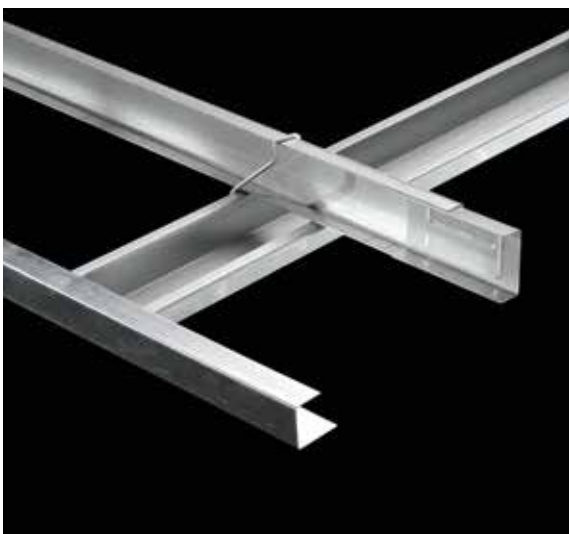
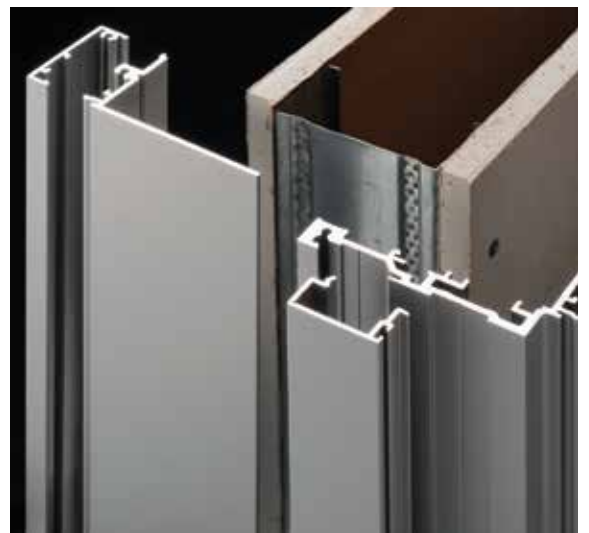




fast track interior products

SAS Fast track interiors is a range of UK manufactured products that provide outstanding value to all interior projects. The range includes ceiling tiles and grids, drywall and drylining components, aluminium partitioning systems and integrating door and door sets, each manufactured to our world-class standards.

A nationwide network of depots holds stock of our fast track products for same day collection or next day delivery across the United Kingdom and the Republic of Ireland.



ceilings

- SAS System 120 clip-in metal ceiling
- SAS International white tee grid
- SAS Emac metal furring ceilings
- SAS ceiling trims and accessories

drywall & drylining

- SAS Emac drywall components
- SAS System 1000 Drywall+
- SAS Emac wall liner components
- SAS drywall trims and accessories

partitioning

- fire and acoustic summary
- SAS System 2000 (2" / 50mm)
- SAS System 3000 (3" / 75mm)
- SAS System 4000 (4" / 100mm)
- SAS System 8000i fast track fully glazed
- SAS XP rapid fit door and window sets

03

glass and glazing

- glass overview and lead times
- types of glass and partitioning build heights
- glass joints
- glass doors
- fire screens
- manifestations & graphics
- integral blinds
- architectural glass

133

31

doors and doorsets

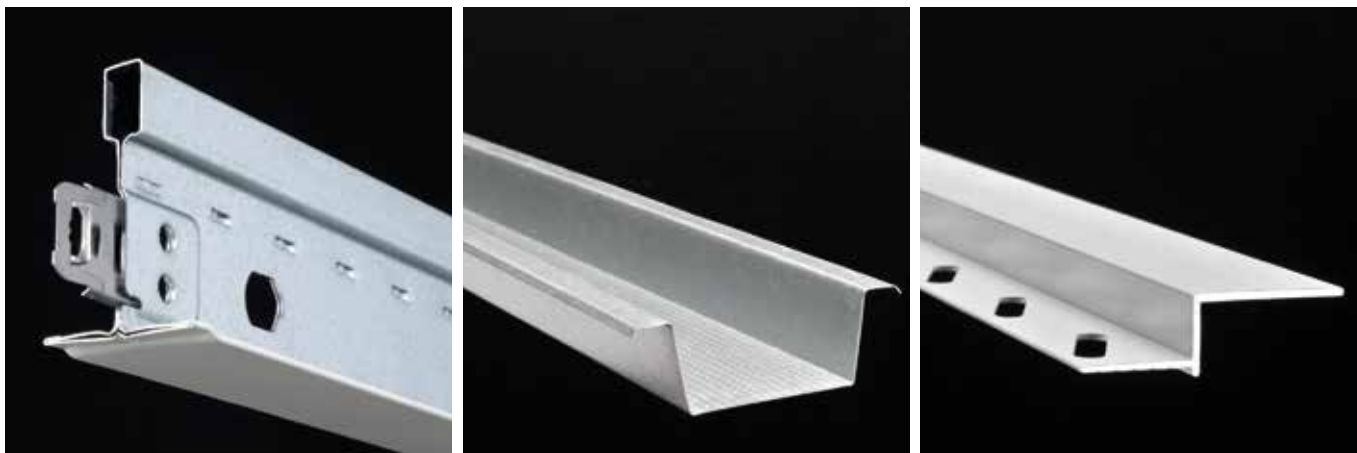
- guide to specifying
- door lining options
- door leaves & performance
- door finishes
- vision panel options
- door ironmongery

165





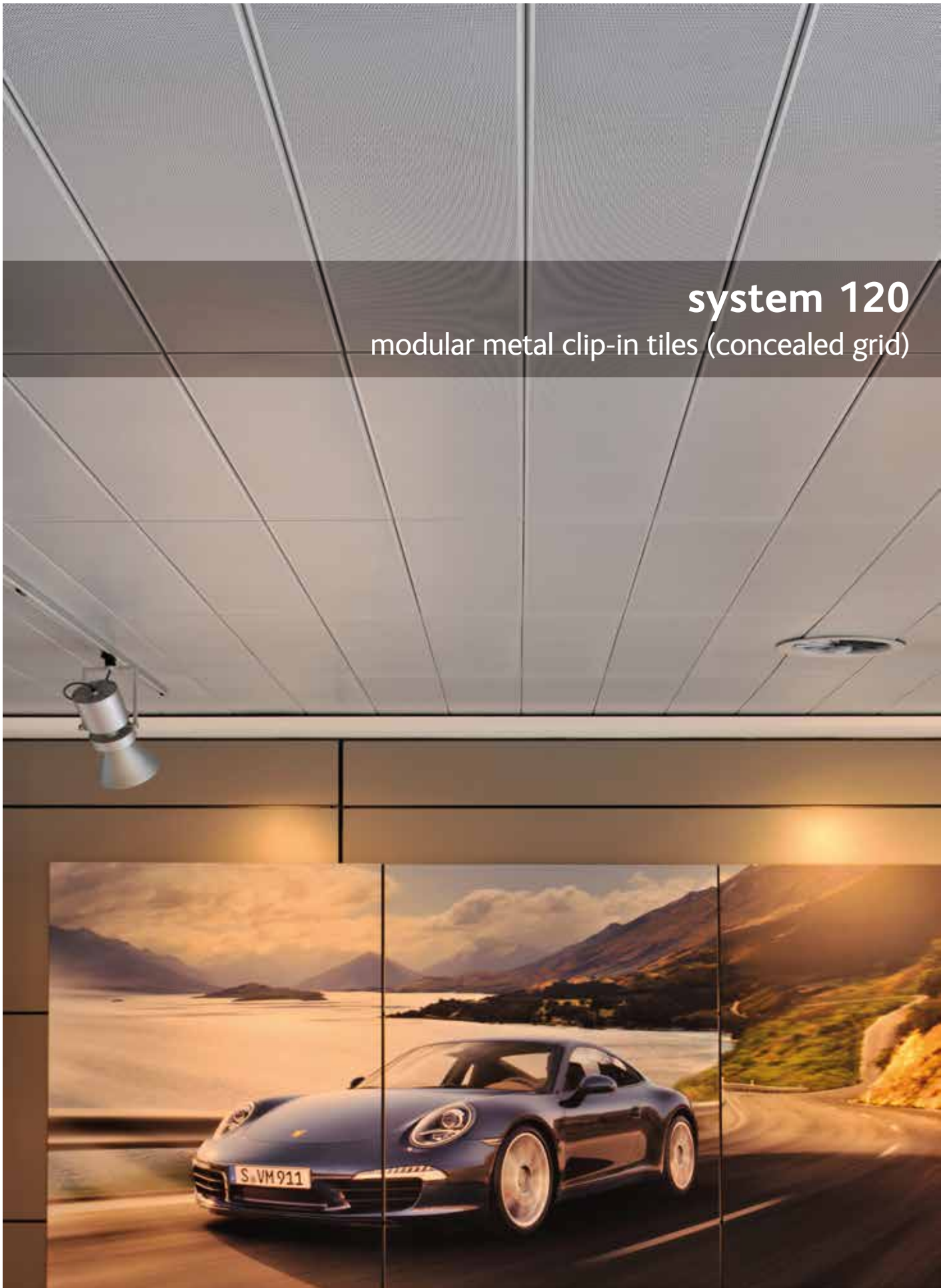
ceilings



system 120	05
Clip-in acoustic metal ceiling	
tee grid	11
International White grid for mineral ceilings	
Emac metal furring	17
Cold rolled metal ceiling gird for plasterboard ceilings	
steel & aluminium trims	21
Ceiling perimeter and interface trims	



system 120
modular metal clip-in tiles (concealed grid)



system 120 overview

System Description

SAS System 120 is a range of square and rectangular clip-in metal ceiling tiles supported from a concealed SAS Spring Tee suspension grid.

System Features

- Closed butt joints with bevelled edges
- Concealed grid system
- Demountable
- Upward cleaning pressure can be applied to remove stubborn marks without disturbing tile
- Minimum 25-year product life expectancy

Access

Access within overall construction depth. Secure void, easy access tool required to demount tile.

Standard Module Sizes (mm)

600 x 600 1200 x 300 1200 x 600

Other sizes are available on request. Please contact a member of our sales team for further details.

Finish

Polyester Powder coated supplied as standard with a RAL 9010 smooth finish. Other colours are available on request.

Grid System

Clip-in SAS Spring Tee (concealed grid).

Shape

Tiles are square or rectangular and incorporate a pip and stop locating detail.

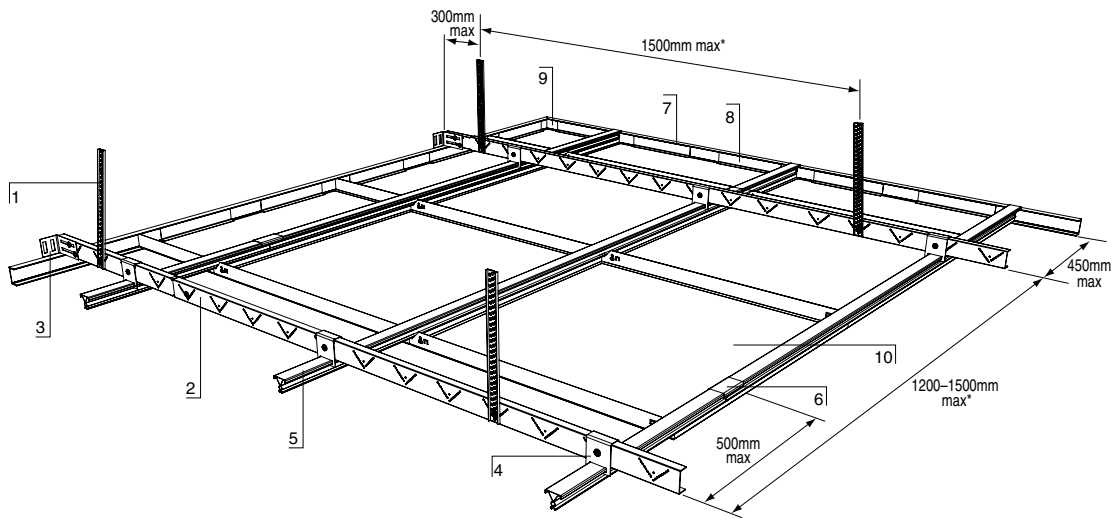
Perforation

Tiles can be supplied as Standard, Plain or with 1522, 1820 or 2516 perforation.

Weight

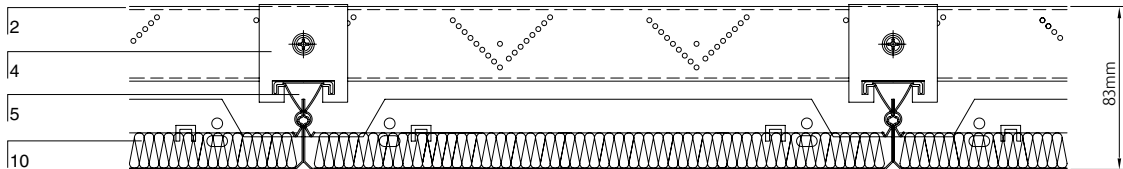
Approximately 9kg/m² for steel tiles, acoustic pad and suspension, based on 600 x 600 module size.





- 1] Emac Hanger 2] Emac Channel 3] Emac Wall Anchor 4] Emac Spring Tee to Channel Bracket 5] SAS Spring Tee
 6] Emac Spring Tee Splice 7] Perimeter Trim 8] Perimeter Wedge 9] Corner splice 10] System 120 Tile

Section Drawing


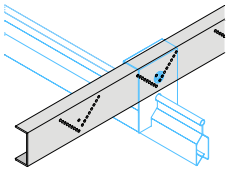
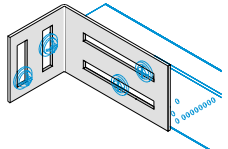
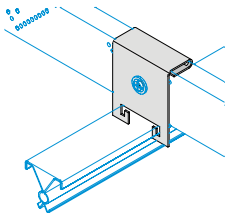
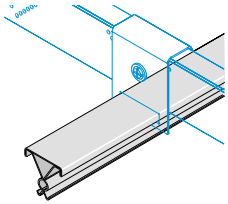
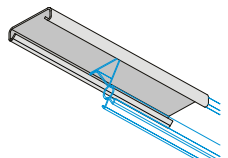
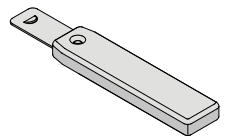


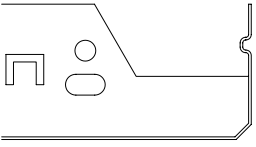
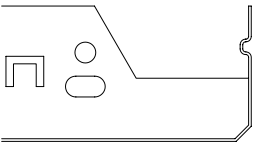
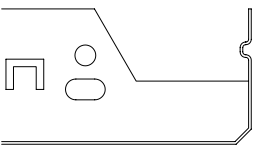

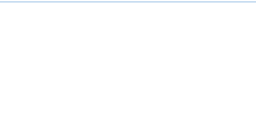
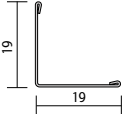
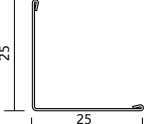
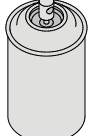
Acoustic Performance Data

		Attenuation	Absorption	
		dB	NRC	$\alpha\omega$
	Plain tile.	38	N/A	
	Perforated tile with acoustic fleece.	13	Class C	
			0.70	0.65
	Perforated tile with 18mm x 80kg/m ³ acoustic pad.	30	Class A	
			0.85	0.90

Results above extracted from tests undertaken using perforation reference S1820.

system 120 components

	Item Description	Nominal Length /Height	Item Number	Carton Qty
	Emac Hanger	300mm	10188	100
		400mm	10189	
		500mm	10190	
		600mm	10191	
		800mm	10192	
		1000mm	10185	
		1200mm	10186	
		1500mm	10187	
	Emac Channel (1.2mm gauge)	4000mm	22974	1
	Emac Channel (1.5mm gauge)	4000mm	22975	
	Emac Wall Anchor	-	12097	100
	Emac Spring Tee to Channel Bracket (Standard)	83mm	12522	100
	SAS Emac Spring Tee	4000mm	22976	1
	Emac Spring Tee Splice	-	10408	100
	Access Tool for System 120 (pair)	-	10196	1 Pair

	Item Description	Perforation	Size	Item Number	Carton Qty
	Plain (unperforated) metal ceiling tile (RAL 9010)	Plain	600 x 600mm	12597	16
		Plain	1200 x 600mm	10379	10
		Plain	1200 x 300mm	14598	16
	Perforated metal tile (RAL 9010)	D.1522	600 x 600mm	10373	16
		S.1820	600 x 600mm	51560	16
		S.2516	600 x 600mm	14952	16
	Perforated metal tile c/w acoustic fleece (RAL 9010)	D.1522	600 x 600mm	10377	16
		S.1820	600 x 600mm	14950	16
		S.2516	600 x 600mm	14952	16
	Item Description		Nominal Length /Height	Item Number	Carton Qty
	18 x 80kg acoustic pad wrapped in black tissue and finished with aluminium backing		600 x 600mm	12627	1
			1200 x 300mm	10601	1
			1200 x 600mm	12550	1
	18 x 80kg acoustic pad wrapped in black polythene		600 x 600mm	12459	1
			1200 x 300mm	61696	1
			1200 x 600mm	11284	1
	Item Description		Size	Item Number	Carton Qty
	19 x 19mm Galvanised Angle		3600mm	10183	1
	25 x 25mm Galvanised Angle		3600mm	10184	1
	RAL9010 Touch Up Spray Paint 400ml Can		400ml	148455	1

Other tile sizes and acoustic backings are available on request.
A full range of perimeter trims and angles can be found on pages 21 to 28.





SAS International white tee grid
T15 / T24 grid for mineral fibre ceiling tiles

SAS International white tee grid

SAS Tee Grid Description (T15 / T24)

SAS Exposed Tee Grid is a range of 'International White' 38mm deep main runners and cross tees, which are roll formed using galvanised steel and a pre-coated capping.

Available in widths of 15mm (T15) and 24mm (T24), with main runners lengths in 3000mm (3m) and 3600mm (3.6m). Butt cut or joggled end detailing is available on all cross tees.

Tee Grid Features

- Price competitive UK manufactured grid
- Easy to install
- Strong Modular Appearance
- Double-stitched for strength and rigidity
- Flexible punching centres for ceiling modules
- Butt-cut or Joggled end options in accordance with specification
- Compatible with all T15 and T24 lay in ceiling tiles
- Cross Tee depth of 38mm ensures strength and rigidity
- Optional 25mm shallow cross tees available

Finish/Colour

Supplied as standard in 'International White'. Other colours are available upon request.

Loading

A lightweight system can support additional loads such as services up to a limit of 3kg. This limit is based on a point or uniformly distributed load over 0.36m², positioned a minimum of 1000mm apart.

For further advice please contact the SAS technical department.

Fire Performance

Fire Certification for up to 60 minutes is available upon request.

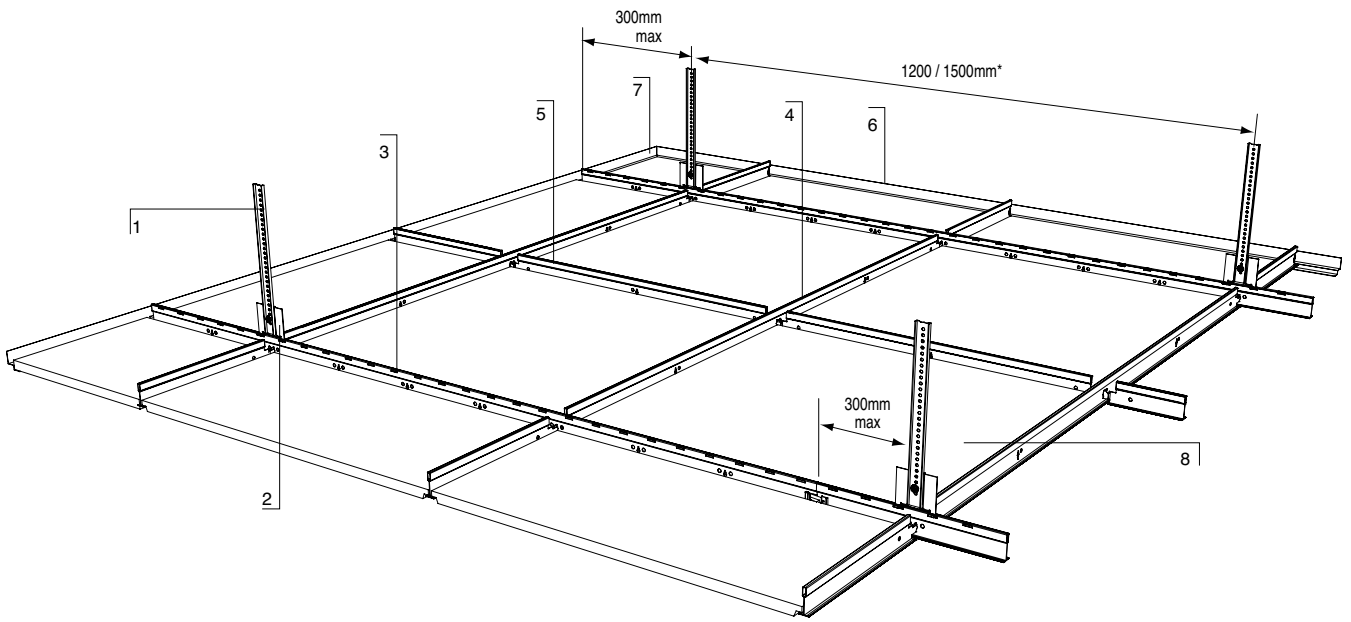
Guarantee and Installation

SAS International guarantee all ceiling tile products used with SAS Tee Grid providing the ceiling has been installed in accordance with:

- BS EN 13964:2004 Suspended Ceilings, Requirements and test methods.
- AIS (Association of Interior Specialists) Guide No 1. Good Practice For The Installation Of Suspended Ceilings.

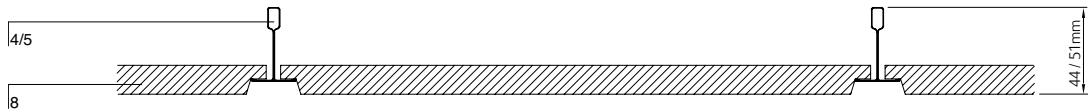
For further guidance please contact a member of our technical team.





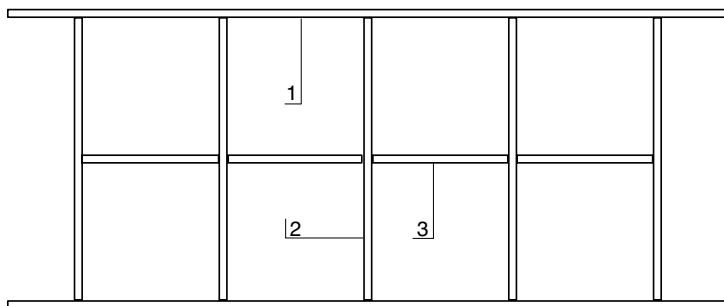
- 1] Emac Hanger 2] Emac Hanger Bracket 3] Main Runner 4] Double Module Cross Tee 5] Single Module Cross Tee
- 6] Perimeter Trim 7] Corner splice 8] Mineral Wool Tile

Section Drawing

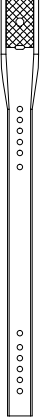
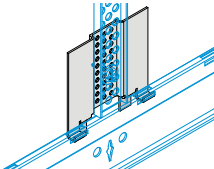
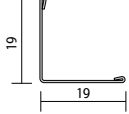
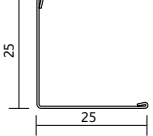
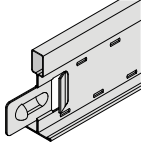
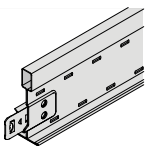
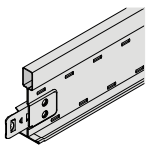


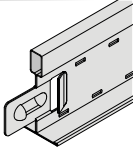
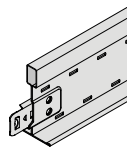
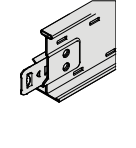
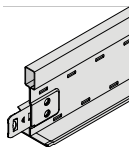
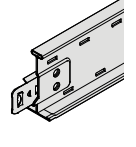
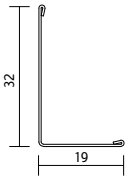
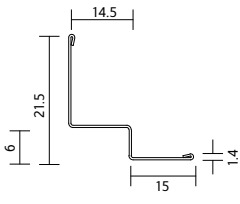
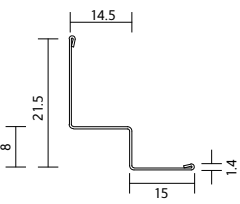
Grid Configuration Guide

600 x 600mm Module



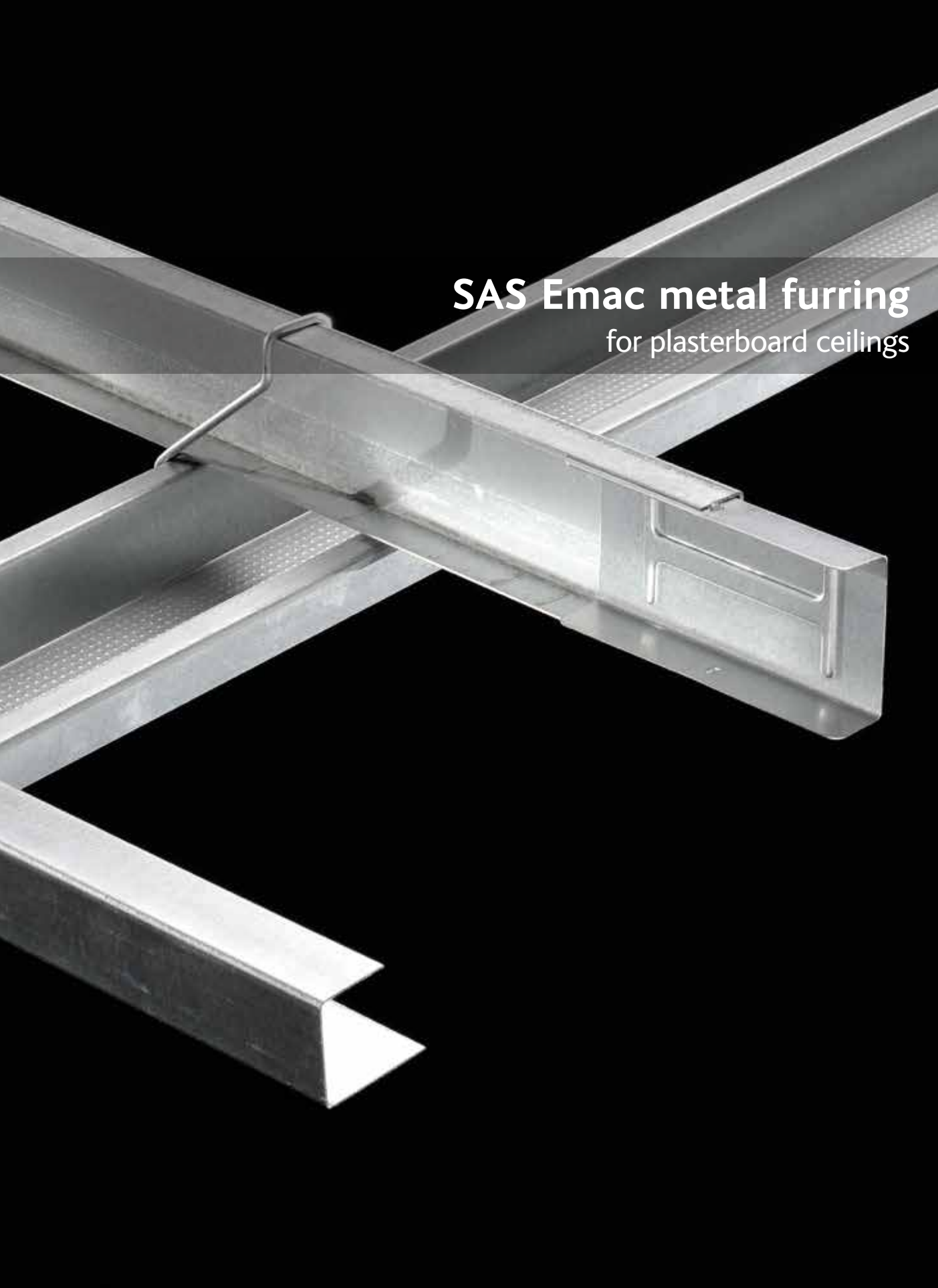
- 1] Main Runner 2] Double Module (1200mm) Cross Tee 3] Single Module (600mm) Cross Tee

	Item Description	Nominal Length /Height	Item Number	Carton Qty
Suspension Components				
	Galvanized Suspension Wire (4kg – 2mm diameter)		39657	1
	Galvanized Suspension Wire (5kg – 2.5mm diameter)		126043	1
	Emac Hanger	300mm	10188	50
		400mm	10189	
		500mm	10190	
		600mm	10191	
		800mm	10192	
		1000mm	10185	
		1200mm	10186	
		1500mm	10187	
	Emac Hanger Bracket	–	10630	100
	19 x 19mm Galvanised Angle	3600mm	10183	1
	25 x 25mm Galvanised Angle	3600mm	10184	1
T15 Tee Grid Components – Main Runner				
	38mm Main Runner (Multi Punching)	3000mm	30206	20
	38mm Main Runner (100mm Punching)	3600mm	30207	20
T15 Tee Grid Components – 600mm Module Cross Tees (Butt Cut)				
	38mm Single Module Cross Tee (Butt Cut)	600mm	30209	60
	38mm Double Module Cross Tee (Butt Cut)	1200mm	30212	60
T15 Tee Grid Components – 600mm Module Cross Tees (Joggled)				
	38mm Single Module Cross Tee (Joggled)	600mm	30214	60
	38mm Double Module Cross Tee (Joggled)	1200mm	30218	60

	Item Description	Nominal Length /Height	Item Number	Carton Qty
T24 Tee Grid Components – Main Runner				
	38mm Main Runner (Multi Punching)	3000mm	30220	20
	38mm Main Runner (100mm Punching)	3600mm	30221	20
T24 Tee Grid Components – 600mm Module Cross Tees (Butt Cut)				
	38mm Single Module Cross Tee (Butt Cut)	600mm	30223	60
	38mm Double Module Cross Tee (Butt Cut)	1200mm	30226	60
	25mm Single Module Cross Tee (Butt Cut) – Shallow Grid	600mm	60315	60
	25mm Double Module Cross Tee (Butt Cut) – Shallow Grid	1200mm	60317	60
T24 Tee Grid Components – 600mm Module Cross Tees (Joggled)				
	38mm Single Module Cross Tee (Joggled)	600mm	30228	60
	38mm Double Module Cross Tee (Joggled)	1200mm	30231	60
	25mm Single Module Cross Tee (Joggled) – Shallow Grid	600mm	60316	60
	25mm Double Module Cross Tee (Joggled) – Shallow Grid	1200mm	60318	60
International White Perimeter Angles				
	32 x 19mm Perimeter Angle	3000mm	29011	1
	15 x 6mm Shadowgap Perimeter Angle	3000mm	112254	1
	15 x 8mm Shadowgap Perimeter Angle	3000mm	112255	1

A full range of perimeter trims and angles can be found on pages 21 to 28.



A close-up photograph of several silver-colored metal furring channels. The channels are arranged in a grid pattern, with one channel in the foreground being slightly offset to show its profile. The channels have a perforated surface on one side and a smooth surface on the other. A small metal clip is attached to one of the channels. The background is black.

SAS Emac metal furring
for plasterboard ceilings

SAS Metal Furring Grid Description

SAS Emac MF Grid is a range of fully concealed cold-rolled metal products that enable the construction of plasterboard ceilings.

They are suitable for most internal drylining applications to create a monolithic appearance.

Reducing installation time the grid is suspended from SAS Emac hangers, this reduces the need to snip, fold and punch angle or apply angle cleats.

SAS Emac Metal Furring Grid Features

- Easy to install
- Concealed grid system
- Monolithic appearance
- Easy to create bulkheads or other level changes
- Suitable for most drylining applications
- Provides up to 49dB acoustic performance
- Provides up to 120 minutes fire performance

Finish/Colour

Supplied as galvanised steel, further protective coatings can be supplied on request.

Loading

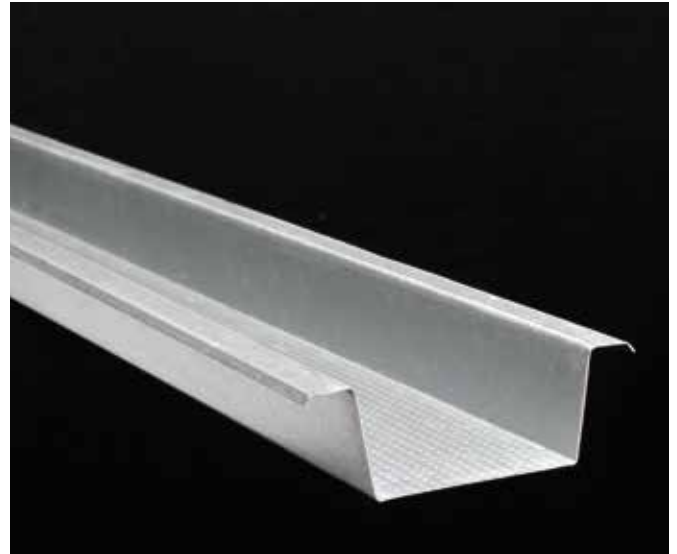
A lightweight system can support additional loads such as services up to a limit of 60kg. This limit is based on a point or uniformly distributed load over 0.36m² with Emac5 ceiling channels installed at 450mm centres. For further advice please contact the SAS technical department.

