



Metador

**Made of
stronger
stuff.**



Who we are.

Metador didn't set out to shake-up the industry, but since 2004 that's what we've been doing. Our success is built around the belief that things can always be improved.

When we started our business, we fitted doors made by other manufacturers, which gave us a great understanding of what works and what doesn't.

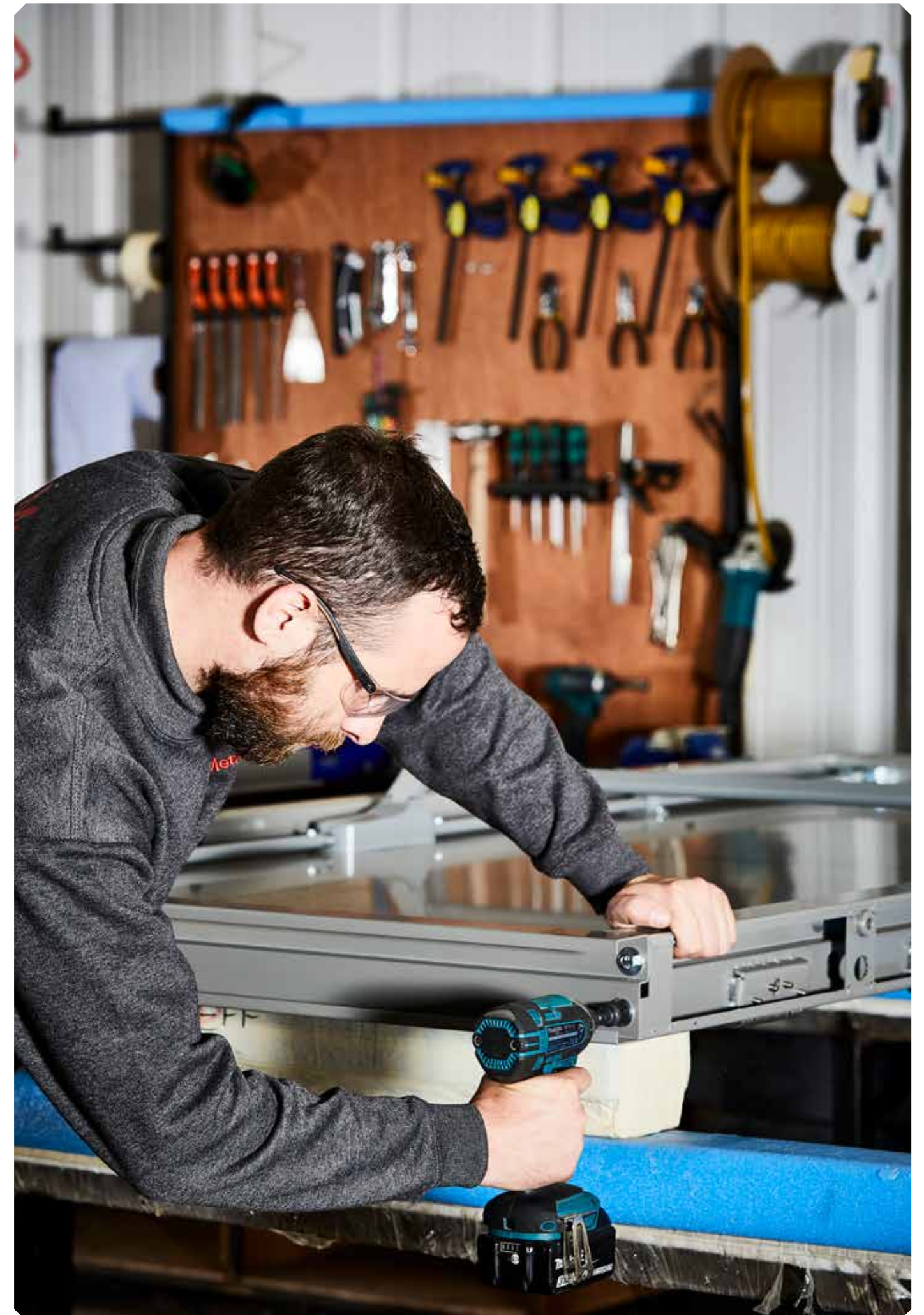
However, we soon realised that no doorset on the market lived up to our exacting standards, so we designed one that did.

We made the frame stronger by bolting the corner fixings, we dramatically improved the insulation with a rockwool core. We think most standard steel skins are not secure enough, which is why we made ours even stronger.

Our Defender range is the result.



 **Manufactured in Britain.**



We believe in always raising the bar, so if we can see a way to make our service more straightforward and hassle free, or to make our product stronger and more secure ...then that's what we do.

bar

Raising the

**Stronger
as standard.**

The specifications speak for themselves: Our thicker steel leaf skins make our doors 56% stronger than our competitors' standard doorset.

56%

Attention to detail.

Our doorsets aren't just stronger, they're built to withstand the toughest environments.

Bolted corner fixings guarantee that our frames stay as solid as the day they're fitted.

Our 2mm Stainless Steel thresholds are bolted to the frame and are accessibility compliant.

When it comes to insulation, our rockwool core ensures a higher thermal efficiency.

Flexible, collaborative design.

We don't do "off the shelf" standard solutions. We know every build is different and every customer can have unique needs. That's why we're here to work with you.

We are collaborative experts, so when you're looking for a little technical insight, our dedicated design team are always ready to offer some words of wisdom direct from the workshop.

No question is too big or too small, and if it matters to you then it's important to us.

