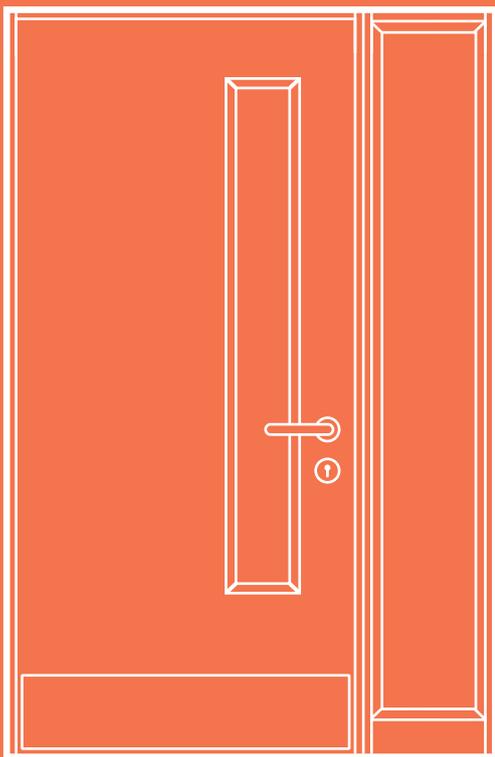


ahmarra

DOOR SOLUTIONS



EDUCATION RANGE

A range of made-to-order doorsets for schools, colleges, academies and universities.

A step-by-step guide to specifying doorsets and ironmongery for the education sector.





Our many years experience of manufacturing doors within the education sector has led us to produce this range of doors that are specific to schools, colleges, academies and universities.

Our doorsets are made to order on a project by project basis and we focus on providing our customers with the quality of service that we should all expect from our suppliers. Our ability to provide this level of service ensures that our customers return time and time again.

Our aim is to make the entire process as simple and practical as possible, offering solutions to the challenges presented by Building Regulations including performance requirements and complex design issues.

As a specialist in developing customer specific rationalised doorsets, our clients have recognised that significant cost savings can be made by offering a uniform finish throughout and eliminating the need to re-define doorsets & ironmongery for every project.

Our ability to offer full product certification in terms of quality and environmental credentials such as ISO 9001, ISO 14001, FSC® (Forest Stewardship Council®) and the Q-Mark Fire Door Manufacturer Scheme has enabled us to meet the supply chain criteria for many of the UK's largest construction companies.

We are a family business that prides itself on offering a quality product and developing long-term relationships with our clients, suppliers and staff. Every team member understands that being polite, enthusiastic and reliable are essential components of what makes Ahmarra successful.

WHY SHOULD YOU CHOOSE THE EDUCATION RANGE?

- QUALITY** We use the finest materials, cutting edge technology and traditional craftsmanship to guarantee exceptional standards.
- BESPOKE** You select the style, the material, and the finish from a wide range of options, creating the perfect look with limitless possibilities.
- GREEN** We care about the environment, our materials are FSC certified and we hold ISO 14001 certification for our environmental practices. Our wood waste is converted into heat for our production facility in our biomass boiler. Our local forest planting scheme has meant thousands of plants and trees have been planted as a result of our donations.
- BRITISH** Made in Britain to the highest quality standards, we are proud to fly the flag for UK manufacturing.



CASE STUDY

MIDHURST ROTHER COLLEGE

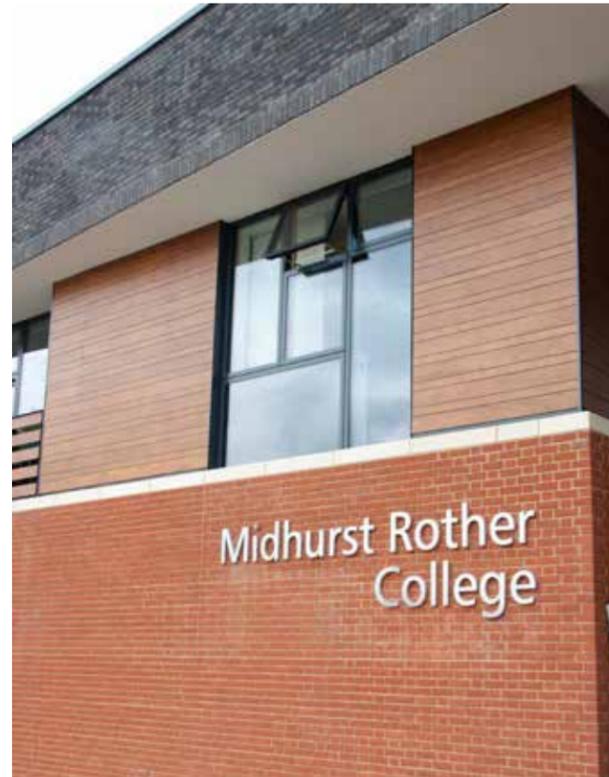
A combination of Formica Storm Grey laminate & American white oak veneered doors with side screens and internal windows.

Key features

- Premium, slim-profile, high efficiency closers.
- Formica Storm Grey laminate doors with complementary oak lippings and glazing bead.
- Crown cut, American white oak doors with matching frames.
- Side screens & internal windows promote the transition of natural light into the internal spaces.

Design Considerations

Storm Grey laminate doors stand out from the oak service and store room doors, as well as white walls acting as a way finding feature for students and teachers.



CASE STUDY

MIDHURST ROTHER COLLEGE

Oak screens and internal windows spread natural light within this project.

Key features

- Internal windows draw light from the naturally lit atrium.
- Floor to ceiling screens at the end of circulation spaces create a sense of openness.

Design Considerations

As schools are mainly in use during daylight hours, natural light can be used to light internal spaces. Internal windows and screens are a great way of transferring this light.



Bespoke/ Custom Door Types

Ahmarra have years of experience designing and manufacturing bespoke, project specific doors and are able to accommodate special requirements.

This range was designed to cater for the majority of education sector requirements, offering a doorset solution born from years of experience working in the sector. However, the Education Range is not limited to the door types defined in this brochure.

SPECIFICATION

Follow our simple 12 step process to ensure your doors are correctly specified.

Step 1
Door Type 

Select the most appropriate door type for each structural opening.

Ahmarra can also accommodate if a custom configuration is necessary.

Ironmongery Pack
Note that certain door types offer multiple ironmongery options.

Step 2
Handing 

Be sure to select the correct handing for each door type.

Ahmarra Handing Convention
Standing on the non-hinge side (door opening away), if the door opens towards the right then it is a right handed door. If it opens towards the left it is a left handed door.



Left Hand Right Hand

Step 3
Dimensions 

Dimensions can be given for the structural opening and/ or required door size.

Ahmarra suggest selecting the door sizes recommended in this brochure.

Step 4
Fire Rating 

Ensure each door has the correct fire rating associated, NFR, FD30 & FD60 (FD90 on request). This should be derived from the building's fire strategy, by a professional.

Step 5
Acoustic Rating 

If noise reduction is required, please select the appropriate acoustic rating. The typical acoustic rating for the area of use is highlighted on each door type.

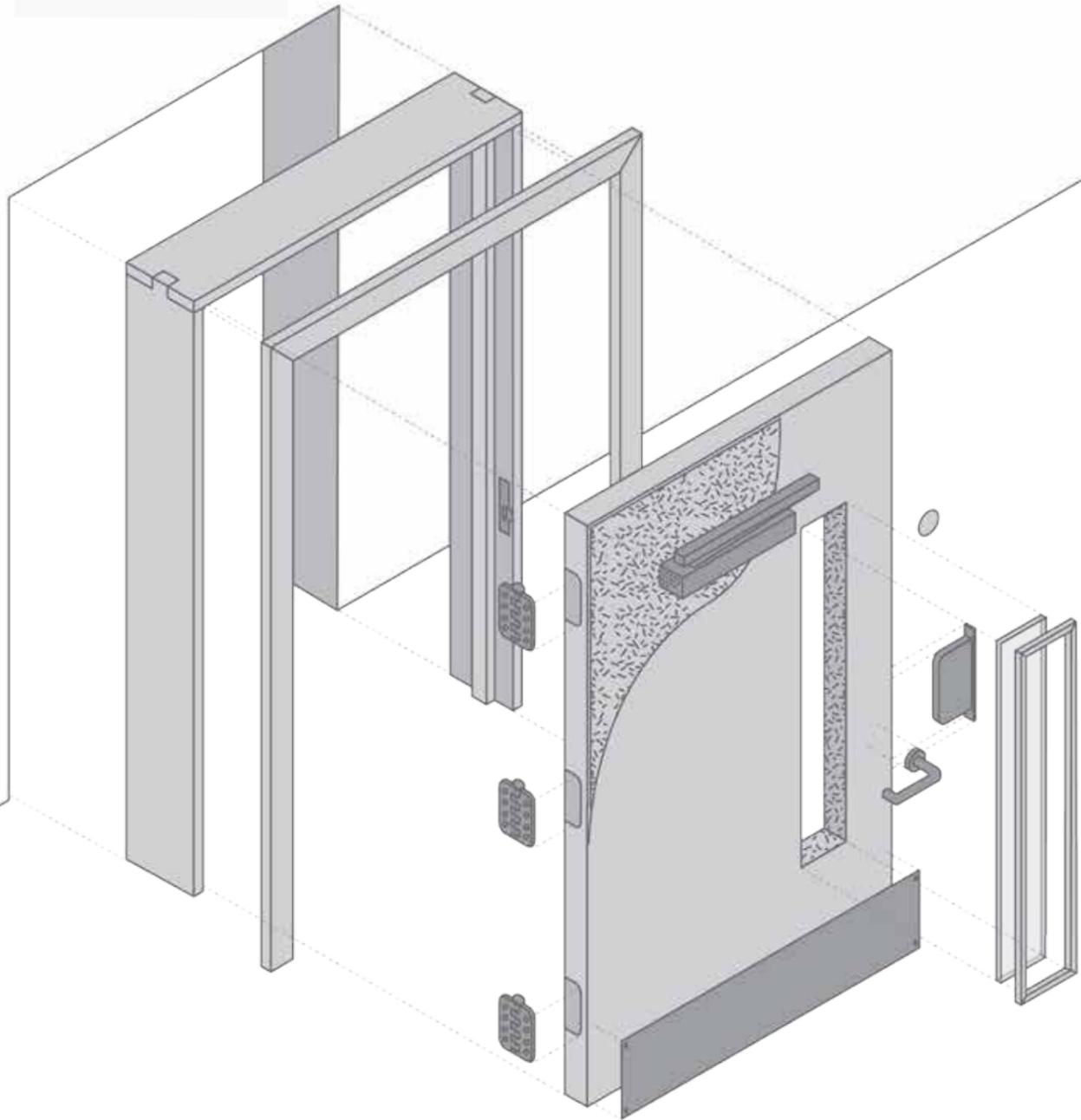
Step 6
Facing & Finish 

We offer a full range of decorative facings and finishes to complement your design scheme. Any special requirements can usually be accommodated.

Signage

FDKS: Fire door keep shut
FDKL: Fire door keep locked
AFDKC: Automatic fire door keep clear
Signage is not fitted as standard but is available on request. This is due to the complexity of handings and door openings.

BIM
models now
available
www.ahmarra.co.uk/bim



Step 7
Frame & Architrave 

Select the most appropriate frame type for your project.

Frame Material
Multiple frame materials are available each with specific characteristics.

Step 8
Vision Panel Style 

Choose a vision panel configuration to suit the project's design scheme. Note that multiple vision panel styles can be used on different doors across a project, where necessary.

Step 9
Furniture Pack 

Select a furniture pack (lever handles, escutcheons etc) to best suit your design scheme.

Step 10
Closer Pack 

Select closers most suited to the project's requirements.

Step 11
Protection Plates 

Select a push plate style from 4 different options.

Step 12
Finger Protection 

We offer a range of finger protection hardware to prevent injury through finger trapping.

Hold Open Closers

Hold open closers must be wired into the building's fire alarm system, by a specialist and will close in the event of a fire.



