



making life easier for the installer

TRUSTPILOT

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Sharing our steel door vision

Hello and welcome to the first of three editions of the Doorbook this year. My name is Tim and I consider myself very fortunate to be the Managing Director of Strongdor Limited. Fortunate, because I passionately believe that there is a better way to make and supply superior steel doors and I get to develop and test my belief every day.

The belief in better steel doors excites me, motivates me and gets me out of bed in the morning. I consider myself particularly privileged, because the whole Strongdor Team share my obsession. In fact, collectively, we are passionate in our mission to share our vision with you. We focus on steel doors because we know that there is so much room for improvement in today's market. From making build standards and specification transparent to simplifying the ordering, delivery and fitting process. We are committed to making life easier for the installer, because we think customer loyalty is earned rather than bought.

Scattered on the pages of this Doorbook you will find the evidence of our passion, so whether you are new to Strongdor or you have traded with us for years we are very grateful for your time and attention.

Tim Devenish

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AntiAtura

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OPENING HOURS

Mon to Fri 7.30am – 4.30pm Weds 7.00am – 4.00pm

Need help? Call us now for expert steel door advice or a free quotation.



sales@strongdor.com www.strongdor.com

STRONGDOR THE THINK TANK

These are exciting times at Strongdor. To make life easier for the installer, the steel door boffins in our Research and Development department have been burning the midnight oil to find new features, products and services to add to our portfolio.

For example, this edition of the Doorbook announced the launch of Atakdor, a product designed to protect properties from attack with heavy duty power tools, but we are

THINKER

pleased to say that there is more good news to come.

Eager to give you a taster of the kind of innovations they have been working on, those excitable R&D geeks insisted

IDEMOMET

on us sharing some of their plans to improve existing products lines as well as introduce some completely new developments.

New range of acoustic rated doors

Calculations made. samples built, testing done and the results are in...

Hardware parts website

Need extra door furniture. closer or a push bar? Our hardware door store will be open when you need it Quick and convenient the shelves are in and we are adding stock and setting up the checkouts. Keep an eye out - the doors will soon be open.

>>> I][][][][] [] {<< HARDWARE STORE.CO.UK

Fire rated maglocks and code locks

More innovation inspired by customer feedback - thank you, keep those ideas coming. We bought the matches and fire testing for these locks is imminent and there will be more news to follow.

If you would like to know more details, or if you want to be kept in the loop with all our offers and news, you can sign up to our news service on the website using this QR code or drop us an email to sales@strongdor.com

ThinKin9Car

Making life easier for the installer

PAS24 testing for electric locking

Some of our steel doors have long had PAS24 certification, but what about those electronic locking devices? As good ideas go, this was a no brainer.





WHY CHOOSE STRONGDOR?

Come and join a growing number of industrial door, construction and facilities management professionals who will not compromise on quality and service. They know our steel doors are ideal for new build, renovation or maintenance and make them first choice time after time.

ACCREDITATION AND QUALITY

Based in the UK, we make great doors. Precision built and checked at every stage for build quality and finish.

Each door is custom made and built to comply with specific standards (including Secured by Design).

Rated and certified for fire, security, acoustic and thermal performance. We also supply specialist, heavy duty doors with blast and bullet proof properties.

SUPERB SERVICE AND EXPERT ADVICE

We are with you all the way. Get access to our expert sales team, many of whom have spent time in the industry, fitting doors and shutters themselves.

They hold key insights into the practicalities of steel doors, saving you time and money in selecting and ordering the right door.

Once in production, we source the best steel, using our know-how to design, fabricate and build superb steel doors. Keeping you up to date on the delivery schedule and advising if there are any special site requirements.

When the door is fitted, we offer after sales care and assistance that is second to none. We won't leave you in the lurch.

VALUE FOR MONEY

Honestly, you can find cheaper steel doors on the market, but are they made from quality steel? Is the leaf Dutch folded for superb stability and resilience? Do they come powder coated and with a full fixing kit? Do they save time and money on site with adjust-to-fit frames? Will you need to replace them in 12 months?

Sometimes what looks like a bargain can actually cost more in the long run.

FAST TRACK DELIVERY

If you need your doors pronto, you may be able to get them guicker with a Fast track delivery. Talk to the sales team for details.

Always helpful, friendly and knowledgeable. Never an issue with their doors so far and the staff are fantastic. Our favourite manufacturer to work with. *** * * * HOWARD MITCHELL GROUP LTD.**

DOORBOOK TRADE | ISSUE 6 | Summer and Autumn 2019 07

STRONGDOR A DAY IN THE LIFE









Making life easier for the installer

STRONGDOR A DAY IN THE LIFE





Icons relevant to the individual range features are displayed on the introduction pages. They are designed to make it easy for you to identify and select the right door for your project.





PAS 24



PAS 23



Marine Grade C5 Coating



Louvre Panels



Fully Glazed



Vision Panels



Glazed Walls



Glazed Over/ Side Panels



Solid Over/ Side Panels



Fastrack Delivery



Fire Rated



Smoke Resistance



Acoustic Rated



Ballistic Rated



Security Rated



Blast Rated



Range of Hardware



Low U Value ≤ 2





Anti Graffiti Coating







Wood Effect Print



Air Permeability



Water Resistance



Resistance to Wind

Anti Bacterial Coating





Adjustable Side Frames



Wood Cladding

contents Features



STRONG

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Case studies

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R	Kirkby Stephen Business Park	SEE PAGES	78-79	
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	Thornleigh College, Bolton	SEE PAGES	86-87	
OR	Roosecote Battery Storage Facility	SEE PAGES	88-89	
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The compl steel door	lete Strc product	ongdor trange	2				ating					els	els									g		les					
Door Range	Description	Max Size Single	Max Size Double	Primary Certification	PAS 24	PAS 23	Marine Grade C5 coating	Louvre Panels	Fully Glazed	Vision Panels	Glazed Walls	Glazed over/side Panels	Solid over / side Panels	Fastrack delivery	Smoke Resistance	Acoustic Rating	Ballistic Rated	Security Rated	Blast Rated	Range of Hardware	Low U Value ≤2	Anti Bacterial Coating	Anti Graffiti Coating	Adjustable Side Frames	Wood Cladding	Wood Effect Print	Air Permeability	Water Resistance	Resistance to Wind
Steel for	Bespoke steel door	1400mm x 3000mm	2800mm x 3000mm	BS EN 14351-1 2006 & A2: 2016	•					•			2 1	✓						•			V	•		•		•	
Fire	Bespoke steel fire door	1400mm x 3000mm	2800mm x 3000mm	EN 1634-1: 2014						•			2 1	•	2 2	I		•					•						
Securidor	Security rated door	1435mm x 3010mm	2905mm x 3010mm	RC1-3 / PAS 24 / SBD									1	v	2	•													
Glass	Steel profile glazed door	1500mm x 3000mm	2900mm x 3000mm								•		~		2			•		•							•		
Atakor	Attack resistant steel security door	1300mm x 2600mm	2600mm x 2600mm										√											V					

The compl steel door							ting				els	els										D		es					
Door Range	Description	Max Size Single	Max Size Double	Primary Certification	PAS 24	PAS 23	Marine Grade C5 coating	Louvre Panels	Fully Glazed	Vision Panels Glazed Walls	Glazed over/side Panels	Solid over / side Panels	Fastrack delivery	Fire Rating	Smoke Resistance	Acoustic Rating	Ballistic Rated	Security Rated	Blast Rated	Range of Hardware	Low U Value ≤2	Anti Bacterial Coating	Anti Graffiti Coating	Adjustable Side Frames	Wood Cladding	Wood Effect Print	Air Permeability	Water Resistance	Resistance to Wind
Acoustider	Acoustically rated door	1435mm x 3010mm	2905mm x 3010mm	EN ISO 10140-1: 2006				2	2 8	2	M						1	1	V		•								V
Ballistidor	Bullet resistant door	1435mm x 3010mm	2905mm x 3010mm	BS EN 1522: 1999																									V
Blast	Explosion resistant door	1435mm x 3010mm	2905mm x 3010mm	0.1 TO 2 BAR - FM TESTED			~							•			~	~	•		V	•	•			•	V	•	V
Clima	Thermally rated door	1360mm x 2550mm	2640mm x 2550mm						5	2				•	✓						•							•	~

ATAKDOR | Attack resistant steel security door

Specially designed to protect against serious, sustained attack from heavy duty and abrasive wheel power tools.

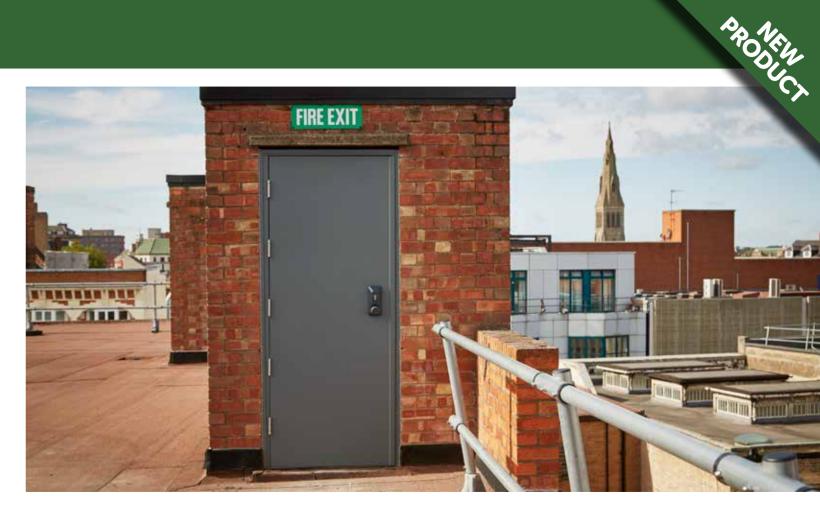
Developed in partnership with a leading national retailer, Atakdor was born out of the necessity to thwart determined, planned attacks on premises that had been targeted by criminals gangs because they were know to carry small, expensive merchandise that would be easy to remove and relatively simple to sell on.