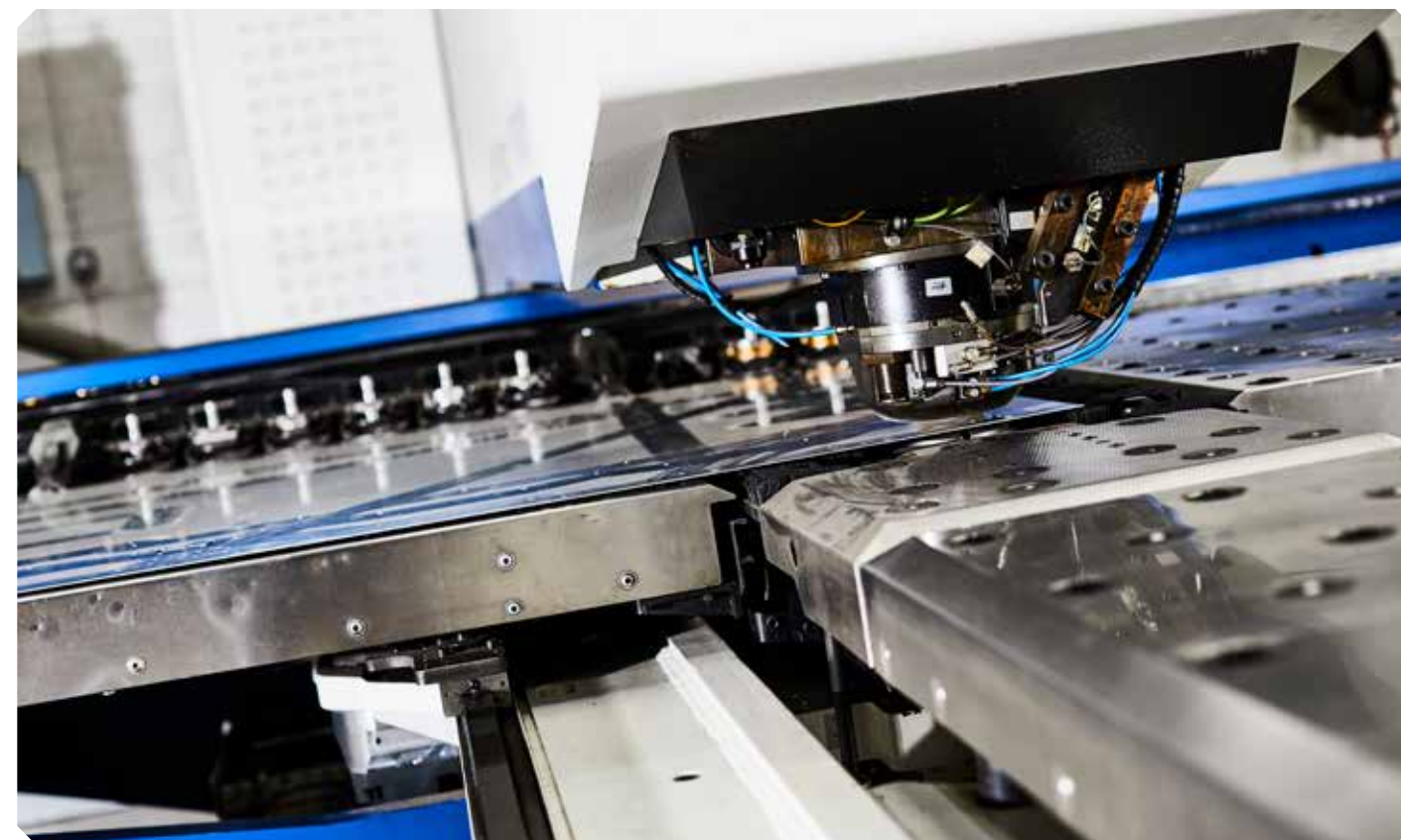
1.5mm

steel

Solid steel doors, solid gold service.

A strong product is only one part of the picture. In a time sensitive and often pressurised sector, our service needs to be just as solid, if not better.

We are helpful, proactive communicators; actively and efficiently keeping you in the loop from beginning to end and beyond. Your suppliers should be there to lighten the load, not add to it - that's why we aim to deliver five-star customer support.



HIGH SECURITY

Defender Safeguard

For security locations and environments. For Commercial and Industrial Environments, Retail, Leisure, and Education Establishments.

The Defender Safeguard doorset is manufactured from 1.5mm galvanised steel and internal steel strengthening as standard. Frames are 2mm galvanised steel and have 2mm stainless steel thresholds making the Defender Safeguard a longer lasting, stronger door.

Bolted corners give rigidity and threaded fixing adjusters make it quick and easy to fit. This makes the Defender Safeguard a exception in the marketplace.

Door Leaf

Manufactured from two 1.5mm Galvanised steel skins, folded and mechanically fixed to form a strong and rigid 45mm thick door leaf. Filled with mineral wool and internal steel strengtheners for the ultimate insulation. Anti-jemmy flanges to the leading edge of the leaf also provide excellent jemmy resistance.

Frame

90mm frames are pressed from 2mm Galvanised steel to form a single rebated profile. Profiled headers form a smooth butt joint with the vertical posts and are joined together utilising strong M8 bolts to provide positive rigidity. The special fast fit frame is able to compensate for most irregularities in the opening with 16no threaded fixing adjusters per doorset. They permit a tolerance of up to 18mm on each side of the door so shims and packers are not necessary, making an extremely secure fix. Frames can also be insulated if required.

Thresholds

Accessibility compliant 2mm stainless steel threshold, bolted into the vertical frame posts and is available in outward opening, inward opening and ramped.