Dimensions

The standard dimensions presented in this brochure are recommendations based on industry guidelines for schools and should offer a more cost effective option than bespoke sizing. However, Ahmarra is able to supply doors in any size to suit your project specific requirements as long as they meet building regulations.

CIRCULATION & PUBLIC SPACES

Doorsets for use in circulation spaces, halls, lecture theatres and auditoriums.

TYPE 01
Corridor, stairwell, hall - hold open, free access circulation door.

FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Single
Vision Panel	Standard
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 1		
Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Hold Open Closer TS73EMF	No
1	Pull Handle	No
2	AFDKC Sign (Fr Only)	No
1	Push Plate	No
2	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

TYPE 02
Corridor, stairwell, hall - hold open, lockable, circulation door.

FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Single
Vision Panel	Standard
Locking	Deadlock
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 2		
Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Hold Open Closer TS73EMF	No
1	Deadlock	Yes
1	Pull Handle	No
1	Cylinder	No
2	Escutcheon	Yes
2	AFDKC Sign (Fr Only)	No
1	Push Plate	No
2	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

TYPE 03
Corridor, stairwell, hall - hold open, free access, circulation doors.

FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Double
Vision Panel	Standard
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 3		
Quantity	Component	Factory Fitted
6	Hinges	Yes
2	Hold Open Closer TS73EMF	No
2	Pull Handle	No
4	AFDKC Sign (Fr Only)	No
2	Push Plate	No
4	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

TYPE 04
Corridor, stairwell, hall - hold open, free access, circulation doors.

FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Double
Vision Panel	Standard
Locking	Deadlock
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 4		
Quantity	Component	Factory Fitted
6	Hinges	Yes
2	Hold Open Closer TS73EMF	No
1	Deadlock	Yes
2	Pull Handle	No
1	Cylinder	No
2	Escutcheon	Yes
4	AFDKC Sign (Fr Only)	No
2	Push Plate	No
4	Kick Plate	Yes
2	Flush Bolt	Yes
1	EC Floor Socket	No

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

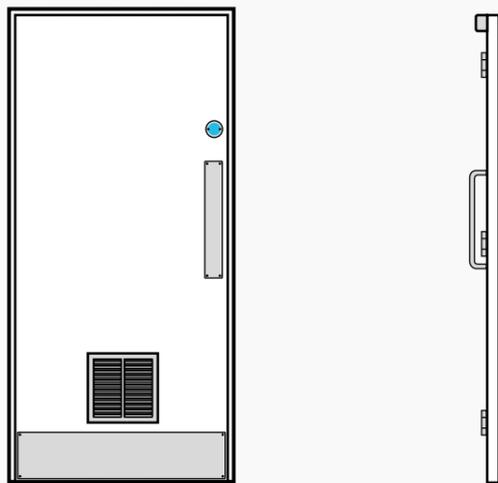
Standard closers ensure that fire doors are closed at all times in-case of a fire.

CIRCULATION & PUBLIC SPACES

Doorsets for use in circulation spaces, halls, lecture theatres and auditoriums.

TYPE 05

Bathroom lobby, changing room lobby - kept shut, toilet or changing room lobby entrance door.



FIRE RATING



ACOUSTIC RATING Rw(dB)*



Specification

Configuration	Single
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 6 & Pack 6.1

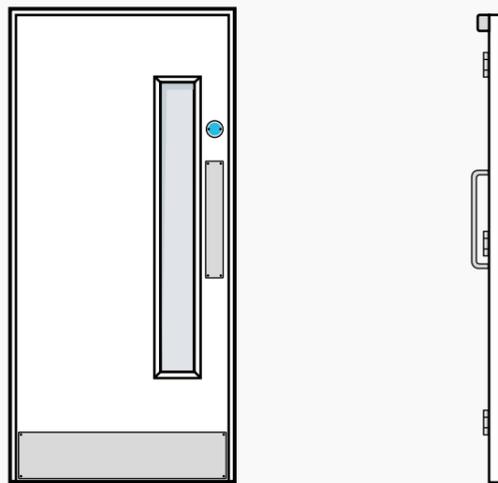
Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Standard Closer TS72VBC	No
1	Pull Handle	No
2	FDKS Sign (Fr Only)	No
1	Push Plate	No
2	Kick Plate	Yes
1	Air Transfer Grille (Pack 6.1)	Yes

We are unable to offer acoustic ratings on pack 6.1.
*Typical acoustic rating for this location is highlighted.
For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

TYPE 06

Corridor, stairwell, teaching/ mixed use spaces - kept shut, free access circulation door.



FIRE RATING



ACOUSTIC RATING Rw(dB)*



Specification

Configuration	Single
Vision Panel	Standard
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 6

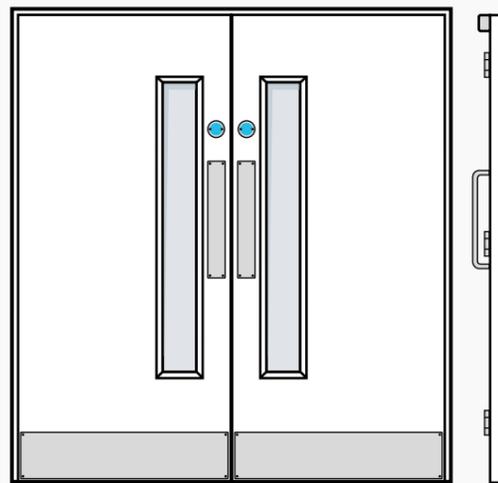
Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Standard Closer TS72VBC	No
1	Pull Handle	No
2	FDKS Sign (Fr Only)	No
1	Push Plate	No
2	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted.
For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

TYPE 07

Corridor, stairwell, teaching space - kept shut, free access circulation door.



FIRE RATING



ACOUSTIC RATING Rw(dB)*



Specification

Configuration	Double
Vision Panel	Standard
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

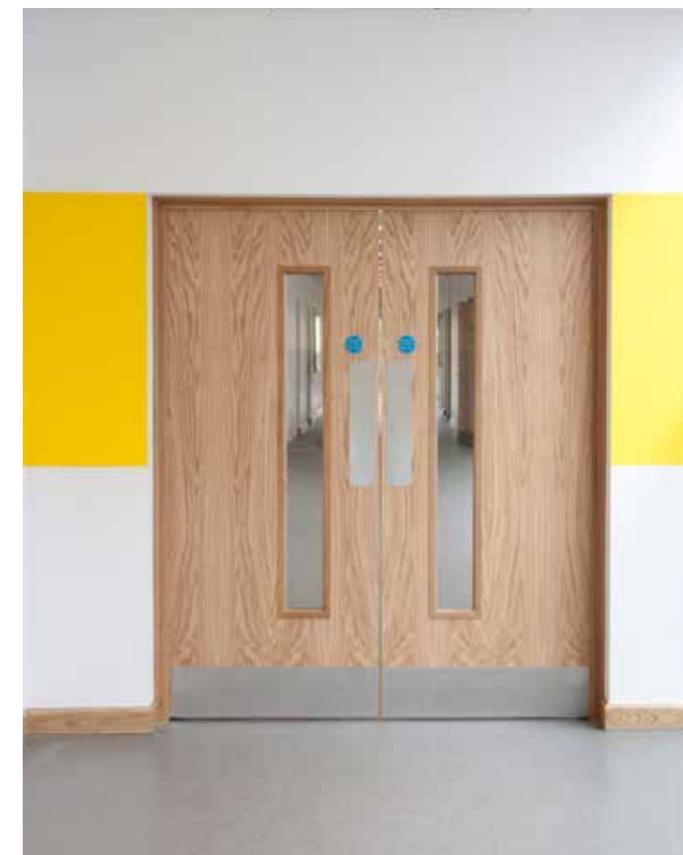
Ironmongery Items

Pack 8

Quantity	Component	Factory Fitted
6	Hinges	Yes
2	Standard Closer TS72VBC	No
2	Pull Handle	No
4	FDKS Sign (Fr Only)	No
2	Push Plate	No
4	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted.
For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.



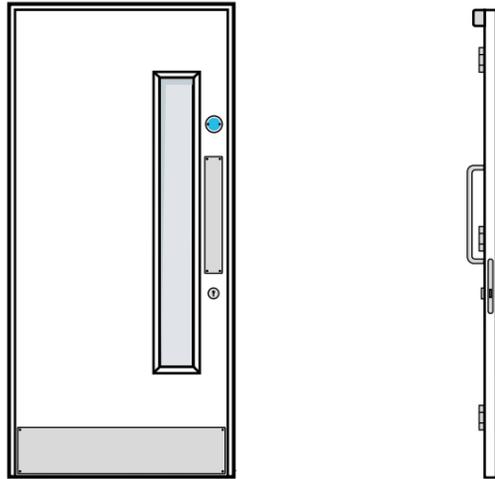
American white oak in a new academy in West Sussex. Where possible these doors are fitted alongside screens to allow for increased transition of light. These fire rated screens also create a feeling of openness and brightness conducive to a pleasant learning environment.

CIRCULATION & PUBLIC SPACES

Doorsets for use in circulation spaces, halls, lecture theatres and auditoriums.

TYPE 08

Corridor, stairwell, hall, teaching/ mixed use spaces - kept shut, lockable circulation door.



FIRE RATING



ACOUSTIC RATING Rw(dB)*



Specification

Configuration	Single
Vision Panel	Standard
Locking	Deadlock
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 5

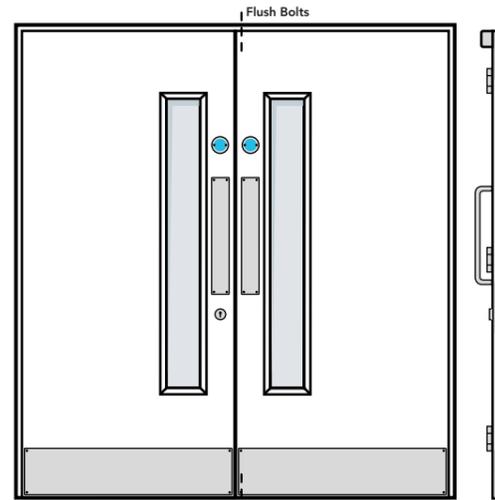
Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Standard closer TS72VBC	No
1	Deadlock	Yes
1	Pull Handle	No
1	Cylinder	No
2	Escutcheon	Yes
2	FDKS Sign (Fr Only)	No
1	Push Plate	No
2	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

TYPE 09

Corridor, stairwell, hall, mixed use spaces - kept shut, lockable circulation door.



FIRE RATING



ACOUSTIC RATING Rw(dB)*



Specification

Configuration	Double
Vision Panel	Standard
Locking	Deadlock
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 7

Quantity	Component	Factory Fitted
6	Hinges	Yes
2	Standard closer TS72VBC	No
1	Deadlock	Yes
2	Pull Handle	No
1	Cylinder	No
2	Escutcheon	Yes
4	FDKS Sign (Fr Only)	No
2	Push Plate	No
4	Kick Plate	Yes
2	Flush Bolt	Yes
1	EC Floor Socket	No

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.



A combination of Formica Storm Grey laminate & American white oak veneered doors. Storm Grey laminate is complemented with exposed oak lippings, frames, architraves and glazing bead for circulation doors. Whilst contrasting crown cut, American white oak service and store room doors, act as a way finding feature for students and teachers.

CLASSROOMS & TEACHING SPACES

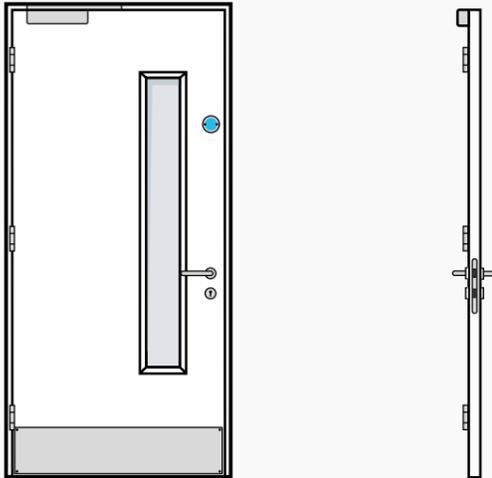
Doorsets for use on classrooms, teaching spaces and staff rooms.