Atakdor uses a combination of door security technologies, such as Atakcore and Leafshield, to frustrate direct attacks using professional power-tools and cutting equipment.

These heavy duty single and double door-sets are fitted as standard with high security hardware and drop bars to present a formidable barrier to would be intruders. They are ideal for use as an alternative to level three security doors in applications where there is a high risk of attack.

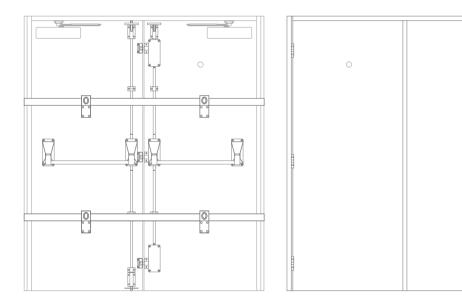


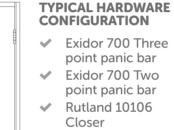




DOORBOOK TRADE | NEW PRODUCT | ATAKDOR 17

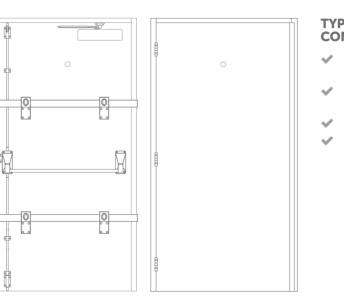
EMERGENCY EXIT DOUBLE DOOR-SET TYPICAL SPECIFICATION





- Drop bars
- 🖌 Spy Hole

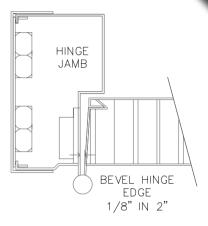
EMERGENCY EXIT SINGLE DOOR-SET TYPICAL SPECIFICATION



FRAME DETAIL

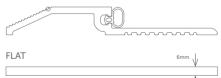
TYPICAL HARDWARE CONFIGURATION

- Exidor 700 Three point panic bar
 Rutland 10106
 - Closer
 - Drop bars
- Spy Hole



THRESHOLD DETAILS

FOR EXTERNAL OUTWARD OPENING



ATAKDOR | Attack resistant steel security door



LEAF

- ✓ 45mm thick door leaf with flush lipped astragal constructed from:
- 2mm thick steel sheets.
- ✓ 42mm thick Atakcore
- 2mm Leafshield protection
- 3 year warranty against rust as standard for all colour coated doors *

FRAME

- Manufactured from 2mm thick steel.*
- Single rebate 100mm wide frame with additional rebate for flush lip.*
- A minimum of six fully adjustable fixing points are provided to each jamb.*
- ✓ 'Adjust-2-fit' side channels with each frame.*
- Double rebate frames are available on request.
- 3 year warranty against rust as standard for all colour coated doors.*

WEIGHT



THRESHOLD

Aluminium threshold with neoprene seal on external outward opening doors.

DOOR IRONMONGERY

- Standard as previous page
- BS 7352 Grade 13 stainless steel, twin bearing template drilled butt hinges with integral high security dog bolts are fitted as standard with CE marking - 5 fitted.

SEALS

- Self adhesive P-seal as standard.
- Brush seal on flat threshold

FINISH

Powder coated from the standard range
Coastal grade finish as an option.





DOORBOOK TRADE | NEW PRODUCT | ATAKDOR 21





Look close enough and you will find Steeldor has it covered. From cold rooms to power stations, retail units to hospitals, offices to industrial units, even in the most remote parts of the Outer Hebrides, one size may not fit all, but one range certainly serves all.

Steeldor, simply great bespoke steel doors

Feedback suggests you appreciate an easy to fit, versatile steel door, that offers fantastic value for money. Steeldor was developed to meet that need, offering superb flexibility for use in many different situations and environments. To make life easier for the installer, Steeldor is manufactured from corrosion resistant high-

tensile steel, each door-set comes complete with powder coating and an appropriate installation kit.

These doors are popular with contractors and specifiers alike, the consummate all-rounder, they come with a range of features and options that can be configured to order. This is your door, made your way to order - no wonder we supply so many.

Steel

STEELDOR | Technical specifications



The option of the pre-tensioned Rustec anti-rust steel is available on many doors within the range. This provides unparalleled strength and incredible resistance to corrosion, to add years to the life span of the door-set.

Popular with contractors, Steeldor is easy to fit and comes with a complete installation kit.



Manufactured from 1.6 mm thick 'Rustec' steel.*

Single rebate 104mm wide frame with additional rebate for flush lip.* A minimum of six fully adjustable fixing points are provided to each jamb.* Unique 'Adjust-2-fit' side channels with each frame.*

Double rebate frames are available on request.

5 year warranty against rust as standard for all colour coated doors.*

LEAF

45mm thick Door leaf with flush lipped astragal constructed from: 2 x 1.2mm thick 'Rustec' sheets, which are Dutch folded and internally bonded together.*

42mm thick 'Hexatex' core.*

5 year warranty against rust as standard for all colour coated doors.*

DOOR IRONMONGERY

BS 7352 Grade 13 stainless steel, twin bearing template drilled butt hinges with integral high security dog bolts are fitted as standard with CE marking.

SEALS

Strongdor self adhesive P-seal provided as standard.

SIDE PANELS & OVER PANELS (Optional)

Solid, Glazed and Louvred side and over panels available.

VISION PANELS (Optional)

20GA Cold Rolled Steel – Stainless Steel available upon request. Single and Double glazed. 6mm GWPP/ 6.4mm Laminated / 6mm Toughened / 9mm Ceramic. Obscured and frosted options on request. 22mm Double Glazed units.

LOUVRES (Optional)

18GA Galvanised Steel – frame. 22GA Galvanised Steel – louvre blades. 50% Free air flow in standard configuration. Bird Mesh and Insect Mesh available. 36% Free air flow when using insect mesh.

FINISH

Comes as standard in a powder coated finish in one of our standard colours.

Full range of and BS colours available. Marine Grade finish is available as an option in salt laden coastal or high chlorination locations.

Full range of finishes available including, metallics and pearlescent.

16 year warranty against rust in a non saline environment with our optional C5i coating.

THRESHOLD

Aluminium threshold with neoprene seal on external outward opening doors.

Double ramped threshold available for doors needing pallet truck access. – Require raindrip & brush seal to prevent water ingress. Specialist inward opening threshold available where water ingress is an issue on inward opening doors.

WEATHER-TIGHTNESS

The standard is BS 6375: Part 1: 2009 (test to EN1026:2000, EN1027:2000, EN12211:2000) and Steeldor passed the 1200 exposure rating.

WATER-TIGHTNESS

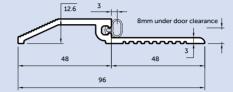
The standard EN1027:2000 was passed 150Pa for outward opening and 100Pa for inward opening.

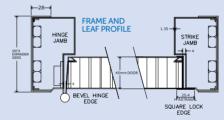
WIND LOAD

The EN12211:2000 standard was passed 1200Pa (Class A3) 98 mph.

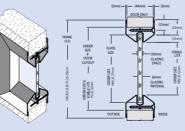


STANDARD 96mm THRESHOLD





VISION PANEL



F





STEELDOR | Door types and panel options

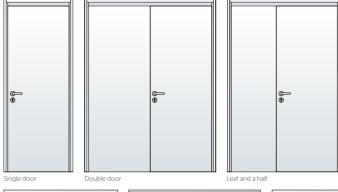
STEELDOR | Door types and panel options

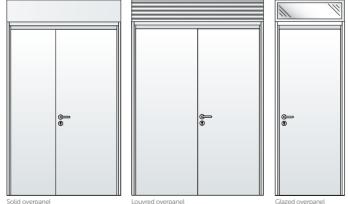


Steeldor can be configured for use as both personnel doors and emergency exits. The single, double and leaf and a half door-sets can also be supplied with bespoke side and overpanels.

Fixed, glazed, louvred or detachable panels, the illustrations on the following pages are set out to give an example of the most common choices of Steeldor design and is only representative of the many options available.

If you are unsure, or have a question, then please talk to one of our expert sales team, who will be able to advise and guide you.