Over Panels/Side Panels

Over panels and side panels can be incorporated, both fixed and removable for maximum access. Panels can be single or double glazed, solid to match the door leaf, or louvred.

Seal

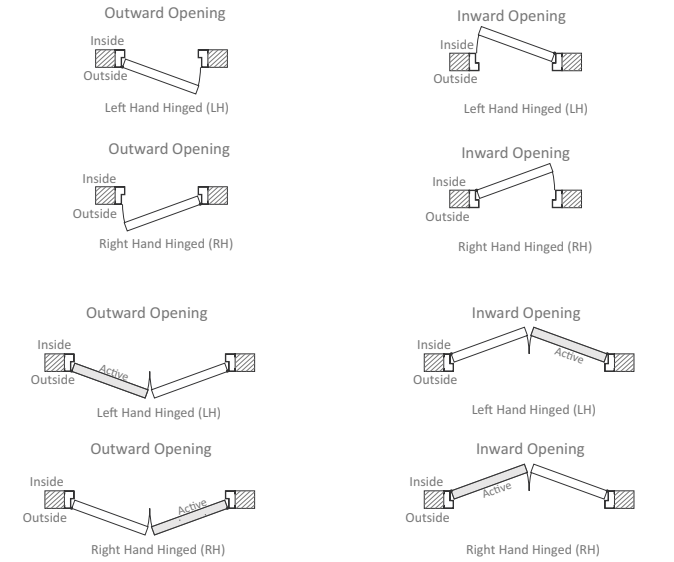
For optimum weather, thermal and acoustic performance, a tubular silicone/rubber is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K**
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓
** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.			

Hardware

Door leaves are hung from 4no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Additional hardware includes a range of locks, latches, lever handles, panic hardware, closers and stays. On double doors, lever-action flush bolts can be installed within the leading edge of the inactive door leaf.

Structural opening sizes (mm)*		
	Max width	Max height
Single leaf	1470	2960
Double leaf	2800	2960
* For oversized doors, please enquire.		



Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K**
Internal Use	✓	External Use	✗
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓
** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.			

The Defender Fireshield doorset has been successfully tested at Exova Warrington Fire to BS EN 1634-1:2008 in January 2014, Test No: WF336507. Available with many ironmongery combinations and glazed options.

The test reference WF Test No. 336507 was performed on a specimen of a double leaf doorset incorporating unlatched door leaves. The doorset had overall dimensions of 1760mm wide by 2090mm high and incorporated two door leaves. An astragal was included to the meeting stiles.

Door Leaf

Manufactured from two 1.5mm galvanised steel skins, folded and mechanically fixed to form a strong and rigid 45mm thick door leaf, filled with internal steel strengtheners and mineral wool for ultimate insulation. Anti-jemmy flanges to the leading edge of the leaf provide excellent jemmy resistance.

Frame

90mm frames are pressed from 2mm galvanised steel to form a single rebated profile. Profiled headers form a smooth butt joint with the vertical posts and are joined together utilising strong M8 bolts to provide positive rigidity. The special fast fit frame is able to compensate for most irregularities in the opening with 16no threaded fixing adjusters per doorset. They permit a tolerance of up to 18mm on each side of the door. Shims and packers are not necessary, making an extremely secure fix. Frames can be insulated if required.

Thresholds

Accessibility compliant 2mm stainless steel threshold bolted into the vertical frame posts. Available in outward opening, inward opening and ramped.

Vision Panels and Glazing Systems

The active leaf in fire test WF 336507 included two vision panels with the upper panel having overall dimensions of 203mm wide x 711mm high. And the lower panel 203mm wide x 508mm high. This test demonstrated that the inclusion of vision panels will not be detrimental to a fire performance of unlatched door leaves for a period of up to 240 minutes.

For doorsets that are required to have 120 minute fire resistance, the height of the vision panel can be increased by 15% and the maximum area to be increased by 20%. The maximum

FIRE RATED

Defender Fireshield

The 4-hour fire-rated internal doorset. For Commercial and Industrial Environments, Retail, Leisure, and Education Establishments.

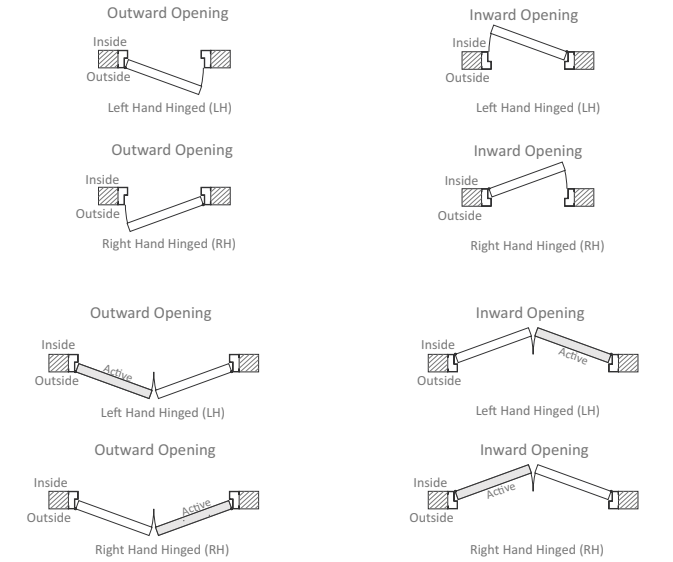
permitted vision panel dimensions are 818mm high or 416mm wide, subject to a maximum area of 0.17m².