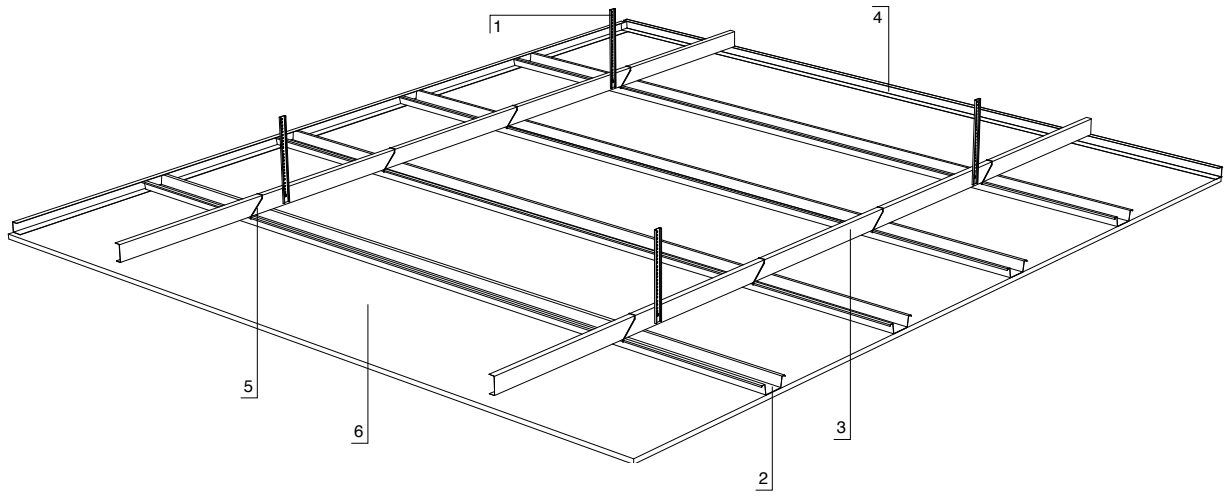
Performance and installation

SAS International guarantees all installations using SAS MF Grid will meet the performance levels as set out by the plasterboard manufacturers. All products will be guaranteed providing the ceiling has been installed in accordance with:

- BS EN 13964:2004 Suspended Ceilings, Requirements and test methods.
- Plasterboard Manufacturers guidance
- AIS (Association of Interior Specialists) Best Practice Guide: installation of suspended ceilings

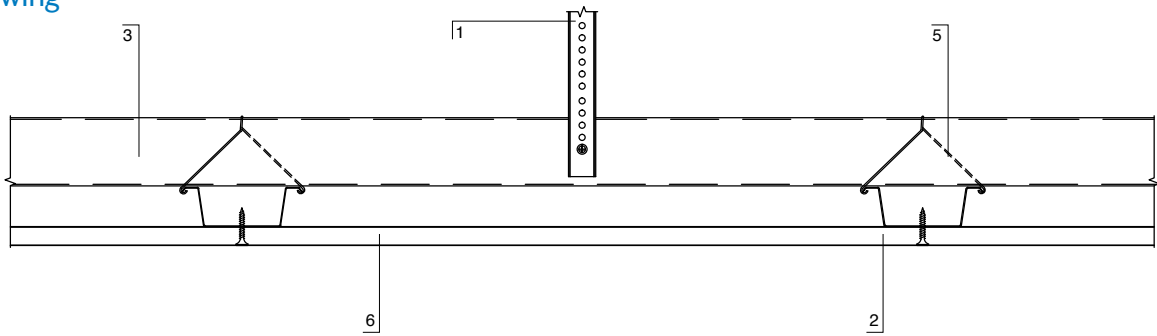
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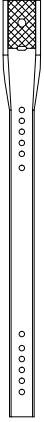

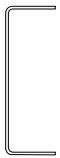
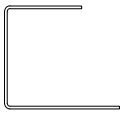
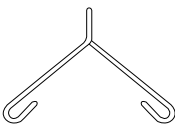


- 1] Emac Hanger
- 2] Emac 5 Ceiling Channel
- 3] Emac 7 Primary Channel
- 4] Emac 6A Perimeter Channel
- 5] Connecting Clip
- 6] Plasterboard

Section Drawing

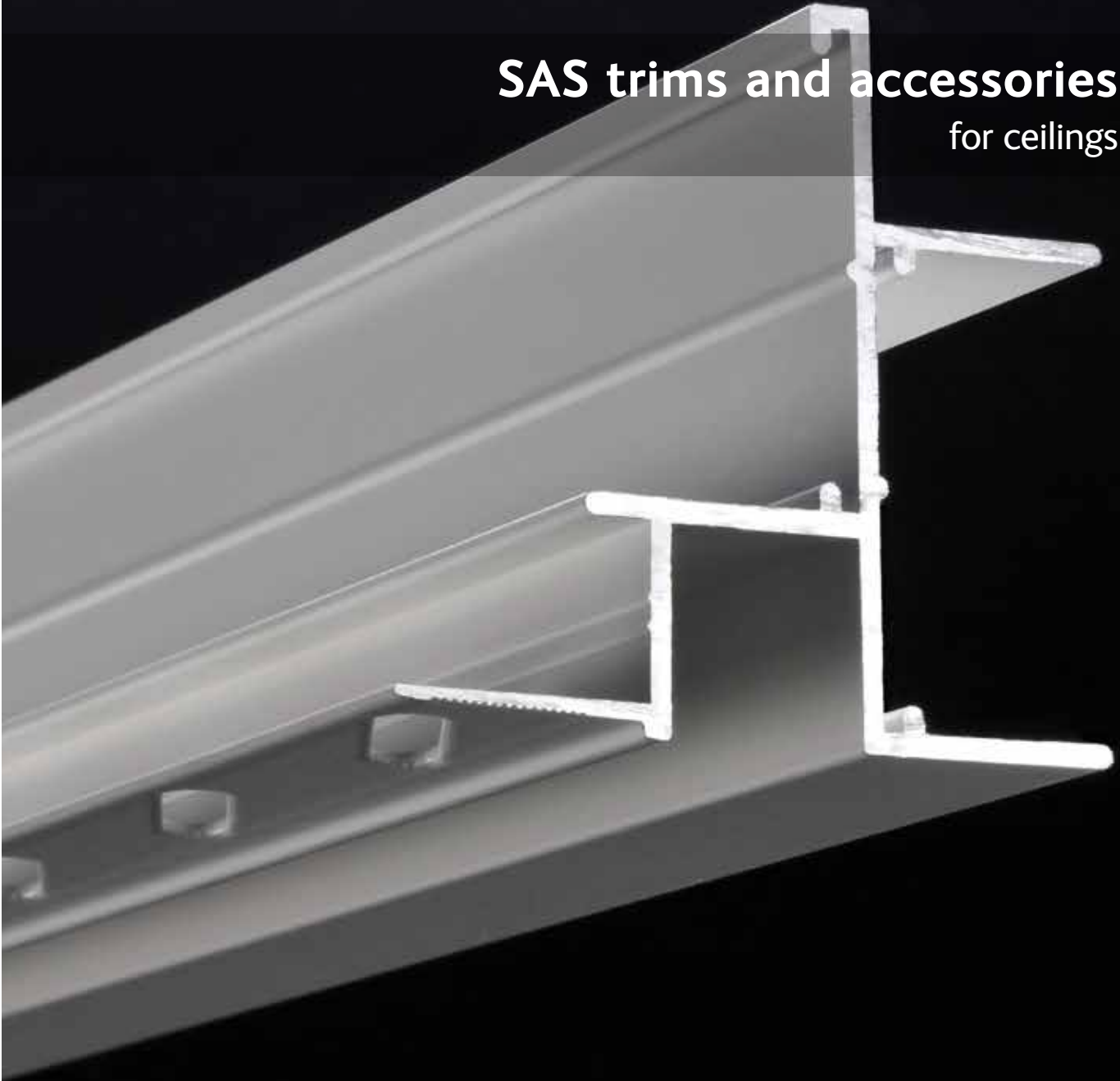


SAS Emac metal furring components

	Item Description	Nominal Length /Height	Item Number	Carton Qty
SAS MF Grid – Emac Hanger				
	Emac Hanger	300mm	10188	100
		400mm	10189	
		500mm	10190	
		600mm	10191	
		800mm	10192	
		1000mm	10185	
		1200mm	10186	
		1500mm	10187	
SAS MF Grid – Components				
	Emac 5 Ceiling Channel	3600mm	54962	1
	Emac 7 Primary Channel	3600mm	54964	1
	Emac 6A Perimeter Channel	3600mm	54963	1
	Emac 9 Connecting Clip	–	54965	200

A full range of perimeter trims and angles can be found on pages 21 to 28.

SAS trims and accessories for ceilings



SAS Ceiling Perimeter Trims

SAS offer a complete range of steel and aluminium perimeter angles and trims to suit all ceilings applications from plasterboard to metal.

The range includes angle trims, channel trims, plasterboard perimeter trims along with bulkhead trims and blind boxes. In addition many of the trims include transition details enabling ceiling tiles to fully integrate with plasterboard

The advantages of aluminium trims and perimeters are:

- The precise alignment between sections
- Easy installation
- Exterior quality polyester powder finish as standard

Finish/Colour

Steel trims are supplied either as galvanised or finished in SAS International White. Aluminium trims are finished as standard in RAL9010 20% gloss but can be supplied in RAL9016 or with a fine textured finish. Other colours are available on request.

Perimeter Trims

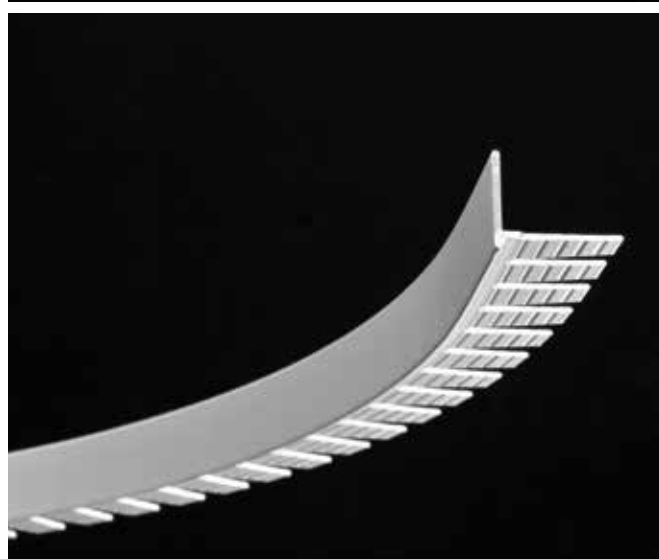
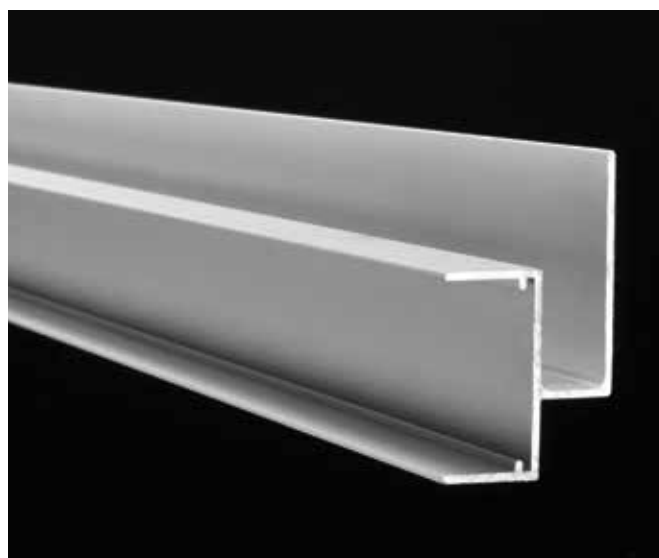
The extensive range of perimeter trims is designed to accommodate all types of suspended ceiling systems by masking the edges of tiles at both the perimeters and penetration points.

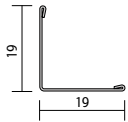
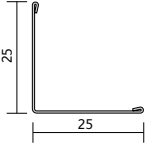
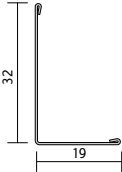
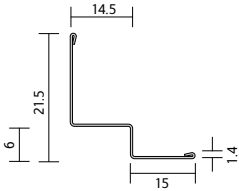
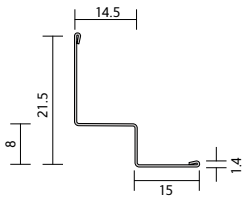
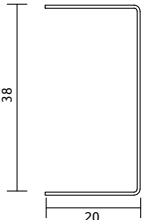
- Angle trims are designed for mineral fibre and GRG ceiling tile systems.
- Channel trims are generally used for masking the cut edges of metal ceiling tiles. Wedges hold the tile edge tightly in place to give a clean finish.
- Shadowgap style perimeter trims provide an additional attractive feature detail.
- The range of tile to plasterboard trims is designed to accommodate all ceiling types with a choice of shadowgap options. A number of trims feature tapered fins that permit the use of conventional tape and joint finishes to achieve a smooth interface with the plasterboard.

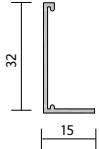
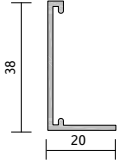
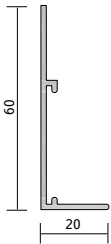
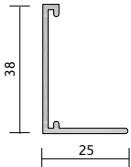
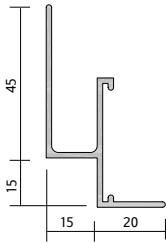
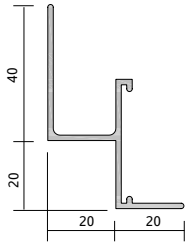
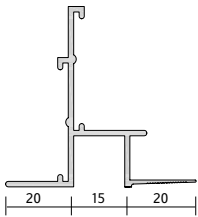
Column Rings and Radiused Trims

Perimeter trims and shadowgap sections can be rolled to form radiused profiles and circular column rings to match perimeter details.

When specifying or ordering radiused trims it is necessary to state whether they are required toe-in or toe-out, further details are available on page 28.

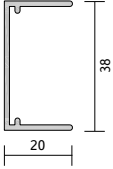
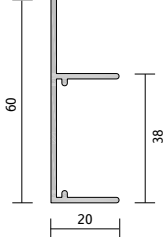
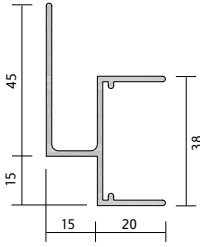
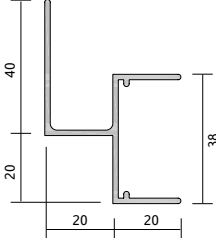
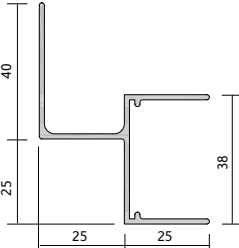
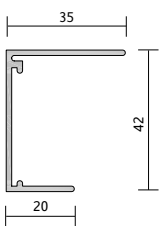


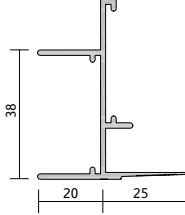
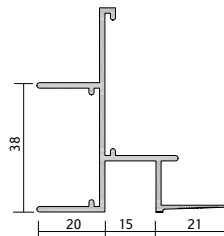
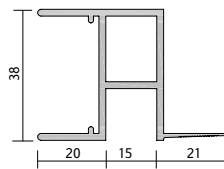
Steel Angle and Trims (RAL 9016)		
	19 x 19mm Galvanised Angle	
	Item No: 10183	Length: 3600mm
	25 x 25mm Galvanised Angle	
	Item No: 10184	Length: 3600mm
	32 x 19mm Perimeter Angle (RAL 9010)	
	Item No: 10397	Length: 3000mm
	32 x 19mm Perimeter Angle (International White)	
	Item No: 29011	Length: 3000mm
	6 x 6mm Shadowgap Perimeter Angle (International White)	
	Item No: 112254	Length: 3000mm
	8 x 8mm Shadowgap Perimeter Angle (International White)	
	Item No: 112255	Length: 3000mm
	20mm Channel (RAL9010)	
	Item No: 10199	Length: 3000mm

Angle Trims (RAL 9010)		
	TCA 0101: 15mm Perimeter Angle †	
	Item No: 10538	Length: 3000mm
	TCA 0105: 20mm Perimeter Angle †	
	Item No: 10539	Length: 3000mm
	TCA 0107: 20mm Extended Leg Perimeter Angle †	
	Item No: 10540	Length: 3000mm
	TCA 0113: 25mm Perimeter Angle †	
	Item No: 10544	Length: 3000mm
	TCA 0123: 15mm Shadowgap 20mm Perimeter Angle †	
	Item No: 10545	Length: 3000mm
	TCA 0127: 20mm Shadowgap 20mm Perimeter Angle †	
	Item No: 10547	Length: 3000mm
	TRU-SH-150: 15mm Shadowgap, 20mm Angle to plasterboard †	
	Item No: 10538	Length: 3000mm

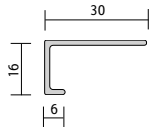
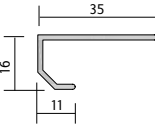
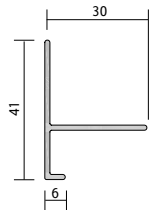
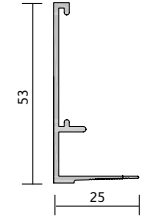
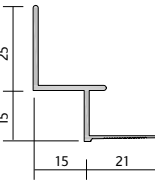
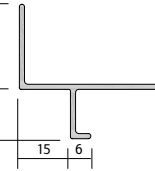
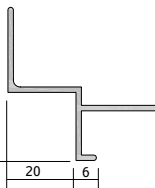
† Suitable for rolling

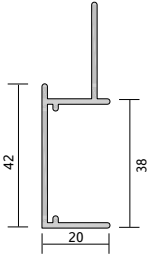
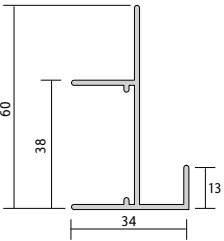
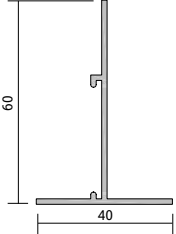
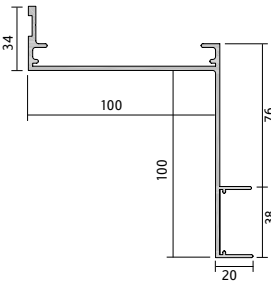
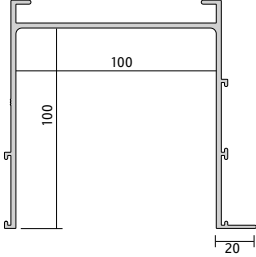
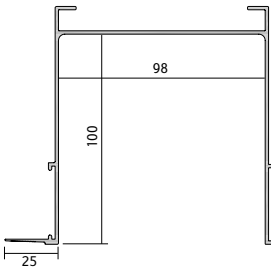
SAS channel trims for metal and mineral ceilings

Channel Trims (RAL 9010)	
	<p>TCA 0108: 20mm Channel †</p> <p>Item No: 10541 Length: 3000mm</p>
	<p>TCA 0110: 20mm Extended Leg Channel †</p> <p>Item No: 10543 Length: 3000mm</p>
	<p>TCA 0124: 15mm Shadowgap 20mm Channel †</p> <p>Item No: 10546 Length: 3000mm</p>
	<p>TCA 0128: 20mm Shadowgap 20mm Channel †</p> <p>Item No: 10548 Length: 3000mm</p>
	<p>TCA 0133: 25mm Shadowgap 25mm Channel †</p> <p>Item No: 10549 Length: 3000mm</p>
	<p>TCA 0109: 20mm Extended Top Leg Channel †</p> <p>Item No: 10542 Length: 3000mm</p>

Transition Channel Trims (RAL 9010)	
	<p>TRU-MJ-150: 20mm Channel to plasterboard</p> <p>Item No: 10586 Length: 3000mm</p>
	<p>TRU-SJ-150: 15mm Shadowgap, 20mm Channel to plasterboard feathered †</p> <p>Item No: 10580 Length: 3000mm</p>
	<p>FAB-SJ-150: 15mm Shadowgap, 20mm Channel to plasterboard feathered (Curved) †</p> <p>Item No: n/a Length: 3000mm</p>

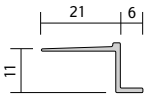
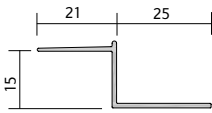
† Suitable for rolling

Plasterboard Perimeter Trims (RAL 9010)	
	<p>TCA 0152: Plasterboard Trim †</p> <p>Item No: 10552 Length: 3000mm</p>
	<p>TCA 0153: Bevelled Plasterboard Trim †</p> <p>Item No: 10553 Length: 3000mm</p>
	<p>TCA 0154: Extended Leg Plasterboard Trim †</p> <p>Item No: 10554 Length: 3000mm</p>
	<p>TRU-PT-250: 25mm Feathered Extended Leg Plasterboard Trim †</p> <p>Item No: 10585 Length: 3000mm</p>
	<p>TRU-ST-150: 15mm Shadowgap Feathered Plasterboard Trim</p> <p>Item No: 10579 Length: 3000mm</p>
	<p>TCA 0155: 15mm Shadowgap Plasterboard Trim †</p> <p>Item No: 10555 Length: 3000mm</p>
	<p>TCA 0157: 20mm Shadowgap Plasterboard Trim †</p> <p>Item No: 10556 Length: 3000mm</p>

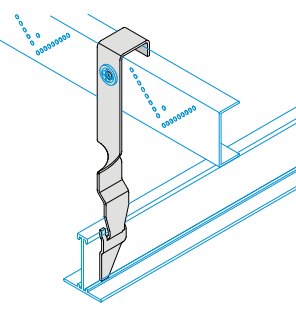
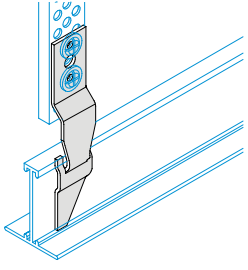
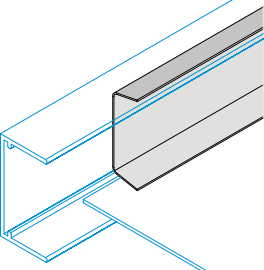
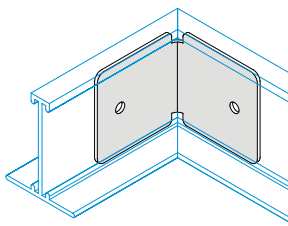
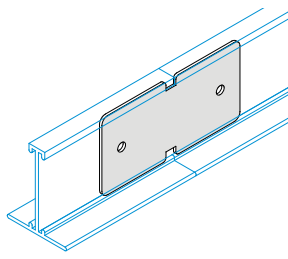
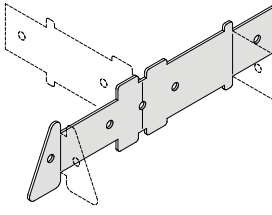
Plasterboard Bulkhead to Ceiling Trims (RAL 9010)	
	<p>TCA 0169: 20mm Channel to Plasterboard †</p> <p>Item No: 10697 Length: 3000mm</p>
	<p>TCA 0173: 20mm Channel to Plasterboard †</p> <p>Item No: 10557 Length: 3000mm</p>
	<p>TCA 0219: 20mm Angle to Plasterboard †</p> <p>Item No: 10564 Length: 3000mm</p>
Blind Box Trims (RAL 9010)	
	<p>TCA 0312: 100mm Blind Box Channel Trim</p> <p>Item No: 14103 Length: 3000mm</p>
	<p>TCA 0317: 100mm Blind Box Angle Trim</p> <p>Item No: 22427 Length: 3000mm</p>
	<p>TCA 1147: 98mm Blind Box Plasterboard Trim</p> <p>Item No: 14139 Length: 3000mm</p>

† Suitable for rolling

SAS edge and reveal trims

Edge Trims (RAL 9010)		Reveal Trims (RAL 9010)	
	TRU-ET-125 12.5mm Edge Trim †	Item No: 10575	Length: 3000mm
	TRU-ET-125F 12.5mm Flexible Edge Trim	Item No: 10574	Length: 3000mm
	TRU-ET-150 15mm Edge Trim †	Item No: 10576	Length: 3000mm
	TRU-ET-150F 15mm Flexible Edge Trim	Item No: 22432	Length: 3000mm
	TRU-ET-250 25mm Edge Trim †	Item No: 10577	Length: 3000mm
	TRU-RT-60 6mm Reveal Trim †	Item No: 34539	Length: 3000mm
	TRU-RT-125 12.5mm Reveal Trim †	Item No: 10571	Length: 3000mm
	TRU-RT-150 15mm Reveal Trim †	Item No: 10578	Length: 3000mm
	TRU-RT-250 25mm Reveal Trim †	Item No: 10573	Length: 3000mm
	TRU-RT-250D 25mm Reveal Trim † (for use with 15mm plasterboard)	Item No: 14205	Length: 3000mm

† Suitable for rolling

Trim Accessories		
	TCB 01: Emac Channel to Trim Bracket	
	Item No: 10529	-
	TCB 08: Emac Hanger to Trim Bracket	
	Item No: 10530	-
	Perimeter Wedge	
	Item No: 10178	-
	TCP 90: 90° Corner Splice	
	Item No: 10536	-
	TCP 180: Straight Splice	
	Item No: 10534	-
	TCP 360: Multi Splice	
	Item No: 14046	-

SAS radiused trims

When ordering any radiused trim it is necessary to specify whether the trim is required Toe-In or Toe-Out.

Where a radiused trim is in contact with a metal ceiling tile (tile perimeter trims or tile to plasterboard trim) the side that accepts the metal tile takes primary control in determining the toe.

For example:

When using a **Tile Perimeter Trim** such as TCA 0108, *Toe-In* indicates the “C-channel” that accepts the is rolled in towards the tiles. *Toe-Out* indicates the “C-channel” rolled away from the tiles.

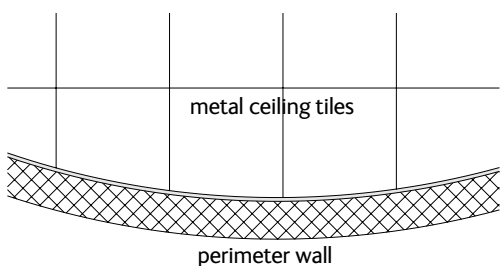
When using a **Tile to Plasterboard Trim** such as FAB-SJ-150, *Toe-In* indicates the “C-channel” is rolled in towards the tiles, and rolled away from the plasterboard. *Toe-Out* indicates the “C-channel” is rolled away from the tiles and rolled in towards the plasterboard.

In the case of Plasterboard perimeter trim where no ceiling tiles are used the plasterboard takes primary control in determining the toe.

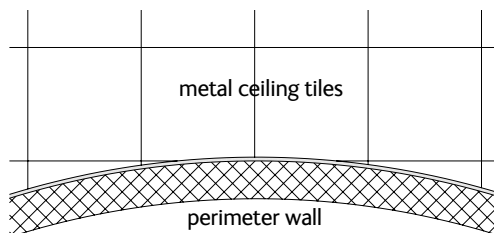
For example:

When using a **Plasterboard Perimeter Trim** such as FAB-ST-150, *Toe-In* indicates the plasterboard support edge is rolled in towards the plasterboard. *Toe-Out* indicates the plasterboard support edge is rolled away from the plasterboard.

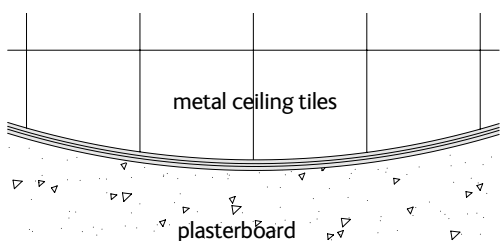
Radiused TCA 0108 *Toe-In*



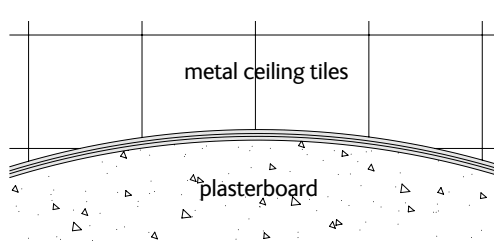
Radiused TCA 0108 *Toe-Out*



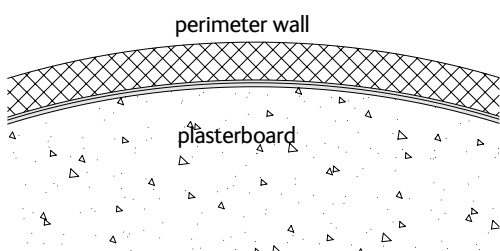
Radiused FAB-SJ-150 *Toe-In*



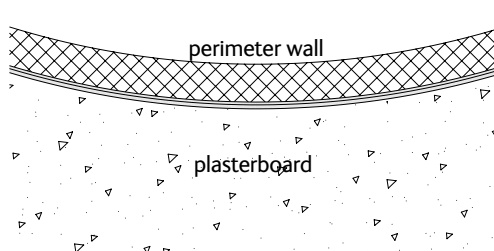
Radiused FAB-SJ-150 *Toe-Out*



Radiused FAB-ST-150 *Toe-In*



Radiused FAB-ST-150 *Toe-Out*



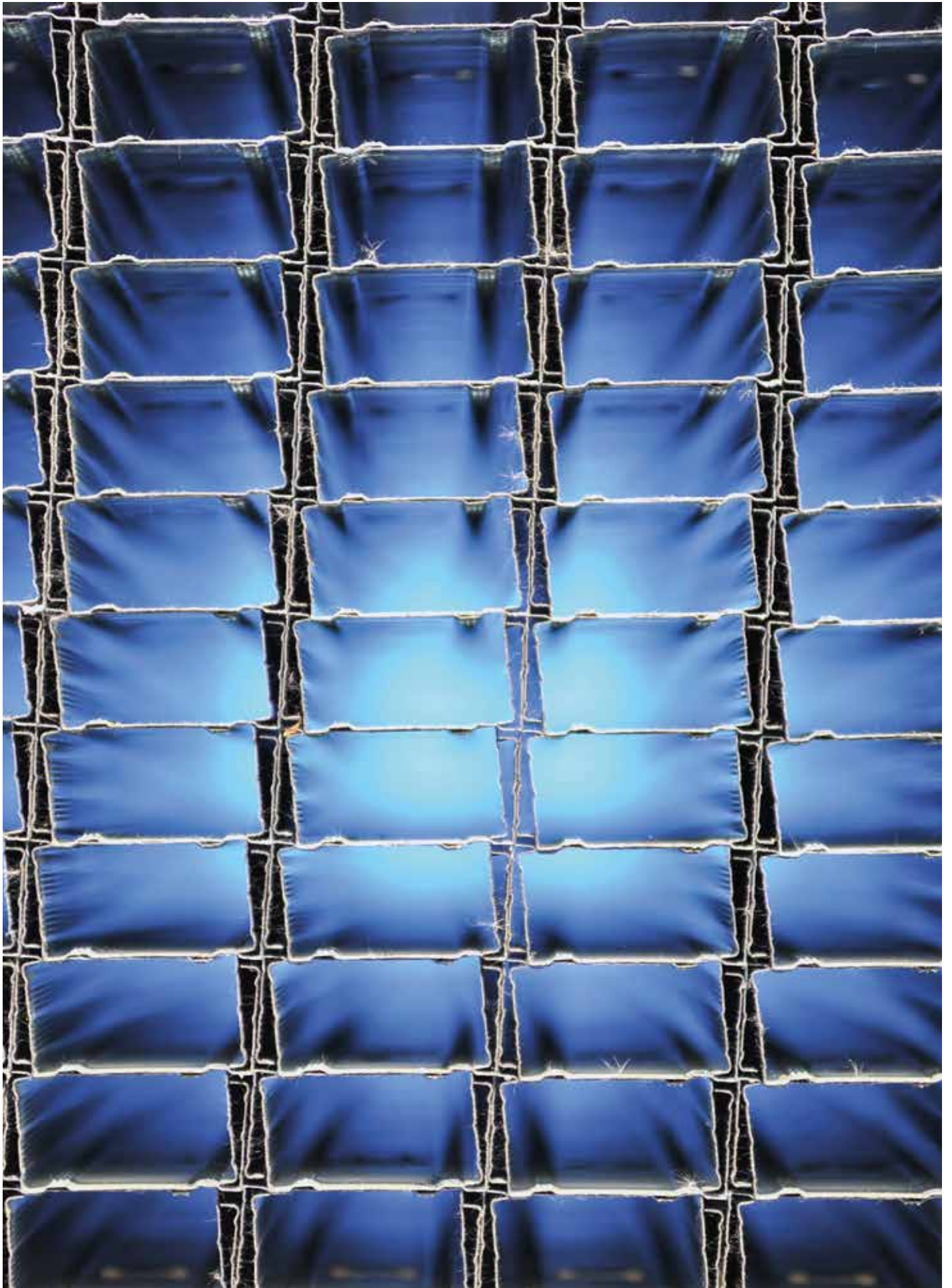


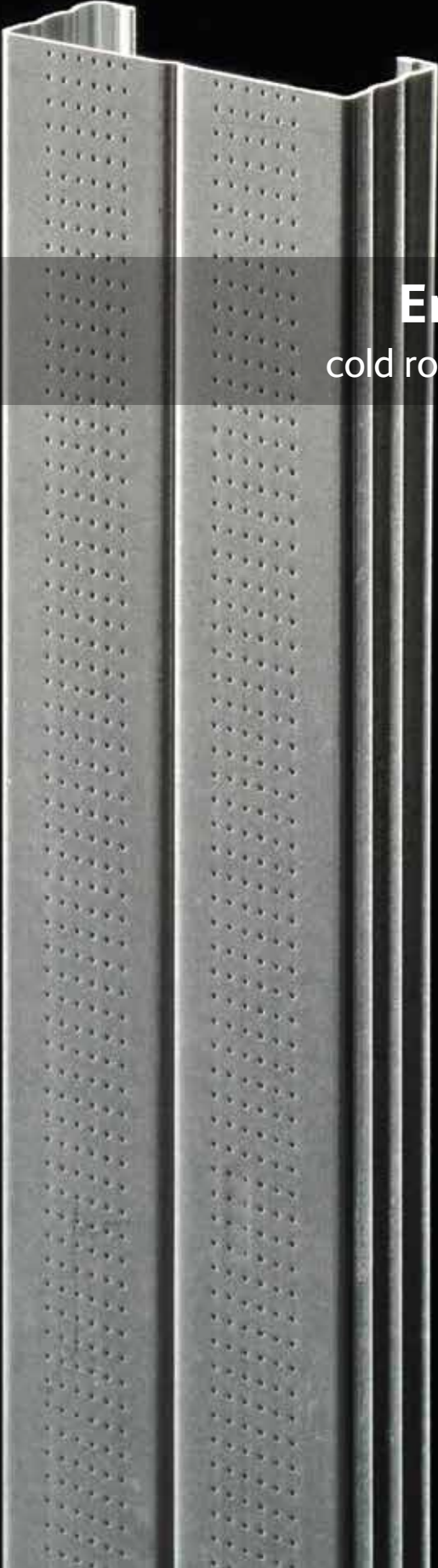


drywall & drylining



Emac wall liner SAS cold rolled drylining system	33
Emac drywall SAS cold rolled stud and track	37
System 1000 SAS Drywall+	45
SAS trims and accessories drywall and drylining trims	51



The image shows three vertical panels of a cold-rolled drylining system. Each panel is perforated with a grid of small, circular holes. The panels are shown in a perspective view, with the top edges slightly curved. The background is solid black.

Emac wall liner
cold rolled drylining system

SAS Emac wall liner

SAS Drywall Description

SAS Emac Wall liner is a range of galvanised sections that enables existing walls to be dry lined.

SAS sections are rebated to offer structural rigidity, whilst being compact and lightweight for easy handling and installation. Anti-slip marks are incorporated for ease of fixing along with a central board alignment groove.

SAS Emac Drywall Features

- Easy to install
- Rebated for extra rigidity
- Anti-slip marks for ease of fixing
- Lightweight design for easy handling

Range

SAS Emac Wall Liner components include:

WL1 Emac wall liner channel is available from stock in lengths of 2400mm, 2700mm, 3000mm, 3600mm and 4200mm.

WL8 Emac wall liner floor / ceiling track is available in lengths of 3600mm.

Wall Liner Brackets (WL2, WL9, WL12) are available in lengths of 195mm, 295mm and 395mm.

Finish/Colour

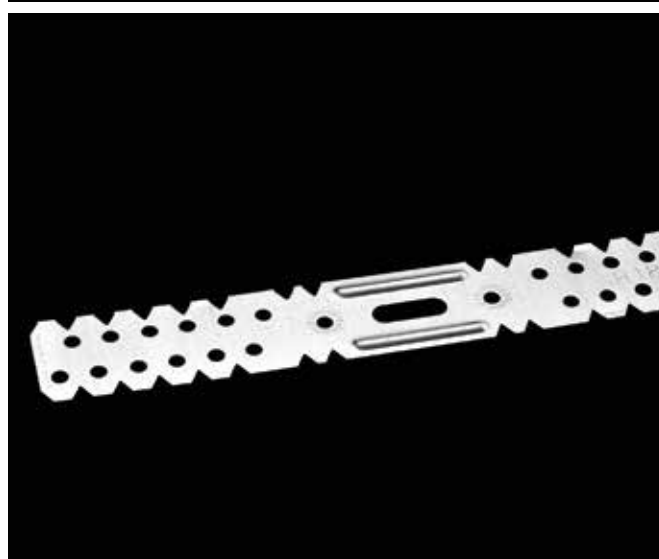
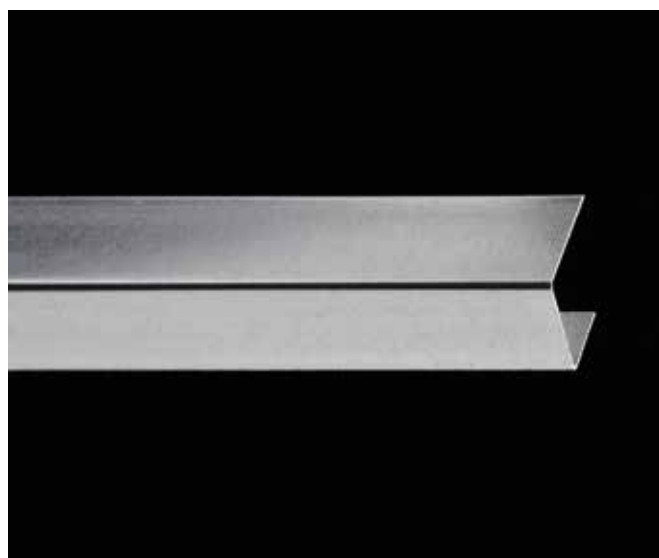
Supplied as galvanised steel, further protective coatings can be supplied on requests.