Detachable overpanel





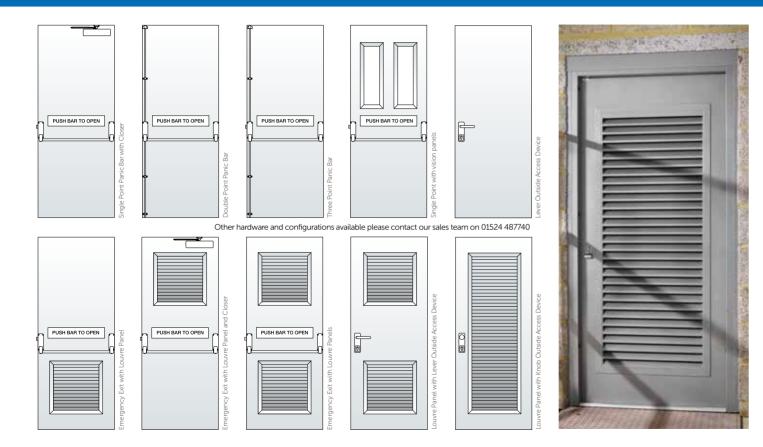
Solid overpanel and sidepanels

Louvred overpanel and sidepanels

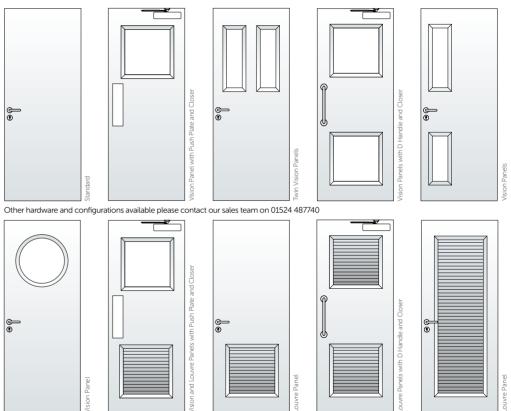
Glazed overpanel and sidepanels

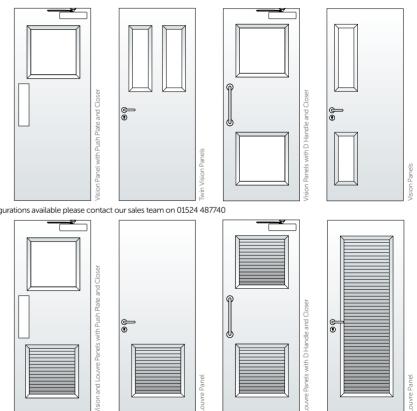
STEELDOR | Single emergency exit doors common hardware configurations

STEELDOR | Single personnel doors common hardware configurations







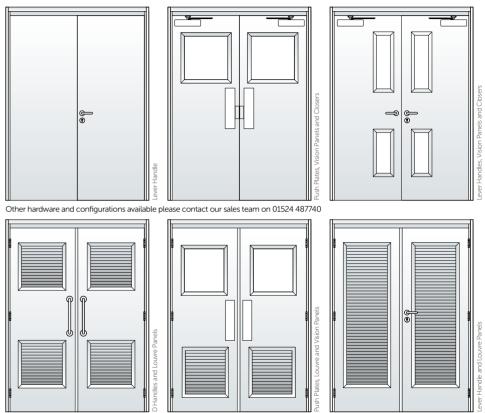


STEELDOR | Double emergency exit doors common hardware configurations

STEELDOR | Double personnel doors common hardware configurations









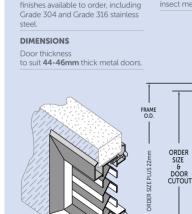
STEELDOR | Louvre doors and panels

Steeldor louvred panels are the essential solution for security sensitive applications where good airflow is imperative. Our high quality fully louvred panels and doors are designed to protect and ventilate without compromising

With the same level of performance and high quality standards of quality and service which Strongdor have now set as an industry benchmark, these products will allow 50% airflow through any given panel size, offering complete peace of mind.







MATERIAL

Louvre Blades.

Frame.

FINISH

18GA. Galvanised Steel

22GA. Galvanised Steel

Powder coat to suit door or other

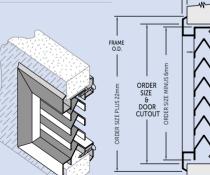
35.8° from vertical. LOUVRE MESH

BLADE PITCH

Insect and bird mesh available.

FREE AIR FLOW

50% free area. (36.6% when using insect mesh.







DOORBOOK TRADE | STEELDOR | Bespoke steel door 35

STEELDOR | Standard hardware options

STEELDOR | Standard hardware options

Sash Locks



Briton 5510 Cylinder Deadlock
Briton 5520 Cylinder Sashlock
Briton 5530 Bathroom lock
Briton 5540 Latch - SSS
Briton 5555 Cylinder Nightlatch
Briton 5560 Escape Sashlock
Abloy EL560 Electric Lock



Briton Lever Operated Outside Access Device | Silver





PHA Modular 3 Point | Panic bolt with lateral latches (push bar)

PHA Modular 2 Point | Panic bolt comes with vertical steel latches (push bar)

PHB Contur Modular 3 point | touchbar panic bolt comes with vertical steel latches

PHB Contur 1 Point | modular touchbar panic latch with zinc latch

Contur External Lever Trim | for use with PHA & PHB panic hardware suitable for euro profile cylinder

Surelock Escape Hardware

Surelock McGill 2 Point BAR comes with vertical **bolts for single door** | Slimline surface mounted 2-point bolting system - auto-bolting, anodized push bar with green lettering (BS EN 1125: 2008)

Surelock McGill 3 Point BAR comes with vertical **bolts for single door** | Slimline surface mounted 3-point bolting system - auto-bolting, anodized push bar with green lettering (BS EN 1125: 2008)

Surelock McGill 3-point and two point green lever handle exit system | Slimline surface mounted 3-point and 2 point bolting system - auto-bolting, green exit lever handle (BS EN 179: 2008)

Surelock McGill 5 Point BAR comes with vertical **bolts for double door** | Slimline surface mounted 5-point bolting system, auto-bolting, 2 x anodized push bars with green lettering (BS EN 1125: 2008)

Outside Access Device - LEO Modules (supplied with Union cylinder as standard) | Surface mounted LEO keyed to differ Union Euro profile cylinder comes with 2 keys - left and right handed.

IF YOU CAN'T SEE THE HARDWARE YOU NEED?

SPEAK TO OUR SALES TEAM ON

01524 487740



STEELDOR | Standard hardware options

STEELDOR | Standard hardware options



Pair of 19mm dia Safety Lever Handles | on sprung rose

19mm dia D Pull Handle | 300mm

Finger Plate | 300 x 75mm - PLAIN / SSS

Disabled Thumbturn & Release | with engaged indicator (use with bathroom lock)



Euro Double Cylinder | 70mm / SC

Euro Standard Turn Cylinder | 70mm / SC

Euro Double Cylinder 70mm | KA2 / SC

Euro Single Thumbturn | 45mm / SC

Euro Double Cylinder | 70mm / SC - 6 pin kite marked

Euro Cylinder & Turn | 70mm / SC - 6 pin kite marked higher security

3* UAP Cylinder | 6 pin British Standard Kite marked: Anti-snap, anti-bump, anti-drill, anti-pick & anti plugpull



5204 Standard Arm Closer | EN 2-4 adjustable silver 9205 Slimline Heavy Duty Door Closer | EN 2/3/4/ (fire rated doors)

9205 Slimline Heavy Duty Door Closer | comes with slide arm

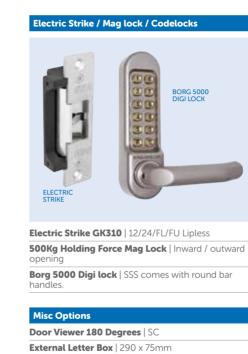
Hold Open Armset | including bracket and fixings. Push side of door

Friction Stay Telescopic | not for windy environments

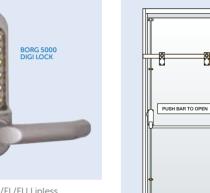
Heavy Duty Door Holder Stay | not for windy environments

Door Selector | Supplied loose standard on double fire doors)

Garage Door Stav







Fire Door | Keep Shut signage Fire Door | Keep Locked signage Fire Escape | Keep Clear signage **Disabled Symbol**

Drop Bar Double | with or without Pinsen Locks

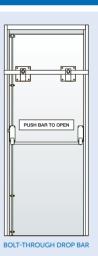
bolt through also available Drop Bar Single | with or without Pinsen Locks bolt through also available

Wall Mounted Hook | for hanging the drop bar on

Kick Plates

STANDARD DROP BAR

Stainless Steel | Various sizes to full door Chequered | Various sizes to full door



Thresholds

96mm | Industrial Door Threshold

114mm | Industrial Door Proline AM3 Threshold

105mm | Industrial Door Proline AM5 Threshold

127mm | Flat Double Ramped Threshold

Self-Adhesive Brush Seal (Black)

Aluminium Rain drip with Neoprene Blade







Door Frames

Standard Frame

Double Rebate Frame

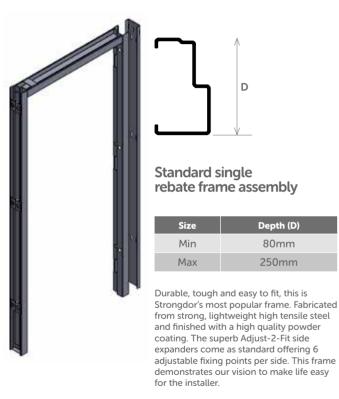
Flange Frame

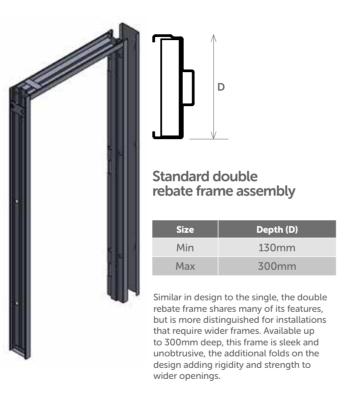
Standard 50mm Frame

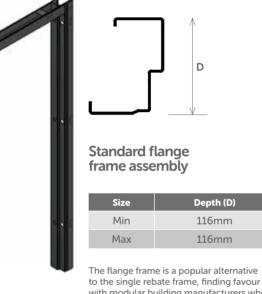
SEE OVER-LEAF FOR DETAILS OF **ALL OUR FRAMES**

STEELDOR | Standard door frame specifications

STEELDOR | Standard door frame specifications







with modular building manufacturers who appreciate buildings with an neat exterior, flanged finish. Ideally suited to this cutting edge sector of the construction industry, this versatile frame is easy to fit and durable.