Seal

For optimum weather, thermal and acoustic performance, a tubular silicone/rubber smoke seal is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

Hardware

Door leaves are hung from 4no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Additional hardware includes a range of locks, latches, lever handles, panic hardware, closers and door restrictors. On double doors, lever-action flush bolts can be installed within the leading edge of the inactive door leaf.





The Defender Fireshield Plus is our bespoke range, that meets the latest requirements for external fire rated doorsets to be CE Marked to EN 16034 in conjunction with BS EN 14351-1.

Our Fireshield Plus range delivers fully compliant fire protection up to 60 minutes, combined with all the benefits of our Defender steel doorsets. With 1.5mm galvanised door skins, a wide range of hardware, easy installation and optional acoustic ratings of up to 52dB.

Door Leaf

Door skins in 1.5mm Galvanised Steel, folded and fabricated to form a rigid and durable leaf.

Frame

Frames are provided with multiple fixing points for secure installation.

Fire Rating

E30 and E60 ratings available (fire integrity only) to 30 and 60 minutes.

EI30 and EI60 ratings also available - fire and insulation rated to 30 and 60 minutes.

Threshold

Accessibility compliant low profile threshold supplied as standard.

Hardware

DIN standard locks and lever handle sets, including nightlatch and bathroom variants. Panic hardware in single and multipoint variants, with or without external access devices.

Door closers can be fitted to either side. Door selectors for double doors ensure correct closing sequence. Approved access control options include electric strikes and solenoid locks.

Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K**
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓
** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.			

Acoustic

Various acoustic ratings achievable up to 48 dB (30 minute rated doorsets) and 52 dB (60 minute rated doorsets).

Optional Extras

A range of approved vision panel configurations and air transfer grilles are available.

Structural opening sizes (mm)*		
	Max width	Max height
Single leaf	1365	2790
Double leaf	2590	2790
* For oversized doors, please enquire.		

Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K**
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓
** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.			

PASguard is our range of doorsets which are third party tested to PAS24. Also known as Publicly Available Specification 24, PAS 24 is the preferred specification for enhanced security performance requirements for doorsets and windows in the UK. It sets out the minimum requirements and acceptable test criteria for products to resist attack from opportunistic crime.

Since 2015, Part Q of the Building Regulations has required doors and windows fitted to new dwellings to meet the requirements of PAS24. Whilst this does not currently cover replacement doors and windows, the Defender PASguard is a clear choice to bring security and peace of mind to residents and property owners alike. Tested configurations include single and double doorsets, inward and outward opening. Tested with one toughened glass vision panel 203 x 1473mm (W x H) to each leaf.

Door Leaf

Manufactured from two 1.5mm Galvanised steel skins, folded and mechanically fixed to form a strong and rigid 45mm thick door leaf, filled with internal steel strengtheners and mineral wool for ultimate insulation. Anti-jemmy flanges to the leading edge of the leaf provide excellent jemmy resistance.

Frame

90mm frames are pressed from 2mm Galvanised steel to form a single rebated profile. Profiled headers form a smooth butt joint with the vertical posts and are joined together utilising strong M8 bolts to provide positive rigidity. The special fast fit frame is able to compensate for most irregularities in the opening with 16no threaded fixing adjusters per doorset. They permit a tolerance of up to 18mm on each side of the door. Shims and packers are not necessary making an extremely secure fix. Frames can be insulated if required.

Thresholds

Accessibility compliant 2mm stainless steel threshold bolted into the vertical frame posts. Available in outward opening, inward opening.

	Width	Height
Single leaf	1050	2150
Double leaf	2240	2150

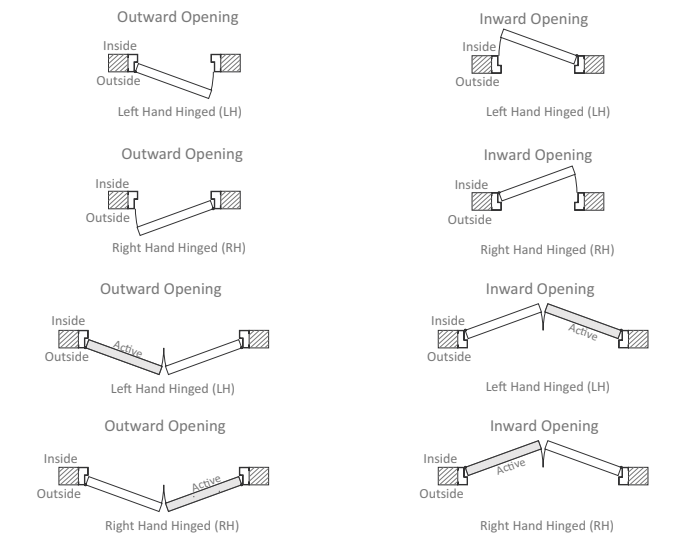


Seal

For optimum weather, thermal and acoustic performance, a tubular silicone/rubber is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

Hardware

Door leaves are hung from 4no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Multipoint locking for personnel access or heavy duty panic exit hardware options are available. Door closers, door viewers and TS008 approved letter plates can all be incorporated.





Door Leaf

Manufactured from two Galvanised steel skins, folded and mechanically fixed to form a strong and rigid door leaf. Filled with mineral wool and internal steel strengtheners for the ultimate insulation. Anti-jemmy flanges to the leading edge of the leaf also provide excellent jemmy resistance.

Frame

Frames are folded from Galvanised steel to form a single rebated profile. Profiled headers form a smooth butt joint with the vertical posts and are joined together utilising various fixing methods. The special fast fit frame is able to compensate for most irregularities in the opening with threaded fixing adjusters so shims and packers are not necessary, making an extremely secure fix.