Performance and installation

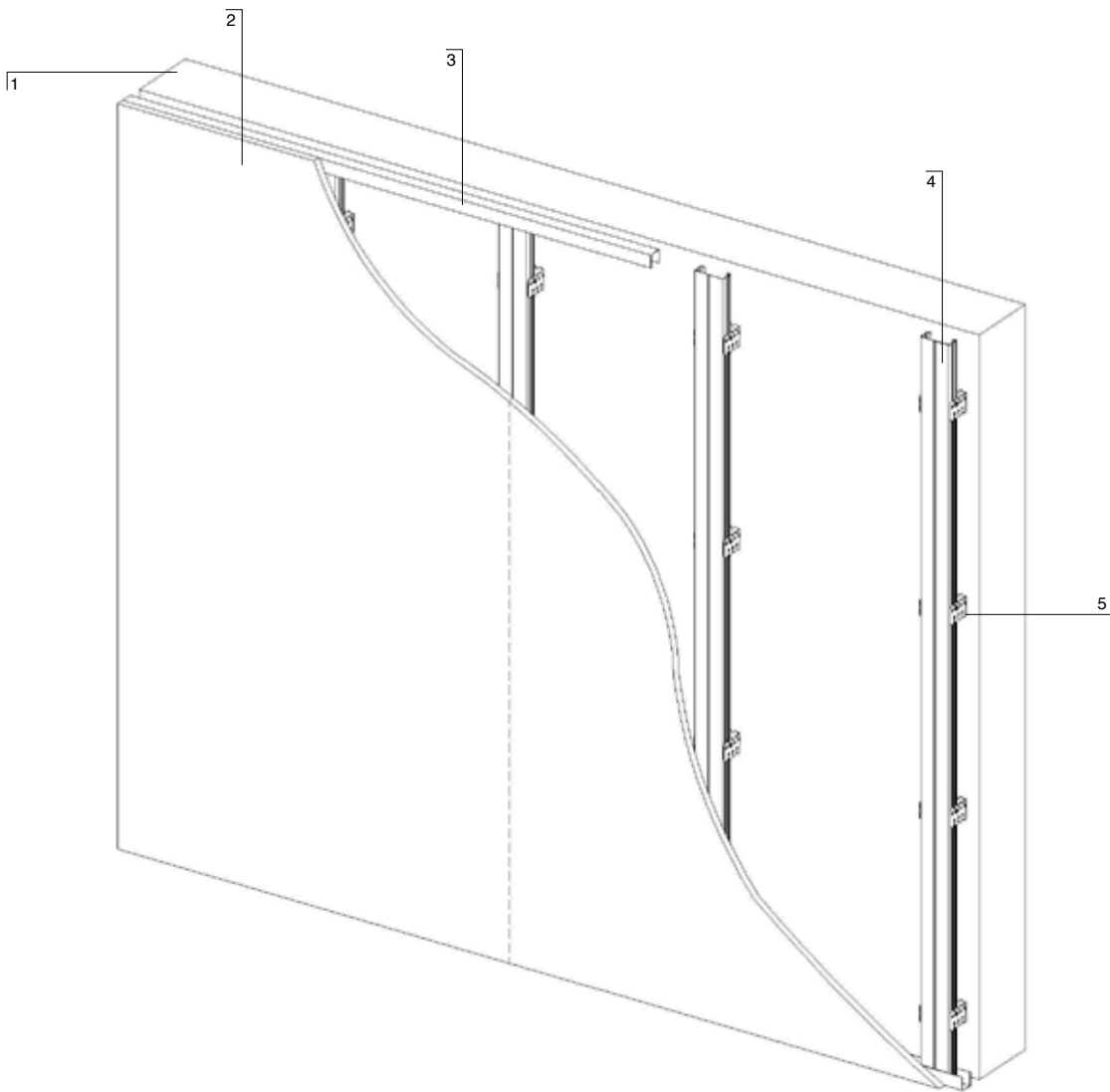
SAS International guarantees all installations using SAS Wall Liner will meet the performance levels as set out by the main plasterboard manufacturers. All products will be guaranteed providing the ceiling has been installed in accordance with:

- Plasterboard Manufacturers guidance
- AIS (Association of Interior Specialists) Best Practice Guide for Installation of Partitions

For further guidance please contact a member of our technical team.

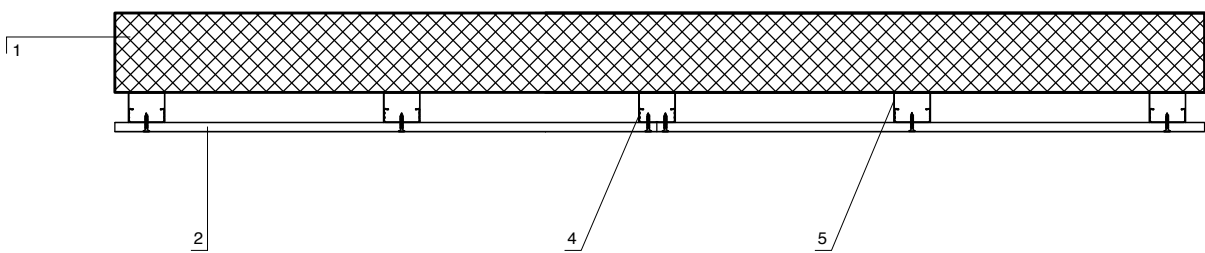


SAS Emac wall liner



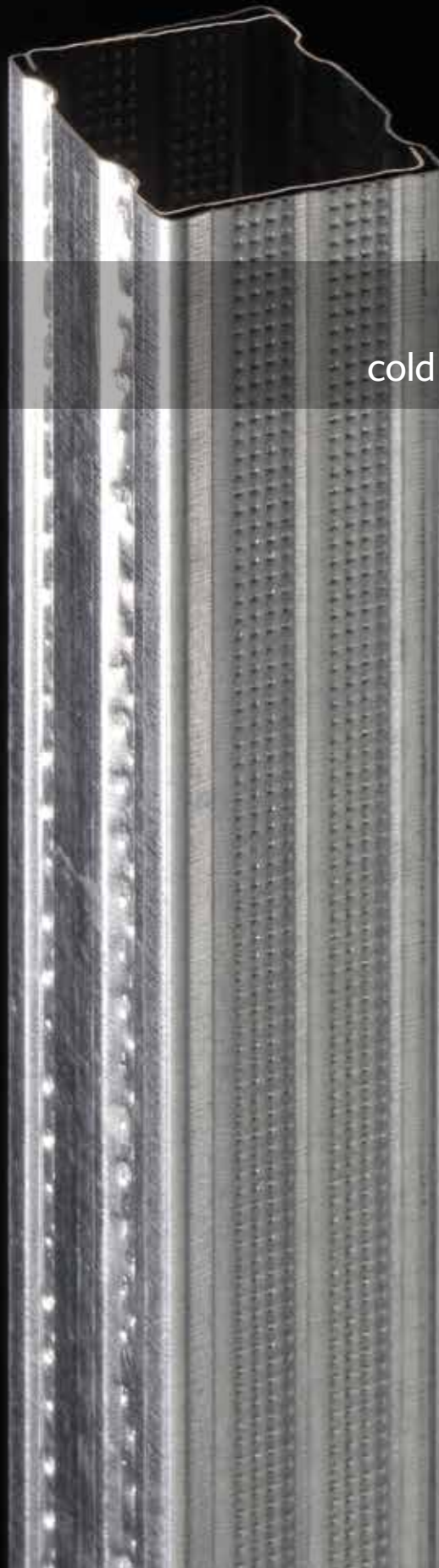
- 1] Existing wall 2] Plasterboard 3] Emac WL8 Floor/Ceiling Track 4] Emac WL1 Wall Liner Stud 5] Emac WL2 Fixing Bracket

Section Drawing



SAS Emac wall liner – components

	Item Description	Nominal Length /Height	Item Number	Carton Qty	
SAS Emac Drywall – Track					
	Emac WL1 47mm Wall Liner Channel	2400mm	96596	1	
		2700mm	54957	1	
		3000mm	54958	1	
		3600mm	54959	1	
		4200mm	54960	1	
			Emac WL2 Fixing Bracket	195mm	99170
Emac WL9 Fixing Bracket	295mm			99171	100
Emac WL12 Fixing Bracket	395mm			99172	100
	Emac WL3 Channel Connector	–	78102	50	
	Emac WL8 Floor / Ceiling Track	3600mm	84479	1	
	Emac WL10 Framing Clips	–	78099	100	



Emac drywall
cold rolled stud and track

SAS Drywall Description

SAS Emac Drywall is a range of galvanised stud and track sections that enable construction of drywall.

SAS Studs and Track sections are double rebated to offer structural rigidity whilst being compact and lightweight for easy handling and installation. Anti-slip marks are incorporated for ease of fixing along with a central board alignment groove.

SAS Emac Drywall Features

- Easy to install
- Double-rebated for extra rigidity
- Anti-slip marks for ease of fixing
- Lightweight design for easy handling
- Provides up to 57dB acoustic performance
- Provides up to 120 minutes fire performance
- Provides up to 'Severe' structural integrity

Widths

SAS Emac Drywall is available in the following widths to construct a range of single or double board drywall.

52mm Track / 50mm C-Stud / 50mm I-Stud
62mm Track / 60mm C-Stud / 60mm I-Stud
72mm Track / 70mm C-Stud / 70mm I-Stud
94mm Track / 92mm C-Stud
148mm Track / 146mm C-Stud

Drywall tracks are available with 25mm, 35mm and 50mm leg heights in lengths of 3000mm.

Drywall C-Studs are available in lengths of 2400mm, 2700mm, 3000mm, 3600mm and 4200mm to suit all widths.

Drywall I-Studs are available in lengths of 3000mm, 3600mm, 4200mm and 6000mm in 50mm, 60mm and 70mm widths.

Finish/Colour

Supplied as galvanised steel, further protective coatings can be supplied on requests.

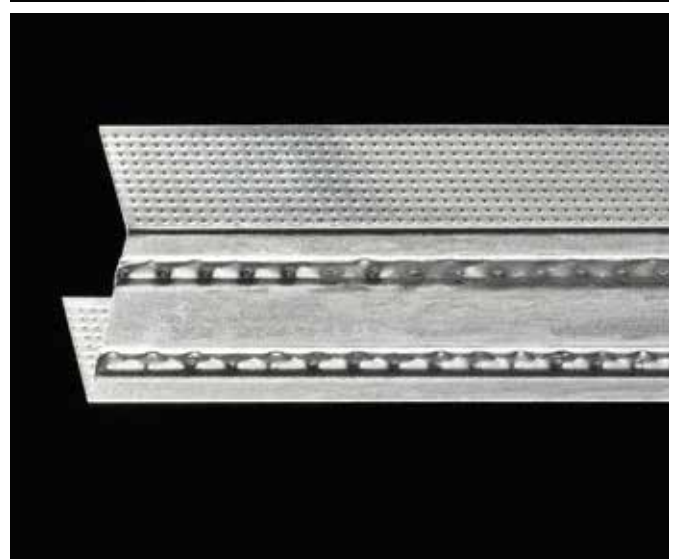
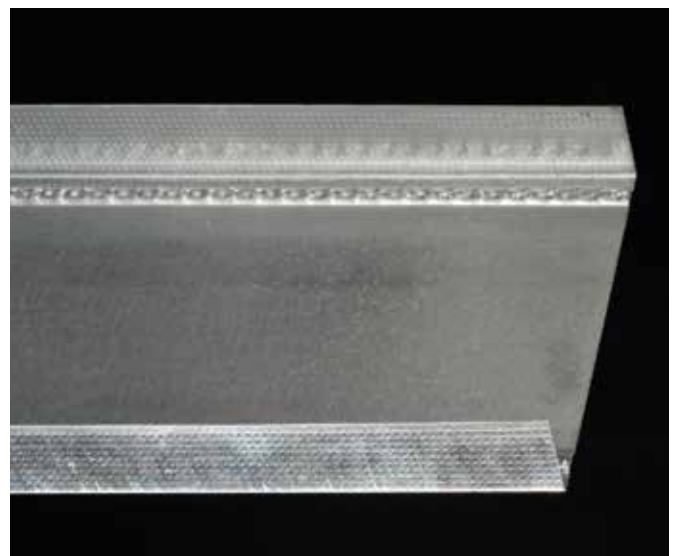
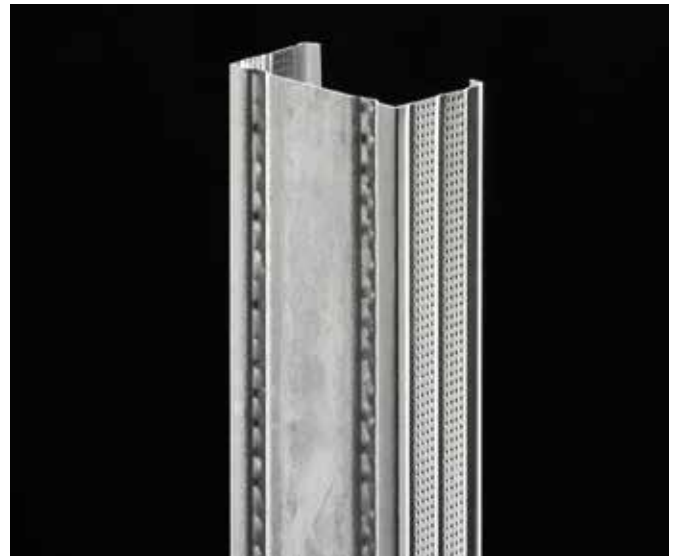
Performance and installation

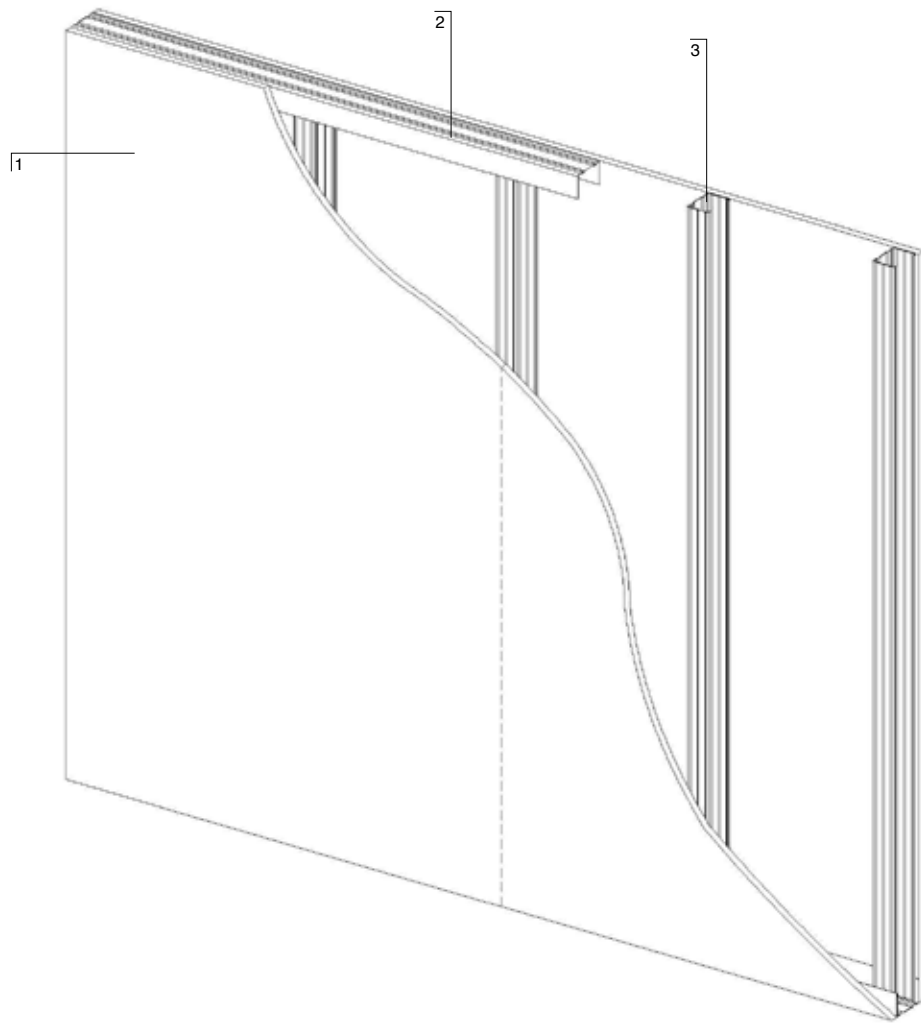
For full details on performance of SAS Emac Drywall please refer to the table on the following pages.

SAS International guarantees all installations using SAS Drywall will meet the performance levels as set out by the main plasterboard manufacturers. All products will be guaranteed providing the ceiling has been installed in accordance with:

- Plasterboard Manufacturers guidance
- AIS (Association of Interior Specialists) Best Practice Guide for Installation of Partitions

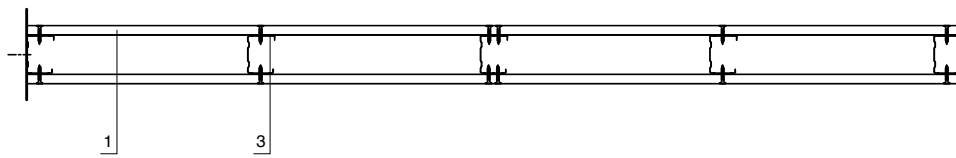
For further guidance please contact a member of our technical team.





1] Plasterboard 2] Emac Track 3] Emac Stud

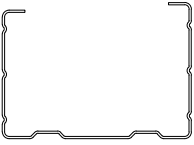
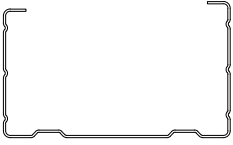
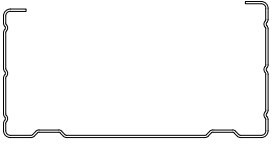


Section Drawing



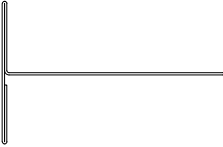

Emac drywall technical summary

	Board Thickness	Layers	Board Type (WB = Standard wallboard, dB = Acoustic board, FB = Fire board)	Max Height	Fire Rating	Acoustic rating without insulation	Acoustic rating with insulation	Duty
50mm	12.5mm	1	WB	3200mm	30mins	34dB	41dB	Medium
	12.5mm	1	dB	3500mm	30mins	34dB	44dB	Medium
	12.5mm	1	FB	3500mm	30mins	37dB	41dB	Medium
	15.0mm	1	WB	3500mm	30mins			Medium
	15.0mm	1	dB	3500mm	30mins	40dB	44dB	Heavy
	12.5mm	2	WB	3400mm	60mins	43dB	49dB	Severe
	12.5mm	2	dB	3400mm	60mins	45dB		Severe
	15.0mm	1	FB	3600mm	60mins	40dB	44dB	Heavy
	15.0mm	2	WB	3100mm	90mins			Severe
	15.0mm	2	dB	3100mm	90mins	46dB		Severe
	12.5mm	2	FB	4000mm	120mins	45dB		Severe
	15.0mm	2	FB	3600mm	120mins			Severe
70mm	12.5mm	1	WB	4200mm	30mins		42dB	Medium
	12.5mm	1	dB	4500mm	30mins	40dB	45dB	Medium
	12.5mm	1	FB		30mins			
	15.0mm	1	WB		30mins			
	15.0mm	1	dB	4400mm	30mins	42dB		Heavy
	12.5mm	2	WB		60mins			
	12.5mm	2	dB	4500mm	60mins		54dB	Severe
	15.0mm	1	FB	4000mm	60mins	39dB		Heavy
	15.0mm	2	WB		90mins			
	15.0mm	2	dB	5100mm	90mins		56dB	Severe
	12.5mm	2	FB	4600mm	120mins		53dB	Severe
	15.0mm	2	FB	4900mm	120mins	50dB	57dB	Severe
146mm	12.5mm	1	WB		30mins			
	12.5mm	1	dB		30mins			
	12.5mm	1	FB		30mins			
	15.0mm	1	WB		30mins			
	15.0mm	1	dB		30mins			
	12.5mm	2	WB		60mins			
	12.5mm	2	dB		60mins			
	15.0mm	1	FB		60mins			
	15.0mm	2	WB		90mins			
	15.0mm	2	dB	8900mm	90mins		57dB	Severe
	12.5mm	2	FB		120mins			
	15.0mm	2	FB	8000mm	120mins		57dB	Severe

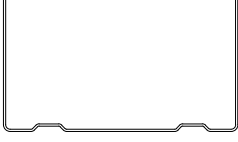


SAS Emac drywall – C-Stud components

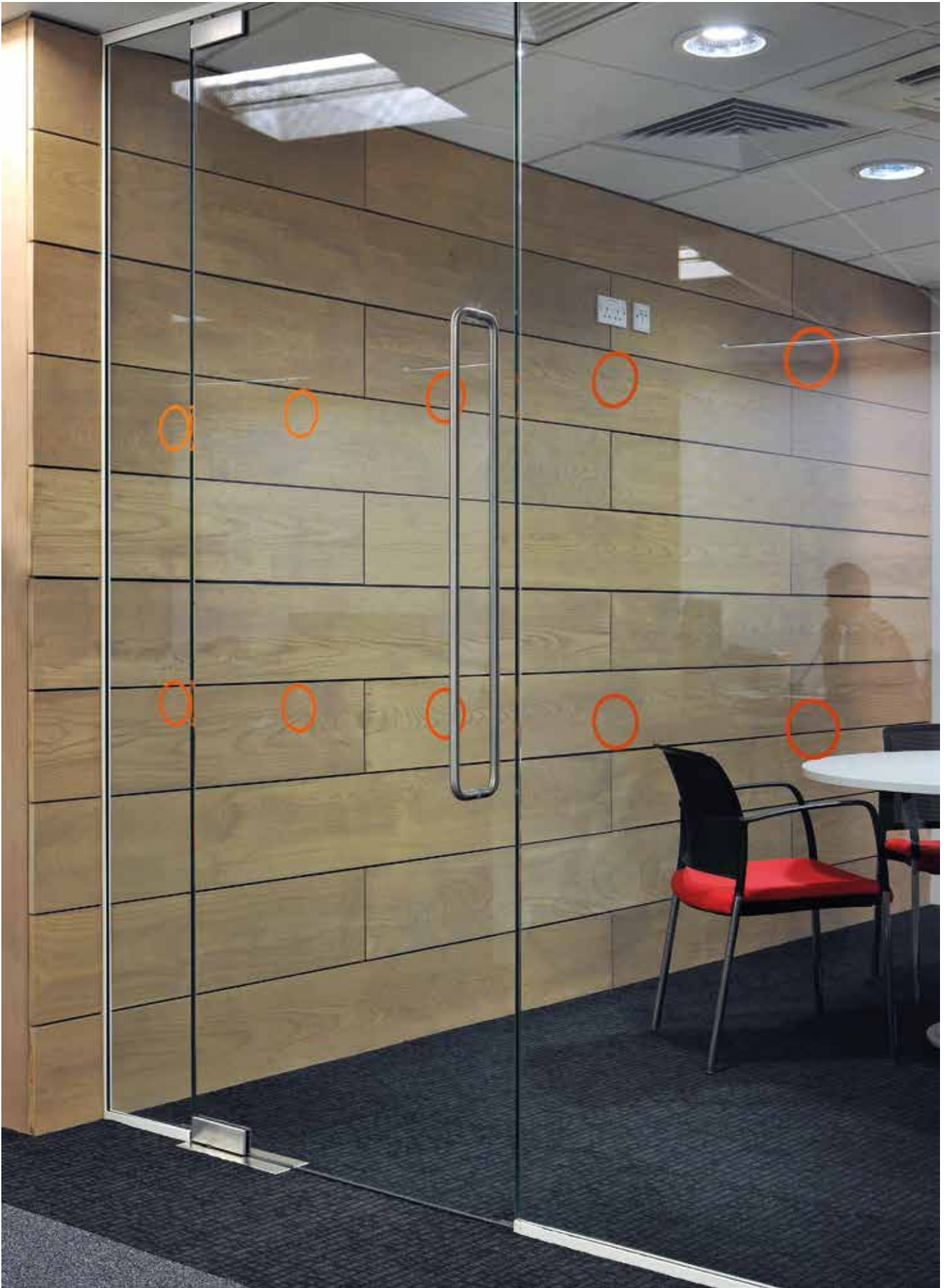
	Item Description	Nominal Length /Height	Item Number	Carton Qty
SAS Emac Drywall – C-Stud				
	50mm Galvanised SAS Emac C-Stud	2400mm	54943	1
		2700mm	59435	1
		3000mm	54936	1
		3600mm	54937	1
		4200mm	118999	1
	60mm Galvanised SAS Emac C-Stud	2400mm	119001	1
		2700mm	119002	1
		3000mm	119003	1
		3600mm	119004	1
		4200mm	119005	1
	70mm Galvanised SAS Emac C-Stud	2400mm	54938	1
		2700mm	59439	1
		3000mm	54940	1
		3600mm	54941	1
		4200mm	54942	1
	92mm Galvanised SAS Emac C-Stud	2400mm	119011	1
		2700mm	119010	1
		3000mm	119009	1
		3600mm	119008	1
		4200mm	119007	1
	146mm Galvanised SAS Emac C-Stud	2400mm	54943	1
		2700mm	54944	1
		3000mm	54945	1
		3600mm	54946	1
		4200mm	54947	1


SAS Emac drywall – I-Stud components

	Item Description	Nominal Length /Height	Item Number	Carton Qty
SAS Emac Drywall – I-Stud				
	50x40x0.5mm Galvanised SAS I-Stud	3000mm	104928	1
		3600mm	104937	1
		4200mm	104934	1
		6000mm	104931	1
	60x40x0.5mm Galvanised SAS I-Stud	2700mm	155106	1
		3000mm	104932	1
		3600mm	104929	1
		4200mm	104938	1
		6000mm	104935	1
	70x40x0.7mm Galvanised SAS I-Stud	3000mm	104948	1
		3600mm	104945	1
		4200mm	104942	1
		6000mm	104951	1

Emac drywall – track components

	Item Description	Leg Height	Nominal Length /Height	Item Number	Carton Qty
SAS Emac Drywall – Track					
	52mm Galvanised SAS Emac Track	25mm	3000mm	99624	1
		35mm	3000mm	54953	1
		50mm	3000mm	117879	1
	62mm Galvanised SAS Emac Track	25mm	3000mm	108966	1
		35mm	3000mm	108969	1
		50mm	3000mm	108970	1
	72mm Galvanised SAS Emac Track	25mm	3000mm	99623	1
		35mm	3000mm	54954	1
		50mm	3000mm	54955	1
	94mm Galvanised SAS Emac Track	25mm	3000mm	108968	1
		35mm	3000mm	108971	1
		50mm	3000mm	108972	1
	148mm Galvanised SAS Emac Track	25mm	3000mm	108967	1
		35mm	3000mm	54956	1
		50mm	3000mm	118981	1





system 1000
drywall+

system 1000 drywall+ overview

System Description

System 1000 Drywall+ is a 100mm and 120mm drywall partitioning system that offers up to ± 25 mm deflection and seamless drywall to glass integration.

It is constructed using 50mm or 70mm SAS swaged cold rolled stud enabling the stud to fully locate within the aluminium head track. Double skin 12.5mm plasterboard is installed over the frame with a skim coat applied before decoration.

A range of pocket aluminium trims enable System 1000 Drywall+ to integrate with glazed modules. A full range of aluminium drywall trims are also available.

A 100mm recessed skirting trim enables flush mounted joinery.

System Features

- Available in 100 and 120mm widths
- Provides up to ± 25 mm deflection, using a 2-part deflection head
- Provides a seamless integration with glass to create a part drywall, part glazed installation
- Double rebated studs for extra rigidity
- Anti-slip marks for ease of fixing
- Central board alignment groove
- Integrates with SAS Metal Ceiling Systems

Performance

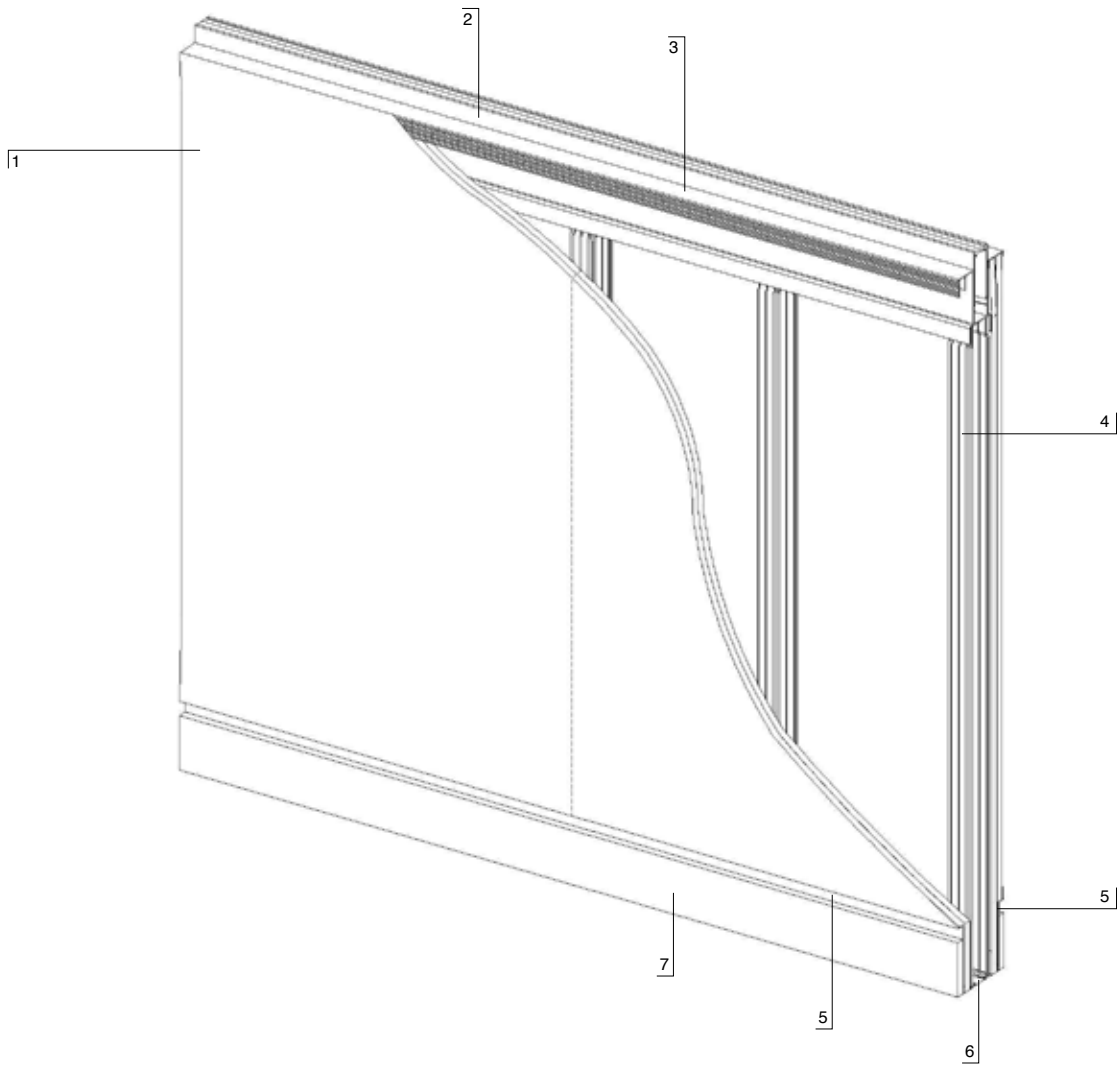
SAS System 1000 Drywall+ performance is tested to work with all major plasterboard manufacturers board. For further information please contact our technical department.

Finish

SAS swaged stud are made from galvanised cold rolled steel designed for strength and durability.

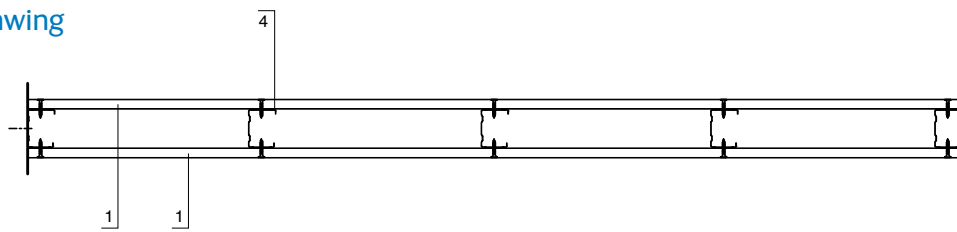
Extruded aluminium profiles are supplied polyester powder coated, some profiles are ex-stock in RAL9010 and BS 00 A 05 or satin silver anodised grade AA5.