Type 11

Unequal double doors (Type 11) should be specified on instances where large objects may need to pass through the opening. E.g. design technology labs, music rooms.

The slave leaf is secured to the frame and floor using flush bolts, which can be released to increase the size of the opening.

TYPE 10
Classroom, music room, staff room, general teaching spaces - keep shut door.



FIRE RATING: NFR, FD 30, FD 60
ACOUSTIC RATING Rw(dB)*: NR, 30, 35, 40

Specification

Configuration	Single
Vision Panel	Standard or Privacy
Locking	Sash, Escape or Sash Classroom
Operation	Lever
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 9		
Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Standard closer TS72VBC	No
1	Sashlock	Yes
1	Lever Handle Set	No
1	Cylinder	No
2	Escutcheon	Yes
2	FDKS Sign (Fr Only)	No
2	Kick Plate	Yes



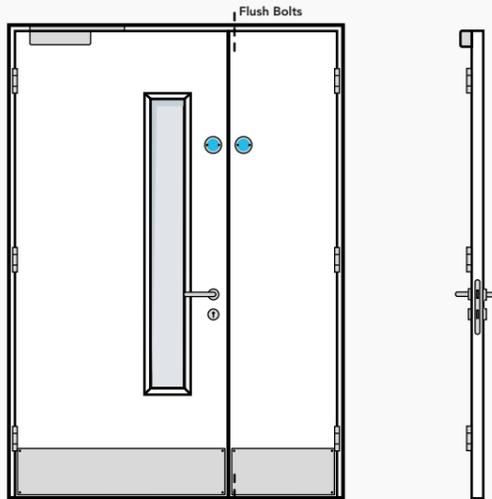
Pack 15			
Quantity	Component	Factory Fitted	
3	Hinges	Yes	
1	Standard Closer TS72VBC	No	
1	Escape Lock	Yes	
1	Lever Handle Set	No	
1	Cylinder	No	
2	Escutcheon	Yes	
2	FDKS Sign	No	
2	Kick Plate	Yes	

Pack 16			
Quantity	Component	Factory Fitted	
3	Hinges	Yes	
1	Standard Closer TS72VBC	No	
1	Sashlock	Yes	
1	Lever Handle Set	No	
1	Classroom Cylinder	No	
2	Escutcheon	Yes	
2	FDKS Sign (Fr Only)	No	
2	Kick Plate	Yes	

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

TYPE 11
Classroom, music room, science, D&T labs, art rooms - keep shut door.



FIRE RATING: NFR, FD 30, FD 60
ACOUSTIC RATING Rw(dB)*: NR, 30, 35, 40

Specification

Configuration	Unequal Double
Vision Panel	Standard or Privacy
Locking	Sash, Escape or Sash Classroom
Operation	Lever
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 + 463 mm
Structural Opening Width	1471 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 9.1		
Quantity	Component	Factory Fitted
6	Hinges	Yes
1	Standard closer TS72VBC	No
1	Sashlock	Yes
1	Lever Handle Set	No
1	Cylinder	No
2	Escutcheon	Yes
4	FDKS sign (Fr Only)	No
4	Kick Plate	Yes
2	Flush Bolt	Yes
1	EC Floor Socket	No



Pack 15.1			
Quantity	Component	Factory Fitted	
6	Hinges	Yes	
1	Standard closer TS72VBC	No	
1	Escape Lock	Yes	
1	Lever Handle Set	No	
1	Cylinder	No	
2	Escutcheon	Yes	
4	FDKS sign (Fr Only)	No	
4	Kick Plate	Yes	
2	Flush Bolt	Yes	
1	EC Floor Socket	No	

Pack 16.1			
Quantity	Component	Factory Fitted	
6	Hinges	Yes	
1	Standard closer TS72VBC	No	
1	Sashlock	Yes	
1	Lever Handle Set	No	
1	Classroom Cylinder	No	
2	Escutcheon	Yes	
4	FDKS sign (Fr Only)	No	
4	Kick Plate	Yes	
2	Flush Bolt	Yes	
1	EC Floor Socket	No	

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

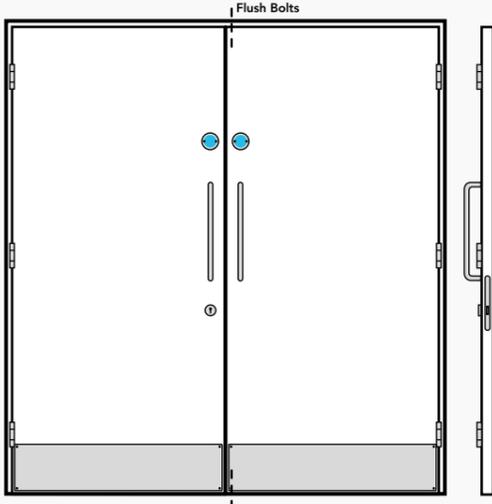
STORE ROOMS & UTILITIES

Doorsets for use in store rooms, plant rooms, service ducts and server rooms.

Type 15

This door functions as a secure room, implementing a night latch to lock automatically on closing. A sashlock is used to increase the level of security. This door should be used to secure an exam room store, or store for expensive or hazardous materials.

TYPE 12
Store room - Keep locked door.



FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Double
Locking	Deadlock
Operation	Push/Pull
Lining	Standard

Technical Details

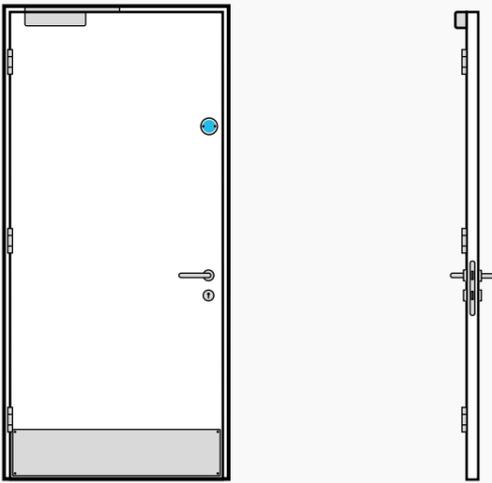
Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items Pack 22

Quantity	Component	Factory Fitted
6	Hinges	Yes
1	Deadlock	Yes
2	Pull Handle	No
1	Cylinder	No
2	Escutcheon	Yes
2	FDKL Sign (Fr Only)	No
2	Push Plate	No
4	Kick Plate	Yes
2	Flush Bolt	Yes
1	EC Floor Socket	No

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

TYPE 13
Store room - Kept shut, lever handle operated, lockable store room door.



FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Single
Locking	Sashlock
Operation	Lever
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

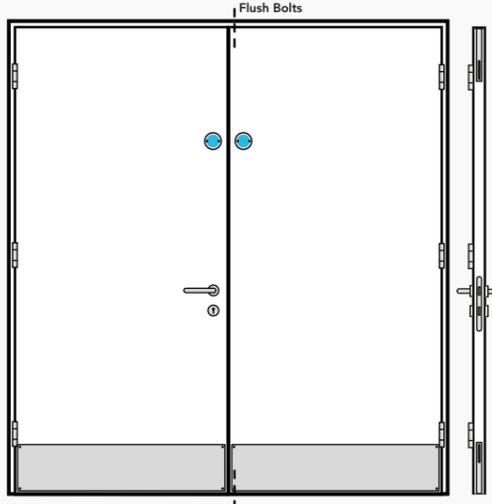
Ironmongery Items Pack 9

Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Standard closer TS72VBC	No
1	Sashlock	Yes
1	Lever Handle Set	No
1	Cylinder	No
2	Escutcheon	Yes
2	Kick Plate	Yes
1	FDKS sign (Fr Only)	No

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

TYPE 14
Store room - Keep locked, lever handle operated store room door.



FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Double
Locking	Sashlock
Operation	Lever
Lining	Standard

Technical Details

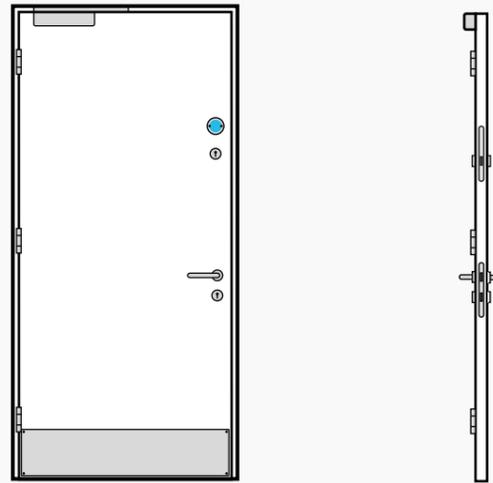
Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items Pack 12

Quantity	Component	Factory Fitted
6	Hinges	Yes
1	Sashlock	Yes
1	Lever Handle Set	No
1	Cylinder	No
2	Escutcheon	Yes
2	FDKL Sign (Fr Only)	No
4	Kick Plate	Yes
2	Flush Bolt	Yes
1	EC Floor Socket	No

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

TYPE 15
Exam paper store, laptop store, secure room - Keep locked, lever handle operated store room door.



FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Single
Locking	Sashlock, Nightlatch
Operation	Lever
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items Pack 20

Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Standard closer TS72VBC	No
1	Nightlatch	Yes
1	Sashlock	Yes
1	Lever Handle Set	No
2	Cylinder	No
4	Escutcheon	Yes
1	FDKL Sign (Fr Only)	No
2	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

STORE ROOMS & UTILITIES

Doorsets for use in store rooms, plant rooms, service ducts and server rooms.

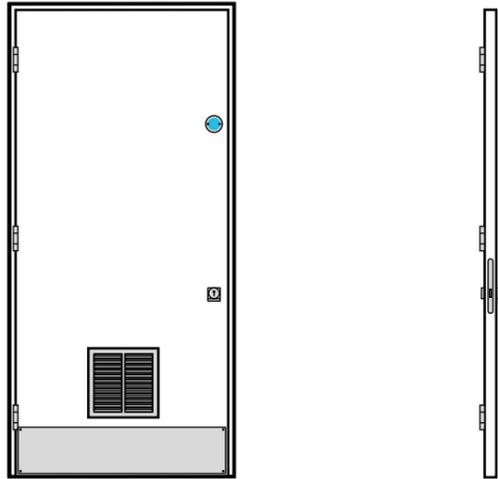
Type 16

If a store room will be used to store cleaning chemicals an air transfer grille is advisable. If required please specify ironmongery pack 13.1
If non-fire-rated a larger undercut can be used (discuss with an ahmarra representative).

Type 17

If a store room will be used to store cleaning chemicals an air transfer grille is advisable. If required please specify ironmongery pack 14.1.

TYPE 16
Store room, duct room, riser, cleaners cupboard - Kept locked store room doors.



Store rooms doors using both lever handles and cylinder pulls. Where store rooms will be opened infrequently, cylinder pulls may be more appropriate and cost effective. In this specific example, the hardware chosen adds to the clean, flush, architrave free style of the project.