Thresholds

A DDA compliant threshold fixed to the vertical frame posts is available in an outward opening configuration.

Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	External Use	✓
Internal Use	✓	Louvre Panels	✓
Fast Fit Frame	✓	Mineral wool core	✓
DDA Compliant	✓	Vision Panels*	✓
Single Doorset	✓	Finish: Marine Grade	✓
Double Doorset	✓	Finish: Any RAL/BS standard powder coat	✓
* Not available for Xtreme Level 4			

The Defender Xtreme doorsets are certified up to Level 4 which have been independently tested by LPCB to meet stringent guidelines.

We have a range of high security ironmongery, panic exit bars, louvre panels and vision panels available for these high security Defender Xtreme doorsets.

Over Panels/Side Panels

Solid over panels and side panels can be incorporated as per the table.

Seal

For optimum weather, thermal and acoustic performance, a tubular silicone/rubber is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

Hardware

The hardware includes a range of locks, latches, lever handles, panic hardware, closers and stays. Due to the technical nature of the hardware available, please enquire with one of our technical team.

Certification



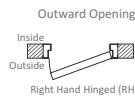
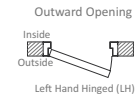
LPS 1175
Cert/LPCB ref. 1284a



LPS 1175
Cert/LPCB ref. 1284b



Official Police Security Initiative



Structural opening sizes (mm)

	Min width	Max width	Min height	Max height	Security Rating	LCPB ref no
Xtreme 1 Single leaf outward opening	750	1300	1800	2210	1	1284a/01
Xtreme 1 Double leaf outward opening	1500	2200	1800	2210	1	1284a/01
Xtreme 1 Single leaf outward opening incl overpanels	750	1300	2290	3210	1	1284a/01
Xtreme 1 Double leaf outward opening incl overpanels	1500	2200	2290	3210	1	1284a/01
Xtreme 2 Single leaf outward opening	750	1300	1800	2200	2	1284a/02
Xtreme 2 Double leaf outward opening	1500	2500	1800	2200	2	1284a/02
Xtreme 2 Single leaf outward opening incl overpanels	7500	1300	2290	3210	2	1284a/02
Xtreme 2 Double leaf outward opening incl overpanels	1500	2200	2290	3210	2	1284a/02
Xtreme 3 Single leaf outward opening	750	1400	1500	3060	3	1284a/03
Xtreme 3 Double leaf outward opening	1500	2510	1500	3060	3	1284a/03
Xtreme 4 Single leaf outward opening	500	1284	1000	2752	4	1284b/01
Xtreme 4 Double leaf outward opening	900	2492	1000	2752	4	1284b/01

Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K*
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓
* based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.			

When ‘stronger than standard’ still isn’t enough, the strengthened hinges and thicker stell of Xtraguard offers the next level in protection and confidence.

Frame

Frames are pressed from galvanised steel to form a single rebated profile. Profiled headers form a smooth butt joint with the full height vertical posts and are joined together utilising strong M8 bolts to provide positive rigidity. The special fast fit frame is able to compensate for most irregularities in the opening with 16no threaded fixing adjusters per doorset. They permit a tolerance of up to 18mm on each side of the door. Shims and packers are not necessary making an extremely secure fix. Frames can be insulated if required.

Thresholds

Accessibility compliant 2mm stainless steel threshold bolted into the vertical frame posts. Available in outward opening, inward opening.

Specification

Defender Xtraguard is available with a wide range of high security ironmongery including panic exit bars. The table below gives some examples of what is available - please ask for further details if necessary.

Level	Door Leaf skins (mm)	Frame (mm)	Core	Hinges	Lockable Access Ironmongery	Exit Ironmongery
2	1.5	2.0	Steel rib & mineral wool	S/S 102x76 Grade 13 Ball Bearing Security	1. High security cylinder 2. High security escutcheons	Exidor 700 Series/ Mico
3	2.0	2.0	Solid timber	S/S 102x76 Grade 13 Ball Bearing Security	Exidor 700 Series/ Mico	Exidor 700 Series/ Mico
4	2.0	2.0	Solid timber	S/S Continuous	Exidor 700 Series/ Mico	Exidor 700 Series/ Mico
5	2.0	2.0	Solid timber & anti-drill plates	S/S Continuous	Exidor 700 Series/ Mico	Exidor 700 Series/ Mico



Seal

For optimum weather and thermal performance, a tubular silicone/rubber seal is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

Hardware

Door leaves are hung from 4no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Multipoint locking for personnel access or heavy duty panic exit hardware options are available. Door closers, door viewers and TS008 approved letter plates can all be incorporated.

Tested sizes (mm)

	Width	Height
Single leaf	1050	2150
Double leaf	2240	2150



The Defender Decorguard incorporates decorative grooves directly rolled into the door skin using the latest CNC technology and advanced tooling.

With our bespoke solution you can choose from various preconfigured designs or get creative and send your ideas to our Design Team who will work with you to create a unique design of your own.

Available in a wide range of security hardware options including electronic locking. Also available as a PAS24 tested doorset.

Ask about our range of special powder coatings which include pearlescent and multi colours, textured finishes, metallic and stone effects for the ultimate designer doorset.

Door Leaf

Created with a customisable shaker cottage style look and manufactured from two 1.5mm Galvanised steel skins, folded and mechanically fixed to form a strong and rigid 45mm thick door leaf, filled with internal steel strengtheners and mineral wool for ultimate insulation.