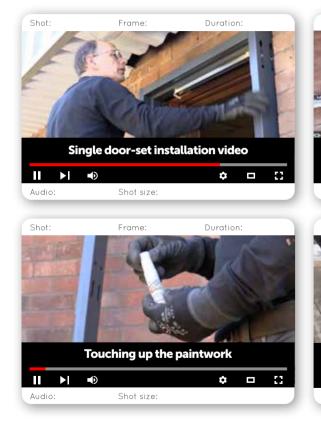
Standard 50mm frame assembly

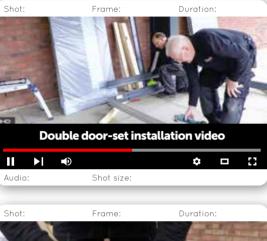
Size	Depth (D)
Min	50mm
Max	50mm

Our narrowest frame is available for use with a 44mm door leaf. Initially designed for use with 50mm internal partitioning systems, this frame is ideal for use on modular concepts such as clean rooms, offices and production area partitioning. The 50mm frame perfectly matches and compliments internal partitioning systems.

STEELDOR | Fitting and trouble-shooting videos

STEELDOR | Adjust to fit sides







Trimming the expander panels



What we most often hear from installers is that they really appreciate doors that can be quickly and easily fitted without fuss or fiddle

Saving both time and money on site, the Steeldor adjust to fit frame makes installation a doddle. To see just how easy that is, take a look at the video instructions on our website (see QR code below).

instructional videos featuring remedies for some of the more common fitting snags.



You can also find





STEP 1: First align the frame into the door opening.





STEP 4: Insert the frame fixers.

STEP 5: The fully tightened frame fixers are recessed half way into the frame adjuster screws.



STEP 3: Once the frame is in position, drill through the frame adjuster screws



Fixing Kits

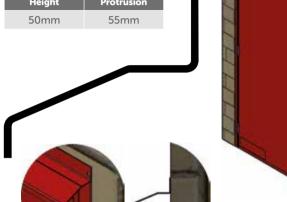


Complete installation kit available with every Steel Door. (Kit may differ to that shown).

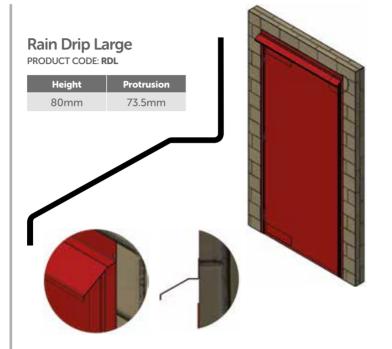
STEELDOR | Rain Drip Specifications

Rain Drip Small PRODUCT CODE: RDS





This smaller, powder coated steel rain drip protrudes 55mm from the door leaf. It is mounted above the door, onto the wall over the header. Protecting the door from the adverse effects of rain water running down the exterior of the building onto the finished surface of the door leaf.



Offering more protection than the smaller model, this powder coated steel rain drip protrudes 73.5mm from the door leaf. It is similarly mounted above the door, onto the wall over the header. Protecting the door from the adverse effects of rain water running down the exterior of the building onto the finished surface of the door leaf.



DOORBOOK TRADE | STEELDOR | Bespoke steel door 45

STEELDOR | Colours and Powder Coating Options

STEELDOR | Colours and Powder Coating Options

1001	1003	1013	1015	1016	1017
Beige	Signal Yellow	Oyster White	Light Ivory	Sulfur Yellow	Saffron Yellow
1018	1021	1023	2002	210 8010 Blue	3001
Zinc Yellow	Colza Yellow	Traffic Yellow	Vermilion		Signal Red
3003	3004	3005	3011	3028	4005
Ruby Red	Purple Red	Wine Red	Brown Red	Pure Red	Blue Lilac
4007	4008	5002	5003	5004	5005
Purple Violet	Signal Violet	Ultramarine Blue	Sapphire Blue	Black Blue	Signal Blue
5007	5008	5009	5010	5012	5013
Brilliant Blue	Grey Blue	Azure Blue	Gentian Blue	Light Blue	Cobalt Blue
5014	5017	5018	5020	5021	5024
Pigeon Blue	Traffic Blue	Turquoise Blue	Ocean Blue	Water Blue	Pastel Blue
6001	6002	6007	6016 Turquoise	6017	6018
Emerald Green	Leaf Green	Bottle Green	Green	May Green	Yellow Green
6020	6028	6029	6034 Pastel	7000	7001
Chrome Green	Pine Green	Mint Green	Turquoise	Squirrel Grey	Silver Grey
7004	7005	7010 Tarpaulin	7011	7012	7013
Signal Grey	Mouse Grey	Grey	Iron Grey	Basalt Grey	Brown Grey
7015	7016	7022	7023	7024	7026
Slate Grey	Anthracite Grey	Umbra Grey	Concrete Grey	Graphite Grey	Granite Grey
7030	7031	7032	7035	7036	7037
Stone Grey	Blue Grey	Pebble Grey	Light Grey	Platinum Grey	Dusty Grey

7038	7040	7042
Agate Grey	Window Grey	Traffic Grey A
7044	7045	7047
Silk Grey	Telegrey 1	Telegrey 4
8001	8011	8015
Ochre Brown	Nut Brown	Chestnut Brown
8022 Black	8022 Black	8028
Brown	Brown	Terra Brown
9001	9002	9004
Cream	Grey White	Signal Black
9006	9007	9010
White Aluminium	Grey Aluminium	White
9016	9017	9023 Pearl
Traffic White	Traffic Black	Dark Grey

These colours represent a selection of all those that are available. Please ask if you cannot see the colour you require.

PLEASE NOTE: These colours are for reference only and are an approximation of the true colours. The quality, type and settings of the output device used to display this page will also affect the visible colour. Some colours may be subject to an additional cost. Door-sets that are installed in extreme locations, ie, coastal areas etc, may require special paint applications. Our sales staff can advise accordingly. Failure to notify/specify these applications can result in the negation of the Strongdor guarantee.



To ensure maximum durability, Steeldor is supplied in a high quality finish powder coating. At no extra cost.

A full range of and BS colours are available. Strongdor is an approved C5 marine grade specialist, providing unmatched corrosion resistance in doors supplied to highly corrosive and saline environments.

Paint Options

Marine Grade Paint | Single Marine Grade paint | Double C5i Marine Grade Door | Single C5i Marine Grade Door | Double

FIREDOR | Bespoke steel fire door



If the worst happens and fire breaks out, then seconds can make a huge difference. Which makes choosing the right door more than important, literally it could be a matter of life and death.

Independently tested and assessed, Firedor has all the versatility and durability that you would expect from a Strongdor steel door, plus an impressive full four hour fire test rating.



Fully bespoke, Firedor can be made to your exact requirement and has superior security features such as astragal and dog bolt hinges. A low level DDA approved threshold comes as standard. Firedor is available with vision panels, also fire tested to a full four hours, and louvre panels which are fire tested to 2 hours.

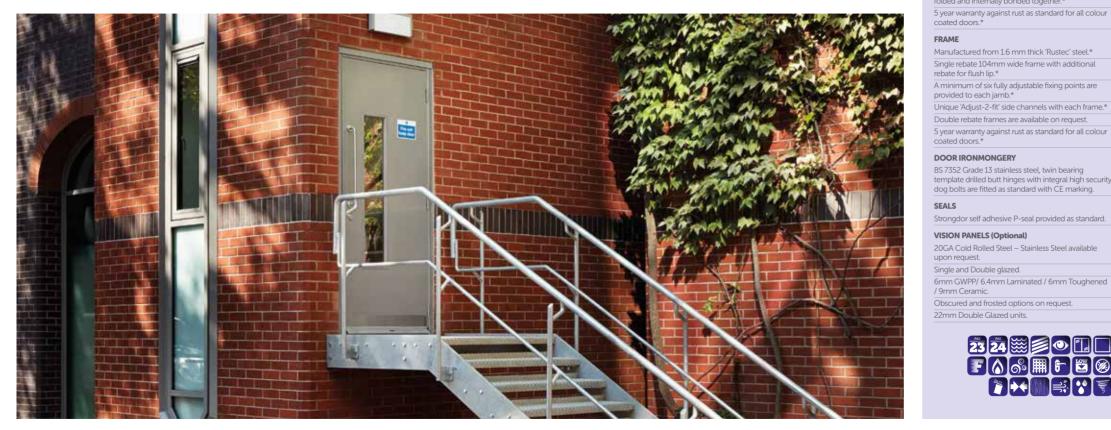
BESPOKE STEEL FIRE DOOR



Maximum size single door set 1400 x 3000mm

Maximum size double door set 2800mm x 3000mm

FIREDOR | Personnel doors and fire exit doors



LEAF

45mm thick Door leaf with flush lipped astragal constructed from:-2 x 1.2mm thick 'Rustec' sheets, which are Dutch folded and internally bonded together.*

5 year warranty against rust as standard for all colour coated doors.*

FRAME

Manufactured from 1.6 mm thick 'Rustec' steel.* Single rebate 104mm wide frame with additional

rebate for flush lip.* A minimum of six fully adjustable fixing points are provided to each jamb.*

Unique 'Adjust-2-fit' side channels with each frame.*

Double rebate frames are available on request. 5 year warranty against rust as standard for all colour coated doors.*

DOOR IRONMONGERY

Single and Double glazed.

