipe card, etc. Available in 12 or 24vDC and with Fail Open (power to hold strike) or Fail Closed (power to open).



**ELECTRO-MAGNET LOCK, SURFACE MOUNTED**

Available in 12 or 24vDC the magnet can be activated by the range of security access systems, eg. keypad, swipe card, etc. It is fitted to the frame with a bolt through armature plate on the door blade. The magnet is locked when power is applied and automatically Fails Open when it is removed. The lock can be fitted to single or double doors.



**ELECTRO-MAGNET LOCK, CONCEALED MOUNTING**

The door is fitted with two mag-locks flush mounted into a special frame section, whilst the armature plates are recessed into the door blade. This arrangement is ideal for high traffic entrance doors to offices and flats, as it provides an esthetically pleasing door offering high security and resistance to attack or abuse. The lock can be fitted to single or double doors (on double doors only active leaf operation is allowed).

# FINISHES

## > STANDARD COLOUR FINISHES

All Robust doors are supplied with a choice of polyester powder coatings from our Standard PPC Colour Range (see chart opposite)



## > OPTIONAL FINISHES

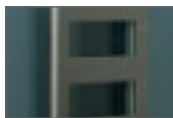
We also offer a range of optional finishes to fit your exterior or interior application.



Polyester Powder Coated from Non-Standard Colour Range



PVC Laminate from Standard Range



Stainless Steel Brushed, Polished or Patterned



Unfinished for site finishing

### Woodgrain PVC Laminates



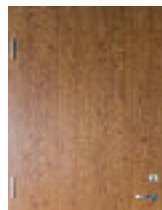
NORDIK OAK



ASH



MAHOGANY



MAGIC OAK



TEAK



CHERRY



VIRGIN WHITE



GOLDEN OAK

> STANDARD PPC COLOUR CHART

 RAL 1021 RAPE YELLOW	 RAL 3000 FLAME RED	 RAL 3020 TRAFFIC RED	 RAL 5002 ULTRAMARINE BLUE	 RAL 5003 SAPPHIRE BLUE
 RAL 5005 SIGNAL BLUE	 RAL 5010 GENTIAN BLUE	 RAL 5011 STEEL BLUE	 RAL 5012 LIGHT BLUE	 RAL 5015 SKY BLUE
 RAL 5024 PASTEL BLUE	 RAL 6002 LEAF GREEN	 RAL 6003 OLIVE GREEN	 RAL 6005 MOSS GREEN	 RAL 7000 SQUIRREL GREY
 RAL 7004 SIGNAL GREY	 RAL 7005 MOUSE GREY	 RAL 7011 IRON GREY	 RAL 7012 BASALT GREY	 RAL 7015 SLATE GREY
 RAL 7016 ANTHRACITE GREY	 RAL 7021 BLACK GREY	 RAL 7022 UMBRA GREY	 RAL 7024 GRAPHITE GREY	 RAL 7030 STONE GREY
 RAL 7035 LIGHT GREY	 RAL 7037 DUSTY GREY	 RAL 7038 AGATE GREY	 RAL 7039 QUARTZ GREY	 RAL 7040 WINDOW GREY
 RAL 7042 TRAFFIC GREY A	 RAL 7043 TRAFFIC GREY	 RAL 8004 COPPER BROWN	 RAL 8019 GREY BROWN	 RAL 9002 GREY WHITE
 RAL 9003 SIGNAL WHITE	 RAL 9004 SIGNAL BLACK	 RAL 9005 JET BLACK	 RAL 9006 SILVER	 RAL 9007 GREY ALUMINIUM
 RAL 9010 WHITE	 RAL 9016 TRAFFIC WHITE	 BS 04 E 53 POPPY RED	 BS 08 B 29 VAN DYKE BROWN	 BS 10 A 05 GOOSE WING GREY
 BS 12 B 21 MOORLAND GREEN	 BS 12 B 29 JUNIPER GREEN	 BS 18 B 17 HERON	 BS 18 B 25 MERLIN GREY	 BS 18 E 53 COBALT BLUE