Frame

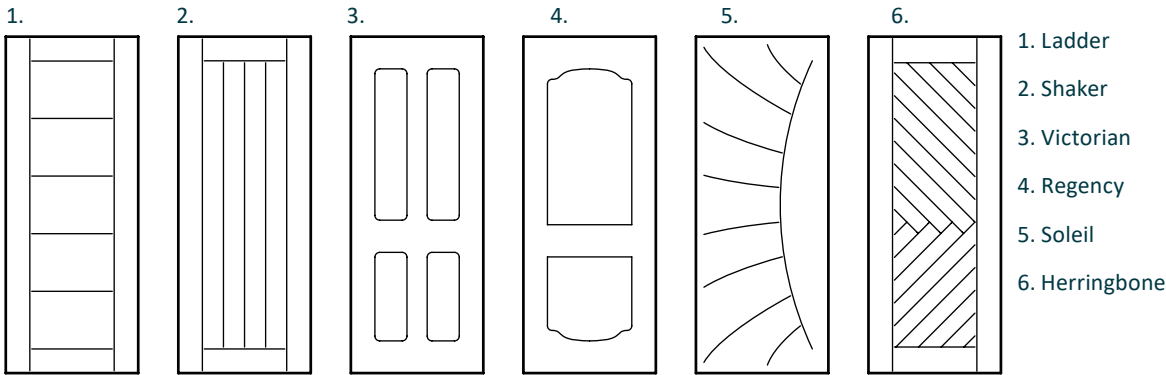
The special fast fit frame is able to compensate for most irregularities in the opening with 16no threaded fixing adjusters per doorset. They permit a tolerance of up to 18mm on each side of the door. As shims and packers are not necessary this creates an extremely secure fix. Frames can be insulated if required.

Thresholds

Accessibility compliant 2mm stainless steel threshold, bolted into the vertical frame posts and is available in outward opening, inward opening and ramped.

Designs

Available in any of these designs or get in touch to see if we can create what you require.



Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K**
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓
** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.			

Over Panels/Side Panels

Over panels and side panels can be incorporated, both fixed and removable for maximum access. Panels can be single or double glazed, solid to match the door leaf, or louvred.

Seal

For optimum weather, thermal and acoustic performance, a tubular silicone/rubber is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

Hardware

Door leaves are hung from 4no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Additional hardware includes a range of locks, latches, lever handles, panic hardware, closers and stays. On double doors, lever-action flush bolts can be installed within the leading edge of the inactive door leaf.

Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K**
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓
** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.			

The Defender Soundguard is designed to reduce sound transmittance for many external and internal applications. It is available in almost any size and is manufactured to suit the customer requirements. It has been designed to block sound up to Rw42dB.

Door Leaf

Manufactured from two 1.5mm galvanised steel skins, folded and mechanically fixed to form a strong and rigid door leaf, filled with a variety of acoustic cores. Anti-jemmy flanges to the leading edge of the leaf provide excellent jemmy resistance.

Frame

90mm frames are pressed from 2mm galvanised steel to form a single rebated profile. Profiled headers form a smooth butt joint with the vertical posts and are joined together utilising strong M8 bolts to provide positive rigidity. The special fast fit frame is able to compensate for most irregularities in the opening with 16no threaded fixing adjusters per doorset. They permit a tolerance of up to 18mm on each side of the door. Shims and packers are not necessary, making an extremely secure fix. Frames can be insulated if required.

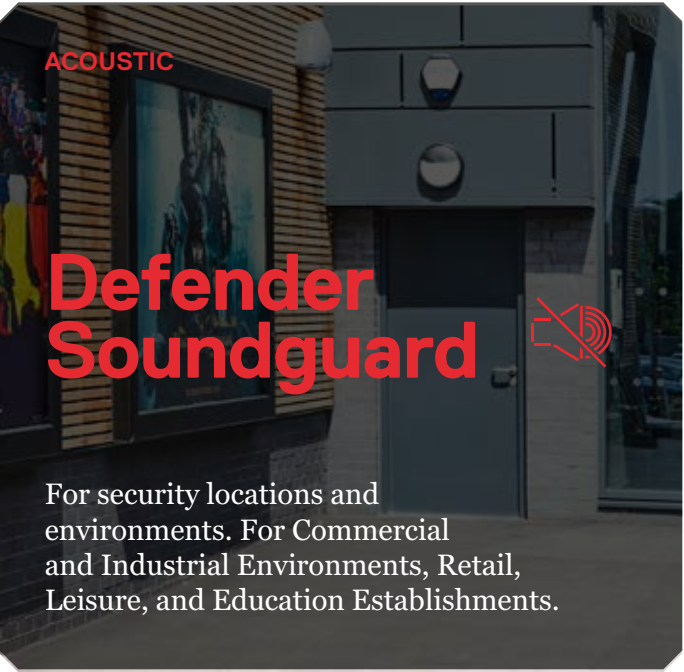
Thresholds

Accessibility compliant 2mm stainless steel threshold bolted into the vertical frame posts. Available in outward opening, inward opening and ramped. An auto drop-seal is added for sound reduction for certain sound levels.

Seal

A variety of different acoustic perimeter seal systems available to meet your sound reduction requirements.

Soundguard Level	Rating (dB)
1	30-32
2	32-38
3	39-42



Hardware

Door leaves are hung from a minimum of 4no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Additional hardware includes a range of locks, latches, lever handles, panic hardware, closers and door restrictors. On double doors, lever-action flush bolts can be installed within the leading edge of the inactive door leaf.