FIRE RATING: NFR, FD 30, FD 60
ACOUSTIC RATING Rw(dB)*: NR, 30, 35, 40

Specification

Configuration	Single
Locking	Deadlock
Lining	Standard or four sided

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

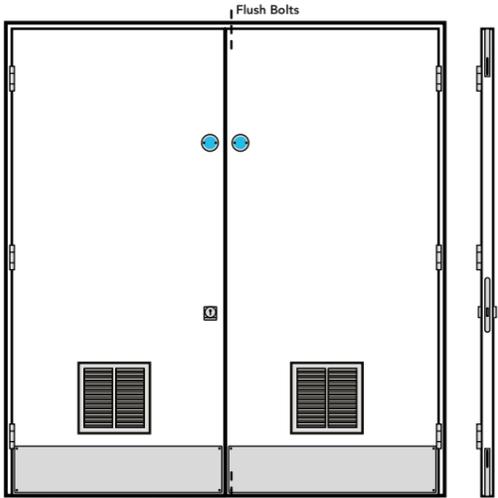
Ironmongery Items

Pack 13 & Pack 13.1

Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Deadlock	Yes
1	Cylinder	No
1	Cylinder Pull	Yes
1	Escutcheon	Yes
1	FDKL sign (Fr Only)	No
2	Kick Plate	Yes
1	Air Transfer Grille (Pack 13.1)	Yes

We are unable to offer an acoustic rating with pack 13.1
*Typical acoustic rating for this location is highlighted.
For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

TYPE 17
Store room, duct room, riser, cleaners cupboard - Kept locked store room doors.



FIRE RATING: NFR, FD 30, FD 60
ACOUSTIC RATING Rw(dB)*: NR, 30, 35, 40

Specification

Configuration	Double
Locking	Deadlock
Lining	Standard or four sided

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 14 & Pack 14.1

Quantity	Component	Factory Fitted
6	Hinges	Yes
1	Deadlock	Yes
1	Cylinder	No
1	Cylinder Pull	Yes
1	Escutcheon	Yes
2	FDKL sign (Fr Only)	No
4	Kick Plate	Yes
2	Flush Bolt	Yes
1	EC Floor Socket	No
2	Air Transfer Grille (Pack 14.1)	Yes

We are unable to offer an acoustic rating with pack 14.1
*Typical acoustic rating for this location is highlighted.
For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.



Doors leading to store rooms & utility rooms implementing minimal furniture. Operated using a key only, an infrequent basis.

TOILETS, WASHROOMS & CHANGING ROOMS

Doorsets for use in toilets, washrooms & changing rooms.

Type 19

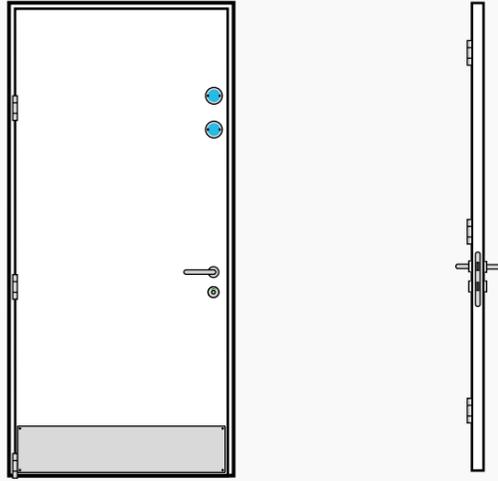
125 to 150 mm wall depth advised, otherwise lining extension must be used.

Signage



If gendered, or other specific bathroom signage is required please specify.

TYPE 18
Male, female or unisex toilet, shower, changing room - Lockable toilet door.



FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Single
Locking	Bathroom
Operation	Lever
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

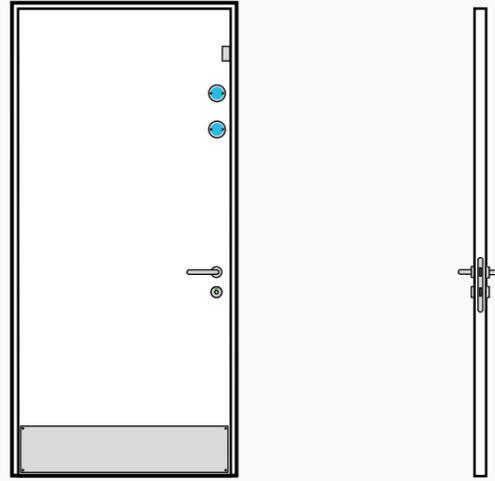
Pack 17 & Pack 17.1		Factory Fitted
Quantity	Component	
3	Hinges	Yes
1	Bathroom Lock	Yes
1	Lever Handle Set (Pack 17)	No
1	Bathroom Turn/Release	No
1	FDKS Sign (Fr Only)	No
2	Toilet Symbol	No
2	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.



Toilet doors in a primary school in Surrey. The doors, finished in crown cut oak veneer. These doors also feature a retro-fit finger protection device, recommended for primary schools and areas where young children may be operating the doors.

TYPE 19
Disabled toilet/ changing room - Disabled toilet door with emergency release doorstop.



FIRE RATING
NFR FD 30 FD 60

ACOUSTIC RATING Rw(dB)*
NR 30 35 40

Specification

Configuration	Single
Locking	Bathroom
Operation	Lever
Lining	Double Swing or Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	1026 mm
Structural Opening Width	1105 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

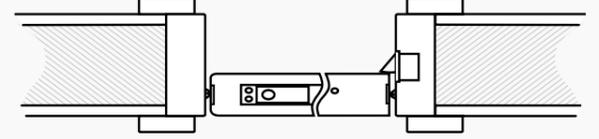
Ironmongery Items

Pack 18		Factory Fitted
Quantity	Component	
1	Bathroom Lock	Yes
1	Lever Handle Set	No
1	Bathroom Turn/Release	No
1	FDKS Sign (Fr Only)	No
1	Disabled Toilet Symbol	No
2	Kick Plate	Yes
1	Double Action Pivot Set	No
2	Privacy Seal	Yes
1	Emergency release doorstop	Yes

Not available as FD60 with this set. Please contact ahmarra if you need to meet this requirement.

We are unable to offer an acoustic rating with pack 18 *Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Emergency Release Door stops Pack 18



Pack 18.1		Factory Fitted
Quantity	Component	
3	Hinges	Yes
1	Bathroom Lock	Yes
1	Lever Handle Set	No
1	Bathroom Turn Release	No
1	FDKS Sign (Fr Only)	No
1	Disabled Toilet Symbol	No
2	Kick Plate	Yes

Conventionally hinge hung door, used when opening out.

TOILETS, WASHROOMS & CHANGING ROOMS

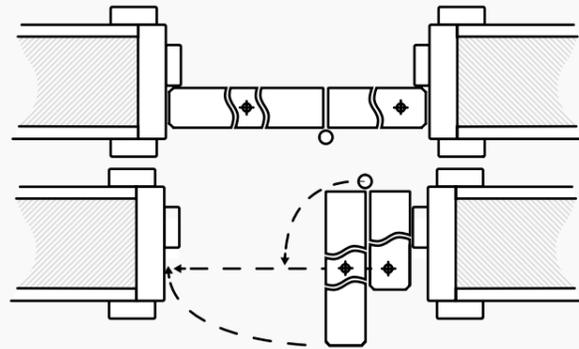
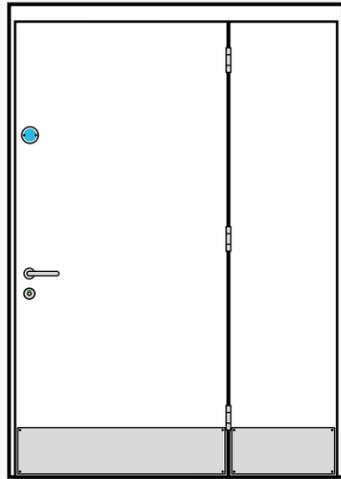
Doorsets for use in toilets, washrooms & changing rooms.

TYPE 20

Disabled toilet/ changing room - Bi-fold toilet door for use on disabled toilets where there is insufficient space for a regular door.

Bi-Fold Configuration

Bi-folding frame style featuring a custom track in the head of the frame and two, hinged door leaves. Intended for corridors with restricted width.



FIRE RATING

NFR

ACOUSTIC RATING Rw(dB)*

NR

Specification

Configuration	Unequal Double
Locking	Bathroom Lock
Operation	Lever
Lining	Track in Head

Technical Details

Door Core	Timbercore™
Door Width (recommended)	926 + 497 mm
Structural Opening Width	1505 mm
Door Height	2000 mm
Structural Opening Height	2105 mm
Minimum Clear Opening Width	1311 mm

Ironmongery Items

Pack 21

Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Bathroom Lock	Yes
1	Lever Handle Set	No
1	Bathroom Turn/Release	No
4	Kick Plate	Yes
1	Disabled Toilet Sign	Yes
1	Pin Support Bracket	Yes
1	Track Set	Yes
1	Top Pivot Pin	Yes
1	Double Action Pivot Set	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

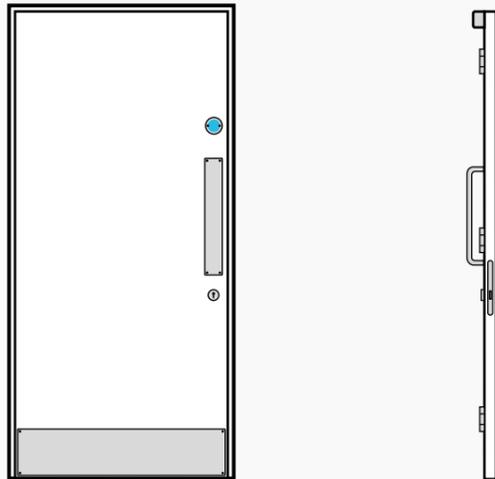


MULTI-USE

Doorsets for use in general areas.

TYPE 21

General - Kept shut, lockable general doorset.



FIRE RATING



ACOUSTIC RATING Rw(dB)*



Specification

Configuration	Single
Locking	Deadlock
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 mm
Structural Opening Width	1005 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 5

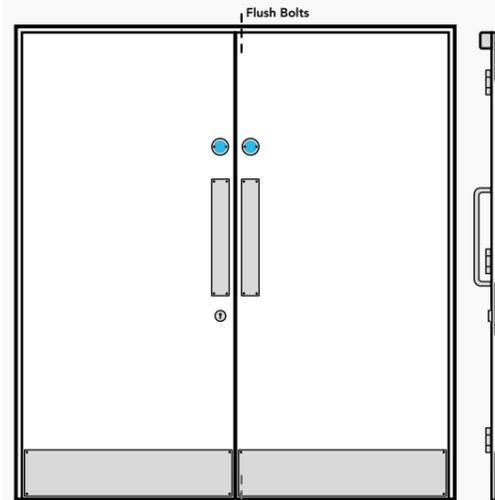
Quantity	Component	Factory Fitted
3	Hinges	Yes
1	Standard closer TS72VBC	No
1	Deadlock	Yes
1	Pull Handle	No
1	Cylinder	No
2	Escutcheon	Yes
2	FDKS Sign (Fr Only)	No
1	Push Plate	No
2	Kick Plate	Yes

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

TYPE 22

General - Kept shut, lockable general doorset.



FIRE RATING



ACOUSTIC RATING Rw(dB)*



Specification

Configuration	Double
Locking	Deadlock
Operation	Push/Pull
Lining	Standard

Technical Details

Door Core	Severecore™
Door Width (recommended)	926 + 926 mm
Structural Opening Width	1934 mm
Door Height	2052 mm
Structural Opening Height	2105 mm

Ironmongery Items

Pack 7

Quantity	Component	Factory Fitted
6	Hinges	Yes
2	Standard closer TS72VBC	No
1	Deadlock	Yes
2	Pull Handle	No
1	Cylinder	No
2	Escutcheon	Yes
4	FDKS Sign (Fr Only)	No
2	Push Plate	No
4	Kick Plate	Yes
2	Flush Bolt	Yes
1	EC Floor Socket	No

*Typical acoustic rating for this location is highlighted. For acoustic guidance please refer to BB93: acoustic design of schools - performance standards.

Closers: our ironmongery packs include a standard closer in silver finish as stated above for fire rated doorsets only but for upgraded functionality/increased aesthetics, more choices are available on page 44.