23 24

/ 9mm Ceramic.

BS 7352 Grade 13 stainless steel, twin bearing template drilled butt hinges with integral high security dog bolts are fitted as standard with CE marking.

pearlescent. Strongdor self adhesive P-seal provided as standard.

THRESHOLD

FINISH

outward opening doors. prevent water ingress. opening doors.

available.



LOUVRES (Optional)

- 18GA Galvanised Steel frame.
- 22GA Galvanised Steel louvre blades.
- 50% Free air flow in standard configuration.
- Bird Mesh and Insect Mesh available.
- 36% Free air flow when using insect mesh.
- Comes as standard in a powder coated finish in one of our standard colours.
- Full range of and BS colours available.
- Marine Grade finish is available as an option in salt laden coastal or high chlorination locations.
- Full range of finishes available including, metallics and
- 16 year warranty against rust in a non saline environment with our optional C5i coating.*
- Aluminium threshold with neoprene seal on external
- Double ramped threshold available for doors needing pallet truck access. – Require rain-drip & brush seal to
- Specialist inward and outward opening threshold available where water ingress is an issue on inward

SIDE PANELS & OVER PANELS (Optional)

Solid. Glazed and Louvred side and over panels

Available on most door-sets in the range

Supplied in a high quality finish powder coating to ensure maximum durability. Firedor is available in a full range of and BS colours, including metallics and pearlescents at extra cost. (See pages 36 and 37 for standard colour options). As an approved C5 marine grade specialist, Strongdor can supply Firedor with unmatched corrosion resistance for use in highly corrosive and saline environments.

Optional pre-tensioned Rustec anti-rust steel is available on many doors within the range, giving unparalleled strength and incredible resistance to corrosion, to add years to the life span of the door-set.



SECURIDOR | Security rated steel door



We all now live in a security conscious world, in which protection and prevention are always preferable to the misery and inconvenience of becoming just another crime statistic.

Mostly, any kind of security comes at a heavy premium, what price peace of mind? Which is why installing the prudent Securidor range makes an excellent case for the defence. After all, it is reassuring to know that these doors have been physically tested by a third party to recognised standards. Strongdor are purposefully investing in security testing and can supply a comprehensive range of products that are fully certified to a range of domestic and international standards. Closer to home, in order to achieve Secured by Design status, specifically the Securidor single door-set range had to adhere to the rigorous tests required by the police. This flagship UK police initiative helps to "design out" crime through the use of high quality, innovative products and

processes.

As you would expect Securidor can be fitted with security rated hardware and finished in a full range of colours. You can find a Securidor that offers practical protection to projects such as banks and data centres.

Positive proof that Securidor is making life easier for the installer by making life harder for the criminal.

SECURITY RATED STEEL DOOR





Maximum size single door set 1250 x 2420mm

Maximum size double door set 2500mm x 2420mm

SECURIDOR | Technical specifications



CONTACT US

As well as the SBD single door configuration listed opposite. Securidor is available in a wide range of specifications, including 1 to 4 security ratings. Please contact our sales team who be able to advise on the technical specifications for your project.



SECURED BY DESIGN SINGLE STEEL DOOR Independently tested and certified security rated steel doors

WFIGHT

31kg/m2

I FAF

✓ 45mm thick Door leaf with flush lipped mono weld astragal constructed from:

- 2 x 'Rustec' sheets, which are Dutch folded and internally
- bonded together.* ✓ 42mm thick security core.*

FRAME

- Manufactured from 'Rustec' steel.* Single rebate 104mm wide frame with
- additional rebate for flush lip.*
- A minimum of six fully adjustable fixing points are provided to each jamb.*
- Adjust-2-fit' side channels with each frame.*
- Double rebate frames are available on request.
- 3 year warranty against rust as standard for all colour coated doors.*

SEALS

- Mini Tear-drop Seal
- Pile Brush Seal
- Extra tear-drop seal for outward opening door-sets
- Additional frame seal for inward opening door-sets. Supplied loose.

✓ 1 x Handle set ✓ 3 x Security escutcheon 1 x Sash lock

✓ BS 7352 Grade 13 stainless steel, twin

fitted as standard with CE marking.

Rain deflector – outward opening

bearing template drilled butt hinges

with integral high security dog bolts are

3 x Euro Cylinder 3 Star

doors only

DOOR IRONMONGERY

- 2 x Dead lock positioned top and bottom of leaf
- Rain Drip (supplied loose)

FINISH

- Comes as standard in a powder coated finish in one of our standard colours.
- Full range of RAL and BS colours available.
- Marine Grade finish is available as an option in salt laden coastal or high chlorination locations.
- Full range of finishes available including, metallics and pearlescent.
- 10 year warranty against rust optional with our 'Colourtec' coating.

THRESHOLD

- Inward opening doors to have AM3 Threshold:
- Ergonomically tested for Part M compliance | Seals gaps 18mm-23mm Pre-drilled drainage holes | Thermally broken to meet thermal bridging and insulation requirements | Designed to fit directly onto level thresholds | Non-slip surface ensures a safe grip in wet conditions | Bespoke nylon connector blocks
- Outward opening doors to have AM5 Threshold:
- Ergonomically tested for Part M compliance | Seals gaps 18mm-23mm | Pre-drilled drainage holes | Thermally broken to meet thermal bridging and insulation requirements | Designed to fit directly onto level thresholds Non-slip surface ensures a safe grip in wet conditions



Official Police Securit





For security most door-sets in the range are tested to PAS 24. For air permeability, the standard is BS EN1026:2000 and was passed class 4 - 600Pa (113kmh) test pressure. For weather-tightness, the standard is BS 6375: Part 1: 2009 (test to BS EN1026:2000, BS EN1027:2000, BS EN12211:2000) and Steeldor passed the 1200 exposure rating. For water-tightness, the standard BS EN1027:2000 was passed 150Pa for outward opening and 100Pa for inward opening. For wind load the BS EN12211:2000 standard was passed 1200Pa (Class A3) 98 mph.

* Available on most door-sets in the range.

GLASSDOR | Steel profile glazed door





CONTACT US Glassdor is available in a wide range of configurations, please contact our sales team to discuss technical specifications to your specific requirements.



56 € 01524 487740 🖶 01524 812222 🛆 sales@strongdor.com www.strongdor.com

STEEL PROFILE **GLAZED DOOR**

As the saying goes, you don't get a second chance at a first impression. So, choosing the right showroom or business facade is very important. Looking in or out, balancing the aesthetic with the demands of a high traffic area can be tricky, why should you compromise? Simultaneously attractive, durable and easy to maintain Glassdor offers the perfect solution. With its sleek lines the Glassdor oozes the sort of quality that will enhance any space while, at the same time, it is exceptionally reliable and sturdy. The system can be used for full curtain walling with optional side and over panels, and is available with a full range of door furniture including maglocks and electric strikes.



Maximum size single door set 1500 x 3000mm

Maximum size double door set 2900mm x 3000mm

GLASSDOR | Options









Glassdor is ideally suited for use on entrance doors, shop fronts, showrooms, reception areas and interior partitions.

For extra peace of mind, Glassdor can be installed in areas where fire risk may be a concern, it is smoke resistant and can also be supplied with a fire rating to EIS30 and EIS60.

ACOUSTIDOR | Acoustically rated steel door





When it comes to noise control Acoustidor leads the way. Keeping sound out, or stopping it escaping, with certified noise reduction from 41db to 56db, whatever acoustic challenge you are faced with, there is an Acoustidor to meet your needs. Recording studios, generator rooms, cinemas, nightclubs or churches, Acoustidor is the perfect solution to noise control challenges.

Acoustidor is certified to EN ISO 140-3 and is available in 4 versions: 41dB, 47dB, 53dB and 56dB. It is available in either 75mm leaf thickness or 100mm leaf thickness. Air permeability class 4 (EN12207) and water tightness

class 8a (EN12208) come as standard on the Acoustidor along with the durability that comes with all Strongdor products.

ACOUSTICALLY RATED STEEL DOOR



Maximum size single door set 1435 x 3010mm

Maximum size double door set 2905mm x 3010mm

ACOUSTIDOR | Technical specifications

CERTIFICATION

Air permeability class 4 according to EN 12207 and Class A1/A2 NEN-EN 12152. Water-tightness Class 8A in accordance with FN 12208.

DIMENSIONS

Door thickness 75mm Every door produced is bespoke and the dimensions can be adapted within the limits to suit the construction requirements exactly.

Single

Max. width = **1435mm** Max. height = 3010mm Double

Max. width = 2905mm Max. height = 3010mm

COMPOSITION

Acoustidor sound insulating doors have a double-walled door leaf, made from galvanised steel sheeting. The doors contain interior insulation material, and are supplied complete with frame (made of 2 mm sheeting) and fitted with a double-seal.

WARRANTY AND OPTIONS

Each door comes with a 5 year construction warranty and can be combined with many other properties such as ballistic resistance, burglar resistance or fire rating to match you exact requirements. A full range of door furniture is also available.