- 1] Plasterboard
- 2] Inner Deflection
- 3] Outer Deflection
- 4] Swaged Stud
- 5] Recessed Skirting
- 6] Floor Track
- 7] Skirting Infill

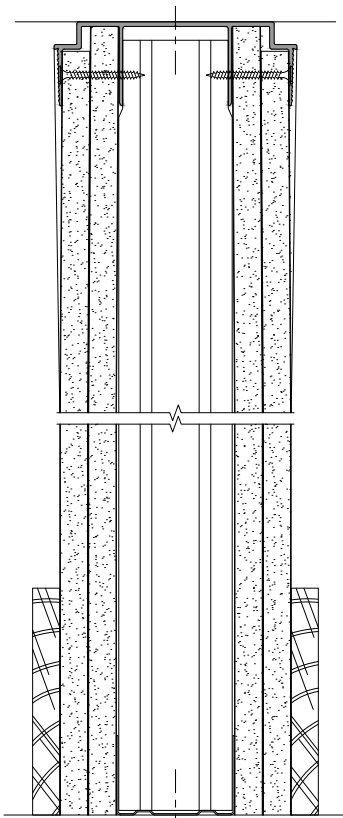
Section Drawing



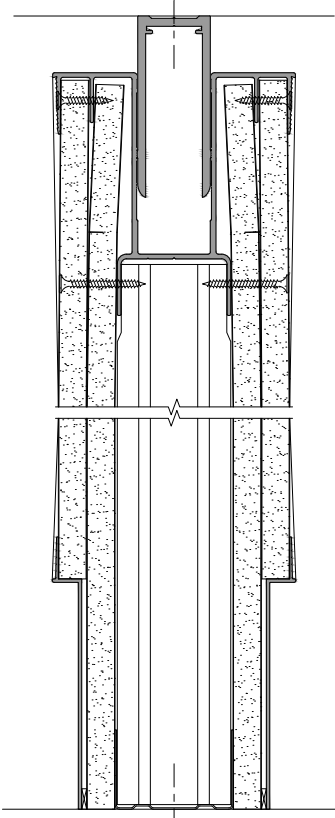
Performance Data

	Board Thickness (mm)	Layers	Board Type (WB – Standard Wallboard, dB – Acoustic Board)	Max Height	Acoustic rating without insulation	Acoustic rating with insulation	Acoustic rating with insulation and plasterboard head track infills	Duty
50mm	12.5	2	WB	3400mm	39dB	45dB	48dB	Severe
	12.5	2	dB	3600mm	43dB	49dB	52dB	Severe
70mm	12.5	2	WB	3400mm	42dB	48dB	51dB	Severe
	12.5	2	dB	3600mm	45dB	50dB	53dB	Severe

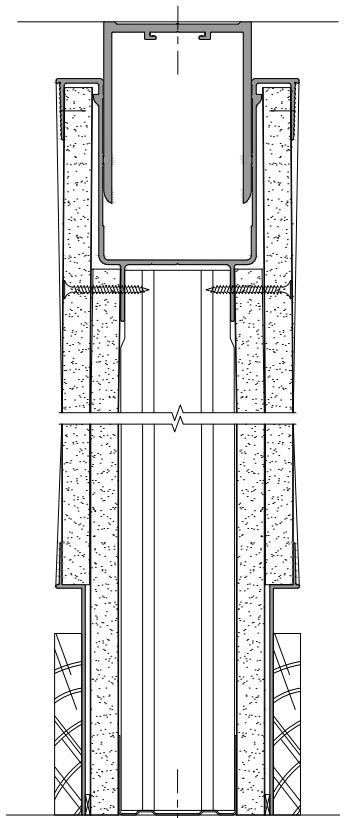
system 1000 drywall+ typical elevations



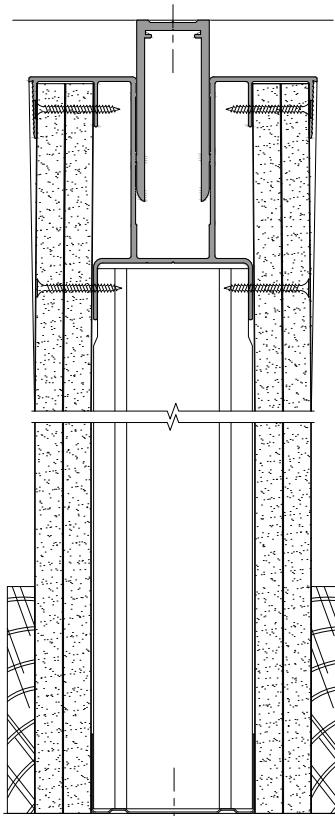
Full Height 100mm Drywall with 10mm Shadow Gap Head



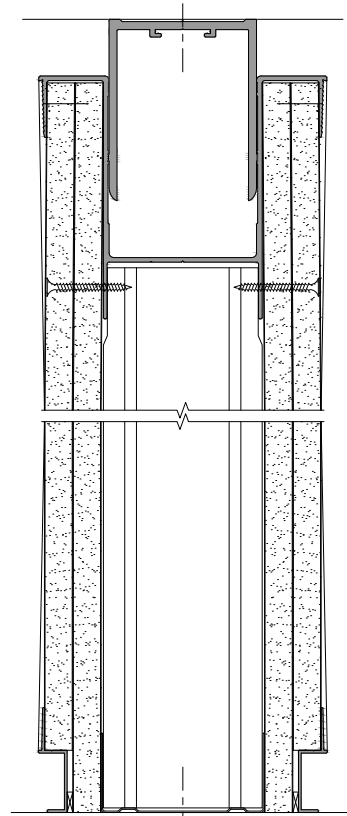
Full Height 100mm Drywall with 32mm Inner Deflection Head



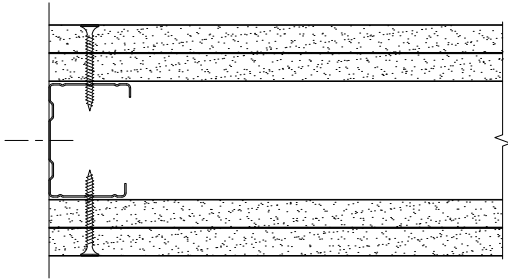
Full Height 100mm Drywall with 65mm Inner Deflection Head



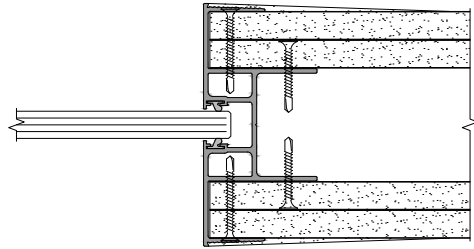
Full Height 120mm Drywall with 32mm Inner Deflection Head



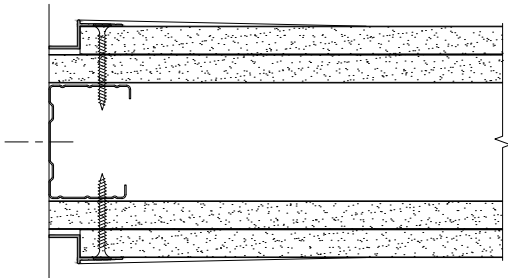
Full Height 120mm Drywall with 65mm Inner Deflection Head



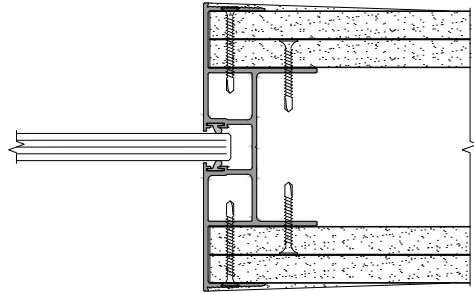
Standard Wall Abutment Detail



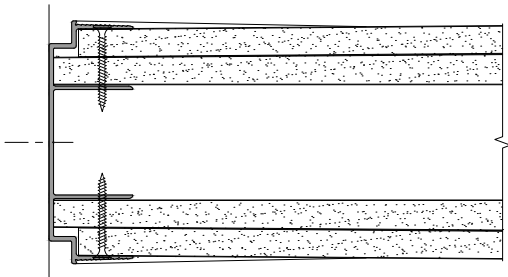
Single Glazed abutment /
pocket adaptor 100mm



12.5mm Reveal Trim
Wall Abutment Detail



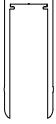
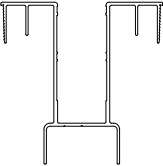
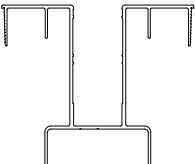
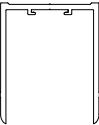
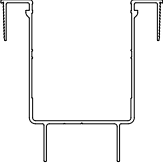
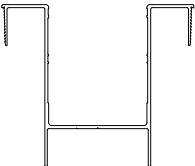

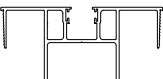
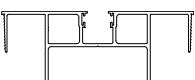



Single Glazed abutment /
pocket adaptor 120mm



10mm Shadow Gap
Wall Abutment Detail

system 1000 drywall+ components

	Product Ref / Description	Nominal Length	Item Number
SAS Emac Drywall – Track			
	50mm Swaged Stud to suit 100mm drywall	2700mm	118970
		3000mm	125801
	70mm Swaged Stud to suit 120mm drywall	2700mm	118969
		3000mm	125800
	Product Ref / Description	Nominal Length	Item Number (RAL 9010)
	DW1001 32mm Inner drywall deflection head	3600mm	113065
	DW1002 32mm Outer drywall deflection head to suit 100mm drywall	3600mm	113041
	DW1003 32mm Outer drywall deflection head to suit 120mm drywall	3600mm	113069
	DW1004 65mm Inner drywall deflection head	3600mm	113053
	DW1005 65mm Outer drywall deflection head to suit 100mm drywall	3600mm	113054
	DW1006 65mm Outer drywall deflection head to suit 120mm drywall	3600mm	113070
	DW1007 Abutment trim with 10mm shadowgap to suit 100mm drywall	3000mm	113599
		3600mm	113602
	FG8121 System 8000i Single glazed adaptor to suit 100mm drywall	3000mm	113031
	FG8122 System 8000i Single glazed adaptor to suit 120mm drywall	2000mm	116505



SAS trims and accessories
drywall and drylining trims

SAS drywall trims

SAS Drywall Trims

SAS offer a complete range of aluminium trims to suit all drywall and drylining applications.

The range includes edge trims, reveal trims, corner trims and recessed skirting trims.

The advantages of aluminium trims and perimeters are:

- The precise alignment between sections
- Easy installation
- Exterior quality polyester powder finish as standard

Finish/Colour

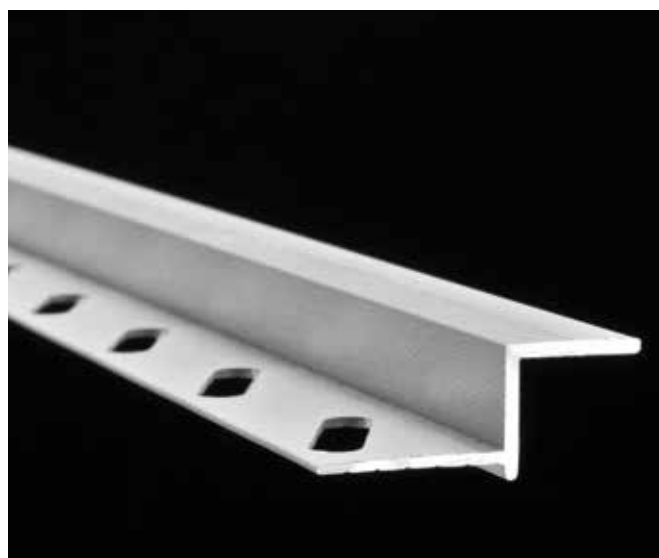
Aluminium trims are finished as standard is RAL9010 20% gloss but can be supplied in RAL9016 or with a fine textured finish.

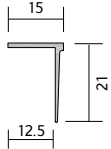
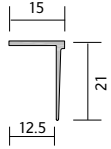
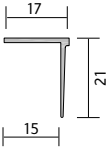
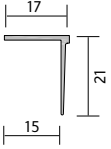
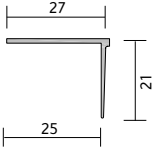
Trim application

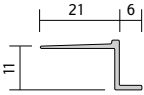
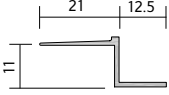
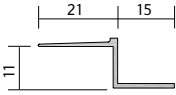
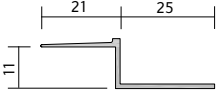
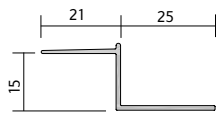
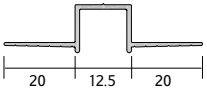
The extensive range trims is designed to accommodate all types of drywall and drylining applications.

The range of standard trims includes:

- Edge trims
- Reveal trims
- Linear reveal trims
- Corner trims
- High strength corner trims
- Recessed skirting trims
- End / abutment trims
- End to glazing pocket adaptors
- A number of trims feature tapered fins that permit the use of conventional tape and joint finishes to achieve a smooth interface with the plasterboard.



Edge Trims (RAL 9010)		
	TRU-ET-125 12.5mm Edge Trim	
	Item No: 10575	Length: 3000mm
	TRU-ET-125F 12.5mm Flexible Edge Trim	
	Item No: 10574	Length: 3000mm
	TRU-ET-150 15mm Edge Trim	
	Item No: 10576	Length: 3000mm
	TRU-ET-150F 15mm Flexible Edge Trim	
	Item No: 22432	Length: 3000mm
	TRU-ET-250 25mm Edge Trim	
	Item No: 10577	Length: 3000mm

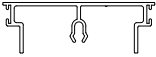
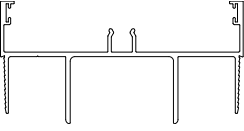
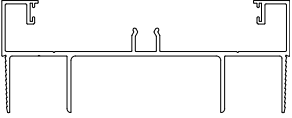
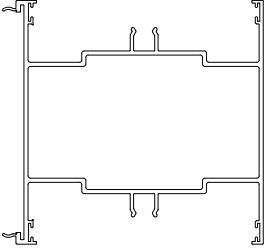
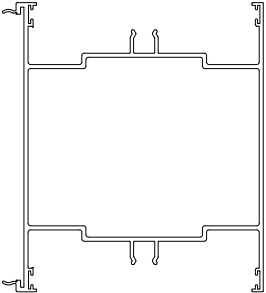
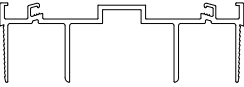
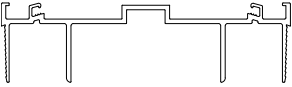
Reveal Trims (RAL 9010)		
	TRU-RT-60 6mm Reveal Trim †	
	Item No: 34539	Length: 3000mm
	TRU-RT-125 12.5mm Reveal Trim †	
	Item No: 10571	Length: 3000mm
	TRU-RT-150 15mm Reveal Trim †	
	Item No: 10578	Length: 3000mm
	TRU-RT-250 25mm Reveal Trim †	
	Item No: 10573	Length: 3000mm
	TRU-RT-250D 25mm Reveal Trim † (for use with 15mm plasterboard)	
	Item No: 14205	Length: 3000mm
	TRU-WR-125 12.5mm Linear Reveal Trim	
	Item No: 14168	Length: 3000mm

† Suitable for rolling

SAS end trims – single glazed

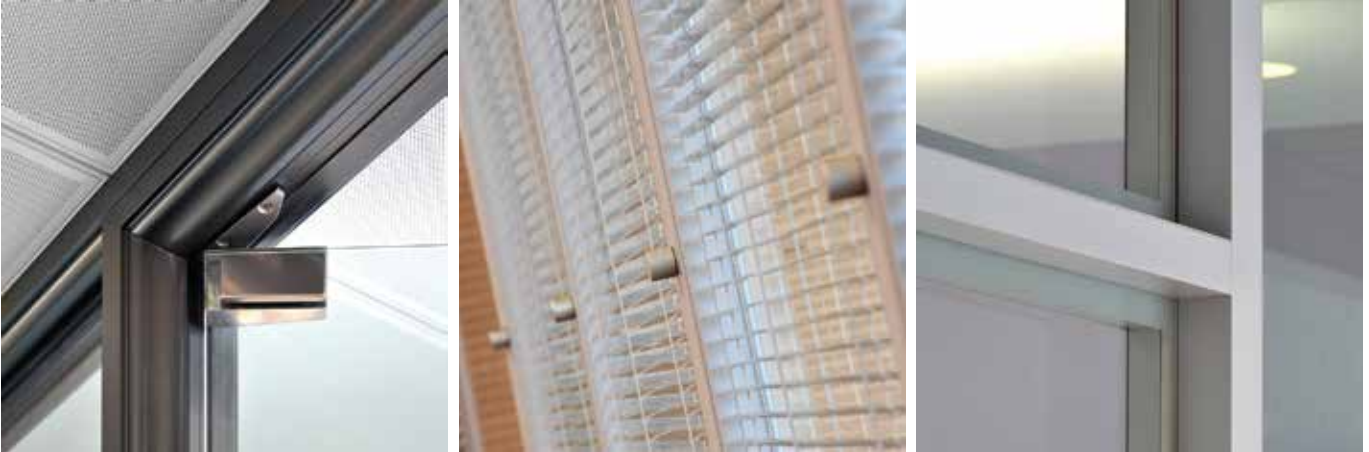
Skirting Trims (RAL 9010)	
	<p>TRU-SK-100 100mm Recessed Skirting Trim</p>
	<p>Item No: 14174 Length: 3000mm</p>
End Trims (RAL 9010)	
	<p>DW1007 Abutment Trim with 10mm Shadowgap to suit 100mm Drywall</p>
	<p>Item No: 113559 Length: 3000mm</p>
	<p>Item No: 113602 Length: 3600mm</p>

Drywall Adaptors – Single Glazed (RAL 9010)	
	<p>FG8120 Single Glazed Adaptor for 75mm Drywall</p>
	<p>Item No: 116500 Length: 3000mm</p>
	<p>FG8121 Single Glazed Adaptor for 100mm Drywall</p>
	<p>Item No: 113031 Length: 3000mm</p>
	<p>FG8122 Single Glazed Adaptor for 120mm Drywall</p>
	<p>Item No: 116505 Length: 3000mm</p>
	<p>FG8123 Single Glazed Two Way Adaptor for 75mm Drywall</p>
	<p>Item No: 116508 Length: 3000mm</p>
	<p>FG8124 Single Glazed Two Way Adaptor for 100mm Drywall</p>
	<p>Item No: 130821 Length: 3000mm</p>
	<p>FG8125 Single Glazed Two Way Adaptor for 120mm Drywall</p>
	<p>Item No: 130822 Length: 3000mm</p>
	<p>FG8005 100mm Clip-In Drywall Section</p>
	<p>Item No: 127525 Length: 3000mm</p>
	<p>FG8006 120mm Clip-In Drywall Section</p>
	<p>Item No: 127532 Length: 3000mm</p>

Drywall Adaptors – 105mm Double Glazed (RAL 9010)		
	FG8302 67mm Glazing Infill Section (for 10–12mm & 10–12mm Glass)	
	Item No: 116554	Length: 3000mm
	Item No: 113058	Length: 3600mm
	FG8314 105mm Double Glazed Adaptor for 100mm Drywall	
	Item No: 113063	Length: 3000mm
	FG8315 105mm Double Glazed Adaptor for 120mm Drywall	
	Item No: 116608	Length: 3000mm
	FG8316 105mm Double Glazed Two Way Adaptor for 100mm Drywall	
	Item No: 131568	Length: 3000mm
	FG8317 105mm Double Glazed Two Way Adaptor for 120mm Drywall	
	Item No: 131569	Length: 3000mm
	FG8005 100mm Clip-In Drywall Section	
	Item No: 127525	Length: 3000mm
	FG8006 120mm Clip-In Drywall Section	
	Item No: 127532	Length: 3000mm



partitioning



fire and acoustic summary	58
system 2000	59
2" / 50mm relocatable partitioning	
system 3000	71
3" / 75mm relocatable partitioning	
system 4000	87
4" / 100mm relocatable partitioning	
system 8000i	103
Fully Glazed partitioning	
XP partitioning	121
Expandable depth door and window sets	

system 3000

Acoustic Performance Summary

	Acoustic Performance
Solid	up to 43dB
Single Centre Glazed	up to 34dB
Single Offset Glazed	up to 34dB
Double Glazed	up to 40dB

Fire Performance Summary

	Fire Performance
Solid	up to 30/0
Single Centre Glazed	up to 30/0
Single Offset Glazed	up to 30/0
Double Glazed	up to 30/0

Structural Performance Summary

	Structural Performance
Solid	Medium Duty at 3m high
Single Centre Glazed	Severe Duty at 3m high
Single Offset Glazed	Severe Duty at 3m high
Double Glazed	Severe Duty at 3m high

system 4000

Acoustic Performance Summary

	Acoustic Performance
Solid	up to 48dB
Single Centre Glazed	up to 34dB
Single Offset Glazed	up to 34dB
Double Glazed	up to 40dB

Fire Performance Summary

	Fire Performance
Solid	up to 30/0
Single Centre Glazed	up to 30/0
Single Offset Glazed	up to 30/0
Double Glazed	up to 30/0

Structural Performance Summary

	Structural Performance
Solid	Severe Duty at 3m high
Single Centre Glazed	Severe Duty at 3m high
Single Offset Glazed	Severe Duty at 3m high
Double Glazed	Severe Duty at 3m high

system 8000i

Acoustic Performance Summary

	Acoustic Performance
Single Glazed	up to 37dB
Double Glazed	up to 47dB

Fire Performance Summary

	Fire Performance
Single Glazed	up to 60/60
Double Glazed	up to 60/60

Structural Performance Summary

	Structural Performance
Single Glazed	Up to Severe Duty
Double Glazed	Up to Severe Duty

XP door and window frames

Acoustic Performance Summary

	Acoustic Performance
Door Frame Fitted with 44mm Solid Core Door	up to 35dB
Door Frame Fitted with 54mm Solid Core Door	up to 35dB
Standard/ Window Frame – Single Glazed	up to 38dB
Standard Window Frame – Double Glazed	up to 40dB
Jumbo Window Frame – Double Glazed	up to 43dB

Fire Performance Summary

	Fire Performance
Door Frame Fitted with 44mm Solid Core Door	NFR / 30/0
Door Frame Fitted with 54mm Solid Core Door	60/0
Standard/ Jumbo Window Frame – Single Glazed	NFR / 30/0 / 60/0
Standard Window Frame – Double Glazed	NFR / 30/0 / 60/0
Jumbo Window Frame – Double Glazed	NFR / 30/0 / 60/0



system 2000

2" / 50mm demountable partitioning

system 2000 overview

System Description

System 2000 is a 50mm (2") re-locatable partitioning system that provides a lightweight versatile and economical solution to space division. It is available in any combination of solid, fully glazed or part glazed elevations and generally based on a 1200mm module, the system provides an extensive range of options.

System 2000 comprises of lightweight aluminium framing with gypsum plasterboard honeycomb panel or hardboard faced flaxboard panel infill for solid elevations. Glazed elevations utilise snap-in PVC glazing components to achieve single centre, single offset or double glazing configurations.

System Benefits

- Choice of radiused or square profiles
- Single or double glazed options
- Prefabricated door frame sets
- Lightweight economical solution
- Integral blinds for privacy (optional)
- Range of colours and finishes
- Fully demountable

Overall Thickness

54mm

Glass Options

A range of glass options, up to 7mm nominal thicknesses, is available including:

- Toughened
- Laminated

Finish

Aluminium profiles are available as either satin silver anodised grade AA5 or polyester powder coated, some profiles are ex-stock in RAL9010 and BS 00 A 05.

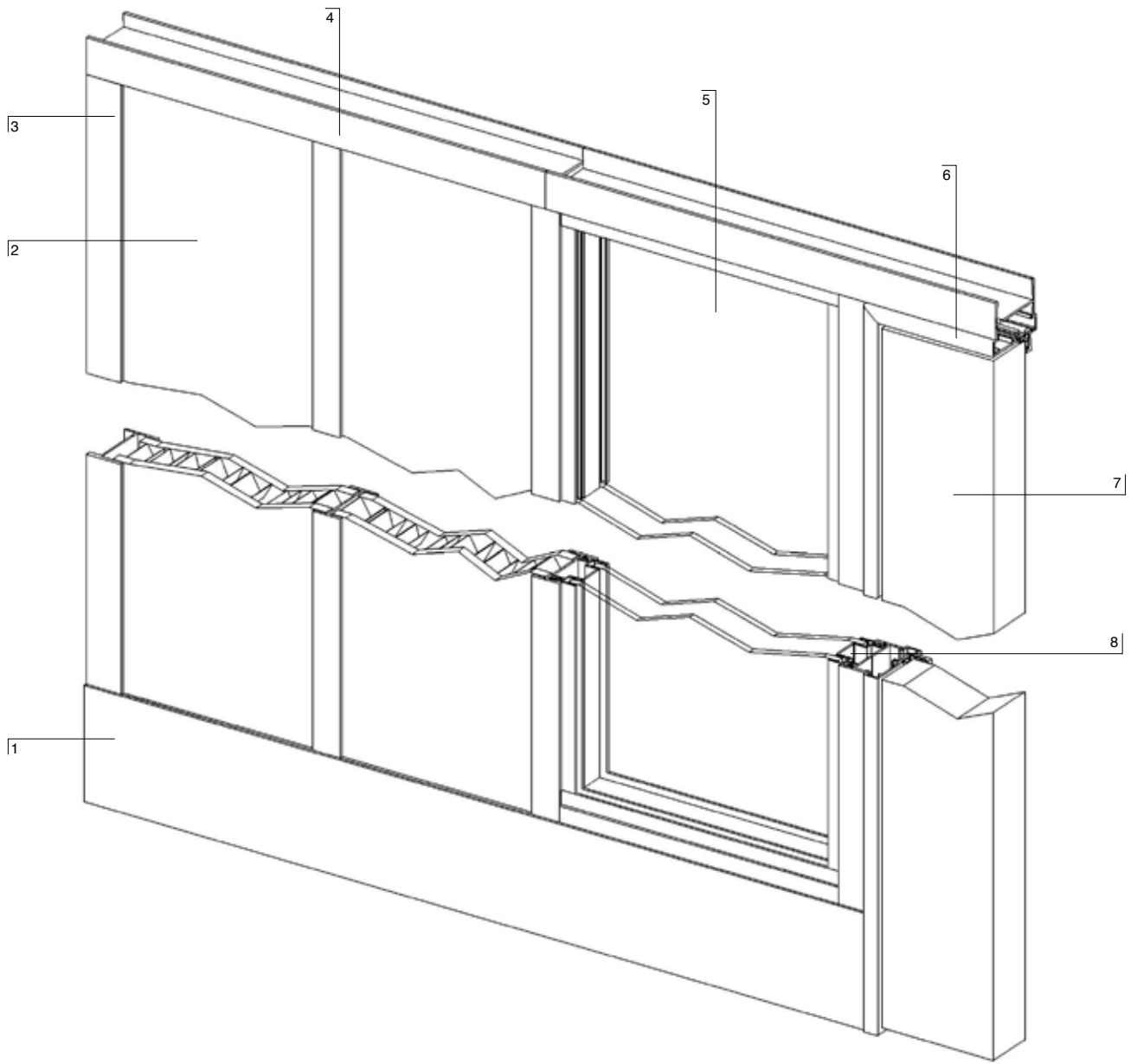
Door Integration

Prefabricated door frame sets, available with radiused or square profiles, permit the inclusion of door openings with the system at virtually any position. System 2000 is designed to accommodate hollow core doors, if solid core doors are required additional support measures are necessary.

Manifestations

A range of glass manifestations can be supplied and fitted. All manifestations need to comply with Approved Doc M.





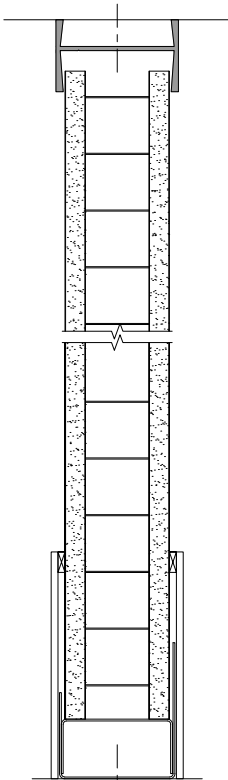
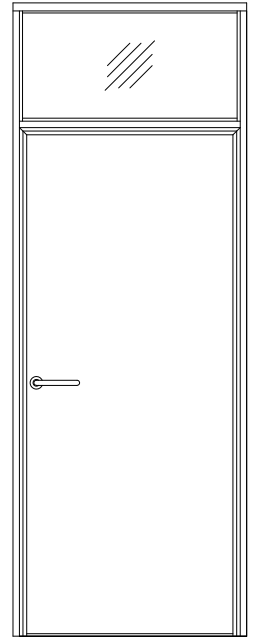
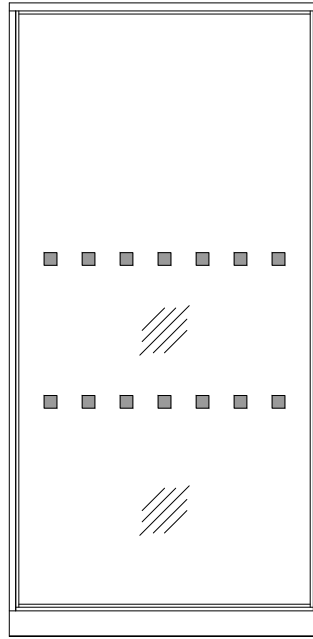
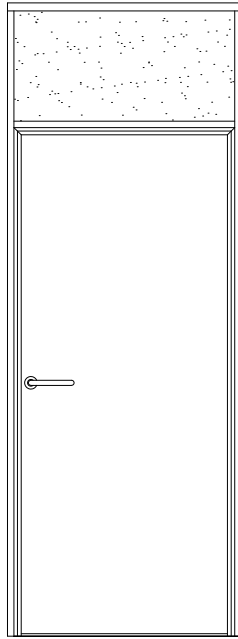
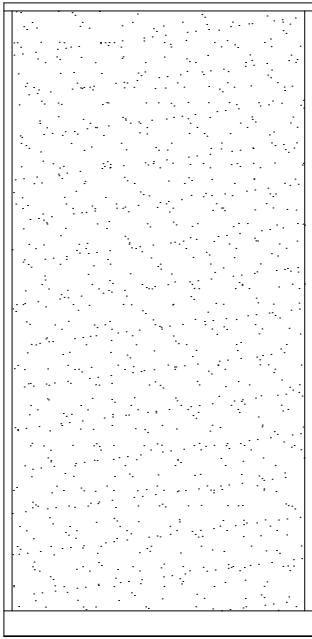
1] Skirting
5] Glazing

2] Honeycomb Panel
6] Door Frame

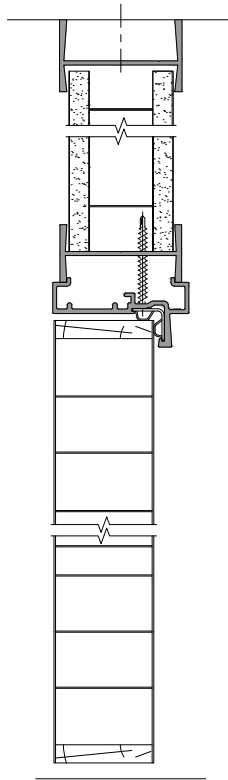
3] Wall Abutment
7] Door

4] Head Track
8] Glazing Chair and Bead

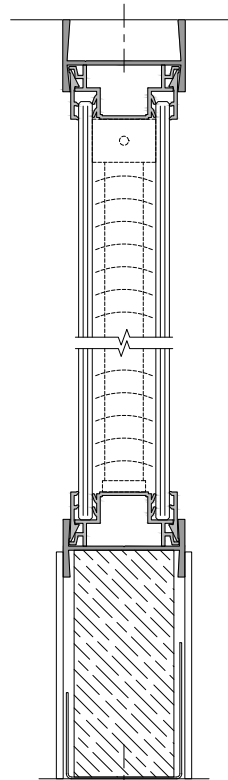
system 2000 typical elevations



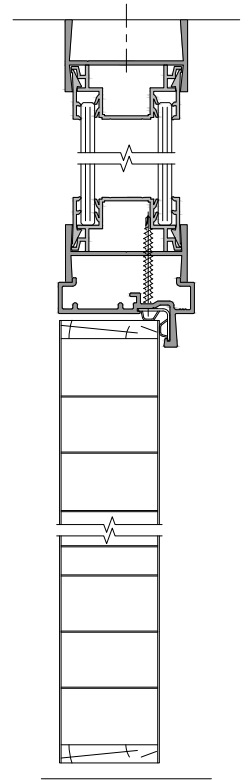
Full Height Solid



Solid Door with
Solid Above

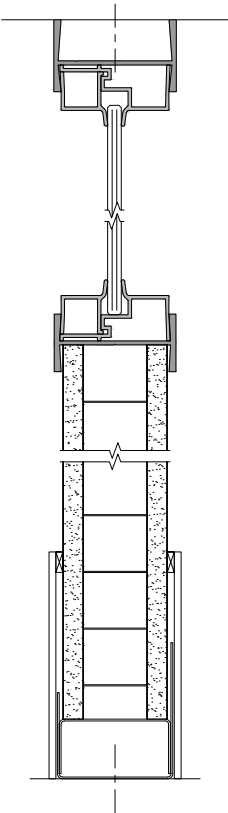
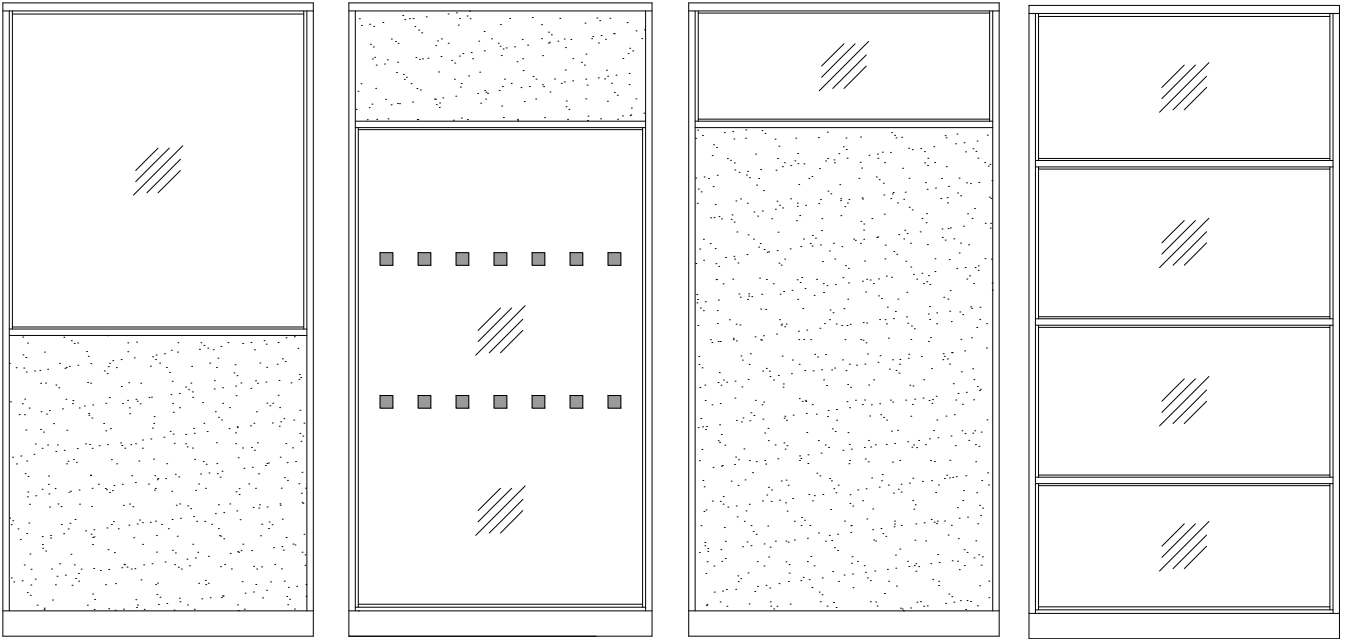


Full Height
Double Glazed

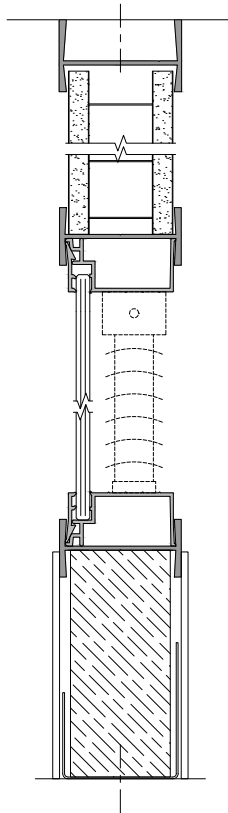


Solid Door with
Double Glazed Above

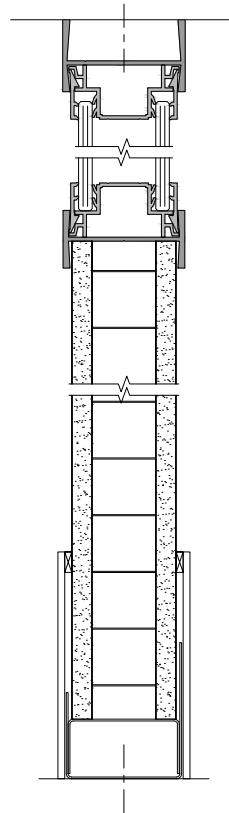
system 2000 typical elevations



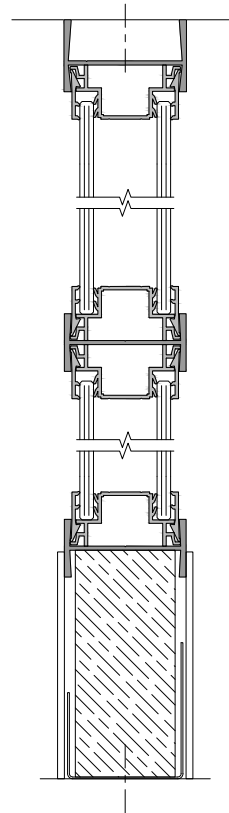
Half-Height Solid with
Centre Glazed Above



Offset Glazed to Head
Height with Solid Above

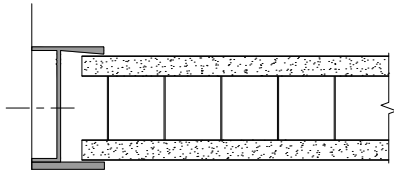


Solid to Head Height with
Double Glazed Above

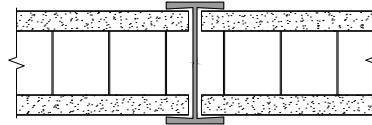


Full-Height
Banded Glazing

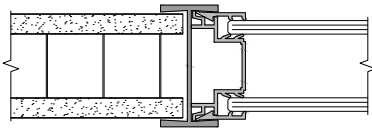
system 2000 typical sections



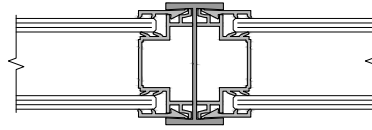
Structure / Solid
(Wall Abutment Post / Flat Bar)



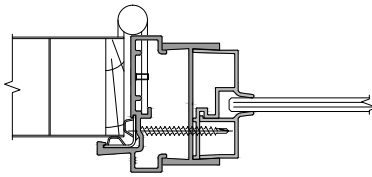
Solid / Solid



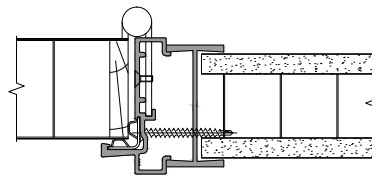
Solid / Double Glazed



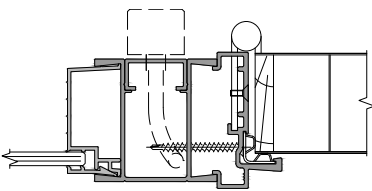
Double Glazed / Double Glazed



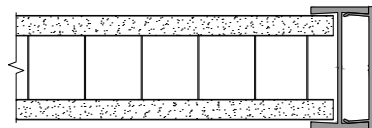
Door Frame / Single Glazed



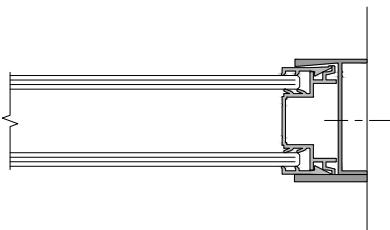
Door Frame / Solid



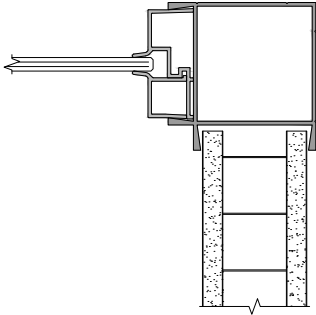
Offset Glazed / Door Frame
(with Blind Control)