DOOR TYPES OVERVIEW

Zone	Door type	Configuration	Operation	Vision panel	Closer type	Ironmongery pack	Signage (Fr Only)	Locking
CIRCULATION & PUBLIC SPACES	Type 01	single	push/ pull	standard	hold open	1	AFDKC	none
	Type 02	single	push/ pull	standard	hold open	2	AFDKC	deadlock
	Type 03	double	push/ pull	standard	hold open	3	AFDKC	none
	Type 04	double	push/ pull	standard	hold open	4	AFDKC	deadlock
	Type 05	single	push/ pull	none	standard	6.1 or 6	FDKS	none
	Type 06	single	push/ pull	standard	standard	6	FDKS	none
	Type 07	double	push/ pull	standard	standard	8	FDKS	none
	Type 08	single	push/ pull	standard	standard	5	FDKS	deadlock
	Type 09	double	push/ pull	standard	standard	7	FDKS	deadlock
CLASSROOMS & TEACHING SPACES	Type 10	single	lever	standard or privacy	standard	9, 15 or 16	FDKS	sashlock, escape lock or sash classroom
	Type 11	unequal double	lever	standard or privacy	standard	9.1, 15.1 or 16.1	FDKS	sashlock, escape lock or sash classroom
STORE ROOMS & UTILITIES	Type 12	double	push/ pull	none	none	22	FDKL	deadlock
	Type 13	single	lever	none	standard	9	FDKS	sashlock
	Type 14	double	lever	none	none	12	FDKL	sashlock
	Type 15	single	Lever	none	standard	20	FDKL	nightlock sashlock
	Type 16	single	cylinder pull	none	none	13 or 13.1	FDKL	deadlock
	Type 17	double	cylinder pull	none	none	14 or 14.1	FDKL	deadlock
TOILETS, WASHROOMS & CHANGING ROOMS	Type 18	single	lever	none	none	17 or 17.1	WC FDKS	bathroom
	Type 19	single	lever	none	none	18 or 18.1	disabled WC FDKS	bathroom
	Type 20	unequal double	lever	none	none	21	disabled WC	bathroom
MULTI-USE	Type 21	single	push/ pull	none	standard	5	FDKS	deadlock
	Type 22	double	push/ pull	none	standard	7	FDKS	deadlock

Flush Detail

Flush frame detail with 10mm x 10mm shadow gaps. Available on request.



FRAMES & ARCHITRAVE

Standard frame and architrave details to suit most common wall types.

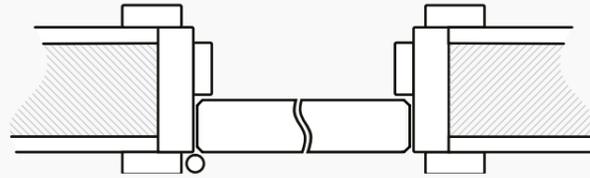
LINING WITH PLANTED DOOR

STOPS (LNG)

Our most popular frame type, suitable for most project types.

Technical Details

Min. Wall Depth 75 mm
 Max. Wall Depth 200 mm
 Fire Rating NFR, FD30, FD60

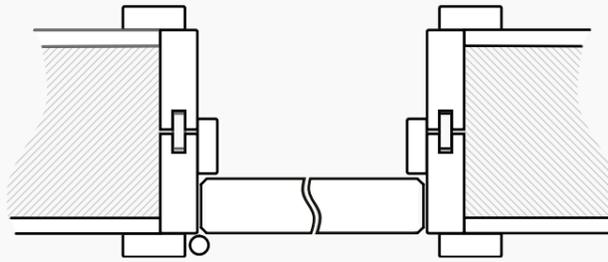


SPLIT LINING (SFR)

Most suitable for accommodating varying wall depths.

Technical Details

Min. Wall Depth 156 mm
 Max. Wall Depth 350 mm
 Fire Rating NFR, FD30, FD60

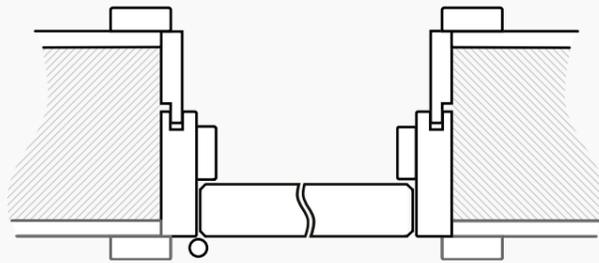


LINING WITH EXTENSION & PLANTED STOPS (LLE)

Suitable for refurbishment projects

Technical Details

Min. Wall Depth 125 mm
 Max. Wall Depth N/A
 Fire Rating NFR, FD30, FD60

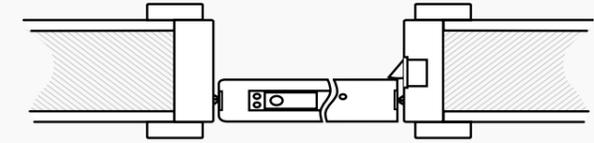


DOUBLE SWING (DBS)

Double swing frame mainly intended for emergency release situations such as disabled bathrooms.

Technical Details

Min. Wall Depth 90 mm
 Max. Wall Depth 200 mm
 Fire Rating NFR, FD30, FD60

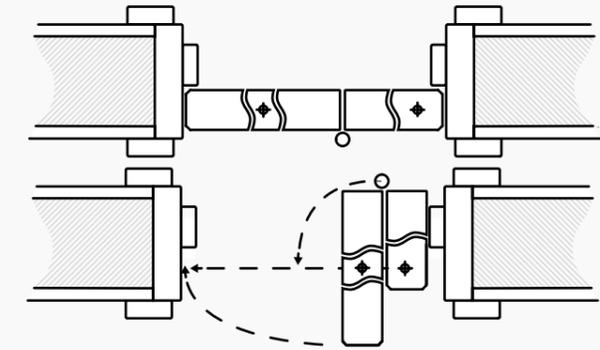


BI-FOLD (BIF)

Bi-folding frame style featuring a custom track in the head of the frame. Intended for corridors with restricted width.

Technical Details

Min. Wall Depth 90 mm
 Max. Wall Depth 200 mm
 Fire Rating NFR



FRAME MATERIALS

Engineered Softwood (ESWD)

- Overall cost saving
- Natural timber defects eliminated
- Consistent material appearance
- Long term product stability

Density >470Kg/M³
 Fire rating NFR, FD30
 Finish Primed for on-site Painting
 Wood Veneer



Engineered Hardwood (EHWD)

- Overall cost saving
- Natural timber defects eliminated
- Consistent material appearance
- Long term product stability

Density >650 Kg/M³
 Fire rating NFR, FD30, FD60
 Finish Primed for on-site Painting
 Wood Veneer



Solid Timber to Match Door

- Able to match door veneer to solid timber lining
- Durability
- Fire rated to 60 minutes on selected species

Density Various
 Fire rating NFR, FD30, FD60
 Finish Lacquered Timber

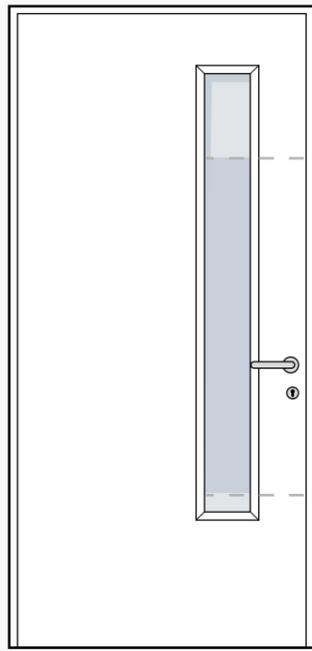
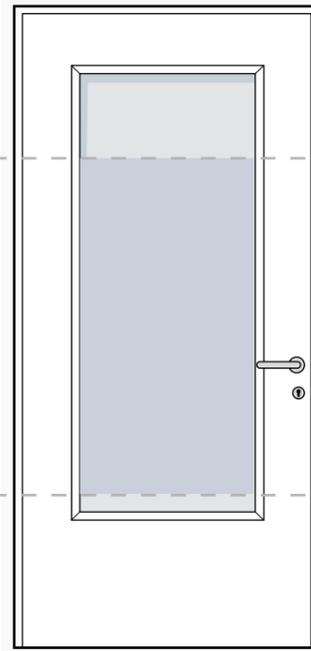
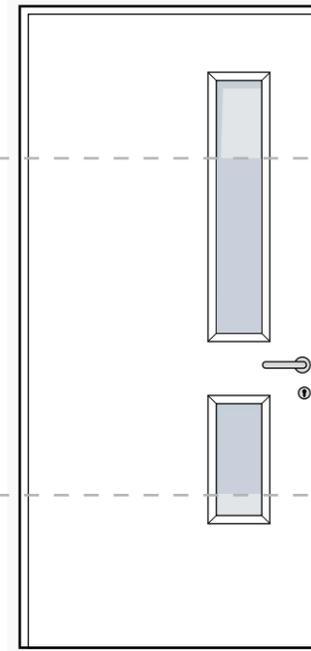
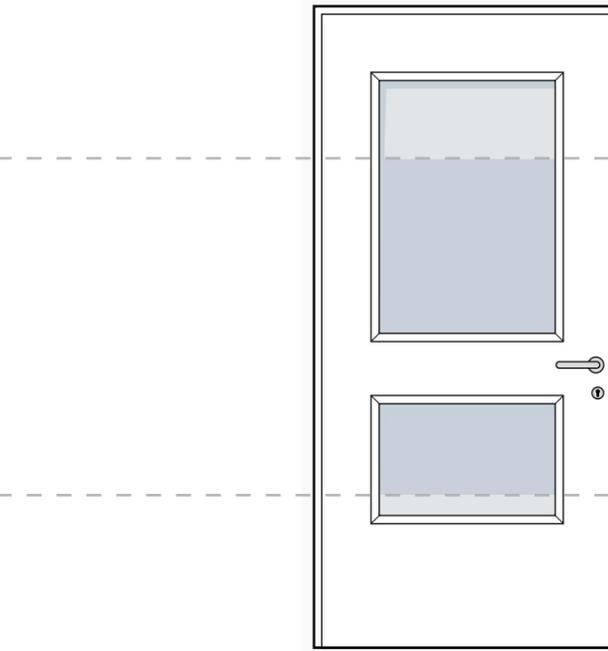


Zones of Visibility

According to BS 8300:2009 Minimum zone of visibility should be between 500 mm and 1500 mm above floor level, with maximum interruption of 350 mm vertically within the zone.

VISION PANELS

Standard vision panel style details, DDA compliant to BS8300:2009.

<p>VP01 Single narrow vision panel (Standard unless specified otherwise).</p>  <p>FIRE RATING NFR FD 30 FD 60</p> <p>Technical Details Aperture Width 200 mm Aperture Height 1400 mm</p>	<p>VP02 Single wide vision panel</p>  <p>FIRE RATING NFR FD 30 FD 60</p> <p>Technical Details Aperture Width 560 mm (based on 926 mm wide door) Aperture Height 1400 mm</p>	<p>VP03 Narrow vision panels with middle rail</p>  <p>FIRE RATING NFR FD 30 FD 60</p> <p>Technical Details Aperture Width 200 mm Aperture Height 750 mm (top), 488 mm (bottom)</p>	<p>VP04 Wide vision panels with middle rail</p>  <p>FIRE RATING NFR FD 30 FD 60</p> <p>Technical Details Aperture Width 560 mm (based on 926 mm wide door) Aperture Height 750 mm (top), 488 mm (bottom)</p>
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BS 8300:2009 MINIMUM ZONES OF VISIBILITY



Vision panels allow students to view what is on the other side of the door and are an important safety feature, vital in preventing injury resulting from collision with opening doors

GLAZING OPTIONS

- | | |
|---|---|
| <p>Standard Glazing (GL)</p> <ul style="list-style-type: none"> - Standard translucent glass. | <p>Privacy Glazing (OGL)</p> <ul style="list-style-type: none"> - Opaque glass. - Film applied to any glass configuration for privacy. |
|---|---|



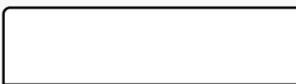
ARCHITRAVE

STANDARD (44 X 18 mm) EDARC1



Ahmarra's standard architrave profile is 44 x 18 mm with 3mm radiused edges.