SOUND INSULATION VALUE

EXAMPLES

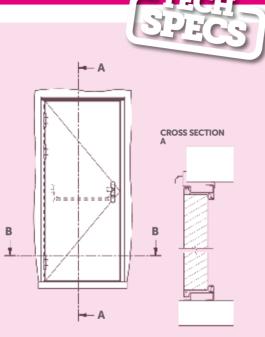
Rw (C,Ctr)	41 (-1,-5)dB	47 (-2,-8)dB	53 (-2,-6)dB	56dB
Ra pop	34dB	37dB	42dB	50dB
Ra house	26dB	28dB	30dB	45dB
The values r	provided were	taken in a labo	pratory, using a	sinale door.

COLOUR

Choose from stainles	ss steel or pow	/der coated to	any colour.	
Frequency (Hz)	41	Isolat 47	ion values 53	(dB)* 56
63	15dB	17 dB	18 dB	34dB
125	22dB	25 dB	34 dB	43dB
250	36dB	38 dB	42 dB	47dB
500	44dB	44 dB	51 dB	50dB
1000	41dB	48 dB	55 dB	56dB
2000	42dB	51 dB	56 dB	55dB
4000	46dB	56 dB	61 dB	55dB
8000	49dB	61 dB	64 dB	-

Insulation values were measured in accordance with the EN ISO 140 – 3 standard.







Powder coated to any colour and available with a range of hardware options. Each door comes with a 5 year construction warranty for your peace of mind and can be combined with many other properties such as ballistic resistance, burglar resistance or fire rating to match your exact requirements.



BALLISTIDOR | Bullet resistant steel door





centres.

When ultimate security is required, you can rely on Ballistidor, our bullet resistant door. Tested to provide maximum protection in life threatening situations, even usual weak spots such as door seams, sills, closures and locks have passed the ultimate test.

The Ballistidor is ideal for applications such as police stations, firing ranges, banks and vaults, where security is becoming an ever more important aspect of building design. Tested in accordance with EN 1522-1 class FB4, the Ballistidor is well able to balance the need of protecting a person under sustained attack until help arrives, while being easy to operate and maintaining a clean aesthetic appearance when being used from day to day.

BULLET RESISTANT STEEL DOOR

Exclusively supplied by Strongdor, to our best knowledge, Ballistidor is currently the only door-set supplied to the UK market that meets the requirements of the new BS EN 50518-1:2013 standard for monitoring and alarm



Maximum size single door set 1435 x 3010mm

Maximum size double door set 2905mm x 3010mm

BALLISTIDOR | Technical specifications



with a range of hardware options, each door comes with a 5 year construction warranty for your peace of mind and can be combined with many other features such as acoustic rating, burglar resistance or fire rating to match your exact requirements.

DIMENSIONS

Door thickness = 75 or 100 mm.

Every door is bespoke, the dimensions can be adapted within the limit to suit the construction requirements exactly. Single Max width = 1435mm Max. height = 3010mm. Double Max width = 2905 mm Max. height = 3010 mm.

BALLISTIC RESISTANCE

The ballistic resistance has been tested in accordance with the EN 1522-1 class FB4 NS standard, area 1. Weld resistance tested to CE EN 1435-1-1

In addition to this class, the doors are tested using the following missiles: NP (new police bullet) [A3 action 3] Action effect | Ball syntox (DM41)

the potential for ricochet coverage and excellent sound insulation and fire resistance.



SPECS)

COMPOSITION

Ballistidor is double-walled and cast in electrolytic galvanised steel sheets in various thickness's. The interior of the door contains insulation appropriate for the door's specific application.

FINISHING

The standard finish for the door and frame is a 2-component primer, with optional lacquering in a colour of your choice.

FITTINGS

Doors can be fitted with: BKS door lock, type 1206 | Anti-panic lock with pushbar | Door limiter/door spring | Espagnolette lock | Day and night locks

SOUND INSULATION

Rw = 56dB (EN ISO 140-3)

BURGLAR PROOFING RC2 AND RC3 (EN 1627)

FIRE RESISTANCE

60 (EN 1634 -1)

ESCAPE EN 179 / EN 1125



BLASTDOR | Explosion resistant steel door





FIRE RATING 2 Hours	WEIGHT Single Door 175Kg
DOOR LEAF PLATE THICKNESS	Double Door 315Kg
2mm	SOUND REDUCTION
DOOR LEAF TOTAL THICKNESS	Rw 37-45dB
80mm thickness	GAS TIGHTNESS
FRAME	0.07m ³ /m ² h @50Pa
4mm	THERMAL INSULATION
HINGES	$U = 0.8 W / m^2 K$
Continuous Hinge	CLEAR OPENING
	Single door 900 x 2100
LATCH 1 Point	Double door 1800 x 2100
1 POINt	BLAST RESISTANCE
	From 0.1 bar up to 2.0 ba



Blastdor is a heavy duty, external weather and gas tight fire door that is specifically designed for applications and industries where there is risk of explosion.

application.

EXPLOSION RESISTANT STEEL DOOR

These tough doors can be operated manually, electrically or pneumatically and they come in a range of finishes. If needed, they can be manufactured to an exact specification. With upgrades and customisation to the materials and structure of the doors. Blastdor can be made to suit your specific

FM security tested and supplied as single or double leaf doorsets, Blastdor is reinforced for a continuous hinge, door closer and an optional panic bar.



Maximum size single door set 900 x 2100mm

Maximum size double door set 1800mm x 2100mm

CLIMADOR | Thermally rated steel door







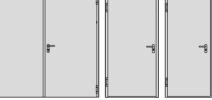
SPECS

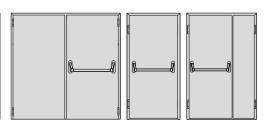
doors.

public or residential projects.

hardware for fire exits.

Security Astragal to three sides of the leaf Heavy duty self-closing hinge Anti-jemmy studs Low profile threshold Integrated rubber seal to all four sides of the frame 63mm Double skin door leaf with Rockwool core 108mm single rebated 2.0mm thick door frame U Value: 1.4W/m².K





THERMALLY RATED STEEL DOOR

Climador has an exceptionally low U-value of as little as 1.4W/ m².K and has been added to the Strongdor range to address the growing demand for thermally proficient, insulated steel

Made from galvanised sheet steel, Climador comes in double or single leaf configurations and is ideally suited to internal or external applications for commercial, industrial,

Climador has a unique rebate gasket made from EPDM rubber, that sits around both the frame and threshold, giving the door-set excellent resistance to both wind and water. Standard door hardware consists of a single mortice lever handle and cylinder lock with three keys.

Options on the range also include: Two hour fire rating, anti-burglary locks, electro-magnetic strikes and panic



Maximum size single door set 1360 x 2550mm

Maximum size double door set 2640mm x 2550mm



ATAKDOR | Retail application case study



When a well known retail chain went into liquidation, some prime city centre sites became vacant. One such site, at Gallowtree Gate in the centre of Leicester. was snapped up by the Sports Direct group. It has since been developed as a high street presence for its flagship Flannels and USC stores.

These quality retail stores specialise in premium, designer brands whose desirability and price make them targets for gangs of highly organised, professional criminals

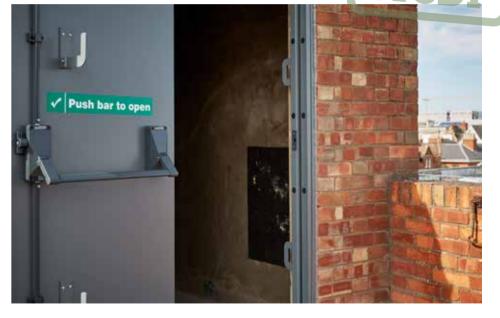
Working in close association with Sports Direct and shutter specialist, Strongdor developed the Atakdor range specifically to protect retail outlets from this type of aggressive penetration.

A combination of Leafshield and Atakcore technologies have been used to deter rapid breech of the doors by heavy abrasive disk power tools and Stihl saws.

For extra security, the standard door configuration comes with internal steel drop bars and the Exidor 700 series furniture. With several projects already completed and others new and existing sites in the pipeline, Atakdor is already proving its worth

ATTACK RESISTANT STEEL DOOR





FLANNELS RETAIL STORE LEICESTER-CASE

DOORBOOK TRADE | ATAKDOR | Attack resistant steel door 75



Part of a £5 million plan to bring more business to the south side of the North West resort, Enterprise Court is the latest development in the Blackpool Enterprise Zone, situated on Amy Johnson Way.

Funded entirely by private sector investment and consisting of small offices and workshops, the development will initially comprise of 12 units. The plan is to increase capacity to 50 units with potential for further expansion in the future.

The entire scheme could create as many as 3,000 jobs in an area that was effected by the closure of the airport. The distinctive Steeldor personnel



BESPOKE STEEL DOOR

ENTERPRISE COURT BLACKPOOL

doors, that were selected for the units. feature a glazed over-panel. It is used in combination with the full height windows to add supplementary light to the offices. With enquiries already coming in for the new units, it seems that the sun is shining on a venture which has already transformed this part of the seaside town.







BESPOKE STEEL DOOR

KIRKBY STEPHEN BUSINESS PARK

Kirkby Stephen Business Park is the brainchild of two local farmers, who pooled their energy, investment and resources to build new, bright, modern units for local businesses.

The Park, which enjoys wonderful views of the Pennine Hills and surrounding countryside, is close to the centre of the Cumbrian market town Nestled between the Lake District, the Yorkshire Dales, those who work and play in Kirkby Stephen are no strangers to the outstanding natural beauty that surrounds them.