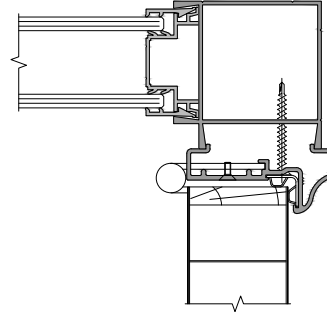
Solid Free End Detail



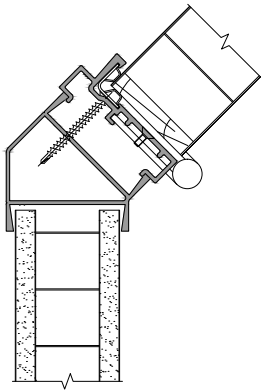
Double Glazed / Structure
(Wall Abutment / Flat Bar)



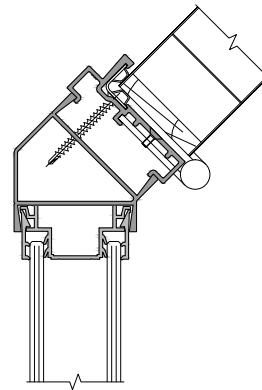
Square 90° Corner Post
Centre Glazed / Solid



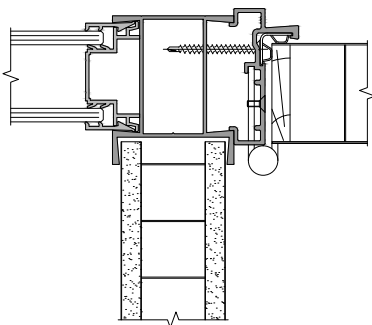
Square 90° Corner Post
Double Glazed / Door



Square 135° Corner Post
Solid / Door

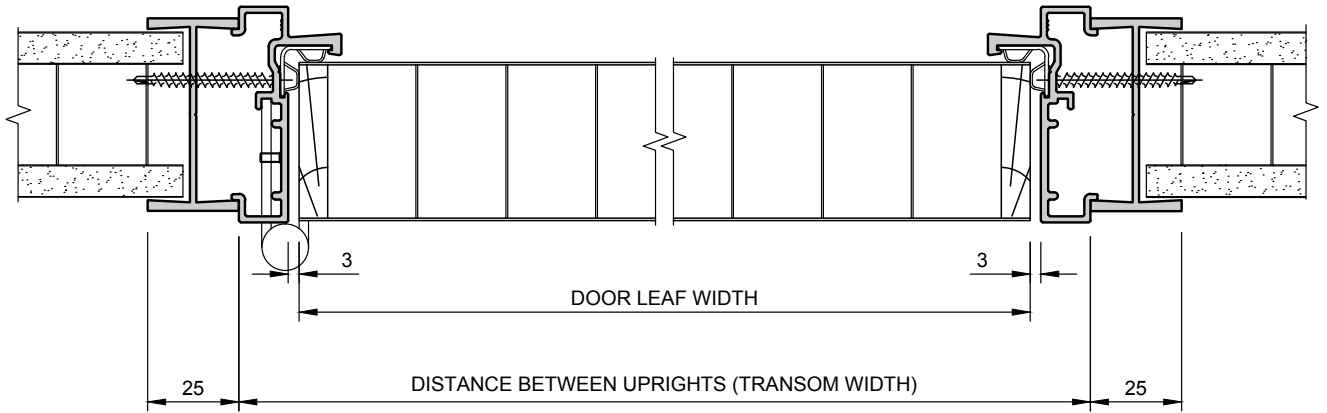


Square 135° Corner Post
Double Glazed / Door

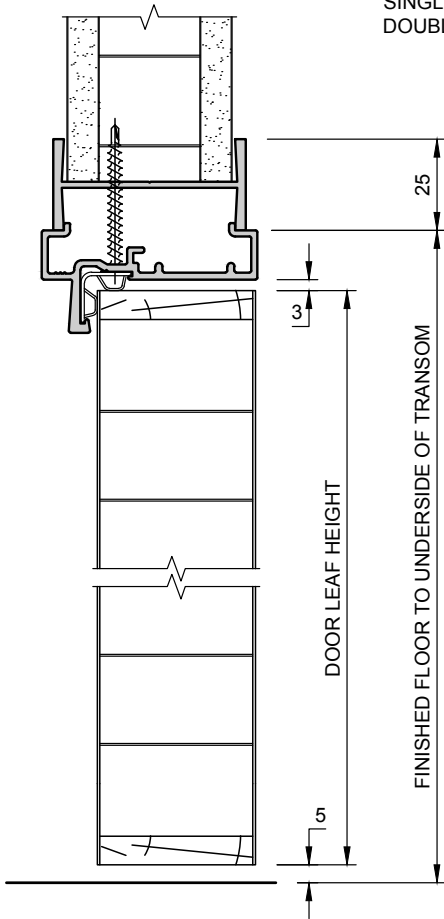


Three-Way Junction
Double Glazed / Solid / Door



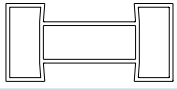
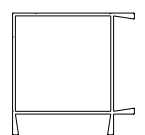
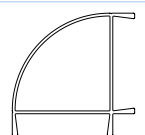
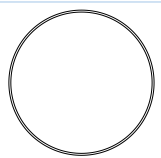
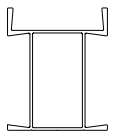
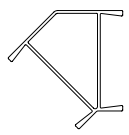
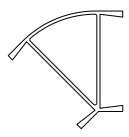
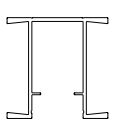

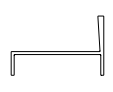
system 2000 setting out details






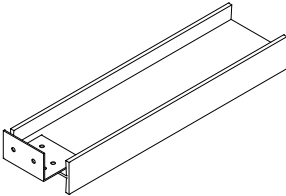
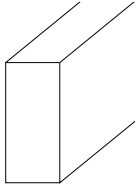
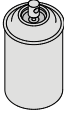









DISTANCE BETWEEN UPRIGHTS
 SINGLE DOORS = DOOR WIDTH + 33mm
 DOUBLE DOORS = DOOR WIDTHS + 35mm







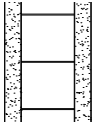
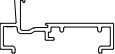



FINISHED FLOOR TO UNDERSIDE OF
 TRANSOM = DOOR LEAF HEIGHT + 22mm

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	PT1002 Reversible Head Channel	3000	11465	15363	21842
		3600	11466	11516	11517
	PT1004 Upright (B) Post	2400	11467	21844	21845
		2700	11468	11518	11520
		3000	11469	11519	11521
		3600	11470	21843	21846
	PT1041 Heavy Top Capping (U)	6000	11511	22729	22731
	PT1010 Corner (K) Post	2400	11477	21855	86977
		2700	11478	21856	11527
		3000	11479	11526	11528
		3600	11480	21857	22692
	PT1011 Rounded 90° Corner Post	2700	11481	21858	21860
		3000	11482	11529	11530
		3600	11483	21859	21861
	PT1038 Annular (Q) Post	3600	11509	11544	15395
	PT1017 Three Way Box Post (J)	2400	11495	86985	86986
		2700	11496	29341	86987
		3000	11497	11538	11539
		3600	11498	22700	22701
	PT1012 45° Corner Post	2700	11484	22693	22965
		3000	11485	22694	11531
		3600	11486	86971	86972
	PT1020 Rounded 45° Corner Post	2700	11499	87134	87136
		3000	11500	11540	11541
		3600	22236	28164	87137
	PT1009 Service Post	2700	11474	21851	21853
		3000	11475	11524	11525
		3600	11476	21852	21854
	PT1015 Service Post Infill (O)	2700	11490	21864	22697
		3000	11491	11536	11537
		3600	11492	21865	22698
	PT1023 Abutment Post (I)	2700	11502	22704	22706
		3000	11503	11542	11543
		3600	11504	22705	22707

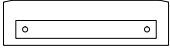
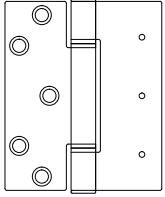


system 2000 components

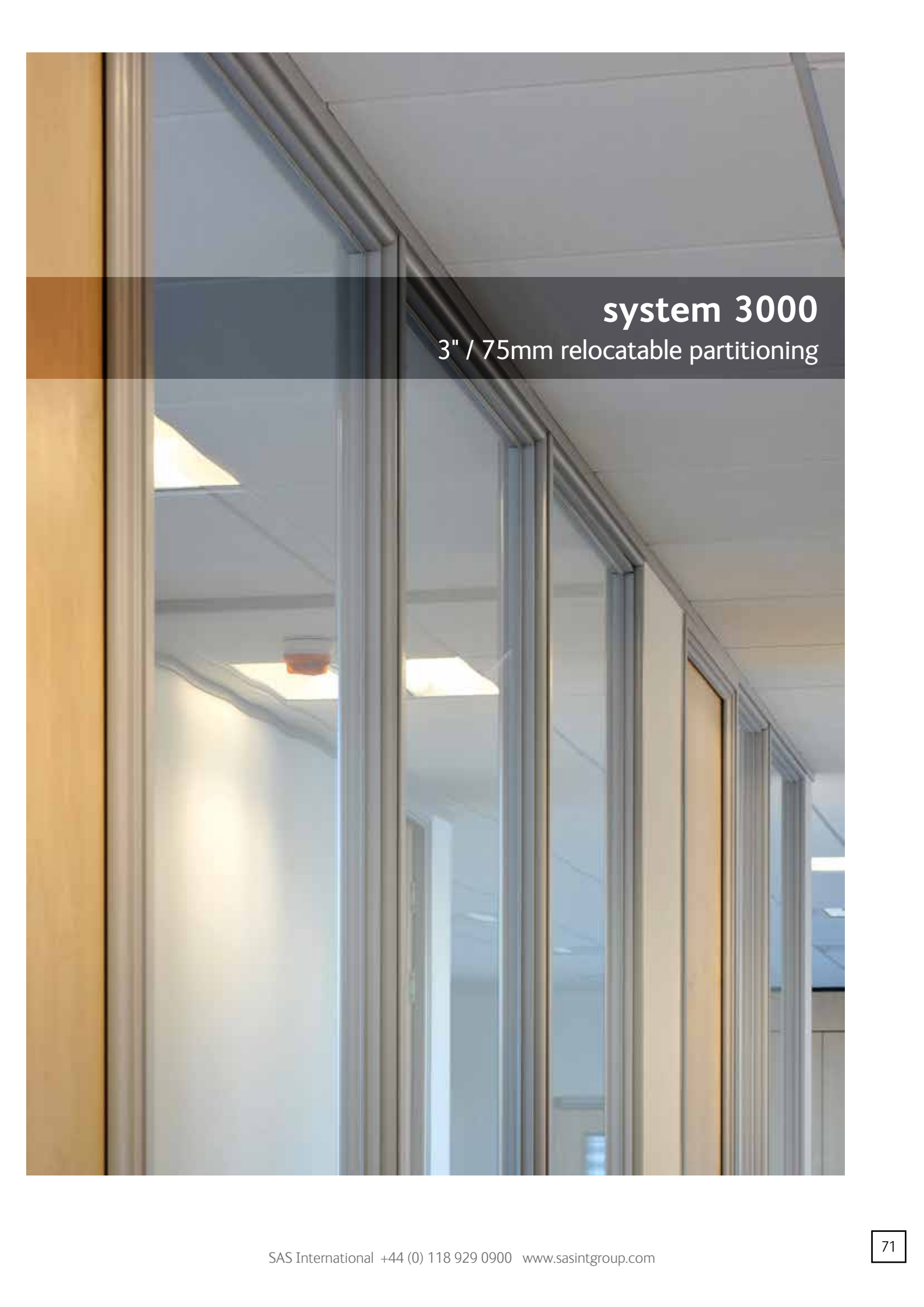
Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	PT1008 Flat (D) Bar	3000	11472	11522	11523
		3600	11473	21849	21850
	PT1016 Shallow (S) Channel	3000	11493	21866	22699
		3600	11494	21867	86984
	PT1013 Infill (Y) Post	3000	11487	11532	11533
		3600	11488	21862	21863
	PTPBT Transom (Pre-bracketed)	726	11461	11577	11583
		826	11462	11578	11584
		838	10655	148512	11585
		926	11463	11580	11586
		1200	11572	11581	11587
		1676	11573	11582	11588
	MC141-FL10 Flaxcore Rip for full height glazing	1165	10878		
	Touch-Up Paint Tin (125ml)	–	15514	23147	23129
	Touch-Up Paint Spray (400ml)	–	15513	15516	11386
	PT1037 Hung Panel Clip (Mill Finish)	3600	11128		
	PT1001 75mm skirting (face fix)	3000	11464	15205	15205
	PT1014 100mm Skirting (Face Fix)	3000	11489	11534	11535
	Flexible Blind Control Cable c/w Knob Coated to Standard Colour	–	26038	108808	108809
			BLACK	WHITE	GREY
	MC123 100mm Plastic Skirting (Black / White / Grey)	3000	74654	74657	74656
	MC110 Two Part Floor Shoe		74644		
	MC111-A Aluminium Fixing Bracket		74645		
	RB130 Skirting Rubber 12mmx3mm	1 x 10m roll	74345		
			SAA	RAL 9010	BS00A05
	PT1024 Aluminium Single Glazing Chair	3600	11505	22708	21869
	PT1025 Aluminium Single Glazing Bead	3600	11506	22709	21870
	PT1026 Aluminium Double Glazing Chair	3600	11507	15388	22710
	PT1027 Aluminium Double Glazing Bead	3600	11508	15389	22711

Profile	Product Ref / Description	Nominal Length (mm)	Item No.			
			BLACK	WHITE	GREY	
	MC116 Single Centre Plastic Glazing Chair (Black / White / Grey)	3600	74648	74650	74649	
	MC117 Single Centre Plastic Glazing Bead (Black / White / Grey)	3600	74651	74653	74652	
	MC1460 Single Offset Plastic Glazing Chair (Black / White / Grey)	3600	74658	74660	74659	
	MC146 Double Glazed Plastic Glazing Chair (Black / White / Grey)	3600	74661	74663	74662	
	MC147 Double/Offset Glazing Bead (Black / White / Grey)	3600	74664	74666	74665	
	Full Glass Timber Packers – 1180 x 100 x 44mm	100	10878			
	Flipper Seal (Black)	1000	32037			
	HC19 Honeycomb Panel	1981x1200x46	74046			
	HC24 Honeycomb Panel	2400x1200x46	74047			
	HC27 Honeycomb Panel	2700x1200x46	74048			
	HC30 Honeycomb Panel	3000x1200x46	74049			
			SAA	RAL 9010	BS00A05	
	PT2002 Square Universal Single Door Frame (NFR)	1981x838	11575	142844	142901	
		2040x926	148481 *	148493 *	148495 *	
	PT2002 Square Handed Single Door Frame (NFR)		2400x838	148482 †	148488 †	148494 †
		148484 *		148492 *	148498 *	
	2900x838	148483 †	148489 †	148497 †		
		148486 *	148491 *	148500 *		
	PT2002 Square Double Door Frame (NFR)	1981x1676	148485 †	148490 †	148499 †	
			2400x1676	148509	148507	148504
			2900x1676	148510	148508	148506
		PT2001 Round Universal Single Door Frame (NFR)	1981x838	10651	11589	11590
2040x826			22114	22116	22118	
			2040x926	22115	22117	22119
PT2001 Round Handed Single Door Frame (NFR)		2040x926	149063 *	149068 *	149084 *	
			149062 †	149067 †	149083 †	
		2400x838	149065 *	149069 *	149087 *	
			148521 †	148523 †	148525 †	
2900x838		149066 *	149071 *	149088 *		
		148522 †	148524 †	148526 †		
PT2001 Round Double Door Frame (NFR)		1981x1676	11574	11591	11592	
	2400x1676		148528	148530	148532	
	2900x1676		148529	148531	148533	

* Left hand door frame
† Right hand door frame

system 2000 components

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	Lock Box	–	11441	11442	11443
	R103 Hinge	–	11175		
			BLACK		GREY
	Door Seal	1000	11435		10658
		2050	11436		10657
		3000	11437		11438
			SAA	RAL 9010	BS00A05
	Fixing Screws – No.8 x 38mm (per pack)	–	11433		
	System 2000 2 Hinge Pack	–	10656	11445	11446
	System 2000 3 Hinge Pack	–	10450	11448	11449
	System 2000 4 Hinge Pack	–	11454	11452	11453
	System 2000 Unmilled Frame Pack	–	54097	148514	148515



system 3000
3" / 75mm relocatable partitioning

System Description

SAS System 3000 is a nominal 75mm (3") demountable partitioning system that provides both fire and acoustic performance. It is available in any combination of solid, fully glazed or part glazed elevations with a square, radiused or wrap around profile.

Comprising a galvanised steel stud framework with aluminium profiles and cover trims, it can be installed as single centre, single offset, double glazed or faced with a single layer of 12.5mm thick gypsum plasterboard.

The overall thickness of the system is 94mm, with all extruded aluminium profiles available as SAA and polyester powder-coated to a range of colours.

System benefits

- Acoustic & fire performance options
- Solid, single- or double-glazed build configurations
- Range of profile options including square wrap-round detail
- Flexible & easy to install
- Rapid fit door frame kits
- Integral blinds & manifestation options

Overall Thickness

94mm

Glass Options

A range of glass options, up to 7mm nominal thicknesses, is available including:

- Toughened
- Laminated
- Electric privacy glass

Finish

Aluminium profiles are available as either satin silver anodised grade AA5 or polyester powder coated; some profiles are ex-stock in RAL9010 and BS 00 A 05.

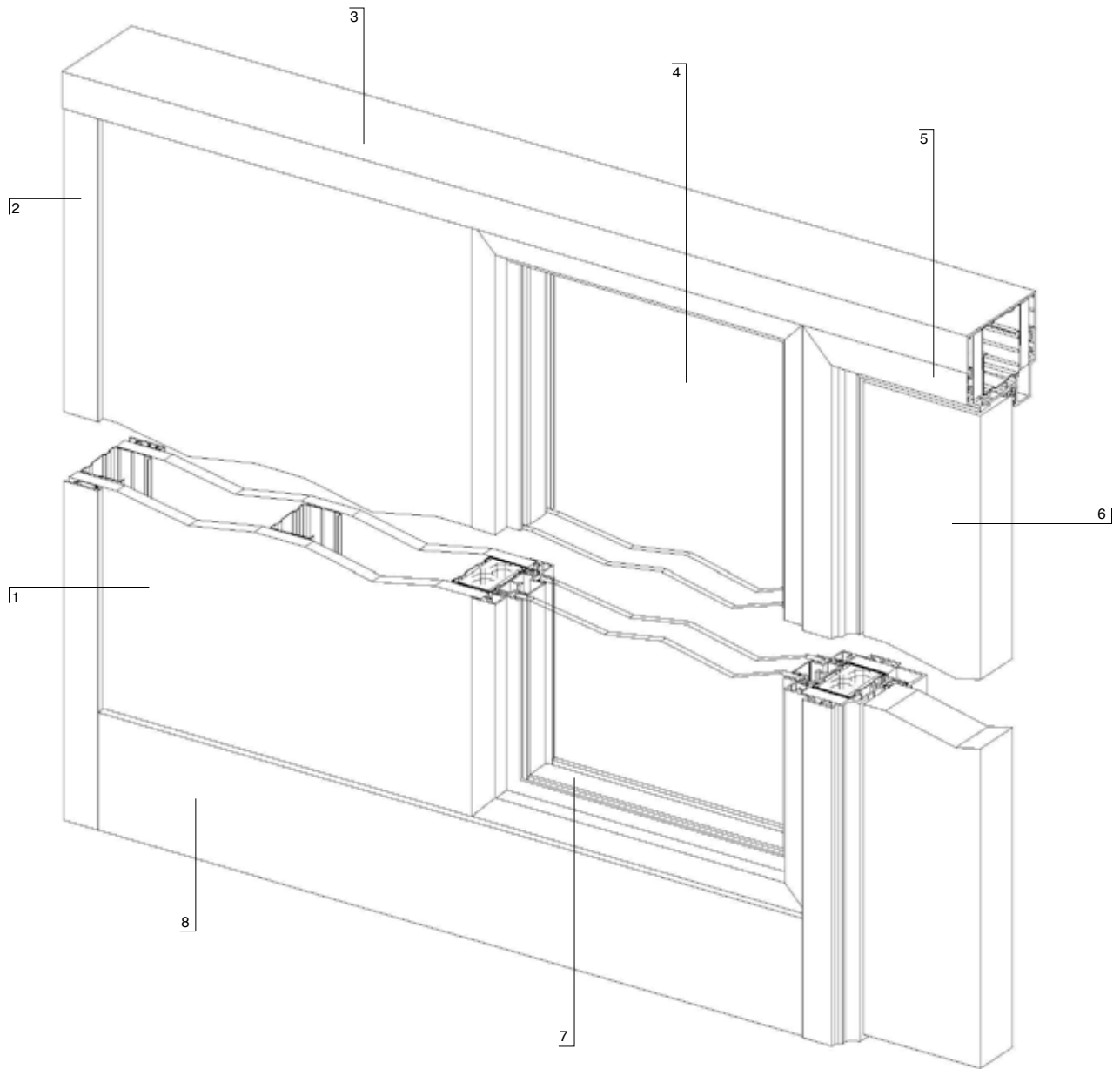
Door Integration

Prefabricated door frame kits, available with radiused or square profiles, permit the inclusion of door openings at virtually any position.

Manifestations

A range of glass manifestations can be supplied and fitted. All manifestation need to comply with Approved Doc M.





1] Plasterboard
5] Door Frame

2] Wall Abutment
6] Door

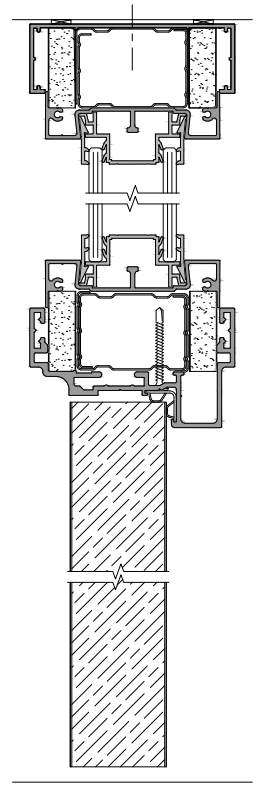
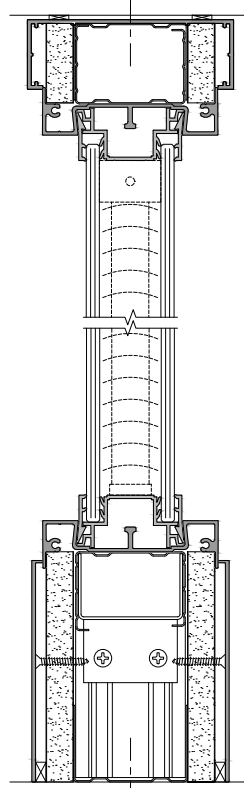
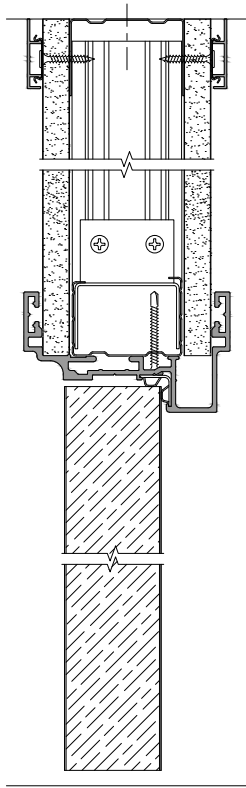
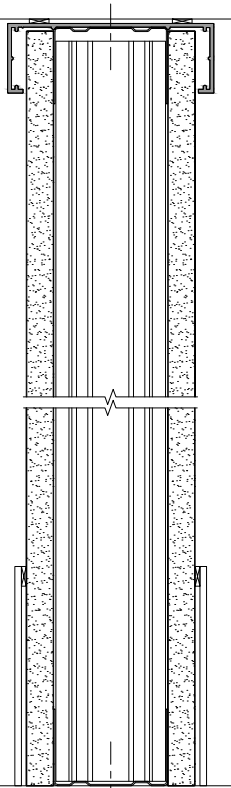
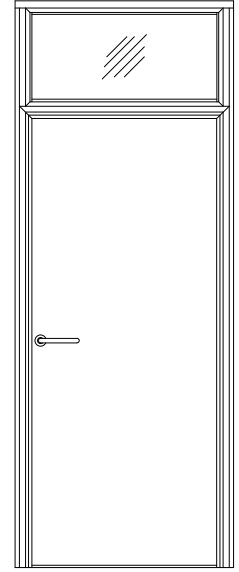
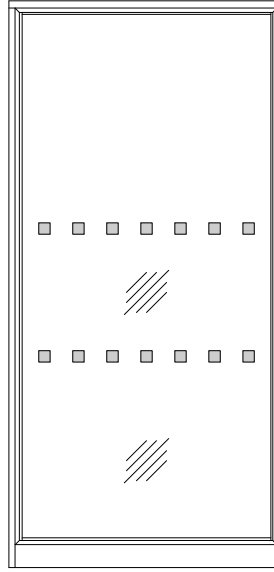
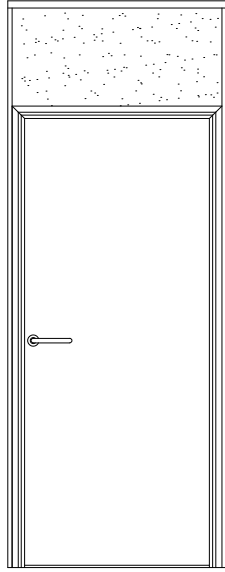
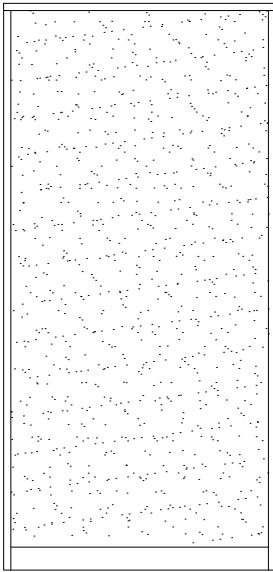
3] Head Track
7] Glazing Chair and Bead

4] Glazing
8] Skirting

Performance Data

	Acoustic Performance	Fire performance	Structural Performance
Solid	up to 37dB	30/0 to 3.4m	Medium Duty at 3m high
Single Glazed (centre glazed)	up to 34dB	30/0 to 3.0m	Severe Duty at 3m high
Single Glazed (offset glazed)	up to 34dB	30/0 to 3.0m	Severe Duty at 3m high
Double Glazed	up to 40dB	30/0 to 3.0m	Severe Duty at 3m high

system 3000 typical elevations



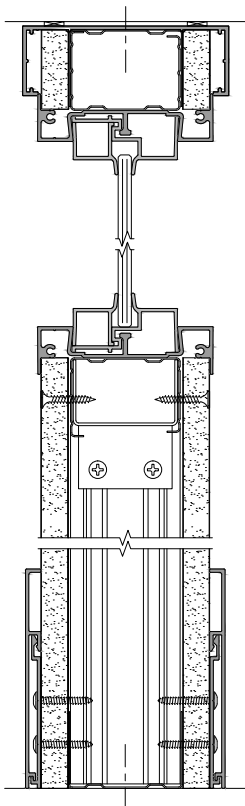
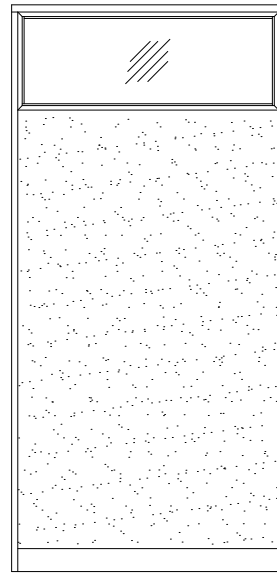
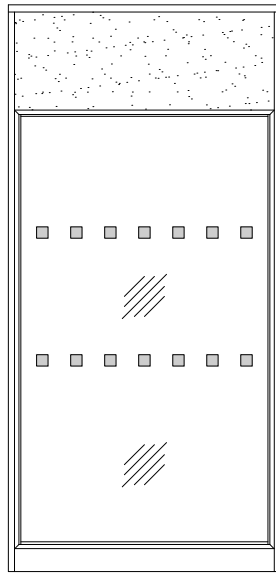
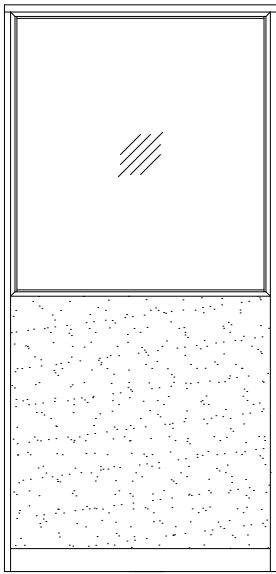
Full Height Solid

Timber Door
with Solid Above

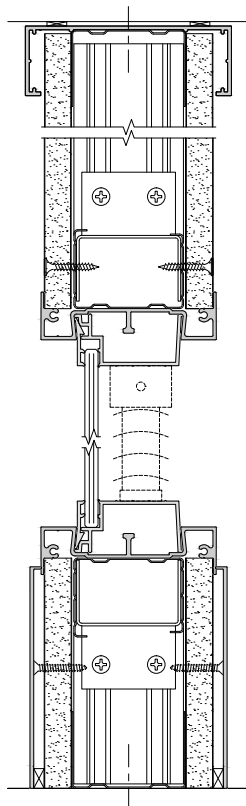
Full Height Double
Glazed (Face Fix Skirting)

Timber Door with
Double Glazed Above

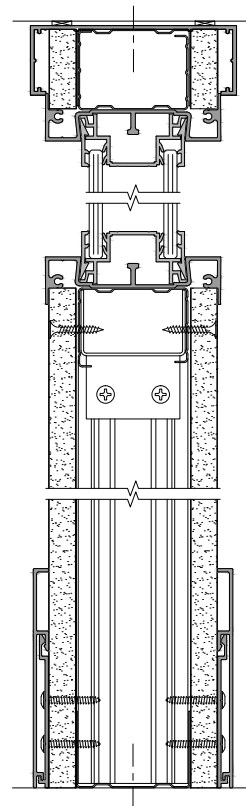
system 3000 typical elevations



Half-Height Solid with
Centre Glazed Above
(Square Clip on Skirting)

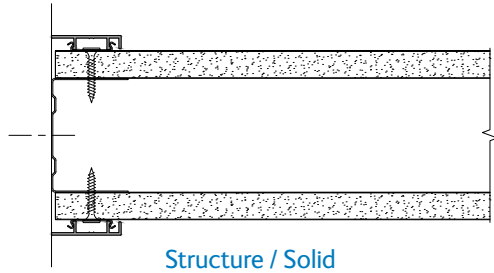


Offset Glazed to Head
Height with Solid Above
(Face Fix Skirting)

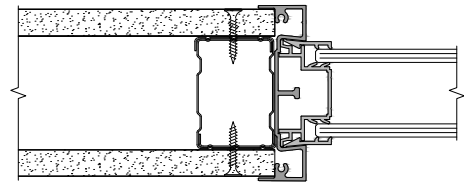


Solid to Head Height with
Double Glazed Above
(Square Clip on Skirting)

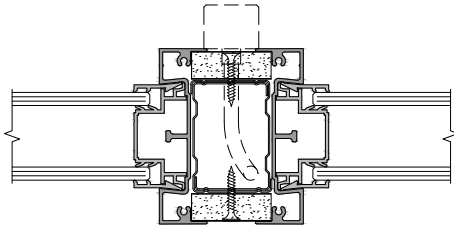
system 3000 typical sections



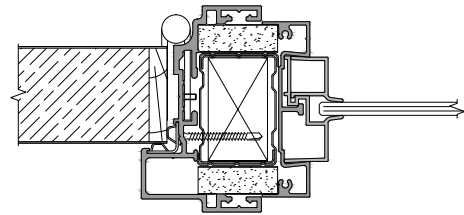
Structure / Solid



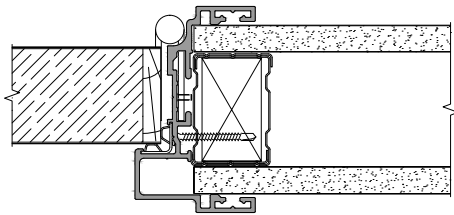
Solid / Double Glazed



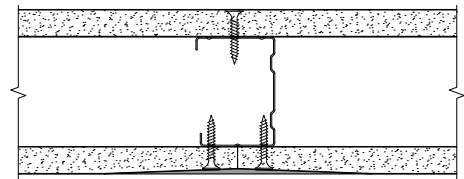
Double Glazed / Double Glazed



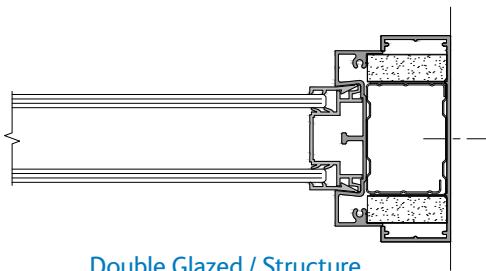
Square Door Frame / Centre Glazed



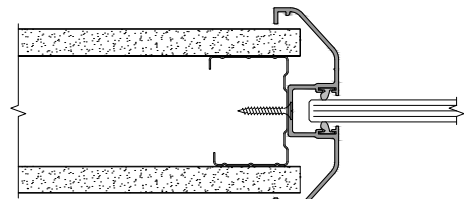
Square Door Frame / Solid



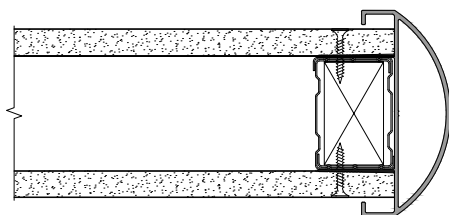
Solid / Solid



Double Glazed / Structure
(Channel Abutment)



System 8000i
Integration



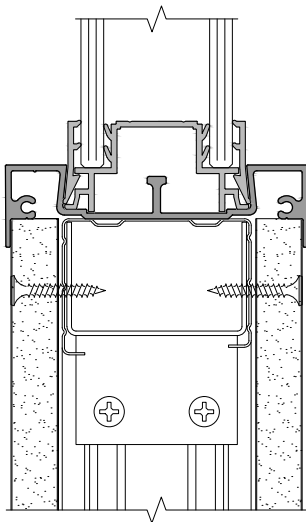
Solid Free End Detail

Glazing options

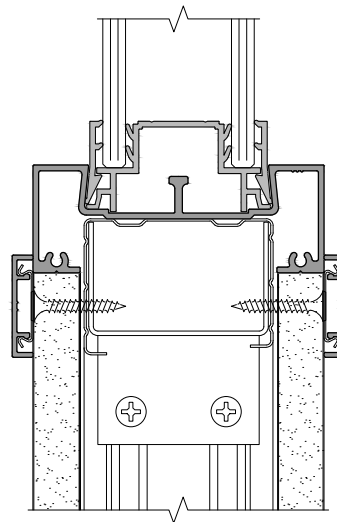
System 3000 offers a range of glazing build options that includes square and radiused profiles with cover trims and also square and radiused wrap-around glazing details.

The wrap-around detail enables glazing frames to be installed quickly and progressively with the project program.

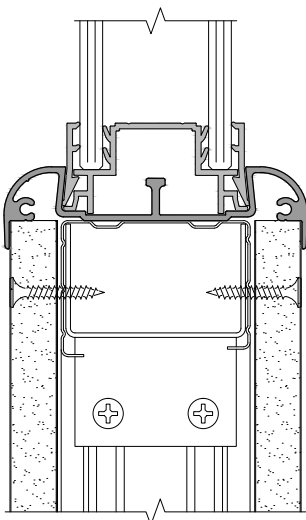
A range of SAS notched transoms are available which enable glazed window frames or transoms to be installed within solid drywall without cover trims.