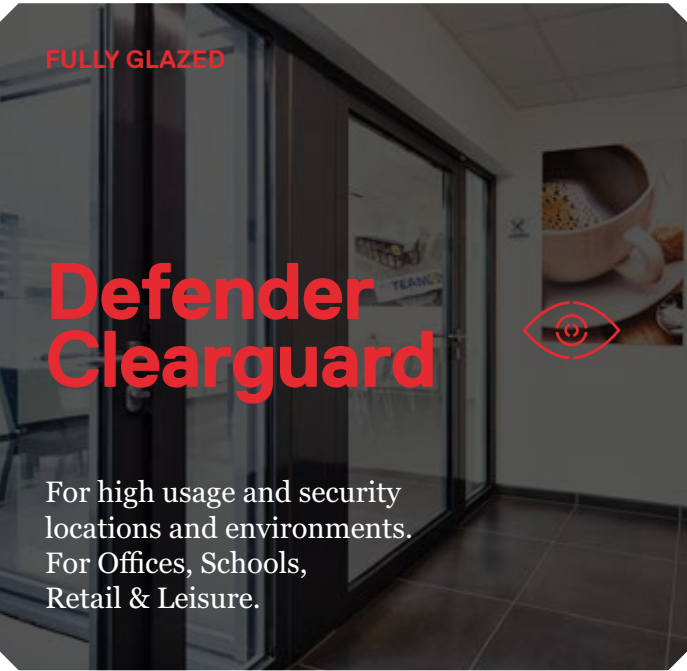
Vision Panels

A full range of vision panels with acoustic glass with varying sound reduction levels.

Acoustic Door Louvres

Varying sizes of acoustic louvres are available. In acoustic tests, our acoustic louvre has achieved a range of values up to Rw32dB.

Structural opening sizes (mm)*		
	Max width	Max height
Single leaf	1470	2960
Double leaf	2800	2960
* For oversized doors, please enquire.		



Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	External Use	✓
Internal Use	✓	Louvre Panels	✓
Fast Fit Frame	✓	Mineral wool core	✓
Single Doorset	✓	Double Doorset	✓
Internal Steel Strengtheners	✓	Finish: Marine Grade	✓
Accessibility Compliant	✓	Finish: Any RAL/BS standard powder coat	✓

The Defender Clearguard is for use in situations when aluminium is just not strong enough or where fire rating is required for a fully glazed system. The steel Defender Clearguard is more secure, stronger and lasts longer than aluminium systems.

For maximum vision from 60mm wide steel profile and ideal for prestigious and high-use locations.

Fire rated to up to 2 hours and/or thermally broken frames give endless possibilities to this impressive door system. We use a clip-in beading system, along with many different types of ironmongery including electric locks. Specified with anti-bandit glazing this product is ideal for high security situations.



Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m²K**
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓

** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.

Our Defender Duopar 2-part frame steel flush internal door system is not only incredibly durable, it will also complement the interior appearance of the building.

Less industrial than a regular steel door and with an appearance closer to that of a timber door, the Duopar doorset combines aesthetics with strength. It has no visible fixings and is finished with a quality, powder coat.

The Duopar 2-part frame door system is designed primarily for interior environments and is guaranteed to make an architectural statement every time. Dependant on your requirements, the Duopar can be used with timber leaves as well as steel leaves.

With the Duopar, you get the same high-quality appearance as traditional timber frames and architraves, yet with the added strength of steel to withstand high usage in heavy traffic areas. This means the doorset is ideal for use in healthcare, retail, office and public buildings.

Frame

Frames are constructed from 2.0mm steel throughout and feature a fully concealed, yet incredibly strong, fixing bracket system. Corners are mitred and retained with a combination of tabs and screwed brackets.

Not only is the door unbelievably simple to fit, the clamp-style frame enables fixing at the final stage of construction, after all wet trades have completed, meaning less opportunity for doors to suffer damage from other trades.

A high-quality push-in perimeter seal completes and adds a touch of finesse - a smooth and silent closing operation and effective seal.

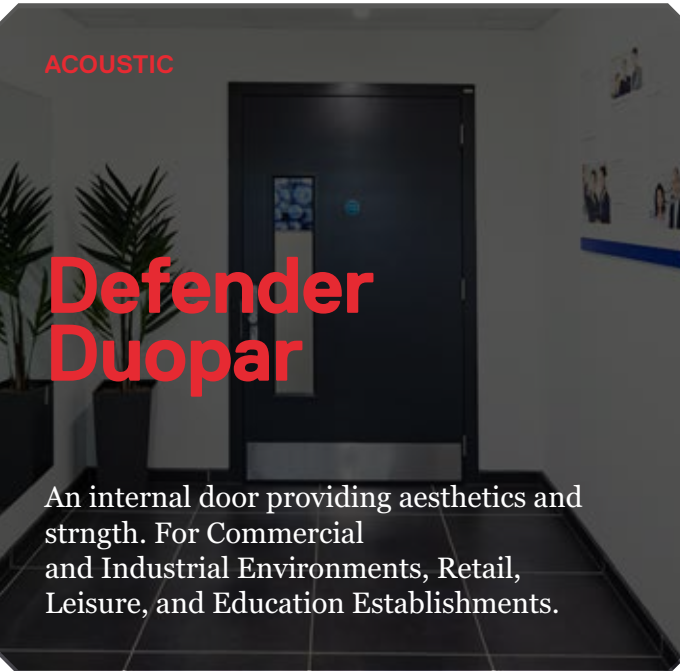
Threshold options are available if required.

Hardware

Door leaves are hung from durable stainless steel hinges for smooth operation. Additional hardware includes a range of locks, latches, lever handles, panic hardware, closers and door restrictors.

Various integrated electronic options are available, including overhead or jamb-mounted electro-magnets, electric-strikes, solenoid bolts and electro-shearlocks.