While the area around the site may be idyllic, the northern weather can sometimes be a little more challenging and the choice of doors had to balance the security needs of the occupants, the demands of the local environment and yet still be sympathetic to the beautiful local stonework used in the construction of the units.



With the next phase of the popular development due to open, there has already been plenty of interest in the site, which already houses a diverse range of tenants from IT consultants to a unique furniture producer that sources its timber from the surrounding farms.





The future looked bleak for a fire-engulfed net repair factory on the small island of Scalpay, as a massive blaze took hold of the facility and the roof looked in danger of collapse. High pressure hoses were used to douse the conflagration.

Opened in 2008, the factory employed 14 staff and had been used to clean, repair and apply treatment to salmon farming nets. The Norwegian owned operators of the Net Services Scotland site faced an uphill struggle to get the site back up and running again. Twelve months on and a new facility has risen from the ashes of the old. Strongdor got involved with the project through the Inverness based A J Engineering and Construction Services. Subsequently being asked to supply single and double steel door-sets for the new build.

Powder coated in a very noticeable tomato red, the single and double Steeldors' have been used both internally and externally. Some contain louvres to increase airflow, while others have been fitted with circular vision panels, reminiscent of a ship's porthole. All bespoke, the doors were supplied with hardware, plus the

BESPOKE STEEL DOOR NET SERVICES ISLE OF SCALPAY



fixing kits and adjust-2-fit frames, which are standard for the range.

The doors should be right at home here on Scalpay, an island with history, industry, character and community. They are as rugged as the local scenery and as tough as the fishermen that use the nets to trawl the Scottish waters, like them our doors are made to perform regardless of the elements. Securing and protecting this new factory for the future.





Situated to the North West of Lincoln. Riverside Enterprise Park is a 5.8 acre (2.3 hectare) development, just five miles from Lincoln City Centre and close to the village of Saxilby.

The site comprises of both new build units and existing portal frame buildings, which are stripped back before being re-clad and refurbished to a very high standard.

Visible from the A57 trunk road the Park has been created by Stirlin Developments, to provide premises for both local and national businesses wishing to establish a foothold in this agricultural heartland

Based in Lincoln, Stirlin is a growing company that is involved in both residential and commercial building work. For the Riverside site, they mainly specified doors from the Fastdor+ range, based on its quality, ease of fitting and excellent pricing.

With the first units now occupied and pre-sales of £1.8 million for floorspaces starting from 190m², the first phase of the Enterprise Park is proving to be a huge success. So much so, that work on a second phase is already underway.

BESPOKE STEEL DOOR PARKSIDE ENTERPRISE PARK LINCOLN



DOORBOOK TRADE | STEELDOR | Bespoke steel door 83





In 1872, when Giovanni Battista Pirelli set up his elastic rubber company in Milan, he could scarce be aware that from its humble origin, the business would go on to become the fifth largest global tyre manufacturing company after Bridgestone, Michelin, Continental and Goodyear.

Now Pirelli manufactures tyres in 19 factories based in 13 countries worldwide. with two of the factories are based in the UK. One is at Burton-on-Trent and the other is at Dalton Road in Carlisle.

The Carlisle factory opened in 1969 for the supply of tyres to large car manufacturers. Working shifts, it currently operates 24 hours a day and up to 354 days a year, directly employing over 850 people and supporting over 3,000 estimated supply jobs. The continuing success of the brand is important to the prosperity of the local economy.

Facilities management for such a largescale manufacturing operation will always require a lot of planning, resources and administration. Strongdor have worked with Story Contracting in helping with the supply of new and replacement doors

BESPOKE STEEL DOOR PIRELLI FACTORY CARLISLE CUMBRIA



across the site.

Fire exit and personnel doors selected from the Steeldor range have been installed in both single and double door versions. These bespoke doors incorporate security astragals, anti-jemmy studs, low profile DDA approved thresholds, weather seals and easy-2-fit sides. All had been fitted with standard hardware, some with vision panels, but commonly they were all powder coated in the distinctive Verona green livery.

Recent reports showed that both turnover and profits are growing for Pirelli's UK based subsidiary and, as suppliers to prestigious car manufacturers, continued strong sales and good performance are predicted for the future. All of which is good news for Pirelli, good news for Cumbria and good news for their suppliers too.



FIREDOR | Public sector application case study





BESPOKE FIRE-RATED STEEL DOOR THORNLEIGH COLLEGE BOLTON

For most public sector projects, reliability and resilience are key considerations when specifying and selecting replacement doors, and it was no different for Thornleigh Salesian College in Bolton. With a small window of opportunity and a real need to minimise disruption, all work had to be completed within a tight

deadline. This is a high traffic environment, with sustained and prolonged use from over 1.500 students and teachers, that required doors that would perform perfectly, time and time again.

Also, as you would expect, for safety sake the doors had to meet all accreditation for build quality and fire rating. The fire- rated Firedor Series met all requirements and Strongdor ensured that the project was delivered on time and in

budget for the start of the new term.





One of the world's largest battery storage facilities is taking shape on the site of the former power station at Roosecote, near Barrow in Cumbria. Commissioned by Centrica, as part of a £180m investment programme to develop new, flexible power plants across the country, the Roosecote battery storage facility is a state of the art project that will store energy harvested from the grid until needed.

When the facility comes online it will boast the capacity to generate a staggering 49MW. That's enough electricity to power around 50,000 homes at a very nimble response time of less than a second. Containing 100,000 battery cells, it marks a new era for the energy industry.

Centrica have been working alongside main contractors Younicos, Morrison Utility Services and steel building specialists Robinsons to breathe life back into the old Roosecote site, to ensure stability of power supply to local homes and businesses.

The building itself is protected by Strongdor's Securidor range of security doors. Manufactured to a rigorous level 2 security specification, they are furnished with Exidor 700 Series hardware. These

SECURITY RATED STEEL DOOR



substantial, impressive over-sized double and single door-sets have been used on all exterior aspects of the facility. Most have been fitted with removable over panels, to enable easy access for the installation and removal of specialist electrical equipment that can weigh in excess of 7 tons. Sat in the shadow of the nearby

Rampside Gas Terminal, this modern construction demonstrates the progress



ROOSECOTE BATTERY STORAGE FACILITY

made in energy production and supply since the first, coal-fired power station began producing energy on the site in 1954. Subsequently replaced by a gas fired installation in 1991, the Roosecote battery storage facility is now poised to bring cleaner, greener energy for future generations and Strongdor are very grateful have played a very small part in that very big project.



GLASSDOR | Public sector application case study





Based in Bristol, Knowle DGE Learning Centre is a vibrant and aspirational learning community for young people with additional educational needs. The ethos of the centre revealed within its name. Discovery, Guidance and Enjoyment. Formerly known as the Florence Brown School, the centre moved to its current. purpose-built site in the summer of 2010. Constructed under Building Schools for the Future programme, the school typically has a roll of about 150 students who benefit from the high staff ratios and superb

facilities

Working with Gemsec, the Bristol based security specialists, Strongdor supplied products from both the Steeldor and Glassdor ranges. Installed across the site in a recent refurbishment, the doors had been chosen for their durability in what can be a high traffic, demanding environment.



Operating within the narrow timeframe of the summer break, it was essential that the doors where made and delivered on schedule and, importantly for the public sector, within budget.

ACOUSTIDOR | Faith sector application case study



When the last remaining building of Birmingham's first gas works was bought by the Church of England, they were aware that, when newly constructed in 1818, its main function was the supply of gas to illuminate the dark streets. Now redeveloped into a vibrant church named St. Luke's. Gas Street it offers a different kind of light to the people of the city.

In its new role, the former Gas Retort House now has a growing congregation of over 300, mainly comprising of young people and students, who are led by The Revd. Tim Hughes, his wife Rachel and a dynamic team who are committed to making positive impact on Broad Street and the wider area.

This unique building, with a striking curved roof, supported by cast iron trusses and wrought iron rods, makes its own impact on the surroundings. With lightweight, reversible interior structures, the redevelopment of the site is sympathetic to the buildings industrial architecture.

Strongdor worked with local contractors COS Shopfronts, supplying the project with three Acoustidor single fire exit

ST. LUKE'S

doors. Acoustically rated to 42dB, these doors also included security astragals and low profile DDA approved thresholds. The black powder coating, complementing the existing substantial iron work.



ACOUSTICALLY RATED STEEL DOOR

BIRMINGHAM



The old gas street-lights may have long been extinguished, but with a new community and purpose, the future is looking bright for St Luke's.

Overview

INTRODUCTION

Maintaining the good looks of your powder coated products is just like caring for your car – and is a smart way to protect your investment. Over time with exposure to the elements, powder coatings may show signs of weathering such as loss of gloss, chalking and slight colour change. A simple regular clean will minimise the effects of weathering and will remove dirt, grime and other build-up detrimental to all powder coatings.

For any particular region or territory, there may be local regulations or local requirements to be met in order to achieve conformance to certain published quality labels or standards. It is the users' responsibility to be aware of such standards.

Records of all cleaning schedules and frequencies shall be kept and maintained and made available to AkzoNobel if requested. Failure to comply with the recommended cleaning schedule will nullify any warranties.

CLEANING COATED SURFACES

Cleaning should start at the time the products are installed, ensuring that construction materials such as concrete, plaster and paint splashes are removed before they have a chance to dry. Failure to remove these materials at this early stage will require the use of aggressive cleaning materials and techniques with potential damage to the powder coated surface.