EXTENDED (69 X 18 mm) EDARC2



Extended architraves (69 mm wide) may be necessary for refurbishment projects where structural openings may be inconsistent.



Light Transmission

For optimum light transmission a side screen can be paired with a fanlight. Please note that each screen/fanlight must be contained in its own frame, these frames can be separated on the horizontal edge by a transom.

Document N

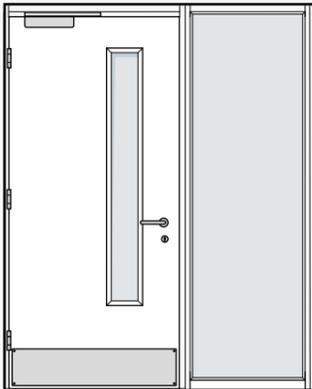
According to Document N (protection against impact) the "critical location" of a side screen is between finished floor level and 1500mm above that level. Starting a side screen above this level may provide protection from breakage, as well as cost saving in glass size and safety requirements of said glass.

SCREENS, INTERNAL WINDOWS & FANLIGHTS

Screens & fanlights provide transfer of natural light in internal spaces. Standard configurations are shown below.

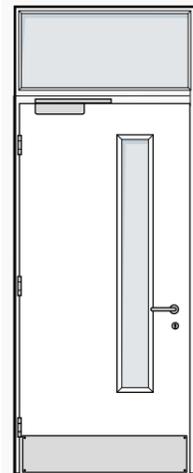
SIDE SCREEN (SS01)
Screen adjacent to a door.

Technical Data
Max screen width **900mm**
Fire rating **NFR, FD30, FD60**
Safety rating **Class B**



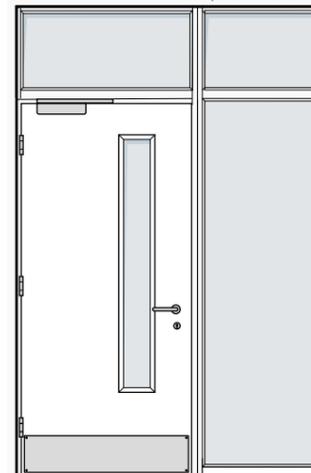
FANLIGHT (FL01)
Screen above a door.

Technical Data
Max screen width **To suit door**
Fire rating **NFR, FD30, FD60**
Safety rating **Class C**



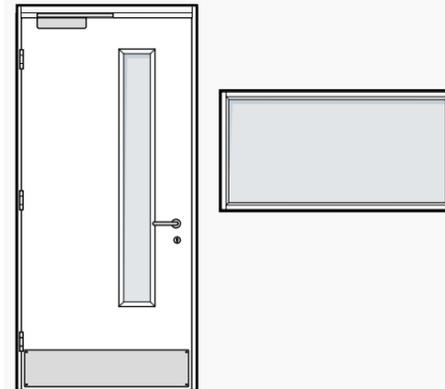
SIDE SCREEN & FANLIGHT (SSFL01)
Side screen with adjacent fanlight.

Technical Data
Max screen width **900mm**
Fire rating **NFR, FD30, FD60**
Safety rating **Class C (fanlight) & B (side screen)**



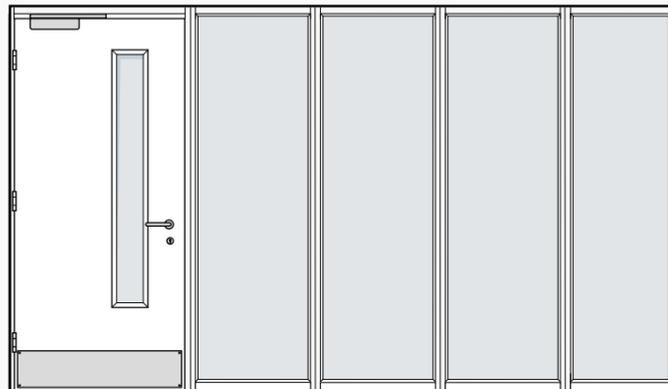
INTERNAL WINDOW (IW01)
Screen, elevated from floor level. screen not attached to door.

Technical Data
Max screen width **N/A**
Fire rating **NFR, FD30, FD60**



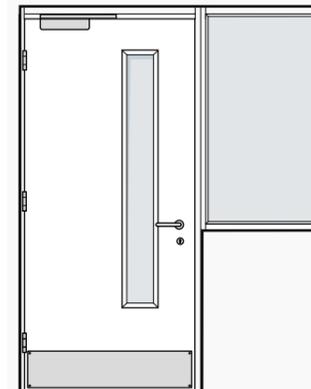
MULTIPLE SCREENS (SS03)
Single door with multiple side screens.

Technical Data
Max screen width **900mm each module**
Fire rating **NFR, FD30, FD60**
Safety rating **Class B**



ELEVATED SIDE SCREEN (SS02)
Side screen elevated above the ground.

Technical Data
Max screen width **N/A**
Fire rating **NFR, FD30, FD60**



GLAZING CONFIGURATIONS

Specification Code	Acoustic Rating	Fire Rating	Fire Insulation	Classification	Glass Thickness	Minimum Frame Depth
SRB-35-0	35 RwdB	NFR	0		6.8 mm	75 mm
SRB-40-0	40 RwdB	NFR	0		12.8 mm	85 mm
SRB-40-0	40 RwdB	NFR	0		16.8 mm	85 mm
SRB-46-0	46 RwdB	NFR	0		8.8 mm 12 mm Spacer 8.8 mm	100 mm
SRB-50-0	50 RwdB	NFR	0		12.8 mm 12 mm Spacer 12.8 mm	110 mm
SRB-51-0	51 RwdB	NFR	0		16.8 mm 12 mm Spacer 16.8 mm	115 mm
SRB-34-30	34 RwdB	FD30	0	EW	7 mm	75 mm
SRB-44-30	44 RwdB	FD30	0	EW	7 mm 12 mm Spacer 8.8 mm	100 mm
SRB-39-60	39 RwdB	FD60	30	EI	16 mm	85 mm
SRB-40-60	40 RwdB	FD60	60	EI	25mm	95 mm
SRB-45-60	45 RwdB	FD60	30	EI	16mm 12 mm spacer 6.8mm	105 mm

Insulating glass

Ahmarra would recommend the architect/ BCO refer to Approved Document B of the Building regulations: Table A4, which gives guidance on the 'Limitations of the use of uninsulated glazed elements on escape routes'.

EW= Integrity and low heat radiation or the ability of the element to prevent the passage of flames and to limit the level of heat transfer through the element
EI= Integrity and insulation or the ability of the element to prevent the passage of flames and to block the heat transfer through the element.

The required fire protection rating is specified by the respective national building regulations following a risk assessment based on the building characteristics and the location of the fire rated element (facade, partitioning walls, stairways etc).



The pre-primed paper has been designed as a time saving initiative for paint grade doors and is ideal for concealing any lippings ensuring a smoother finish.

LRV
Light reflectance value is used to ensure there is good visual contrast between various elements of the building. Door to frame, frame to wall, door to lever furniture.

LAMINATE & PRIMED ECO-VENEER

Consistent, durable finishes; perfectly suited to the education sector.

PRIMED ECO-VENEER

Ready Primed Eco-Veneer suitable for on-site painting.



- Benefits**
- Economic
 - Surface damage can easily be fixed on site
 - FSC® certified
 - Can be painted on-site to match the projects design scheme.

HIGH PRESSURE LAMINATE (HPL)



- Benefits**
- Easy to clean and maintain
 - Impact resistant
 - Hygienic
 - Water resistant
 - Chemically Resistant
 - Stain resistant
 - FSC® certified

HIGH PRESSURE LAMINATE

Some of our standard laminate colours are shown below but we are able to supply laminates from most major suppliers in a wide range of colour options.



Formica® Linewood™ - Textured HPL



Formica® Classic Wenge - Woodgrain HPL

LRV 85.8	LRV 16.2	LRV 43.7	LRV 14.8
	GRENADINE		
	LRV 63.3		
	IRIS		
SNO WHITE	LRV 42.9		
	FOSSIL		
LRV 14.3	LRV 9.2		
AMARENA	MARINE BLUE	HEATHER	
LRV 49.8			
WASABI	SPECTRUM YELLOW	LRV 54.5	
		STORM	



Formica® Magnetic Laminate – Communicative surfaces with chalk and special board markers.

FORMICA® **ABET LAMINATI**
Ahmarra supply laminate from both Formica and Abet, please contact Ahmarra for a full range of colours.



The mark of responsible forestry

Full Veneer Range

We offer a full range of standard wood veneers and we are continually developing new stains for our veneers to meet customer needs as well as options for pre-dyed veneers.

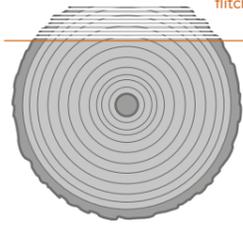
Please contact our sales team to discuss the full range of veneers and finishes available.

WOOD VENEERS

Consistent, durable finishes; perfectly suited to the education sector.

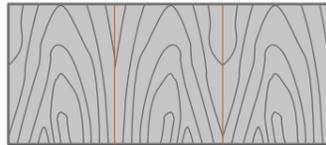
CROWN CUT

Log cut horizontally into flitches

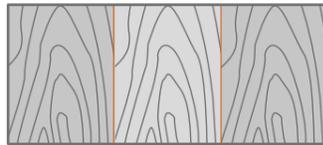


A slicer passes through the log on a plane tangential to these growth rings. The result is a roughly symmetrical, central grain pattern that is characterised by a 'cathedraling' of the grain and also ellipses and ovals. This form of slicing produces an attractive and regular form termed 'crown' veneer.

BOOK MATCH



SLIP MATCH



* LRV 14.27

American Black Walnut
Crown cut.



* LRV 54.30

Maple
Crown cut.

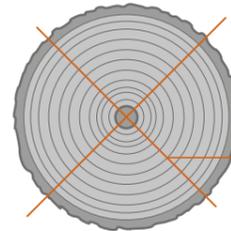


* LRV 51.50

American Ash
Crown cut.

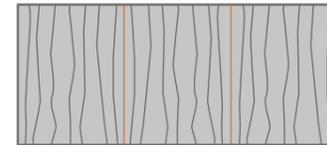
QUARTER CUT

Log cut into quarters

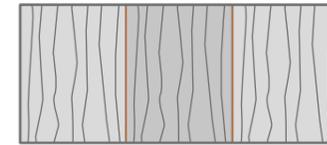


Quarters cut into flitches

BOOK MATCH



SLIP MATCH



Quarter cut veneer is straight grained, which allows for continuity to be achieved throughout a project.



* LRV 23.40

American Cherry
Quarter cut.



* LRV 36.00

Steamed Beech
Quarter cut.



* LRV 35.40

American White Oak
Quarter cut.



Book matched, crown cut, American white oak doors, contrasted with grey painted skirting, architrave and frames.



European white oak, quarter cut, slip matched doors.

* Light reflectance value is used to ensure there is good visual contrast between various elements of the building. Door to frame, frame to wall, door to lever furniture. The figures shown are an average of the samples we tested although timber being a natural product will have variation and therefore each components LRV value will differ slightly.

Ahmarra are happy to accommodate your preferred lock type into your doorsets.

LOCK TYPES

Guidance on the different types of locks featured in this range.

DEADLOCK
Single cylinder bolt operated by keys and/ or thumb turns.

Typical Scenarios
Store rooms
Halls & mixed use spaces
Atriums
Classrooms
Server rooms
Plant rooms
Duct rooms
Circulation spaces

CORRIDOR SIDE
Key or turn operates deadbolt when door is closed.

ROOM SIDE
Turn operates deadbolt when door is closed. Preventing access from corridor side to non-key-holders.

SASHLOCK
Lever handles operating a latch bolt, keys and or thumb turns operate a deadbolt.

Typical Scenarios
Classrooms
Halls & mixed use spaces
Science & technology labs

CORRIDOR SIDE
Lever handle retracts latch bolt.
Key operates deadbolt when door is closed.