On double doors, lever-action flush bolts can be installed within the leading edge of the inactive door leaf.



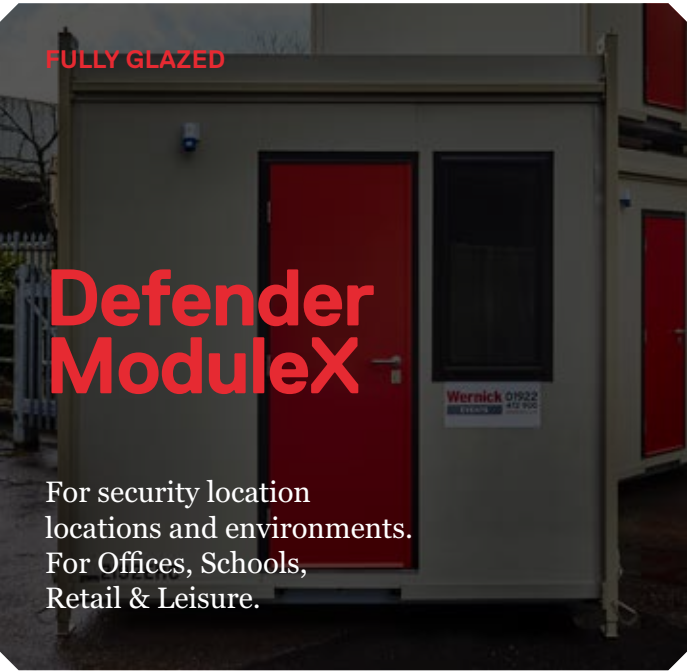
Acoustic Option

An acoustic-rated option is available. Any acoustic rating will require an automatic drop seal to the bottom of the door.

Finish

We also offer an anti-microbial powder coating which is ideal for the healthcare sector.





Personnel Door	✓	Anti Jemmy Flanges	✓
Emergency Exit	✓	Thermal Performance	2.2W/m ² K**
Internal Use	✓	External Use	✓
Fast Fit Frame	✓	Louvre Panels	✓
Single Doorset	✓	Mineral wool core	✓
Double Doorset	✓	Vision Panels	✓
Accessibility Compliant	✓	Finish: Marine Grade	✓
Internal Steel Strengtheners	✓	Finish: Any RAL/BS standard powder coat	✓

*** based on a door size of 1090mm x 2090mm WxH - values may vary slightly depending on size and finished colour of doorset.*



The Defender ModuleX doorset has been designed for the modular building industry to provide an ultimate fast-fitting and cost-effective solution complete with a four-sided cloaking frame.

The Defender ModuleX doorset is manufactured from 1.5mm galvanised steel and internal steel strengthening as standard. Frames are 2mm galvanised steel and have 2mm stainless steel thresholds making the Defender Safeguard a longer lasting, stronger door. The mineral wool core is also more thermally efficient than cardboard honeycomb infill versions.

The unique flange frame design efficiently seals the frame to the building whilst concealing panel cut outs.

Door Leaf

Manufactured from two 1.5mm Galvanised steel skins, folded and mechanically fixed to form a strong and rigid 45mm thick door leaf, filled with internal steel strengtheners and mineral wool for ultimate insulation. Anti-jemmy flanges to the leading edge of the leaf provide excellent jemmy resistance.

Frame

Both 68mm outward opening and 75mm inward opening frames are pressed from 1.5mm galvanised steel to form a single rebated and an in-built cloaking profile. Profile headers form a smooth butt joint with the vertical posts and are joined together utilising strong M8 bolts to provide positive rigidity. Complete with 8 fixing locations per doorset.

Thresholds

Accessibility compliant 1.5mm stainless steel threshold bolted into the vertical frame posts. Available in inward or outward opening with full in-built cloaking to prevent water ingress into the floor of the building.

Seal

For optimum weather, thermal and acoustic performance, a EPDM seal is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

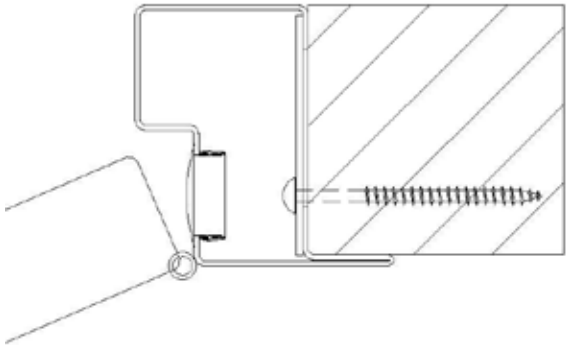
Hardware

Door leaves are hung from 3 no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Operated by sashlock and lever handles.

Closers and door restrictors, threaded frame adjuster fixing points and emergency exit panic ironmongery are available

Structural opening sizes (mm)*

	Max width	Max height
Single leaf	1480	2950
Double leaf	2800	2950



Outward Opening



Left Hand Hinged (LH)

Inward Opening



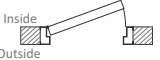
Left Hand Hinged (LH)

Outward Opening



Right Hand Hinged (RH)

Inward Opening



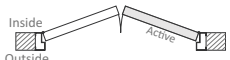
Right Hand Hinged (RH)

Outward Opening



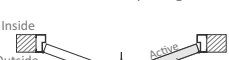
Left Hand Hinged (LH)

Inward Opening



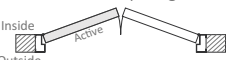
Left Hand Hinged (LH)

Outward Opening



Right Hand Hinged (RH)

Inward Opening



Right Hand Hinged (RH)



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see how we can help
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