METHOD

The best method of cleaning of Interpon D products is by regular washing of the coating using a solution of warm water and non-abrasive, pH neutral detergent solution. Surfaces should be thoroughly rinsed after cleaning to remove all residues. All surfaces should be cleaned using a soft cloth or sponge or nothing harsher than a soft natural bristle brush. Cleaning of powder coated sections can be conveniently carried out at the same time as window cleaning.

If the project is subject to any hazardous unusual environmental factors, or is close to salt water, an estuary or marine environments then Akzo Nobel must be consulted on an individual project basis. Renovation can be required in the case of heavy soiling (due to lack of maintenance). It is then recommended to consult a specialized company.

CLEANING PRODUCTS

Before cleaning, attention must, without exception be paid to the cleaning agent's datasheet.

The following guideline from GRM in Germany is also very useful and informative: and the applicable guidelines of the various associations:

http://grm-online.de/fileadmin/user_upload/ pdf/Neue_GPB/GPB_632_DB_Englisch.pdf

Usual maintenance can be done using water with mild detergent (pH 5 to 8).

If the atmospheric pollution has resulted in heavy soiling of the coating, some stains or marks may require stronger domestic products. In such cases, they should always be diluted, and small inconspicuous test areas cleaned first.

In no circumstance should any abrasive cleaner or polish, or any cleaner containing ketones, esters be used.

Frequency

The frequency of such cleaning will depend on many factors including:

- The geographical location of the building
- The environment surrounding the building, i.e., marine, swimming pool, industrial, or a combination of these environments
- Levels of atmospheric pollution
- Prevailing wind
- Protection of the building by other buildings
- Possibility of airborne debris (e.g., sand/ dust etc.) causing erosive wear of the coating
- If the environmental circumstances change during the lifetime of the building (e.g., rural becomes industrial)
- The powder coating chemistry, for example:
- Standard polyester (Interpon D1000 type) – most regular cleaning

The frequency of cleaning depends in part on the standard of appearance that is required and also the requirements to remove deposits, which could, during prolonged contact with either the powder film or the metal substrate, (if exposed) cause damage.

Sheltered areas can be more at risk of coating degradation than exposed areas. This is because wind-blown salt and other pollutants may adhere to the surface and will not be

CLIMATE		TEMPERATE AND ARID
Environment		D1000 Series
Normal - C3 Inland		12 months
Marine - C4 Coastal	2000 to 5000m from coastline	12 months
	500 to 2000m from coastline	6 months
	50 to 500m from coastline	3 months
	Less than 50m from coastline	Not recommended
Industrial -C5i Coastal	2000 to 5000m from pollution source	12 months
	500 to 2000m from pollution source	6 months
	50 to 500m from pollution source	3 months
	Less than 50m from pollution source	Not recommended
Swimming Pool	Greater than 2m from edge of pool	3 months
	2m from edge of pool	Not recommended

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cleaned away with rainfall. These areas should be inspected and cleaned if necessary on a more regular basis.

Records of all cleaning schedules and frequencies shall be kept and maintained and made available to Akzo Nobel if requested.

The manufacturers cleaning frequency specifications are shown below:

POWDER COATING | Cleaning and maintenance schedule

TYPE OF CLIMATE	TEMPERATURE RANGE	HIGHEST TEMPERATURE WITH RH ≥95%
Temperature	-33°C to 35°C	25°C
Arid	-	-
Warm Arid	-20°C to 40°C	27°C
Extremely Warm Arid	3°C to 55°C	28°C
Tropical	5°C to 40°C	33°C

Note for more detailed definitions of environment and climate please refer to ISO9223

Cleaning of brick and concrete

CHEMICAL CLEANERS

The cleaning solutions used on both brick and concrete contain strong chemicals that can cause damage to the powder-coated surface. All exposed powder-coated surfaces should be fully protected.

If any such solutions or chemicals come in contact with the powder-coated surface, wash immediately with copious amounts of water.

Prolonged exposure can cause discolouration of the film, loss of gloss and damage to the coating surface.

ABRASIVE BLASTING

The cleaning of concrete or brick by using abrasive shot blasting must be carried out in such a way that all structures coated with powder coating must be fully protected.

The abrasive medium will strip the powder coating from the metal substrate.

Only protective tape with a low tack and approved by the suppliers of the protective tape for use on Powder Coatings should be used

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Protection of Coated **Parts During Construction**

LOW TACK TAPES

Such tapes are usually applied to the coated surface during fabrication. Clear tapes should be removed after a period not exceeding three months. If further protection is required new tape should be applied. Tape should be applied and removed as recommended by the tape supplier.

Any residue from the tape should be removed as soon as possible.

Do not use scrapers, abrasive papers or similar items to clean the area as this may damage the surface of the powder coating.

Water and a small amount of mild detergent may be used to clean the surface of the powder coating.

Where it is absolutely necessary a small amount of white spirit may be used followed by cleaning with water and mild detergent.

Do not under any circumstances use strong solvents or solutions containing:

- Chlorinated Hydrocarbons
- Esters
- Ketones
- Abrasive cleaner or polish

PLASTIC WRAPPING

Coated parts are often shrink-wrapped in plastic to prevent weather or mechanical damage during transport and storage. The atmosphere within the packaging naturally contains moisture reflecting the humidity levels prevalent at the time of packing. If the wrapped parts are kept outside in sunlight. rapid temperature build-up can occur resulting in a softening of the coating film and potential for ingress by moisture, creating a whitening effect of the blanching. This can be reversed on further heating of the part, but is best avoided by storing parts out of direct sunlight.

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This schedule contains important information regarding the care and cleaning of our steel door's powder coating.

Failure to maintain the schedule may effect any warranty.





Following quality and pricing, the questions most regularly asked of our sales team concern the product guarantees on our steel doors.

The frequency of these enquiries prompted us to look at the whole customer service side of our operation.

With more changes to come in after sales care in the near future we decided that the most pressing need was the clarification and publication of our quarantee.

For the first time, our revised five year guarantee is published here. We hope that it will give you increased confidence when you order a steel door from us, but if you have any specific enquiries, then we would be pleased to hear from you.

Character Character

...when we do, we construct more than steel doors, we build your confidence in our product and services and increase the chances that you will tell others about us and buy from us again (and again).

At the same time, we recognise that, despite all the best efforts, sometimes things do go wrong and when that happens it is in everyone's best interest to reach a satisfactory resolution to the problem as quickly as possible with a minimum amount of fuss. Part of that resolution is an understanding, in simple terms, of what you can expect from the Strongdor Guarantee.

WHAT DOES A STRONGDOR GUARANTEE COVER?

Our guarantee covers the repair or replacement (at our discretion) of your door if it is found to be defective due to faulty materials or workmanship within the guarantee period. If any part is no longer available, we will replace it with a functional replacement part.

WHAT ISN'T COVERED BY THE GUARANTEE?

All our doors are engineered and constructed for continual high performance. If it is being used for the purpose and frequency for which it was designed and develops a fault within the guarantee period, it's our responsibility to repair or replace it.

There are, however, some circumstances in which a guarantee doesn't cover the repair or replacement of a door. These instances are not hidden in the small print.

HERE'S WHAT IS NOT COVERED:

- X Any door set with an incomplete or missing maintenance report.
- X Normal wear and tear, including parts that might wear out over time.
- X Anti-rust warranty in a saline environment unless finished to marine grade.

ACCIDENTAL DAMAGE

- Damage caused by improper fitting or fitting not in accordance with our recommended auidelines.
- Damage as a result of use not in accordance with the original specification.
- Damage caused by not carrying out the recommended routine maintenance.
- Damage from external sources such as transit and weather.
- X Failures caused by circumstances outside of Strongdor's control.

FAULTS CAUSED BY:

- Negligent use, misuse, neglect or careless operation:
- Use which is not in accordance with the Operating Manual:

- Use of parts not assembled or installed in accordance with Strongdor's approval.
- Use of parts and accessories which are not approved by Strongdor
- Faulty assembly or installation.
- Repairs or alterations carried out by parties other than Strongdor or its authorised agents.

If you have any questions about what a Strongdor guarantee covers, we'll be happy to help. You can call us on 01524 727000.

WHAT ARE THE TERMS AND CONDITIONS **OF THE GUARANTEE?**

The terms and conditions of this guarantee are as follows:

- The guarantee becomes effective at the date of registration of the door. Doors must be registered within 6 weeks of dispatch from Stronador.
- Doors must be maintained in accordance with the instruction manual and all maintenance records kept.
- You must provide proof of purchase before any work can be carried out on your door under the guarantee.
- Please note that without this proof any work carried out will be chargeable. Please keep your purchase receipt or delivery note.
- All work will be carried out by Strongdor Limited or its authorised agents.

- Any parts which are replaced will become the property of Strongdor Limited.
- The repair or replacement of your door under guarantee will not extend the period of the quarantee.
- The guarantee provides benefits which are additional to and do not affect your statutory rights as a consumer.

If you have any questions, you can call us on 01524 727000.

WHEN DOES THE **GUARANTEE BECOME EFFECTIVE?**

The guarantee becomes effective from the date of registration. You can register your door here:

www.strongdor.com/customer-services/ product-registration/

WHERE IS THE GUARANTEE VALID?

The guarantees cover normal usage of your door in the United Kingdom. If you need any advice, please call us on 01524 727000.

IS THIS GUARANTEE TRANSFERABLE?

Guarantees are transferable with the door. provided the original proof of purchase is supplied, together with evidence of any change of ownership of the door, confirming that the door was in good working order when the change of ownership took place.





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