ROOM SIDE
Lever handle retracts latch bolt.
Turn operates deadbolt when door is closed. Preventing access from corridor side to non-key-holders.

ESCAPE LOCK
Allows for a egress in a single operation in case of an emergency, even when the door is locked.

Typical Scenarios
Classrooms
Halls & mixed use spaces
Science & technology labs

CORRIDOR SIDE
Lever handle retracts latch bolt only.
Key operates deadbolt when door is closed.

ROOM SIDE
Lever handle retracts both bolts, allowing for emergency egress using only one operation.
Turn operates deadbolt when door is closed.

NIGHTLATCH
Latch bolt will automatically lock when the door closes.

Typical Scenarios
Exam paper storage
Areas which need to remain locked to non-key-holders.
Store rooms containing hazardous or valuable items.

CORRIDOR SIDE
Key operates latch bolt. This bolt will lock whenever the door closes.

ROOM SIDE
Turn operates deadbolt when door is closed.

BATHROOM LOCK
Lever handles operate a latch bolt, thumb turn on bathroom side operates a deadbolt with an occupancy indicator on the external side.

Typical Scenarios
Bathrooms
Shower rooms
Changing rooms
NOT bathroom cubicles

CORRIDOR SIDE
Lever handle retracts latch bolt only.
Indicator displays occupancy.

ROOM SIDE
Lever handle retracts latch bolt only.
Turn operates deadbolt when door is closed. Preventing access from corridor side.

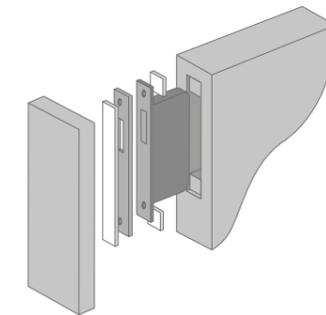
CLASSROOM FUNCTION
Allows a key-holder to open the door even if someone is attempting to barricade themselves in the room on the other side.

Typical Scenarios
Classrooms
Mixed use spaces
Halls
Auditoriums
Lecture theaters

CORRIDOR SIDE
Lever handle retracts latch bolt only.
Key operates deadbolt when door is closed. Overriding thumb turn.

ROOM SIDE
Prevents anyone from barricading themselves inside room.

Fire protection



For all fire rated doors, lock-cases and keeps will be clad in intumescent fire protection where required, ensuring complete piece of mind.

DOOR FURNITURE

Lever handles and other protruding hardware.

FURNITURE PACK

Patented 3 piece fixing rose and escutcheon system. Secure, quick and easy.

Components

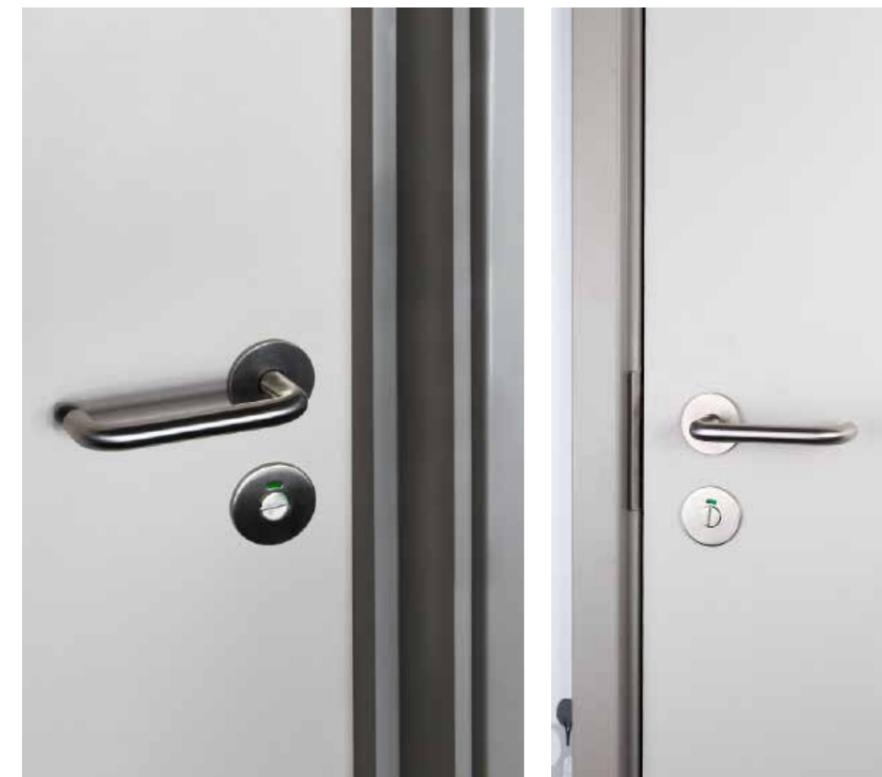
- Lever handle & rose
- Bathroom turn & indicator
- Escutcheon

Benefits

- Push-fix rose, held tightly with heavy duty gasket.
- The solid mounting plate with 4mm fixing lugs provides an easy assembly base. Complete with male/ female fixings.
- Meets the dimensional recommendations of BS8300 and Approved Document M and provides added safety with its return to door design.

Technical Details

Material	Grade 316 stainless steel
Construction options	Hollow
Grade (BS EN1906)	4
Handle diameter	19mm



PREMIUM SOLID FURNITURE PACK

If you prefer a premium option, an upgrade to solid is available.

FINISHES

Satin stainless steel is provided as standard, but other finishes are available.



Nylon

Nylon offers easy to clean, low maintenance, durable alternative to stainless steel. They also offer a great way to achieve contrasting colour and luminance, in assisting blind and partially sighted people to identify and operate doors.

DOOR FURNITURE

Lever handles and other protruding hardware.

NYLON PACK

A durable furniture option consisting of a steel core inside the nylon lever handle, available in a range of colours.

Components

- Lever handle
- Accessible bathroom turn
- Escutcheon
- Disabled turn
- Pull handle
- Hooks (on request)
- Bathroom hardware (on request)

Technical Details

Grade	3 or 4
Materials	Nylon with steel core
Rose diameter	55 mm
Bar diameter	20 mm



Visual contrast

Colour and tonal contrast can be helpful for visually impaired pupils, positively affecting their ability to use doorsets. Used with our range of laminates, this range of hardware is a great way to achieve preferred light reflectance values (LRV).*

Door to lever to have contrast of greater than 15 points required by BS8300.



GLOSS
Gloss finish available in 15 colours to match your design scheme.

ANTI-MICROBIAL
A Microsilver coating, effective against bacteria and fungi. The microsilver discharges silver ions, which inhibit the growth of bacteria and other unwanted germs and therefore minimise the risk of infection for humans.

*based on data from: The examination of the effects of differences between door faces and hardware in terms of light reflectance values (LRVs) and gloss levels, published by Research Group for Inclusive Environments, 2005

BS EN 1154/1155 classifies door closing devices using a 6 digit coding system. Each digit representing a different category (see below):

- 1 Category of use
- 2 Number of test cycles
- 3 Test door mass/size
- 4 Fire behaviour
- 5 Safety
- 6 Corrosion resistance

DOOR CLOSERS

Guidance on the different types of closers featured in this range.

SCISSOR ARM CLOSER TS72V BC

Standard held shut closer, with scissor arm. Can be fitted to the push or pull face.

Features

Adjustable closing force
Adjustable force sensitive backcheck



Technical Details

Closing Force **EN2-4**
Max Door Width **1100 mm**
Body Size **232 x 68 x 45 mm**
CE Marked **to BS EN1154**
Max Opening angle **180°**

EN1154 Classification

1	2	3	4	5	6
4	8	2-4	1	1	2

SLIDE ARM/CAM ACTION CLOSER TS93

CAM action door closer with slide arm.

Features

Adjustable closing force
Adjustable closing and latching speed
Adjustable force sensitive backcheck
Adjustable delayed action
Optional electromagnetic hold open



Technical Details

Closing Force **EN2-5**
Max Door Width **1250 mm**
Body Size **275 x 60 x 53mm**
CE Marked **to BS EN1154**
Max Opening angle **180°**

EN1154 Classification

1	2	3	4	5	6
4	8	2-5	1	1	4

TRANSOM CLOSER RTS87

For double action doors where mechanism is situated in 70mm frame head due to insufficient screed depth or to avoid under floor heating.



Technical Details

Closing Force **EN1-4**
Max Door Width **1100 mm**
Body Size **321 x 108 x 55 mm**
CE Marked **to BS EN1154**
Max Opening angle **175 °**

EN1154 Classification

1	2	3	4	5	6
3	8	1-4	1	1	4

OPENING FORCES

BS8300 gives guidance on maximum opening forces to ensure accessibility for all. Ahmarra take steps to ensure opening forces are minimised as far as practicable. We use seals that act in compression rather than friction, highly efficient closers, low friction hinges and accurate engineered tolerances. Other factors such as air pressure differentials can have a significant effect on opening forces. Please note that double doors typically have a higher opening force due to the smoke/wipe seal between the doors we would suggest the above be included in the projects access statement.

CONCEALED CLOSER (DOOR MOUNTED) ITS96

Integrated door closer, mortised into the top of the door.

Features

Adjustable closing force
Adjustable closing and latching speed
Optional electromagnetic hold open



Technical Details

Closing Force **EN2-4**
Max Door Width **1100 mm**
Body Size **277 x 42 x 32 mm**
CE Marked **to BS EN1154**
Max Opening angle **120 °**

EN1154 Classification

1	2	3	4	5	6
3	8	2-4	1	1	4

ELECTROMAGNETIC HOLD OPEN CLOSER TS73EMF

Electromagnetic hold open closer.

Features

Available for doors up to 1400mm
Adjustable closing speed
Adjustable latching action
Electromagnetic hold open from 75°-180°
Free swing available



Technical Details

Closing Force **EN4**
Max Door Width **1100 mm**
Body Size **220 x 60 x 45.5 mm**
CE Marked **to BS EN1155**
Max Opening angle **180°**

EN1155 Classification

1	2	3	4	5	6
4	8	4	1	1	3

FLOOR SPRING BTS75V

Adjustable powered universal floor spring.

Features

Adjustable closing force
Adjustable closing and latching speed
Optional delayed action
Optional mechanical hold open (not for fire doors)



Technical Details

Closing Force **EN1-4**
Max Door Width **1100 mm**
Body Size **282 x 85 x 50 mm**
CE Marked **to BS EN1154**
Max Opening angle **175 °**

EN1154 Classification

1	2	3	4	5	6
3	8	1-4	1	1	4

ELECTROMAGNETIC HOLD OPEN FLOOR SPRING BTS80EMB

Electromagnetic hold open universal floor spring.

Features

Adjustable closing and latching speed
Electromagnetic hold open from 85° to 175°
Available for doors up to 1400mm
Free swing option available



Technical Details

Closing Force **EN4**
Max Door Width **1100 mm**
Body Size **341 x 78 x 60 mm**
CE Marked **to BS EN1155**
Max Opening angle **175 °**

EN1155 Classification

1	2	3	4	5	6
3	8	4	1	1	4

PROTECTION PLATES

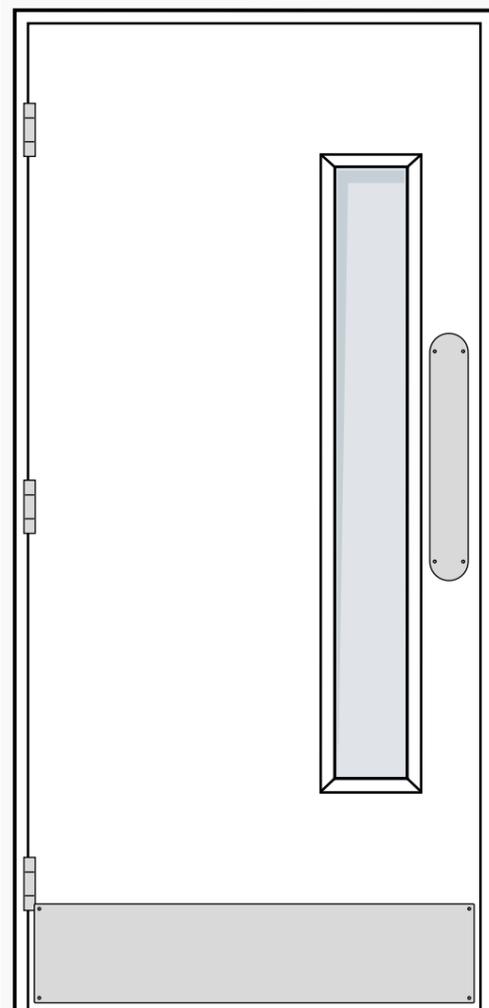
Pre-drilled and counter sunk push plates.*

PP01

Regular, round-end rectangular push plate.