GLAS-DOR

OUTA-DOR

INNA-DOR

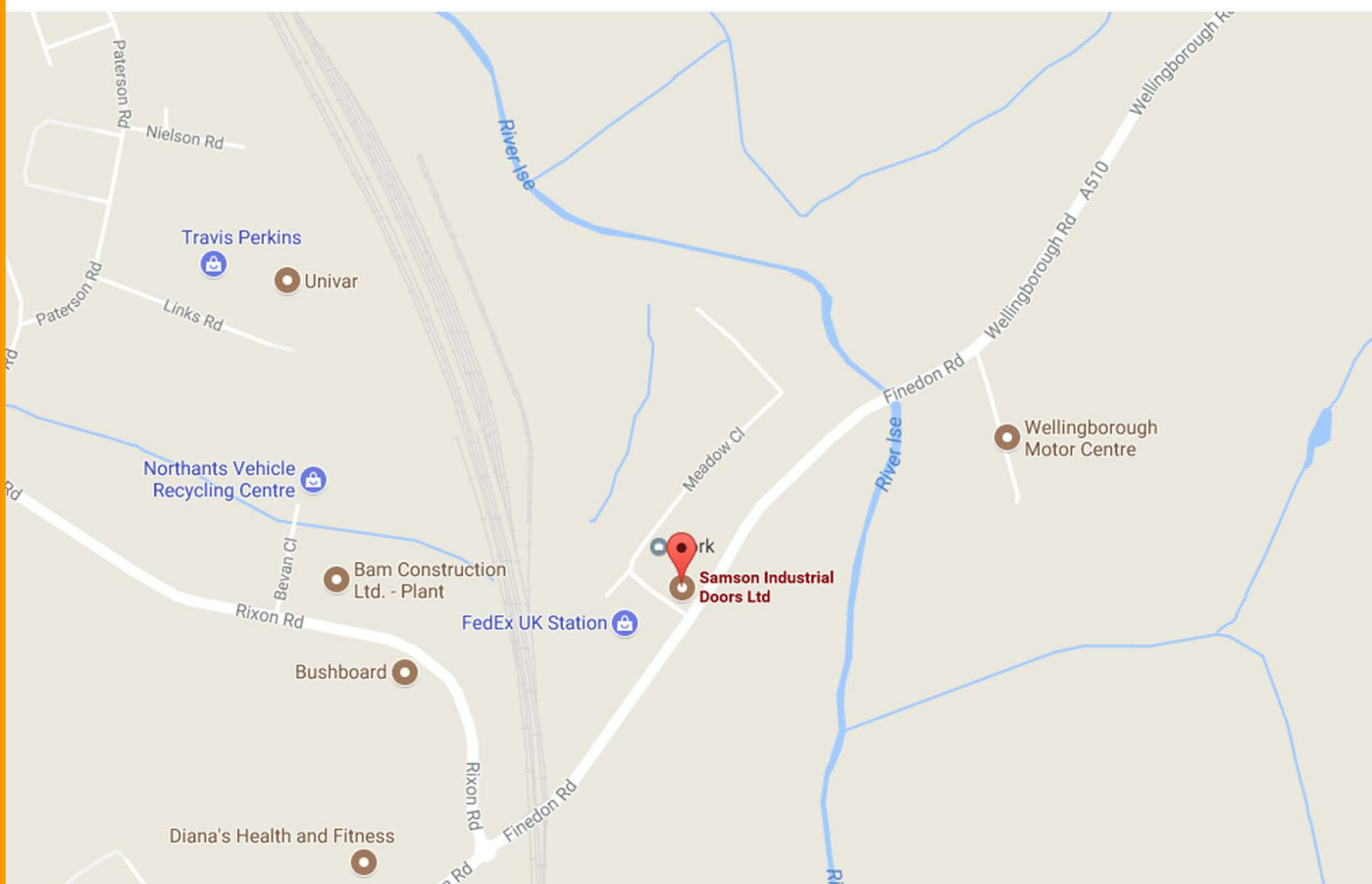
TUFF-DOR

SECUR-DOR

LOUVRED

HARDWARE & FINISHES





**6-8 MEADOW CLOSE  
ISE VALLEY INDUSTRIAL ESTATE  
FINEDON ROAD  
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