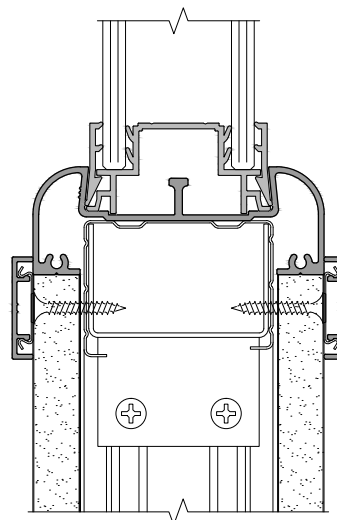
Wrap square glazing section



Square glazing section

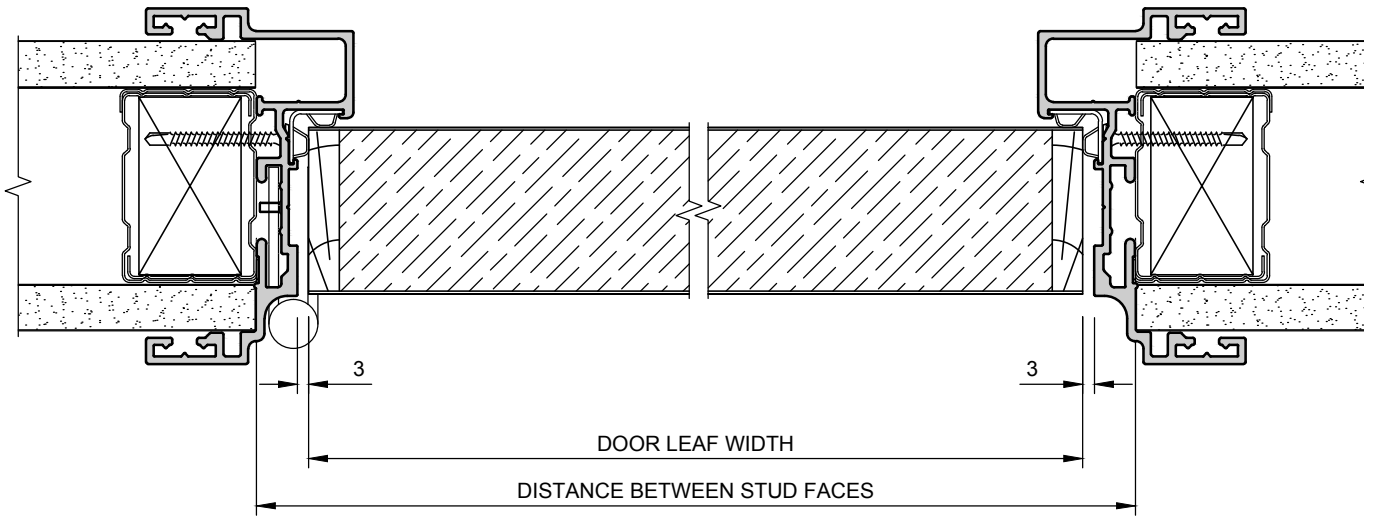


Wrap round glazing section

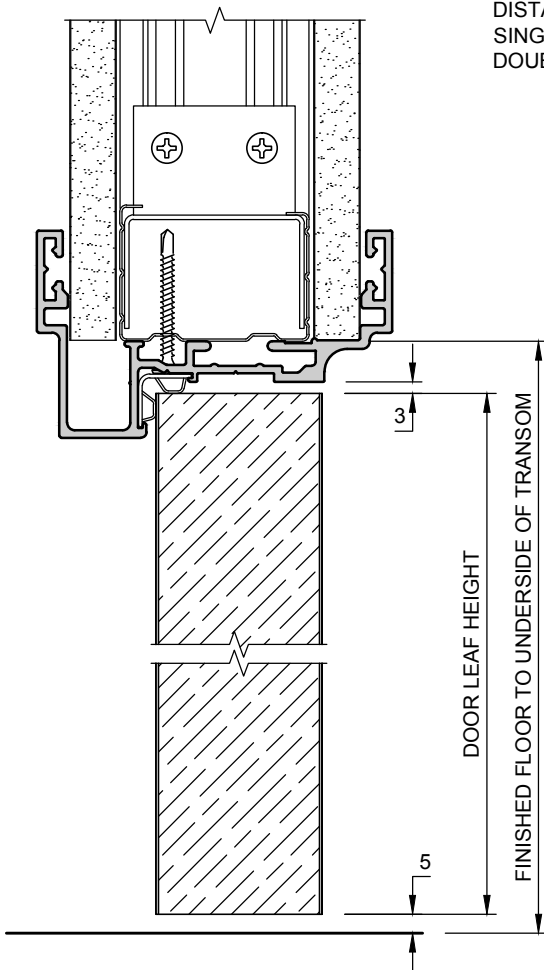


Round glazing section

system 3000 door setting out details



DISTANCE BETWEEN STUD FACES
 SINGLE DOORS = DOOR WIDTH + 28mm
 DOUBLE DOORS = DOOR WIDTHS + 30mm

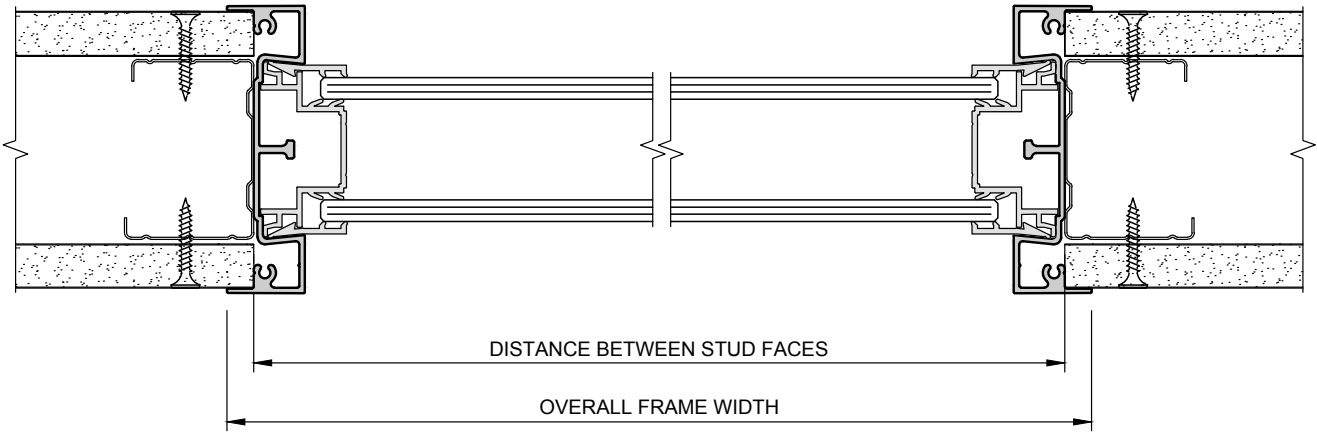


FINISHED FLOOR TO
 UNDERSIDE OF TRANSOM = DOOR LEAF HEIGHT + 19mm

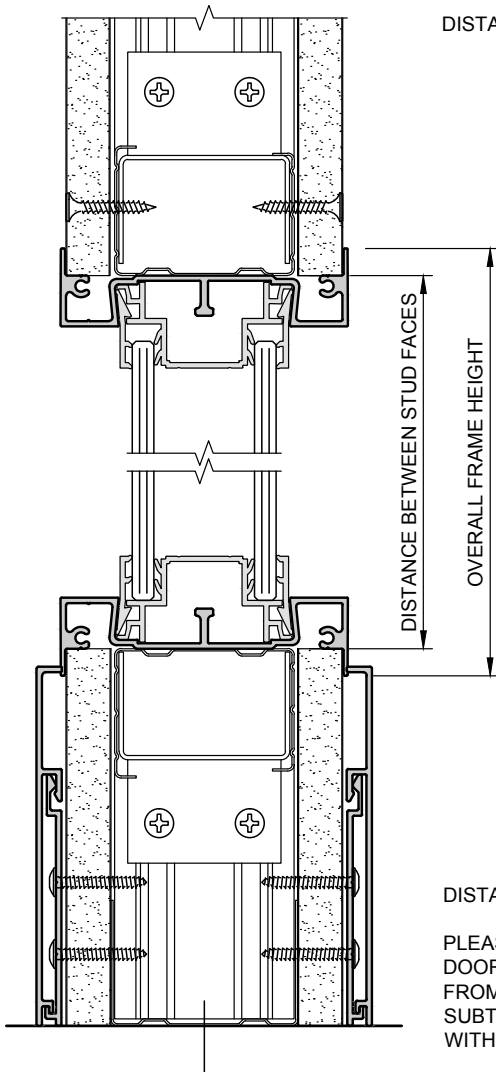
TO ESTABLISH A FULL HEIGHT DOOR LEAF SIZE
 BASED ON A CEILING HEIGHT

DOOR HEIGHT = CEILING HEIGHT - 80mm (INCLUDING HEAD CHANNEL)
 DOOR HEIGHT = CEILING HEIGHT - 48mm (EXCLUDING HEAD CHANNEL)

Wrap square window frames



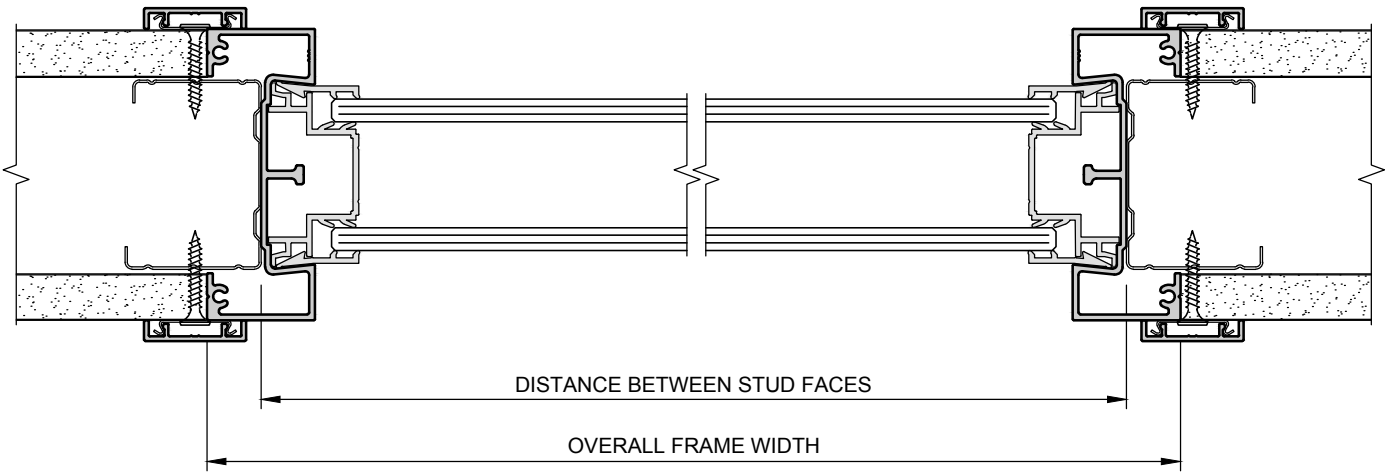
DISTANCE BETWEEN STUD FACES = OVERALL FRAME WIDTH - 15mm



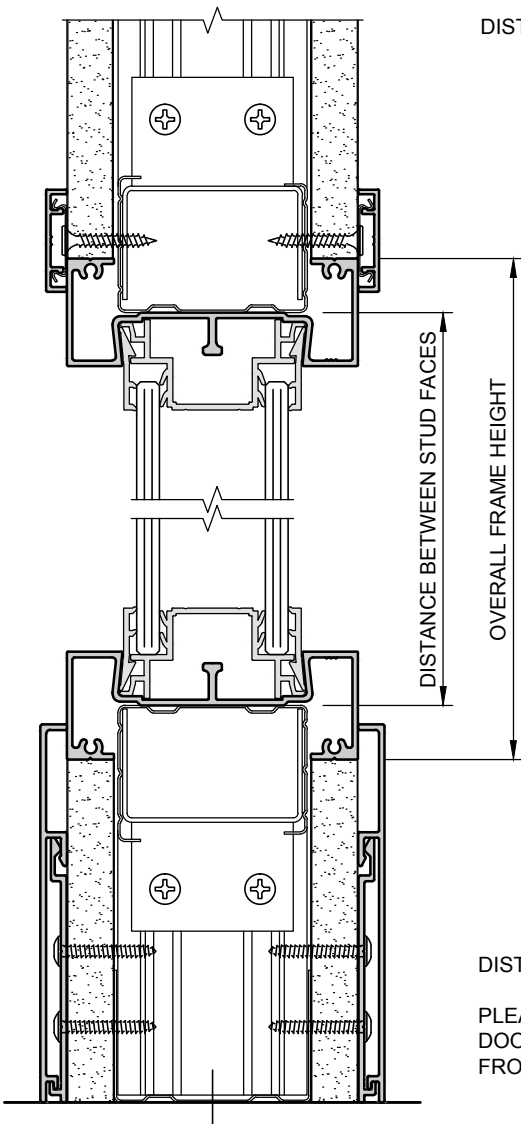
DISTANCE BETWEEN STUD FACES = OVERALL FRAME HEIGHT - 15mm

PLEASE NOTE: FOR WINDOW FRAME TO LINE THROUGH WITH TOP OF DOOR FRAME, ASSUMING 100mm SKIRTING IS USED, SUBTRACT 74mm FROM DOOR HEIGHT FOR WRAP AROUND FRAMES WITH COVER TRIMS. SUBTRACT 49mm FROM DOOR HEIGHT FOR WRAP AROUND FRAMES WITHOUT COVER TRIMS.

Square window frames


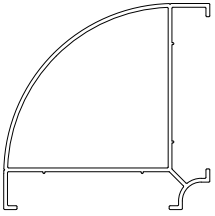
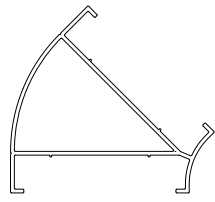
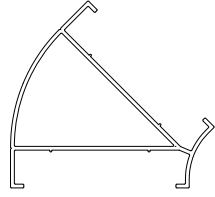
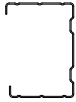
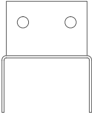









DISTANCE BETWEEN STUD FACES = OVERALL FRAME WIDTH - 28mm






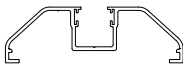


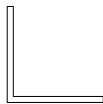


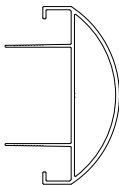
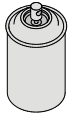


DISTANCE BETWEEN STUD FACES = OVERALL FRAME HEIGHT - 28mm

PLEASE NOTE: FOR WINDOW FRAME TO LINE THROUGH WITH TOP OF DOOR FRAME, ASSUMING 100mm SKIRTING IS USED, SUBTRACT 61mm FROM DOOR HEIGHT FOR NON WRAP AROUND FRAMES.

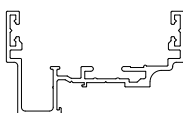
Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	PT3443 75mm Head Channel	3000	11244	11319	11321
		3600	11245	11320	11322
	PT090 Head Channel Splice Plate 90° (Galvanized)		11162		
	PT135 Head Channel Splice Plate 135° (Galvanized)		11163		
	PT180 Head Channel Splice Plate 180° (Galvanized)		11164		
	PT1035 90° Corner Post	3000	11218	11269	11271
		3600	11219	11270	11272
	PT1036 135° Corner Post	3000	11220	11273	11275
		3600	11221	11274	11276
	50mm Galvanised Steel Stud	2400	54934		
		2700	54935		
		3000	54936		
		3600	54937		
	STUD50R1163J 50mm Stud Section for 1200mm Transom	1200	11100		
STUD50R0864J 50mm Stud Section for Door Transom	838	12925			
	PTSTB50R Bracket for 50mm Stud Transom	each	11180		
	FR101-30 52mm Floor Track 35mm Leg	3000	54953		
	DSW28x43x27 Softwood Stud Infill for 50mm Stud	3000	10719		
	PFIL1200 35 x 1200mm Plasterboard Fillet	1200	11158		
	PT1054 Steel 135° Corner Liner (Galvanized)	3000	11097		
	PT0007 Aluminium Cover Trim for use with Wrap Around Window Frames	2400	11202	11246	11250
		2700	11203	11247	11251
		3000	11204	11248	11252
		3600	11205	11249	11253
	PT0008 FA2 Aluminium Cover Trim for use with Square or Rounded Window Frames	2400	11206	21833	21835
		2700	11207	11254	11256
		3000	11208	11255	11323
		3600	11209	21834	21836
	PT1055 Galvanised Clamping Strip	2700	36844		
		3000	11098		
		3600	11099		

system 3000 components

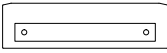
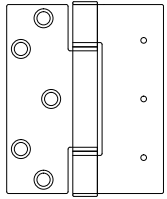


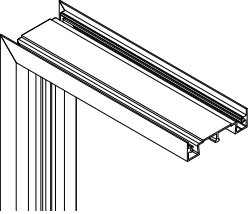
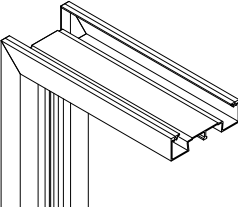
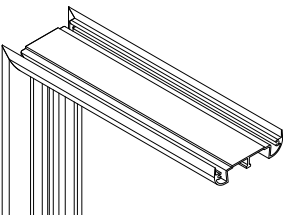
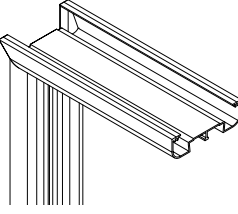
Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	PT1028 135° External Corner Cover Trim	2700	15390	22712	22714
		3000	15391	11263	11264
		3600	22716	22713	22715
	PT1029 135° Internal Corner Cover Trim	2700	11212	21873	22719
		3000	21874	11265	11266
		3600	21875	22178	22720
	PT1039 90° Aluminium Clip-On Corner Angle	2700	11222	11277	11280
		3000	11223	11278	11281
		3600	11224	11279	11282
	PT2039 90° Aluminium Clip-On Rounded Corner Angle	2700	11238	11307	11310
		3000	11239	11308	11311
		3600	11240	11309	11312
	PT1040 Clip Section for 90° External Angle (Mill)	2700	11132		
		3000	11133		
		3600	11134		
	PT2014 System 3000 Adaptor Post for System 8000i Glazing	3000	11613	15401	15402
	PT1030 Aluminium Angle 25mm	3000	11213	87372	87373
		3600	11214	87374	87375
	PT1006 Aluminium Angle 32mm	3000	11210	11257	11259
		3600	11211	11258	11260
	PT1031 Aluminium Angle 50mm	3000	11215	87376	87377
		3600	11216	87379	87378
	SYS05 Steel Omega Section (Galvanized)	2600	11765	21819	21820
		2900	11766	11896	11897
	SYP11 PVC Omega Infill (Grey)	3000	11875		
	SYP11 PVC Omega Infill (White)	3000	11871		
	SYP11 PVC Omega Infill (Dark Grey) RAL 7011	3000	11874		
	SYP11 PVC Omega Infill (Ivory) RAL 1013	3000	11872		
	SYP11 PVC Omega Infill (Black) RAL 9011	3000	11873		
	PT2015 75mm Radiused Stop End Section	3000	11237	15404	22735
	Touch-Up Paint Tin (125ml)	–	15514	23147	23129
	Touch-Up Paint Spray (400ml)	–	15513	15516	11386

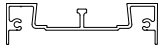
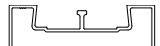
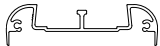
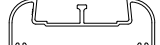





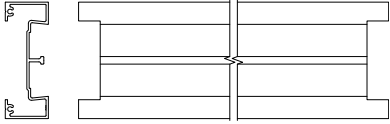
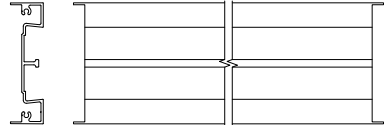











Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	PT1001 75mm Skirting (face fix)	3000	11464	21839	21840
	PT1014 100mm Skirting (face fix)	3000	11489	11534	11535
	PT1021 100mm Skirting Concealed Fixing (Insert)	3000	21941	11261	11262
			BLACK	WHITE	GREY
	Skirting Infill (Black / White / Grey)	25	11178	11177	11179
			SAA	RAL 9010	BS00A05
	PT1034 100mm Concealed Fix Skirting Radiused	3000	11217	11267	11268
	PT1032 100mm Concealed Fix Skirting Square	3000	75105	75103	75102
	PT1033 Fixing Clip for 100mm Concealed Skirting	–	11334		
			BLACK	WHITE	GREY
	MC123 100mm Plastic Skirting (Black / White / Grey)	3000	74654	74657	74656

system 3000 components

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
75mm Door Frames					
	PT3003 75mm Square Universal Single Door Frame (NFR)	1981x838	96880	96881	99365
		2040x826	139298	148542	148539
		2040x926	149164	144864	149217
	PT3003 75mm Square Handed Single Door Frame (NFR)	2040x926	149167 *	142753 *	149219 *
			149166 †	142752 †	149218 †
		2400x838	149171 *	149206 *	149221 *
			149170 †	149205 †	149220 †
		2900x838	149175 *	149208 *	149223 *
			149174 †	149207 †	149222 †
	PT3003 75mm Square Double Door Frame (NFR)	1981x1676	96883	96882	99369
		2400x1676	149179	149211	149236
		2900x1676	149180	149212	149238
	PT3003 75mm Square Universal Single Door Frame (FD30)	1981x838	110195	110194	110198
		2040x826	148537	148542	148540
		2040x926	149165	149200	149225
	PT3003 75mm Square Handed Single Door Frame (FD30)	2040x926	149169 *	149202 *	149228 *
			149168 †	149201 †	149226 †
		2400x838	149173 *	149204 *	149231 *
			149172 †	149203 †	149230 †
		2600x838	149177 *	149210 *	149234 *
149176 †			149209 †	149233 †	
PT3003 75mm Square Double Door Frame (FD30)	1981x1676	110200	110197	110199	
	2400x1676	149181	149213	149239	
	2500x1676	149182	149214	149240	
	PT2003 75mm Round Universal Single Door Frame (NFR)	1981x838	11350	11366	11368
		2040x826	22098	22102	22106
		2040x926	22100	22104	22108
	PT2003 75mm Round Handed Single Door Frame (NFR)	2040x926	147358 *	127399 *	149121 *
			74850 †	78377 †	149120 †
		2400x838	149091 *	149111 *	149124 *
			149090 †	149110 †	149122 †
		2900x838	149094 *	149113 *	149127 *
			149093 †	149112 †	149126 †
	PT2003 75mm Round Double Door Frame (NFR)	1981x1676	11352	11370	11372
		2400x1676	149095	149116	149130
		2900x1676	149096	149118	149131
	PT2003 75mm Round Universal Single Door Frame (FD30)	1981x838	11351	11367	11369
		2040x826	22099	22103	22107
		2040x926	22101	22105	22109
	PT2003 75mm Round Handed Single Door Frame (FD30)	2040x926	149141 *	138095 *	149155 *
			149140 †	138096 †	149154 †
		2400x838	149143 *	149149 *	149157 *
			149142 †	149148 †	149156 †
		2600x838	149145 *	149151 *	149159 *
149144 †			149150 †	149158 †	
PT2003 75mm Round Double Door Frame (FD30)	1981x1676	11353	11371	11373	
	2400x1676	149146	149152	149160	
	2500x1676	149147	149153	149161	

* Left hand door frame
† Right hand door frame

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
Door Frame Components			SAA	RAL 9010	BS00A05
	Lock Box	–	11441	11442	11443
	R103 Hinge	–	11175		
			BLACK	WHITE	GREY
	Door Seal	1000	11435		10658
		2050	11436		10657
		3000	11437		11438
	Intumescent Strip	1050	11159	40033	11160
	Fixing Screws – No.8 x 38mm (per pack)	–	11433		
	Steel Mitre Cleats	–	11176		
	PTGP6X45X100 Glazing Packers 6 x 4.5 x 100mm	–	11174		
	Fixing Kit for 5 Modules	–	74647		
Pre-Mitred Glazing Frames			SAA	RAL 9010	BS00A05
	PT3006 Wrap Square Window Frame	1200 x 800	152370	152376	152382
		1200 x 1200	152371	152377	152383
		2000 x 300	152372	152378	152384
		1200 x 2400	152373	152379	152385
		1200 x 2700	152374	152380	152386
		1200 x 3000	152375	152381	152387
	PT2008 Square Window Frame	1200 x 800	152351	152357	152363
		1200 x 1200	152382	152358	152364
		2000 x 300	152383	152359	142365
		1200 x 2400	152384	152360	152366
		1200 x 2700	152385	152361	152367
		1200 x 3000	152386	152362	152368
	PT2006 Wrap Round Window Frame	1200 x 800	11348	11362	11363
		1200 x 1200	11349	11364	11365
		2000 x 300	152303	152307	152312
		1200 x 2400	152304	152308	152313
		1200 x 2700	152305	152309	152314
		1200 x 3000	152306	152310	152315
	PT2007 Round Window Frame	1200 x 800	11354	21595	21596
		1200 x 1200	11355	21593	15330
		2000 x 300	152330	152337	152346
		1200 x 2400	152331	152338	152347
		1200 x 2700	152332	152339	152348
		1200 x 3000	152333	152340	152349

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
75mm Glazing Components			SAA	RAL 9010	BS00A05
	PT3006 Wrap Square Glazing Section	3600	93253	96890	94786
	PT2008 Square Glazing Section	3600	11232	15399	21604
	PT2006 Wrap Round Glazing Section	3000	11229	11295	11297
		3600	11230	11296	11298
	PT2007 Round Glazing Section	3600	11231	11299	11300
	PT1024 Aluminium Single Glazing Chair	3600	11505	22708	21869
	PT1025 Aluminium Single Glazing Bead	3600	11506	22709	21870
	PT1026 Aluminium Double Glazing Chair	3600	11507	15388	22710
	PT1027 Aluminium Double Glazing Bead	3600	11508	15389	22711
	Flipper Seal (Black)	1000	32037		
	PT2008T Aluminium Square Window Transom Notched	1200	169335	169336	169338
	PT3006T Aluminium Wrap Square Window Transom Notched	1200	110911	110936	110939
			BLACK	WHITE	GREY
	MC116 Single Centre Plastic Glazing Chair (Black / White / Grey)	3600	74648	74650	74649
	MC117 Single Centre Plastic Glazing Bead (Black / White / Grey)	3600	74651	74653	74652
	MC1460 Single Offset Plastic Glazing Chair (Black / White / Grey)	3600	74658	74660	74659
	MC146 Double Glazed Plastic Glazing Chair (Black / White / Grey)	3600	74661	74663	74662
	MC147 Double/Offset Glazing Bead 3600mm (Black / White / Grey)	3600	74664	74666	74665
	PTEROSSPVC Fire Rated Offset Chair	3600	11172	11171	11173
	PTFRDGPVC Fire Rated Double Chair	3600	11166	11165	11167
	PTFROSDGPVC Fire Rated Double/Offset Glazing Wedge Bead	3600	11169	11168	11170
			GALVANIZED		
	PT1050 Double / Offset Glazing Outer Liner	1100	11093		
	PT1051 Double / Offset Glazing Inner Liner	1100	11094		
	PT1052 Steel Single Glazing Liner	1100	11095		
		2700	11096		

system 4000
4" / 100mm relocatable partitioning

system 4000 overview

System Description

SAS System 4000 is a nominal 100mm (4") demountable partitioning system that provides both fire and acoustic performance. It is available in any combination of solid, fully glazed or part glazed elevations with a square, radiused or wrap around profile.

Comprising a galvanised steel stud framework with aluminium profiles and cover trims, it can be installed as single centre, single offset, double glazed or faced with a two layers of 12.5mm thick gypsum plasterboard. Door frames are supplied as manufactured kits for rapid on-site fitting with a range of integrating doors available.

The overall thickness of the system is 119mm, with all extruded aluminium profiles available as SAA and polyester powder-coated to a range of colours.

System benefits

- Simple, attractive design
- Acoustic & fire performance options
- Single or double glazed available
- Flexible & easy to install
- Rapid fit door frame kits
- Choice of joints and detailing
- Integral blinds & manifestation options

Overall Thickness

119mm

Glass Options

A range of glass options, up to 7mm nominal thicknesses, is available including:

- Toughened
- Laminated
- Electric privacy glass

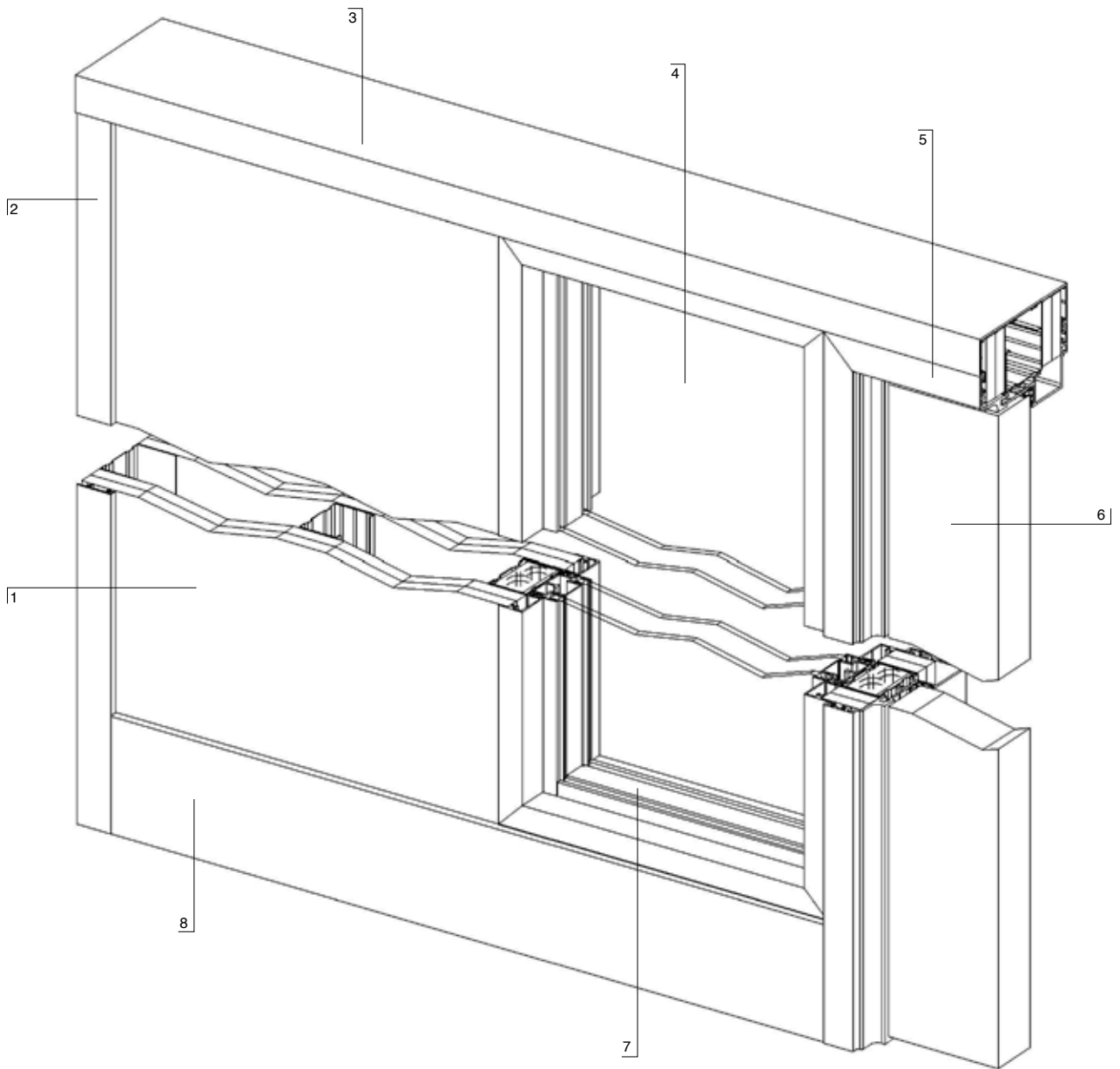
Finish

Aluminium profiles are available as either satin silver anodised grade AA5 or polyester powder coated, some profiles are ex-stock in RAL9010 and BS 00 A 05.

Manifestations

A range of glass manifestations can be supplied and fitted. All manifestation need to comply with Approved Doc M.