Technical Data

Width	75 mm
Height	500 mm
Thickness	1.2 mm
Material	Stainless steel

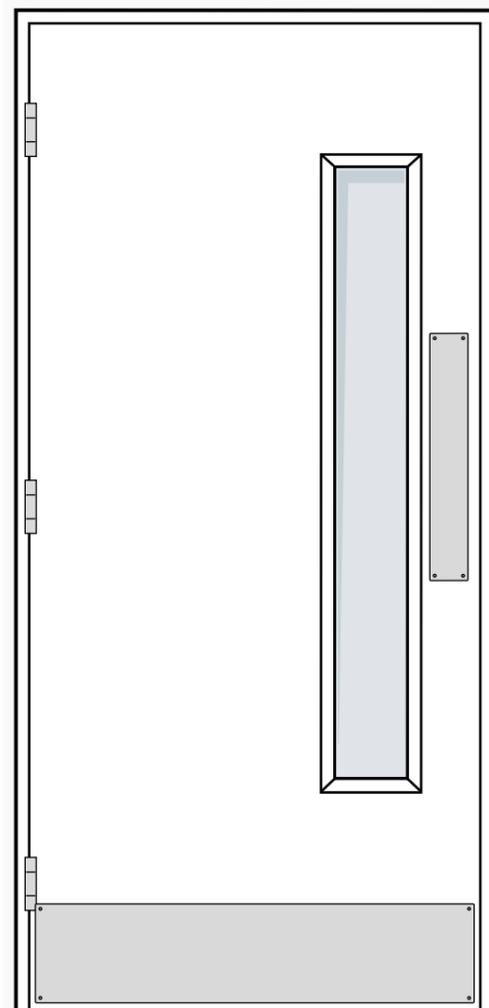


PP02 (STANDARD)

Regular, square-end rectangular push plate. Supplied as standard, unless specified.

Technical Data

Width	75 mm
Height	500 mm
Thickness	1.2 mm
Material	Stainless steel

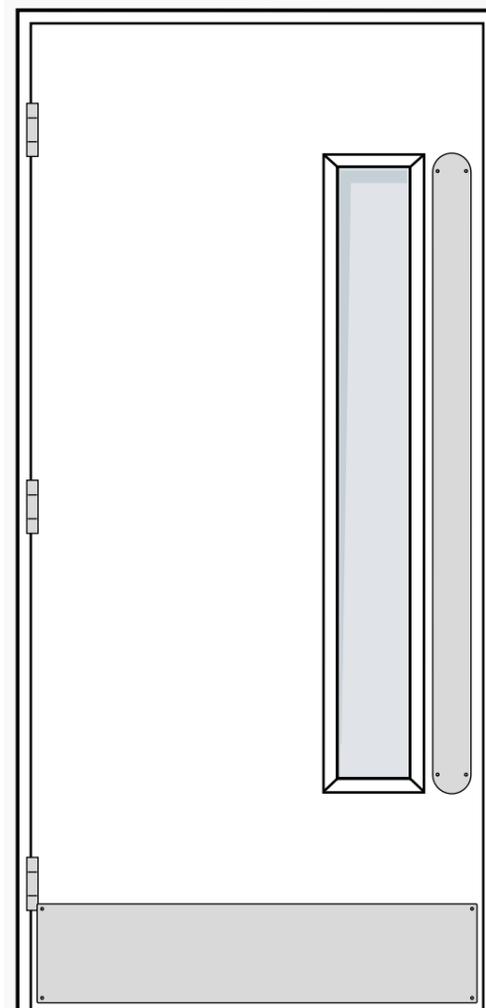


PP03

Extended, round-end rectangular push plate.

Technical Data

Width	75 mm
Height	1400 mm
Thickness	1.2 mm
Material	Stainless steel

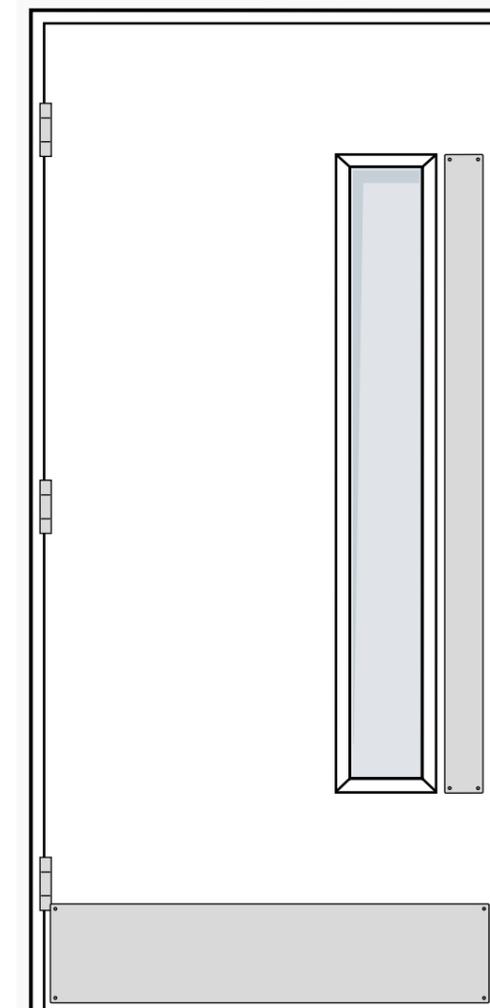


PP04

Extended, square-end rectangular push plate.

Technical Data

Width	75 mm
Height	1400 mm
Thickness	1.2 mm
Material	Stainless steel



*Push plates are not factory fitted, as there is a risk of damage when transporting doorsets with the pull handle already fitted. However if you prefer, we can machine and fit the push plate to confirm the correct placement and this should then be removed onsite to fit the pull handle.

*Push plates are not factory fitted, as there is a risk of damage when transporting doorsets with the pull handle already fitted. However if you prefer, we can machine and fit the push plate to confirm the correct placement and this should then be removed onsite to fit the pull handle.

Finishes

Integrated finger protection hardware is available in various finishes, including wood veneer, please contact Ahmarra for more information.

FINGER PROTECTION

Hardware to reduce the risk of injury caused by finger trapping.

ALUMAX
Integrated aluminium finger protection hinge.

Technical Data

Fire ratings	NFR, FD30, FD60
Acoustic rating	up to 38dB*
Finishes	Anodised aluminium (standard) Powder coated (any RAL colour) Timber Foil Aluminium
Opening angle	100°
Max door height	2700 mm
Max door width	1100 mm

Benefits

- Fully integrated solution
- Unrivalled safety solution
- Clean, stylish aesthetic
- Adjustable on-site
- Tamper-proof
- Robust construction

ALUMINI
Surface mounted finger-ejecting guard.

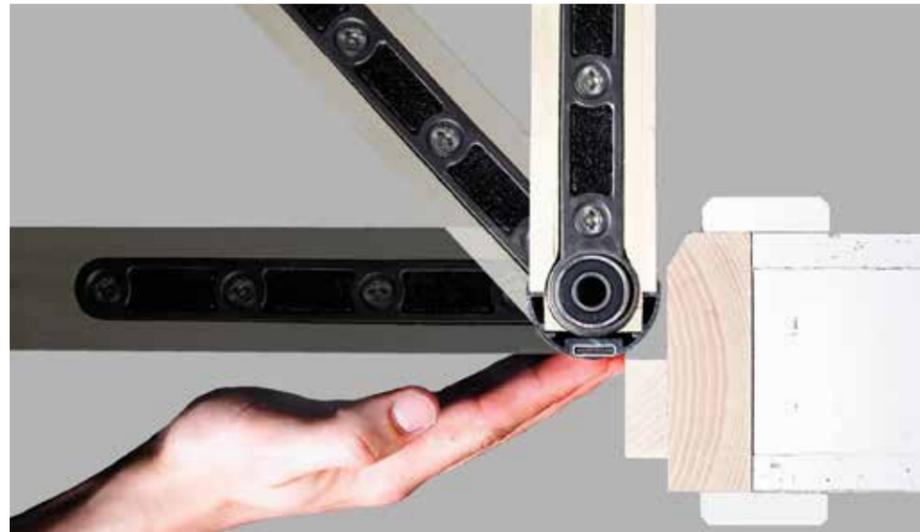
Technical Data

Fire ratings	NFR, FD30, FD60
Acoustic ratings	up to 40db*
Finishes	Satin stainless steel Charcoal Grey
Fabric	polyurethane backed
Opening angle	180° (providing hinge and architrave situation allow)
Length	1925 mm

Benefits

- Excellent value option
- Easily installed, retrofit (useful for refurbishment projects)
- Excellent safety solution
- Robust construction
- Nominal impact of door opening force

*Subject to door configuration.



Alumax finger protection.



Alumini finger protection.

Finger trapping in schools

The Royal Society for the Prevention of Accidents (RoSPA) estimates that 30,000 children trap and seriously injure their fingers in doors every year and more than 1,500 of these will need surgery.

The integral finger guard, Alumax, designs out the gap between the door and frame – minimising the chance of wandering fingers being trapped. The retrofit finger-ejecting guard, Alumini, uses clever geometry to eject wandering fingers – minimising the risk of accidents.



A CLIENT FOCUSED APPROACH

We remain focused on providing excellent customer service from inception to completion of a project. We do this through our tried and trusted manufacturing and project management team, who implement first rate procedures ensuring projects are delivered on time and to the clients' expectations. We build long term relationships with our clients because we take the time to understand their needs and we treat every job as our passport to future business.



SITE PROTECTION

Our doors are delivered wrapped in a suitable packaging material as standard. Through our experience of site installation and the damage that can occur during the building process, we recognise the need for good, on-site protection. We now offer full site protection applied in the factory, that will allow the door to function normally (open and close) but will last until the end of the project when it can be removed. In addition we are happy to recycle the protective packaging at no extra cost.



Please note: We reserve the right to amend/upgrade the products within this range and any images are representative of what will be provided. British standards, guidance documents, best practice specifications and many other factors are regularly revised and updated in the fire door sector. Ahmarra are keen to provide compliant and cost effective components to our customers which may result in similar products being utilised occasionally. Fully detailed specifications will be provided on a job specific basis.

A SELECTION OF OUR MAIN CONTRACTOR CUSTOMERS



TESTIMONIALS

"Willmott Dixon has been working closely with Ahmarra on recent projects in Surrey. We have been very happy with the way the company have performed: The product itself is of good quality, and produced to a high specification. Advice given for the selection of doors was excellent.

Any concerns we may have had were dealt with in an efficient and courteous manner. All in all we would have no hesitation in recommending them for future projects."

Willmott Dixon

"Having worked with Ahmarra on a number of projects, we have been very impressed with the level of expertise offered. From original enquiry to delivery and installation, Ahmarra gave us intelligent advice and excellent service to ensure that we selected the correct doors to the correct specification".

Balfour Beatty

"Thank you for the excellent service. We are very happy with the quality of the product and installation and would highly recommend you for other projects in the future"

Vinci Construction Ltd

FREE ADVICE & SAMPLE SERVICE

Our experienced team are happy to offer you expert advice and veneer samples if required, please contact us at:

phone: 02392 389 076
email: sales@ahmarra.co.uk
website: www.ahmarra.co.uk

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