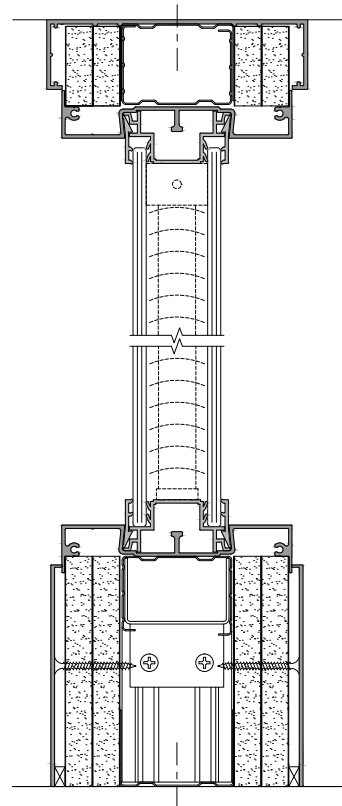
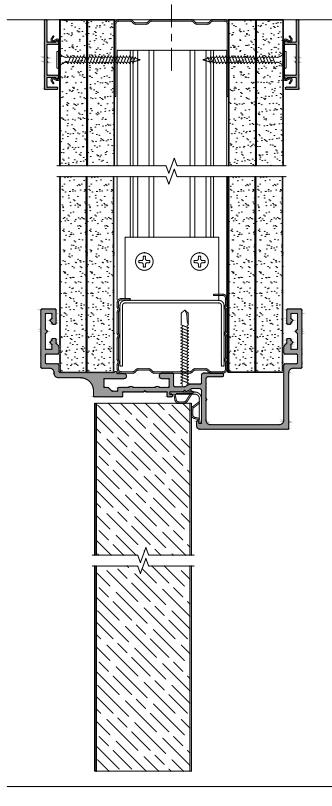
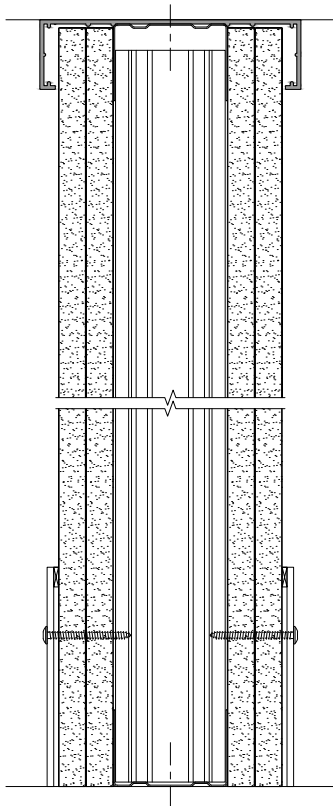
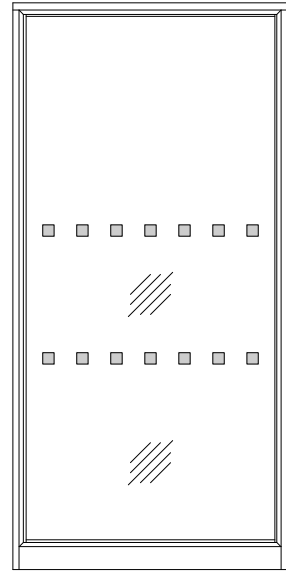
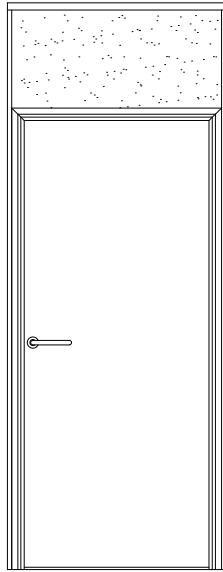
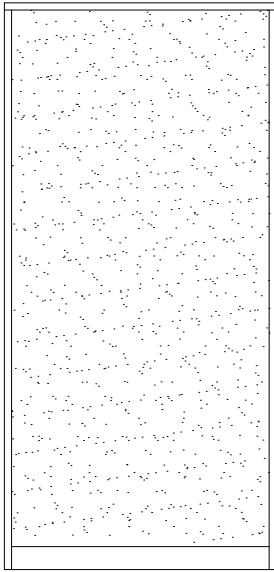


- 1] Plasterboard
- 2] Wall Abutment
- 3] Head Track
- 4] Glazing
- 5] Door Frame
- 6] Door
- 7] Glazing Chair and Bead
- 8] Skirting

Performance Data

	Acoustic Performance	Fire performance	Structural Performance
Solid	up to 43dB	30/0	Medium Duty at 3m high
Single Glazed (centre glazed)	up to 34dB	30/0	Severe Duty at 3m high
Single Glazed (offset glazed)	up to 34dB	30/0	Severe Duty at 3m high
Double Glazed	up to 40dB	30/0	Severe Duty at 3m high

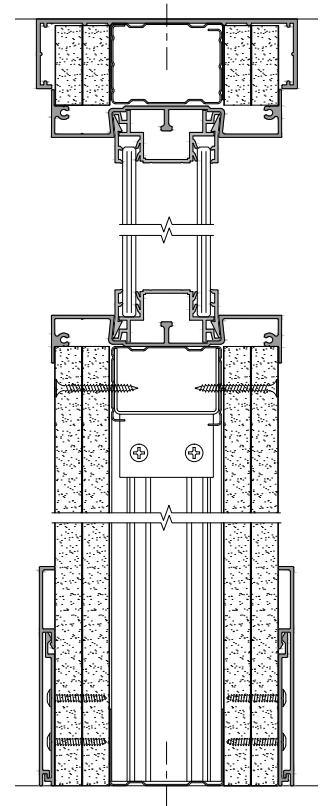
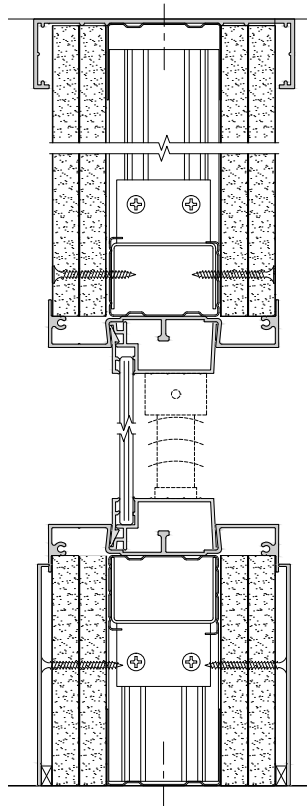
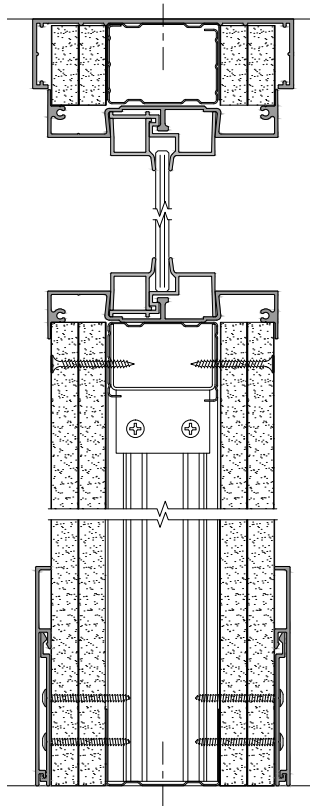
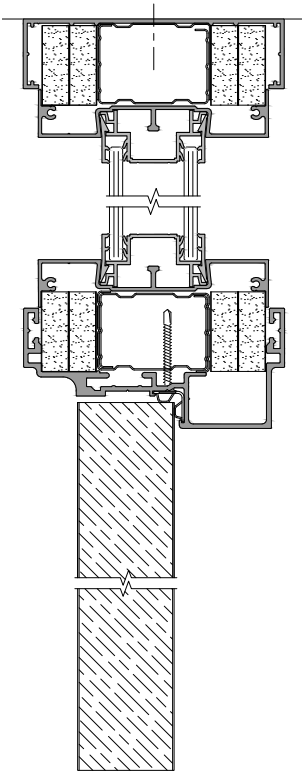
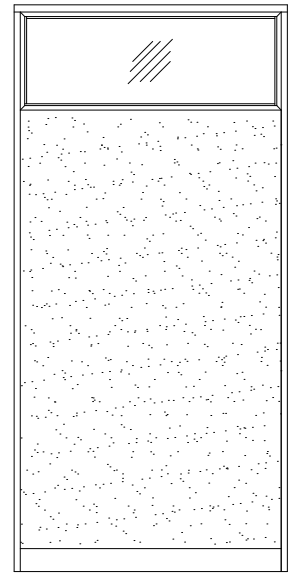
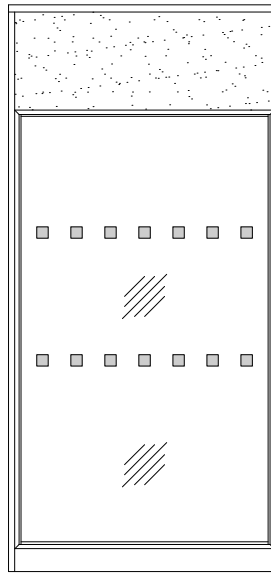
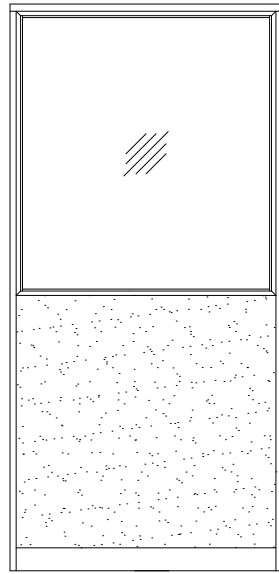
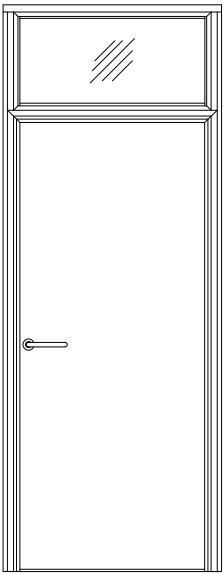
system 4000 typical elevations



Full Height Solid

Timber Door with
Solid Above

Full Height Double
Glazed (Face Fix Skirting)



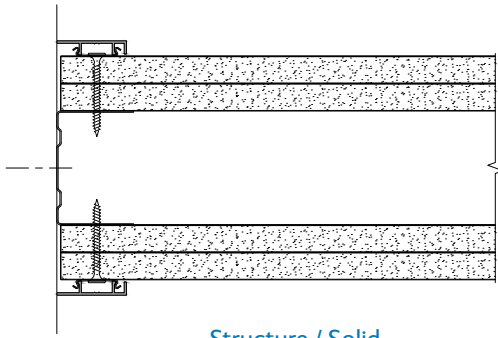
Timber Door with
Double Glazed Above

Half-Height Solid with
Centre Glazed Above
(Square Clip-On Skirting)

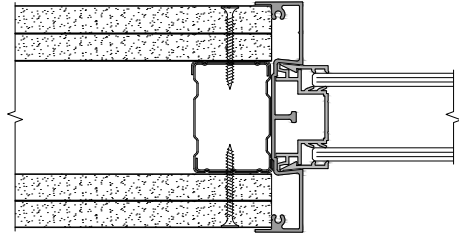
Offset Glazed to Head
Height with Solid Above
(Face Fix Skirting)

Solid to Head Height with
Double Glazed Above
(Square Clip-On Skirting)

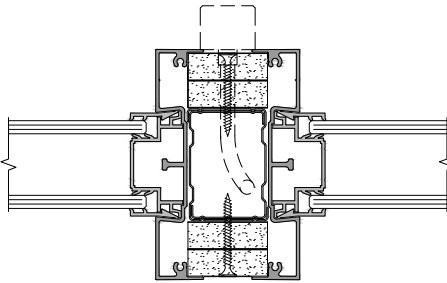
system 4000 typical sections



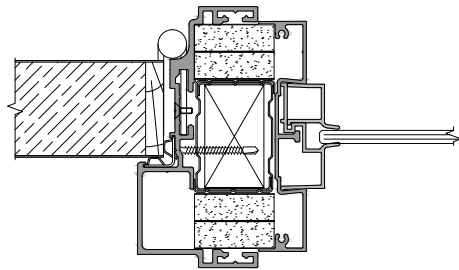
Structure / Solid
(Trimmed Abutment)



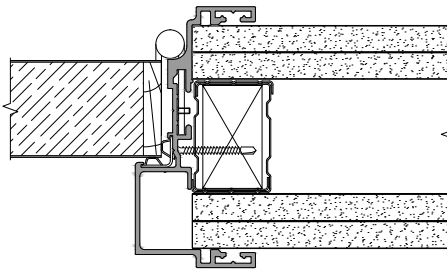
Solid / Double Glazed



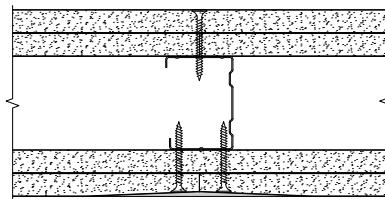
Double Glazed / Double Glazed



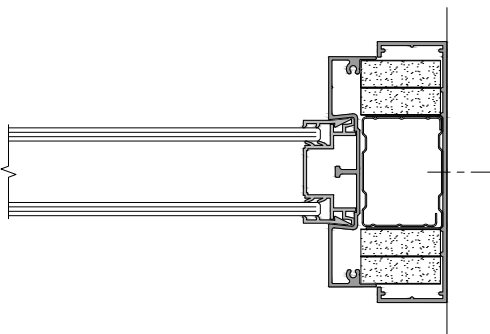
Square Door Frame / Centre Glazed



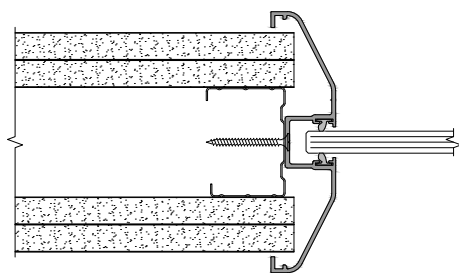
Square Door Frame / Solid



Solid / Solid
(Taped and Jointed)



Double Glazed / Structure
(Channel Abutment)



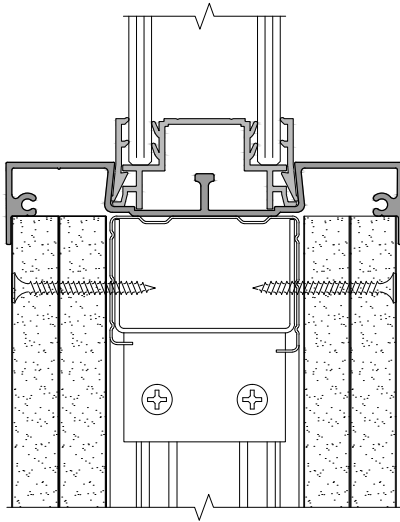
System 8000i Integration

Glazing options

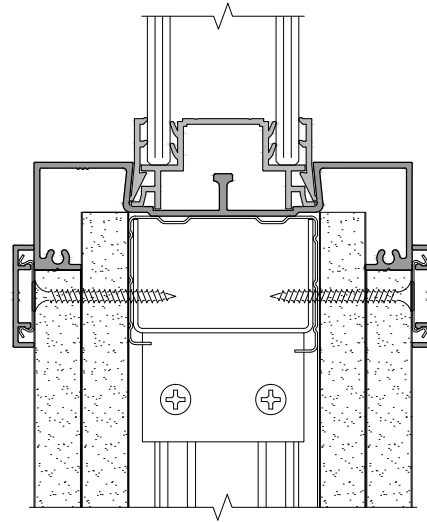
System 4000 offers a range of glazing build options that includes square and radiused profiles with cover trims and also square and radiused wrap-around glazing details.

The wrap-around detail enables glazing frames to be installed quickly and progressively with the project program.

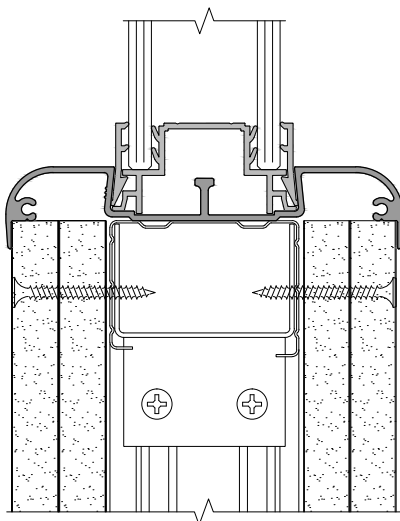
A range of SAS notched transoms are available which enable glazed window frames or transoms to be installed within solid drywall without cover trims.



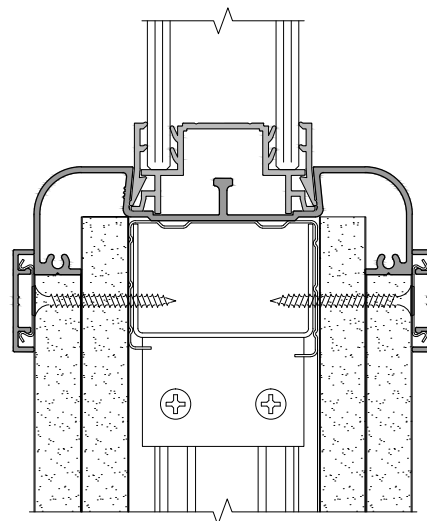
Wrap Square glazing section



Square glazing section

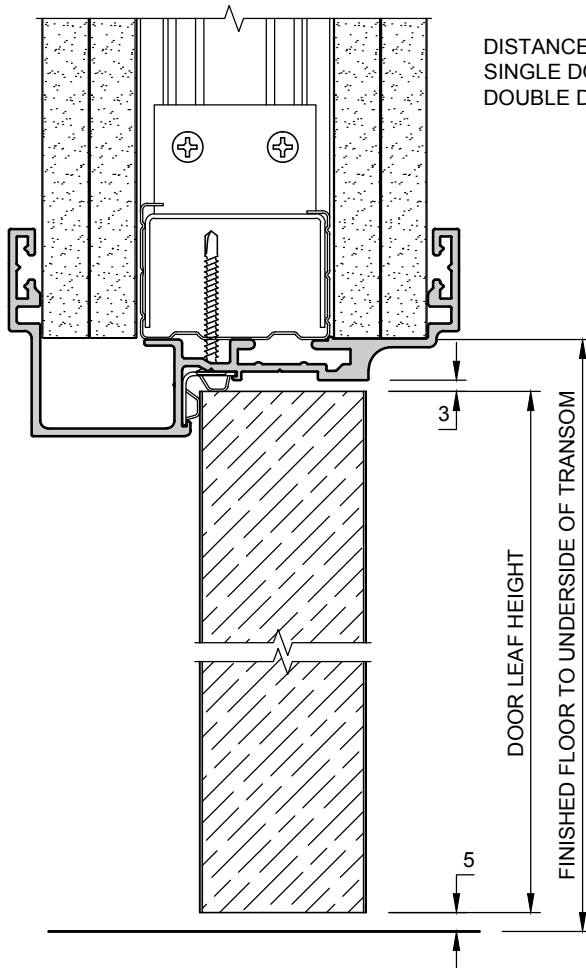
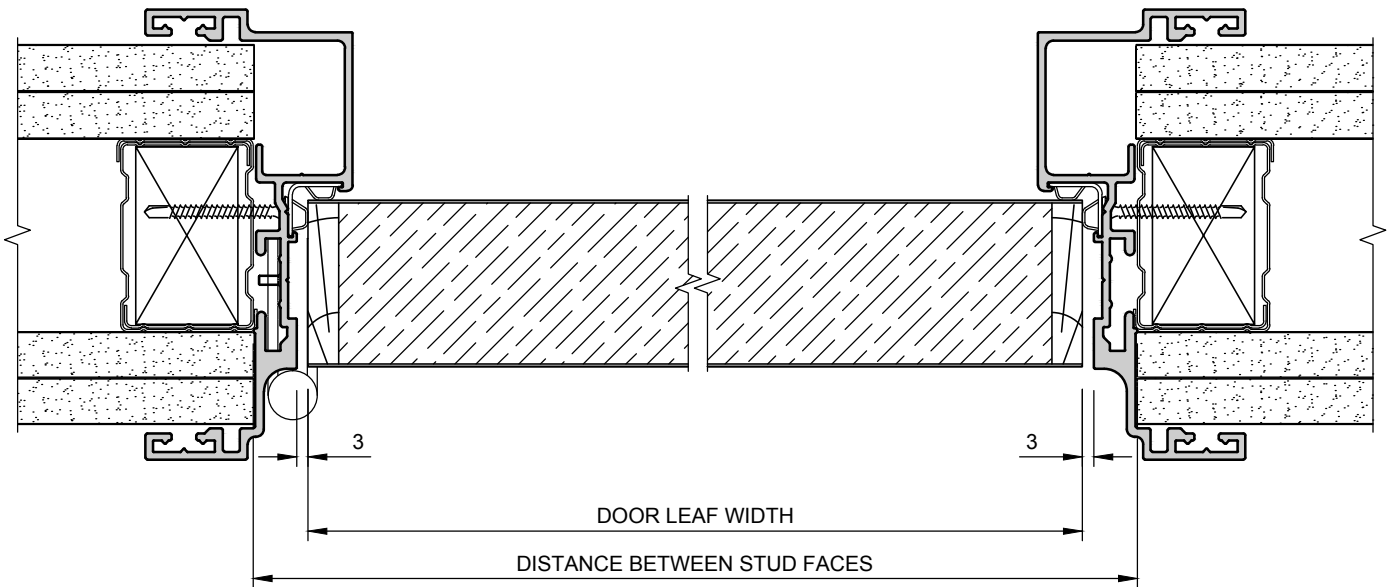


Wrap Round glazing section



Round glazing section

system 4000 door setting out details



DISTANCE BETWEEN STUD FACES
 SINGLE DOORS = DOOR WIDTH + 28mm
 DOUBLE DOORS = DOOR WIDTHS + 30mm

FINISHED FLOOR TO
 UNDERSIDE OF TRANSOM = DOOR LEAF HEIGHT + 19mm

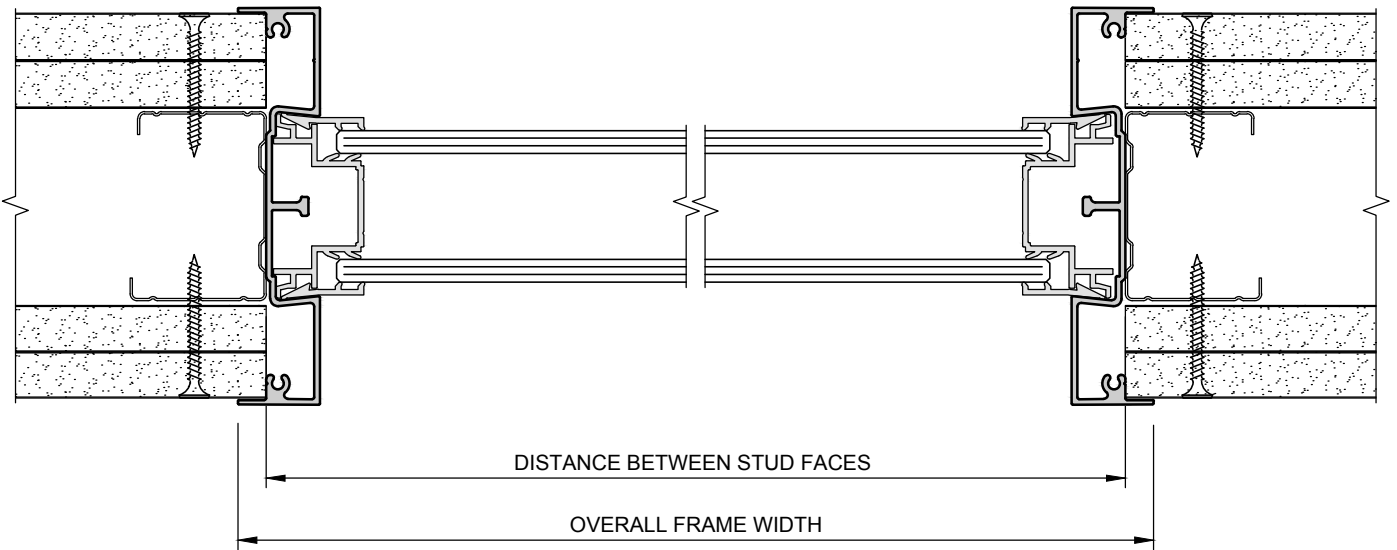
TO ESTABLISH A FULL HEIGHT DOOR LEAF SIZE
 BASED ON A CEILING HEIGHT

DOOR HEIGHT = CEILING HEIGHT - 80mm
 (INCLUDING HEAD CHANNEL)

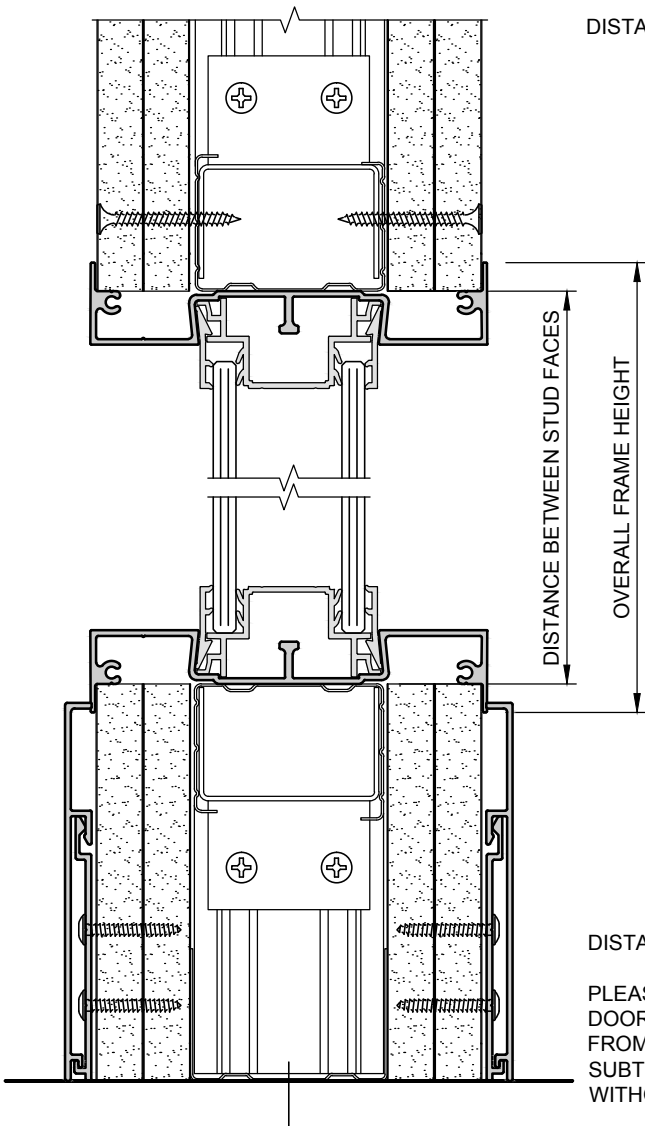
DOOR HEIGHT = CEILING HEIGHT - 48mm
 (EXCLUDING HEAD CHANNEL)

Wrap square window frames

system 4000 window setting out details



DISTANCE BETWEEN STUD FACES = OVERALL FRAME WIDTH - 15mm

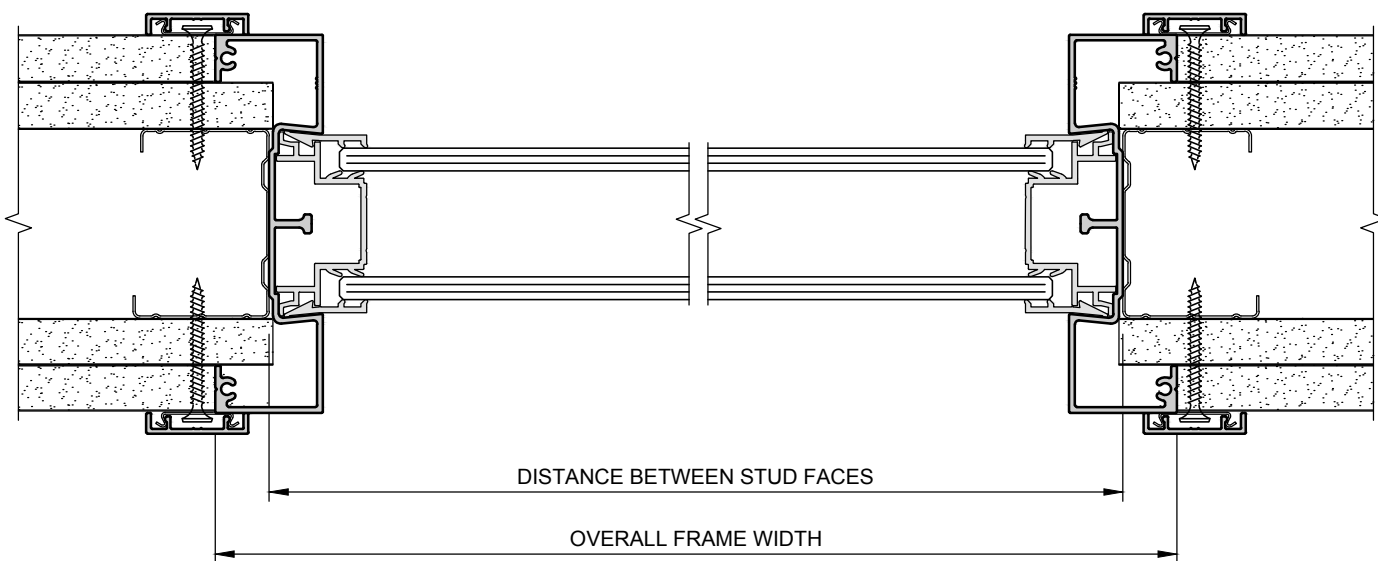


DISTANCE BETWEEN STUD FACES = OVERALL FRAME HEIGHT - 15mm

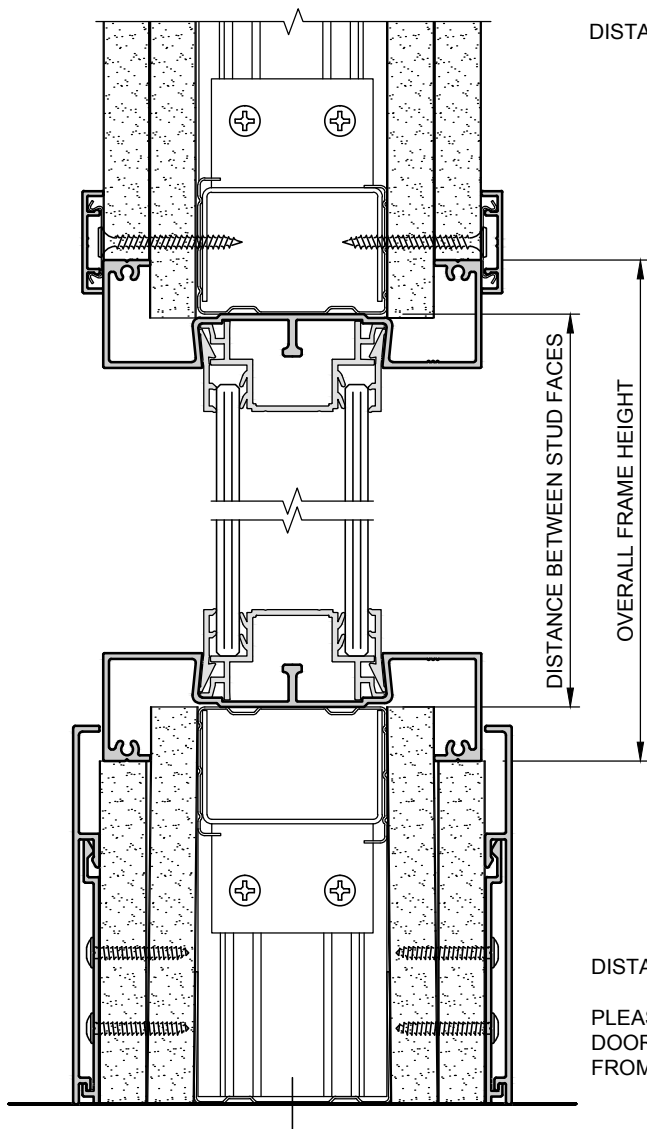
PLEASE NOTE: FOR WINDOW FRAME TO LINE THROUGH WITH TOP OF DOOR FRAME, ASSUMING 100mm SKIRTING IS USED, SUBTRACT 74mm FROM DOOR HEIGHT FOR WRAP AROUND FRAMES WITH COVER TRIMS. SUBTRACT 49mm FROM DOOR HEIGHT FOR WRAP AROUND FRAMES WITHOUT COVER TRIMS.

system 4000 window setting out details

Square window frames



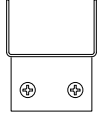



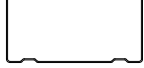









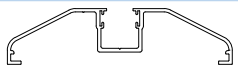





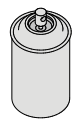
$$\text{DISTANCE BETWEEN STUD FACES} = \text{OVERALL FRAME WIDTH} - 28\text{mm}$$







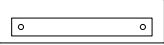
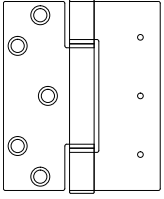




$$\text{DISTANCE BETWEEN STUD FACES} = \text{OVERALL FRAME HEIGHT} - 28\text{mm}$$

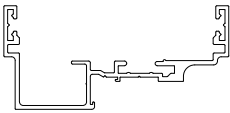
PLEASE NOTE: FOR WINDOW FRAME TO LINE THROUGH WITH TOP OF DOOR FRAME, ASSUMING 100mm SKIRTING IS USED, SUBTRACT 61mm FROM DOOR HEIGHT FOR NON WRAP AROUND FRAMES.

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	PT3442 100mm Head Channel	3000	11242	11315	11317
		3600	11243	11316	11318
	PT2047 Head / Wall Abutment Cover Trim	3600	11241	11313	11314
	PT090 Head Channel Splice Plate 90° (Galvanized)	–	11162		
	PT135 Head Channel Splice Plate 135° (Galvanized)	–	11163		
	PT180 Head Channel Splice Plate 180° (Galvanized)	–	11164		
	50mm Galvanised Steel Stud	2400	54934		
		2700	54935		
		3000	54936		
		3600	54937		
	STUD50R1163J 50mm Stud Section for 1200mm Transom	1200	11100		
	STUD50R0864J 50mm Stud Section for Door Transom	838	12925		
	PFIL1200 Bracket for 50mm Stud Transom	–	74712		
	FR101-30 52mm Floor Track 35mm Leg	3000	54953		
	DSW28X43X27 Softwood Stud Infill for 50mm Stud	3000	10719		
	73mm Galvanised Stud	2700	73986		
		3000	73987		
		3600	73988		
	STUD73R1163J 73mm Stud Section for 1200mm Transom	1200	11101		
	PTSTB73R Bracket for 73mm Stud Transom	838	11102		
	DSW28X66X27 Softwood Stud Infill for 73mm Stud	3000	10720		
	PFILI200 35 x 1200mm Plasterboard Fillet	1200	11158		
	FR103 75mm Floor Track 35mm Leg	3000	75530		
	PT1054 Steel 135° Corner Liner (Galvanized)	3000	11097		
	PT0007 Aluminium Cover Trim for use with Wrap Around Window Frames	2400	11202	11246	11250
		2700	11203	11247	11251
		3000	11204	11248	11252
		3600	11205	11249	11253
	PT0008 FA2 Aluminium Cover Trim for use with Square or Rounded Window Frames	2400	11206	21833	21835
		2700	11207	11254	11256
		3000	11208	11255	11323
		3600	11209	21834	21836
	PT1055 Galvanised Clamping Strip	2700	36844		
		3000	11098		
		3600	11099		
	PT1028 135° External Corner Cover Trim	2700	15390	22712	22714
		3000	15391	11263	11264
		3600	22716	22713	22715
	PT1029 135° Internal Corner Cover Trim	2700	11212	21873	22719
		3000	21874	11265	11266
		3600	21875	22178	22720

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
	PT1039 90° Aluminium Clip-On Corner Angle	2700	11222	11277	11280
		3000	11223	11278	11281
		3600	11224	11279	11282
	PT2039 90° Aluminium Clip-On Rounded Corner Angle	2700	11238	11307	11310
		3000	11239	11308	11311
		3600	11240	11309	11312
	PT1040 Clip Section for 90° External Angle (Mill)	2700	11132		
		3000	11133		
		3600	11134		
	PT2020 System 4000 Adaptor Post for 8000i Glazing	3000	22238	22742	15402
	PT1030 Aluminium Angle 25mm	3000	11213	87372	87373
		3600	11214	87374	87375
	PT1006 Aluminium Angle 32mm	3000	11210	11257	11259
		3600	11211	11258	11260
	PT1031 Aluminium Angle 50mm	3000	11215	87376	87377
		3600	11216	87379	87378
	SYS05 Omega Section (Galvanized ‡)	2600	11765 ‡	148557	148558
		2900	11766 ‡	11896	11897
	SYP11 PVC Omega Infill (Grey)	3000	–	–	11875
	SYP11 PVC Omega Infill (White)	3000	–	11871	–
	SYP11 PVC Omega Infill (Dark Grey) *RAL 7011	3000	11874*		
	SYP11 PVC Omega Infill (Ivory) *RAL 1013	3000	11872*		
	SYP11 PVC Omega Infill (Black) *RAL 9011	3000	11873*		
	Touch-Up Paint Tin (125ml)	–	15514	23147	23129
	Touch-Up Paint Spray (400ml)	–	15513	15516	11386

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
Aluminium Skirting Sections			SAA	RAL 9010	BS00A05
	PT1021 100mm Skirting Concealed Fixing (Insert)	3000	21941	11261	11262
			GREY	WHITE	BLACK
	Skirting Infill (Grey / White / Black)	25	11179	11177	11178
			SAA	RAL 9010	BS00A05
	PT1034 100mm Concealed Fix Skirting Radiused	3000	11217	11267	11268
	PT1032 100mm Concealed Fix Skirting Square	3000	75105	75103	75102
	PT1033 Fixing Clip for 100mm Concealed Skirting	–	11334		
			GREY	WHITE	BLACK
	MC123 100mm Plastic Skirting (Black / White / Grey)	3000	74656	74657	74654
Door Frame Components					
	Lock Box	–	11441	11442	11443
	R103 Hinge	–	11175		
			BLACK		GREY
	Door Seal (Black /Grey)	1000	11435		10658
		2050	11436		10657
		3000	11437		11438
	Intumescent Strip	1050	11159	40033	11160
	Fixing Screws – No.8 x 38mm (per pack)	–	11433		
	Steel Mitre Cleats	–	11176		
	PTGP6X45X100 Glazing Packers 6 x 4.5 x 100mm	–	11174		
	Fixing Kit for 5 Modules	–	74647		






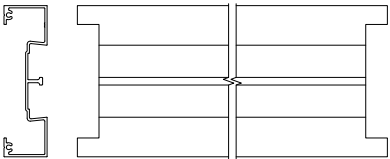
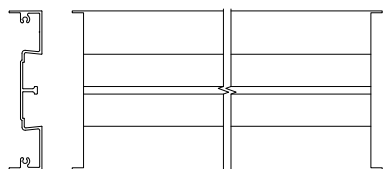


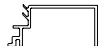








system 4000 components

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
100mm Door Frames					
	PT3004 Aluminium Square Universal Single Door Frame (NFR)	1981x838	96884	96887	99370
		2040x826	138421	149358	149378
		2040x926	149320	149359	149382
	PT3004 Aluminium Square Handed Single Door Frame (NFR)	2040x926	149322 *	149361 *	149384 *
			149321 †	149360 †	149383 †
		2400x838	149324 *	149363 *	149386 *
			149323 †	149362 †	149385 †
		2900x838	149326 *	149365 *	149388 *
			149325 †	149364 †	149387 †
	PT3004 Aluminium Square Double Door Frame (NFR)	1981x1676	96886	96888	99373
		2400x1676	149327	149366	149389
		2900x1676	149328	149367	149390
	PT3004 Aluminium Square Universal Single Door Frame (FD30)	1981x838	110219	110217	110218
		2040x826	149319	149368	149391
		2040x926	149329	149369	149393
	PT3004 Aluminium Square Handed Single Door Frame (FD30)	2040x926	149331 *	149371 *	149395 *
			149330 †	149370 †	149394 †
		2400x838	149333 *	149373 *	149397 *
			149332 †	149372 †	149396 †
		2700x838	149335 *	149375 *	149399 *
			149334 †	149374 †	149398 †
PT3004 Aluminium Square Double Door Frame (FD30)	1981x1676	110223	110221	110222	
	2400x1676	149336	149376	149401	
	2700x1676	149337	149377	149402	
	PT2004 Aluminium Rounded Universal Single Door Frame (NFR)	1981x838	11358	11378	11380
		2040x826	22170	22174	22178
		2040x926	22172	22176	22180
	PT2004 Aluminium Rounded Handed Single Door Frame (NFR)	2040x926	149263 *	149287 *	149304 *
			74238 †	149286 †	149303 †
		2400x838	149267 *	149291 *	149308 *
			149266 †	149290 †	149307 †
		2900x838	149271 *	149295 *	149312 *
			149270	149294	149311
	PT2004 Aluminium Rounded Double Door Frame (NFR)	1981x1676	11360	11382	11384
		2400x1676	149274	149299	149315
		2900x1676	149276	149301	149317
	PT2004 Aluminium Rounded Universal Single Door Frame (FD30)	1981x838	11359	11379	11381
		2040x826	22171	22175	22179
		2040x926	22173	22177	22181
	PT2004 Aluminium Rounded Handed Single Door Frame (FD30)	2040x926	149265 *	149289 *	149306 *
			149264 †	149288 †	149305 †
		2400x838	149269 *	149293 *	149310 *
			149268 †	149292 †	149309 †
		2700x838	149273 *	149298 *	149314 *
			149272 †	149297 †	149313 †
PT2004 Aluminium Rounded Double Door Frame (FD30)	1981x1676	11361	11383	11385	
	2400x1676	149275	148163	149316	
	2700x1676	149277	149302	149318	

* Left hand door frame
† Right hand door frame

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
			SAA	RAL 9010	BS00A05
100mm Glazing					
	PT2010 Wrap Round Window Frame Mitred	1200x800	11356	11374	11375
		1200x1200	11357	11376	11377
		2000x300	152393	152399	152405
		1200x2400	152394	152400	152406
		1200x2700	152395	152401	152407
		1200x3000	152396	152402	152408
	PT2011 Round Window Frame Mitred	1200x800	15356	21598	21599
		1200x1200	21602	12951	21601
		2000x300	152412	152419	152425
		1200x2400	152413	152420	152426
		1200x2700	152414	152421	152427
		1200x3000	152415	152422	152428
	PT3010 Wrap Square Window Frame Mitred	1200 x 800	152459	152447	152453
		1200 x 1200	152460	152448	152454
		2000 x 300	152461	152449	152455
		1200 x 2400	152462	152450	152456
		1200 x 2700	152463	152451	152457
		1200 x 3000	152464	142452	152458
	PT2012 Square Window Frame	1200 x 800	152429	152435	152441
		1200 x 1200	152430	152436	152442
		2000 x 300	152431	152437	152443
		1200 x 2400	152432	152438	152444
		1200 x 2700	152433	152439	152445
		1200 x 3000	152434	152440	152446
	PT3010 Wrap Square Window Profile	3600	93252	96891	94776
	PT2012 Square Window Profile	3600	11236	21605	21606
	PT2010 Wrap Round Window Profile	3000	11233	11301	11304
		3600	11234	11302	11303
	PT2011 Rounded Window Profile	3600	11235	11305	11306

system 4000 components

Profile	Product Ref / Description	Nominal Length (mm)	Item No.		
Glazing Components					
	PT1024 Aluminium Single Glazing Chair	3600	11505	22708	21867
	PT1025 Aluminium Single Glazing Bead	3600	11506	22709	21870
	PT1026 Aluminium Double Glazing Chair	3600	11507	15388	22710
	PT1027 Aluminium Double Glazing Bead	3600	11508	15389	22711
	Flipper Seal (Black)	1000	32037		
	PT2012T Aluminium Square Window Transom Notched	1200	111042	86230	86231
	PT3010T Aluminium Wrap Square Window Transom Notched	1200	110940	110956	110957
			BLACK	WHITE	GREY
	MC116 Single Centre Plastic Glazing Chair (Black / White / Grey)	3600	74648	74650	74649
	MC117 Single Centre Plastic Glazing Bead (Black / White / Grey)	3600	74651	74653	74652
	MC1460 Single Offset Plastic Glazing Chair (Black / White / Grey)	3600	74658	74660	74659
	MC146 Double Glazed Plastic Glazing Chair (Black / White / Grey)	3600	74661	74663	74662
	MC147 Double/Offset Glazing Bead (Black / White / Grey)	3600	74664	74666	74665
	PTEROSSPVC Fire Rated Offset Chair	3600	11172	11171	11173
	PTFRDGPVC Fire Rated Double Chair	3600	11166	11165	11167
	PTFROSDGPVC Fire Rated Double/Offset Glazing Wedge Bead	3600	11169	11168	11170
	PT1050 Double / Offset Glazing Outer Liner	1100	11093		
	PT1051 Double / Offset Glazing Inner Liner	1100	11094		
	PT1052 Steel Single Glazing Liner	1100	11095		
		2700	11096		



system 8000i
fast track fully glazed partitioning

system 8000i overview

System Description

System 8000i is a fully glazed frameless partitioning system that combines design aesthetics with outstanding performance, it offers the opportunity to create partitioning without vertical mullions to a maximum height of 3000mm.

It is available in both Single Glazed and 105mm Double Glazed.

System Features

- A range of stocked head and base tracks to meet project demands
- Range of stocked deflection head tracks provides up to $\pm 15\text{mm}$ of deflection
- Acoustic & fire performance options
- Provides a seamless integration into drywall, to enable part glazed, part drywall installations
- Offered in a large variety of paint finishes

Drywall Integration

System 8000i can be used as a stand alone glass partitioning system but is also designed to integrate with plasterboard ceilings, drywall and SAS System 1000 Drywall +.

System 8000i allows for seamless integration from glass into solid. Glazed sections recess into drywall junctions to provide a single walled partitioning system of both glass and drywall.

Glass Options

A range of glass options is available including:

- Toughened
- Laminated
- Toughened and laminated
- Electric privacy glass

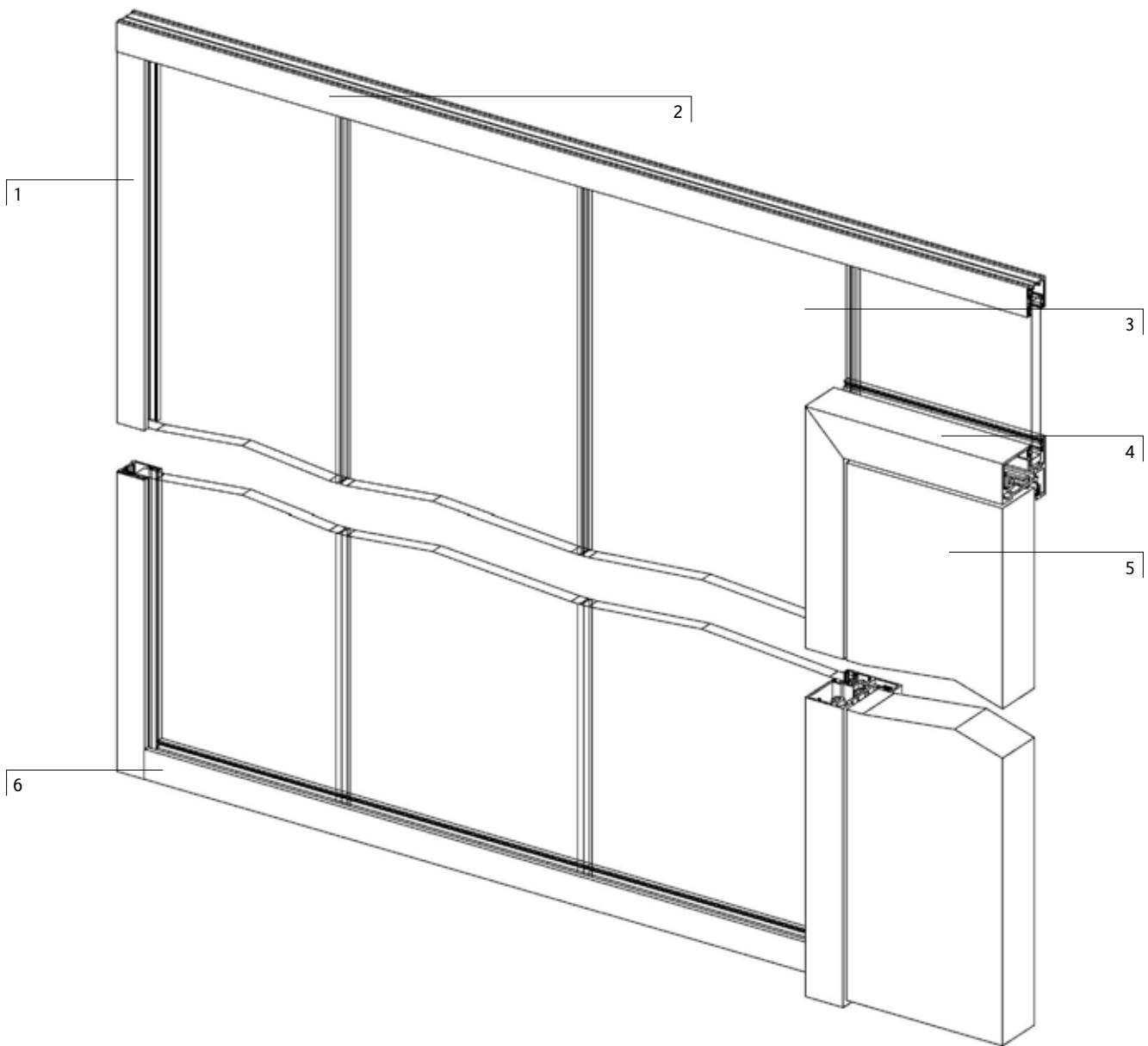
Finish

Extruded aluminium profiles available as either satin silver anodised grade AA5 or polyester powder coated, some profiles are ex-stock in RAL9010 and RAL9006.

Manifestations

A range of glass manifestations can be supplied and fitted. All manifestation need to comply with Approved Doc M.





1] Wall Abutment 2] Head Track 3] Glazing 4] Door Frame 5] Door 6] Floor Track

Performance Summary

	Acoustic Performance	Fire Performance	Structural Performance
System 8000i Single Glazed	up to 37dB	up to 60/60	up to 'severe' duty
System 8000i Double Glazed	up to 47dB	up to 60/60	up to 'severe' duty

SAS International are able to offer fire performance partitioning up to FD 60/60 (60 minute integrity and 60 minute insulation). A range of construction materials and builds can provide different fire performance levels, including 30/0, 30/30, 60/0, 60/30 and 60/60. The information and sections shown within this brochure are indicative of standard non-performance systems. A further range of sections manufactured from timber and steel is available, depending on performance requirements. For further information, please contact a member of the technical team.

I-Joint (Dry Joint, Clear PET-G)

The crystal clear I-Joint is a low profile dry joint which can be used instead of traditional silicone. It reduces construction build time on site while providing full demountability.

The PET-G joint is recyclable and offers the lowest carbon footprint, in comparison to other plastics. A I-Joint is used for 135° corners and a solid PET-G infill is used for 90° corners.

Taped joints are used for irregular angles. For fire performance systems, up to 60/60 at 3m high, an opaque H-joint is utilised.

Corner Joints

An option is available for jointing 90° corners: PET-G standard 90° – for use with 10/12mm C-jointed glass.

Glass Installation

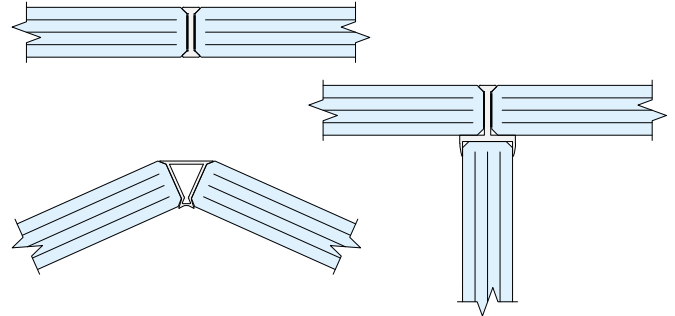
To provide the system's high standards, our own dedicated glass team install all glass for System 8000i.

Once System 8000i aluminium head and base tracks are fitted on-site, a glass surveyor visits the project and ensures accurate measurements are taken for both glass and any integral blinds.

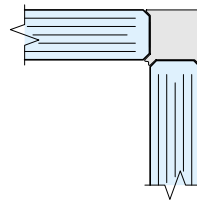
Standard glass (toughened / laminated) is installed within 5 working days. Fire glass / specialist glass can take up to 4 weeks, subject to specification.

The glass team are also able to offer a range of bespoke glass services, to meet project requirements.

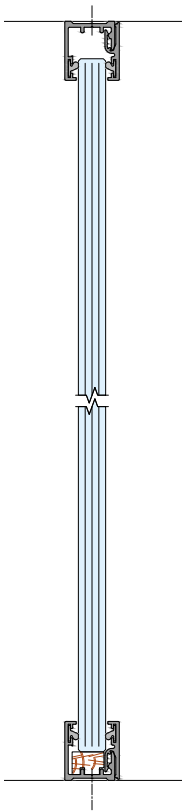
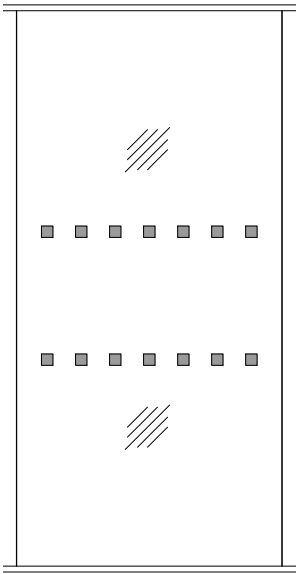
I-Joint



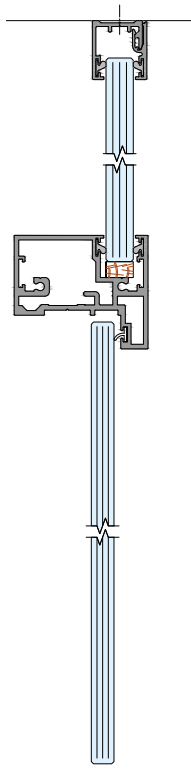
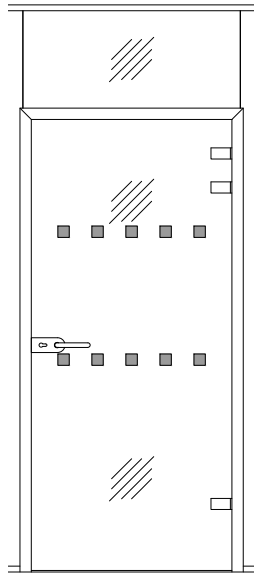
PET-G Corner Joint



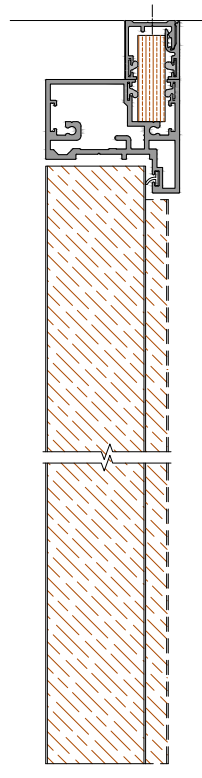
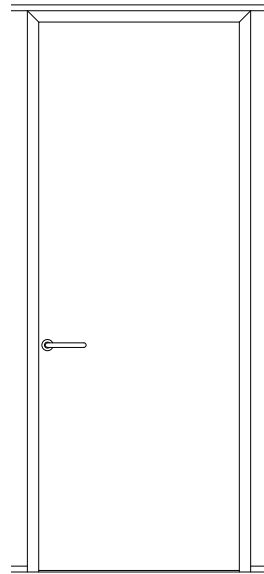
system 8000i typical elevations



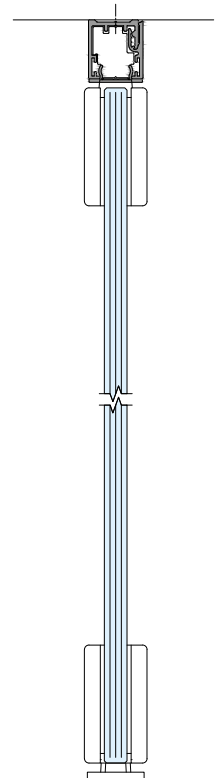
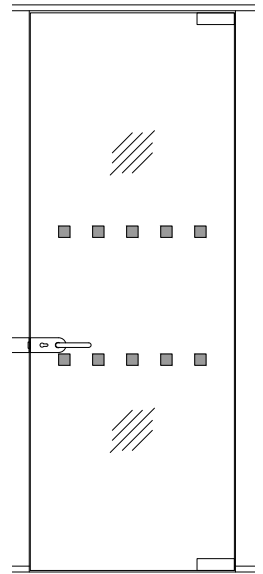
Full Height Single Glazed



Single Glazed Door to Head Height with Glazed Above

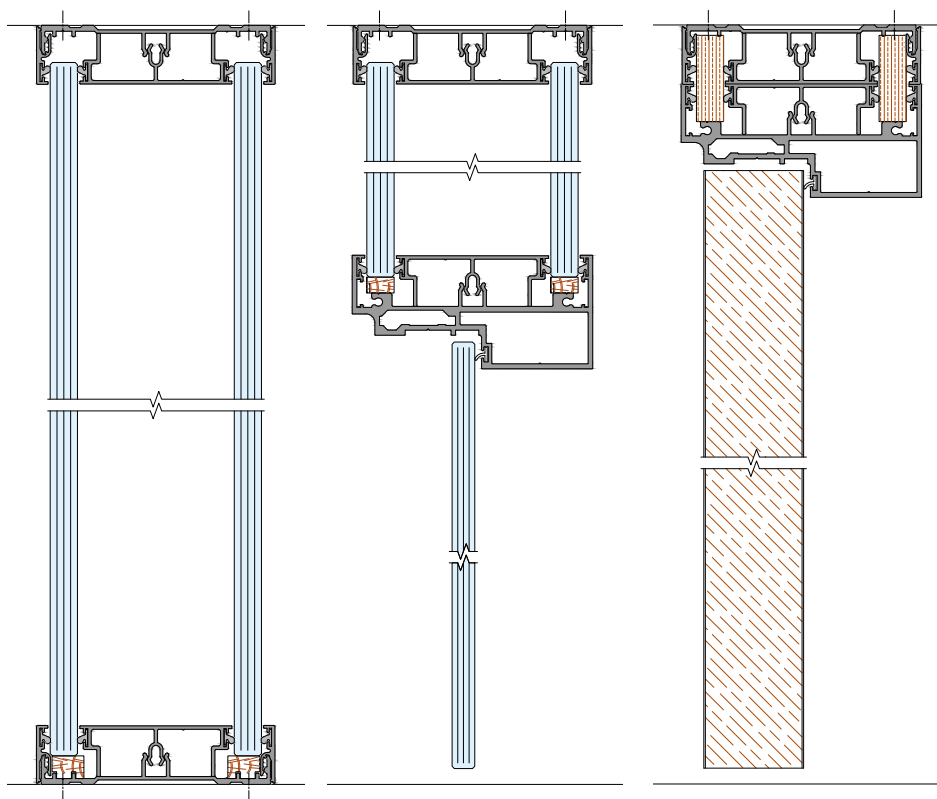
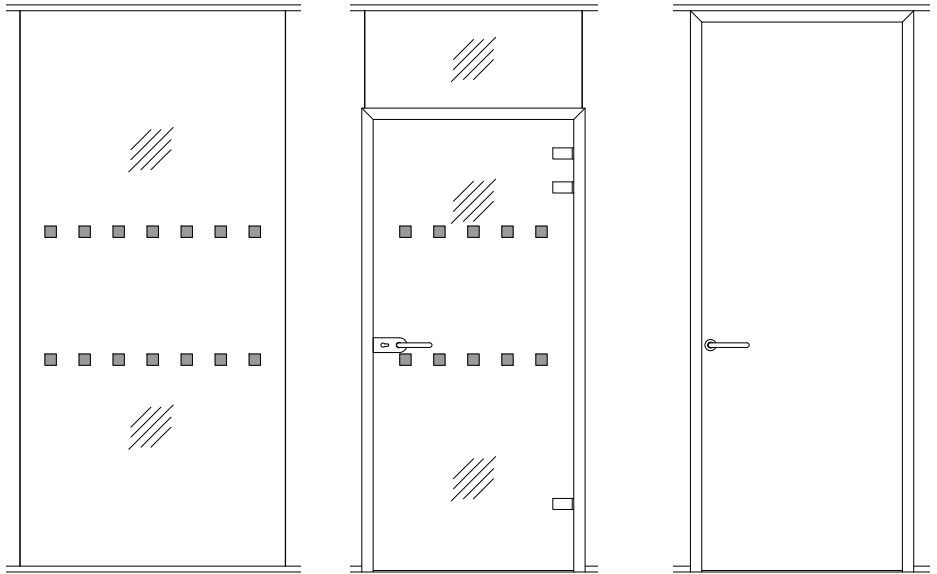


Full Height Timber Door



Full Height Frameless Glazed Door

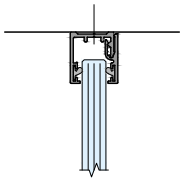
system 8000i typical elevations



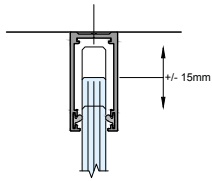
Full Height
Double Glazed

Single Glazed Door to
Head Height with
Double Glazed Above

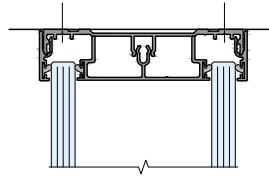
Full Height Timber Door
(Double Glazed Track)



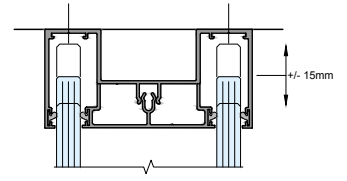
26mm Two-Part Head Track



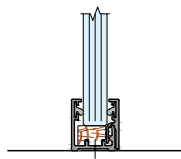
50mm Head Track



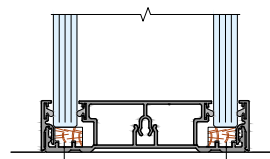
Double Glazed 26mm Two-Part Head Track



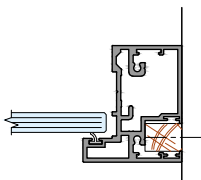
Double Glazed 50mm Head Track



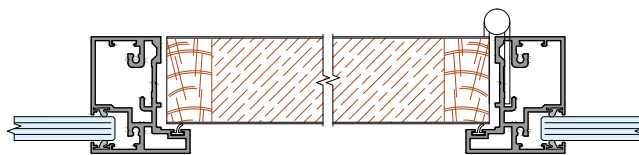
26mm Two-Part Base Track



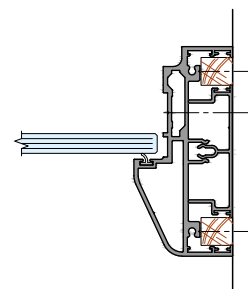
Double Glazed 26mm Two-Part Base Track



Slimline Door Frame / Structure (Single Glazed Door)

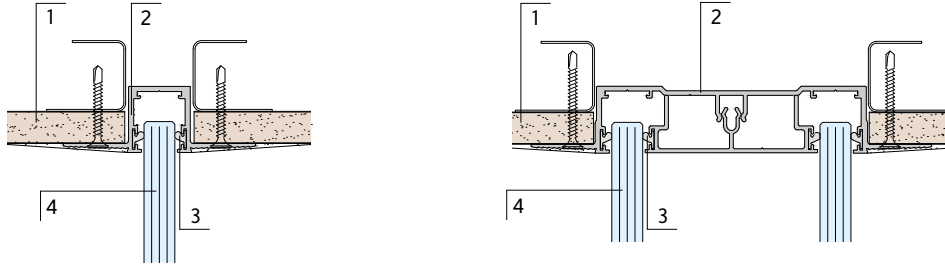


Single Glazed / Slimline Door Frame (Timber Door)



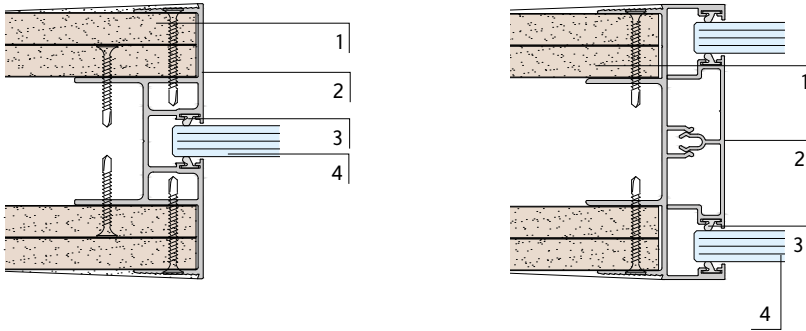
Chamfered Double Glazed Door Frame / Structure (Single Glazed Door)

System 8000i Plasterboard (MF Ceiling) Integration



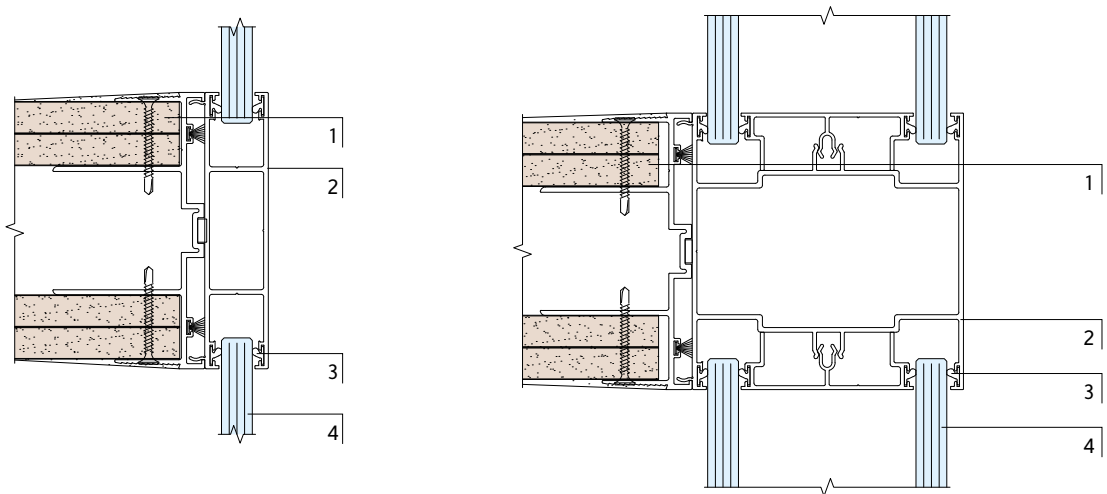
- 1) Plasterboard 2) Recessed head channel with tapered edge for skimming 3) Glazing seal 4) Glass

System 8000i in line Drywall Integration



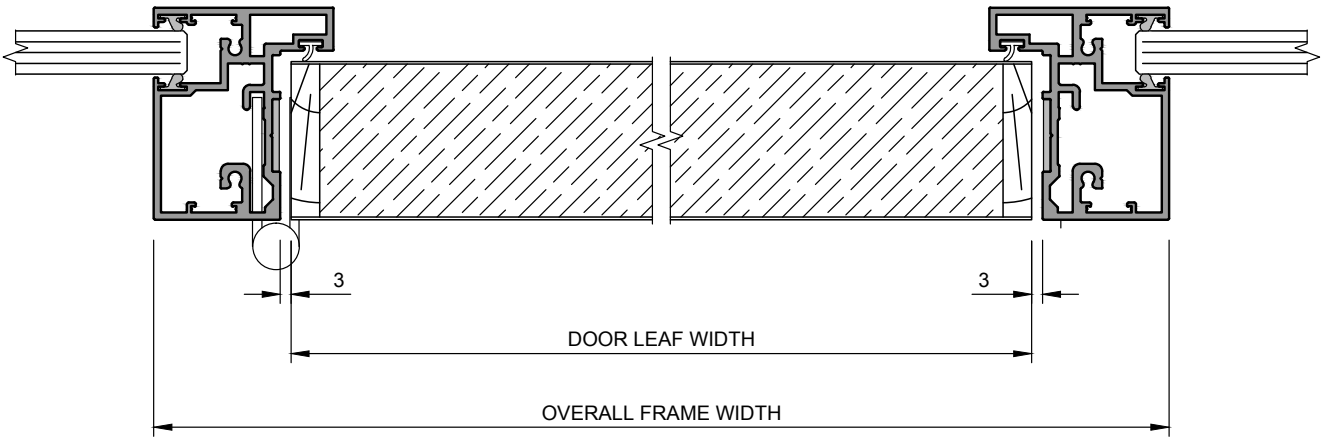
- 1) Plasterboard Drywall 2) Glazing adaptor post channel with tapered edge for skimming 3) Glazing seal 4) Glass

System 8000i 2-way Glazing Integration (Single Glazed and Double Glazed)



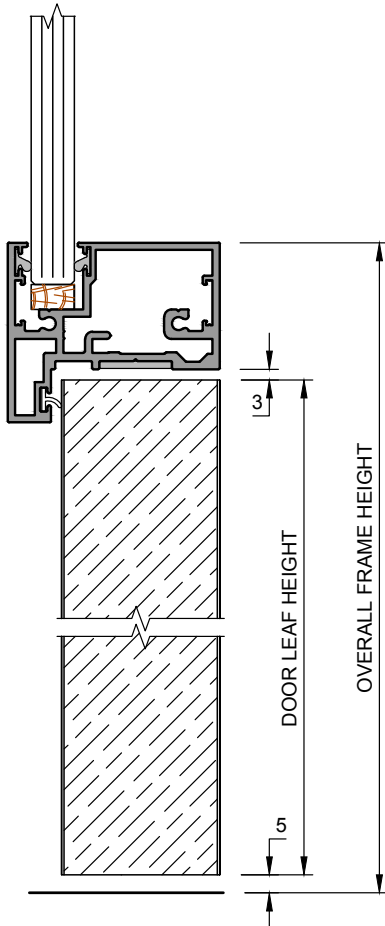
- 1) Plasterboard Drywall 2) Glazing adaptor post channel with tapered edge for skimming 3) Glazing seal 4) Glass

system 8000i single glazed setting out details



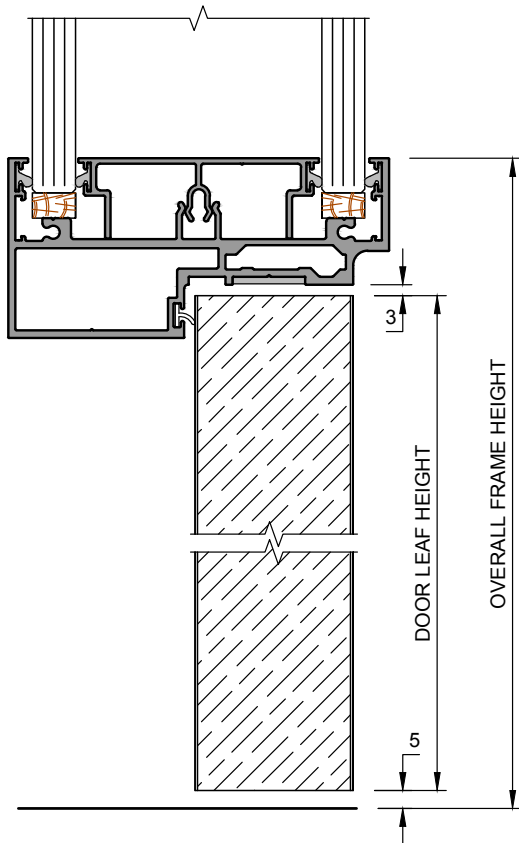
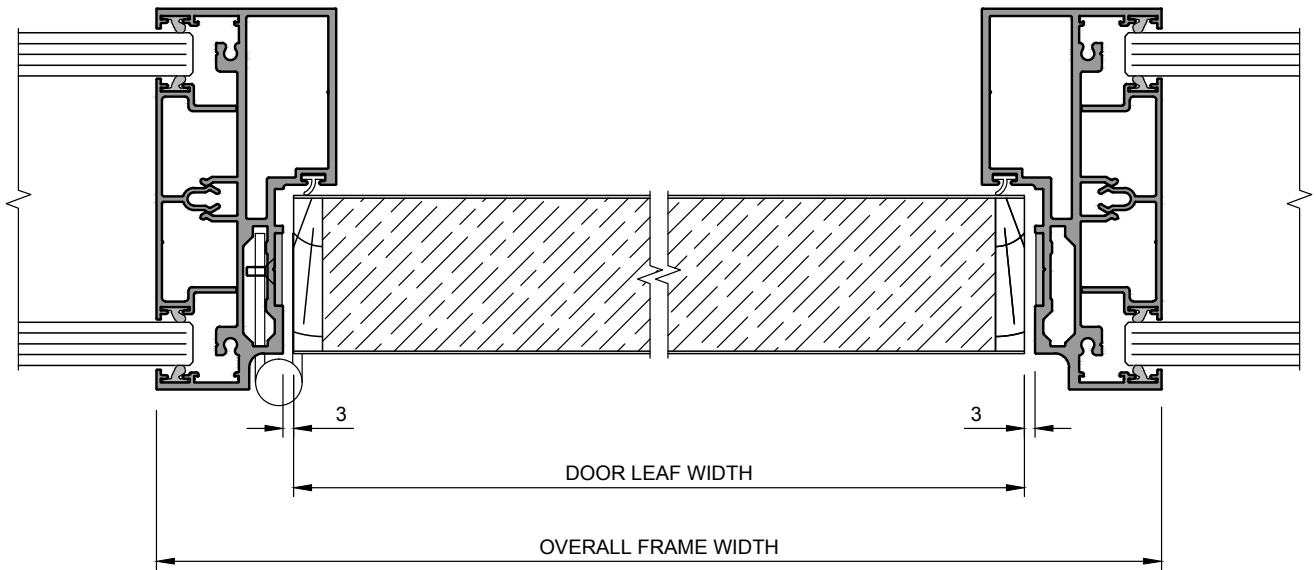
OVERALL FRAME WIDTH
 SINGLE DOORS = DOOR WIDTH + 76mm
 DOUBLE DOORS = DOOR WIDTHS + 78mm

PLEASE NOTE: FOR DOUBLE DOORS PLEASE ADD 2mm TO THE COMBINED DOOR LEAF WIDTH.



OVERALL FRAME HEIGHT = DOOR LEAF HEIGHT + 43mm

system 8000i double glazed setting out details

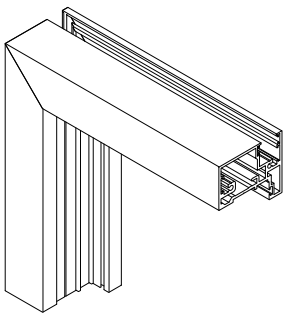
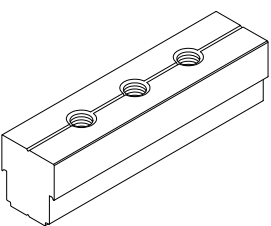


OVERALL FRAME WIDTH
 SINGLE DOORS = DOOR WIDTH + 76mm
 DOUBLE DOORS = DOOR WIDTHS + 78mm

OVERALL FRAME HEIGHT = DOOR LEAF HEIGHT + 43mm

Profile	Product Ref / Description	Nominal Length (mm)	Item No	
			RAL 9006	RAL 9010
Head Track and Wall Abutment Details				
	FG8109 Single Glazing Chair (10–12mm Glass)	3000	116479	113520
		3600	116477	113018
	FG8001 Glazing Bead	3000	111253	111252
		3600	111269	111267
	FG8101 Single Glazed 32mm Head Track (10–12mm Glass)	3600	116467	113603
	FG8103 Single Glazed 50mm ±15mm Deflection Head Track (10–12mm Glass)	3600	116471	113607
	FG8119 Single Glazed Reveal Channel for MF Ceilings (10–12mm Glass)	3000	116498	114193
Base Track Details				
	FG8109 Single Glazing Chair (10–12mm Glass)	3000	116479	113520
		3600	116477	113018
	FG8001 Glazing Bead	3000	111253	111252
		3600	111269	111267
	FG81313 Single Glazed Deflection Shroud to suit FG8301 Deflection Head	3600	132889	132885

system 8000i single glazed door frames

Profile	Product Ref / Description	Nominal Length (mm)	Item No.	
			RAL 9006	RAL 9010
Door Frame Details				
	FG8116 8000i SG Slimline Door Frame (10–12mm Glass) for Timber Door	2040x926	152084 *	152816 *
			152082 †	152814 †
		3000x926	152821 *	152819 *
			152820 †	152817 †
		3000x1676 (Double)	152822	152823
		FG8116 8000i SG Slimline Door Frame (10–12mm Glass) for Glass Door	2040x926	152825 *
	152824 †			152828 †
	3000x926		152827 *	152831 *
			152826 †	152830 †
	3000x1676 (Double)	152832	152361	
	FG8003 Pivot Block (mates with FG8109 & FG8002)		119989	
	FG8004 Pivot Block (mates with FG8102 & FG8103 & FG8106)		119994	

* Left hand door frame
† Right hand door frame

Profile	Product Ref / Description	Nominal Length (mm)	Item No.	
			RAL 9006	RAL 9010
Drywall Integration Details				
	FG8120 Single Glazed Adaptor for 75mm Drywall	3000	116501	116500
	FG8121 Single Glazed Adaptor for 100mm Drywall	3000	116503	113031
	FG8122 Single Glazed Adaptor for 120mm Drywall	3000	116506	116505
	FG8123 Single Glazed Two Way Adaptor for 75mm Drywall	3000	116509	116508
	PT2014 Single Glazed Adaptor Post for System 3000	3000	74932	15401
	PT2020 Single Glazed Adaptor Post for System 4000	3000	74933	22742


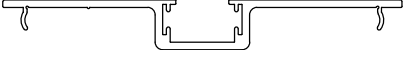
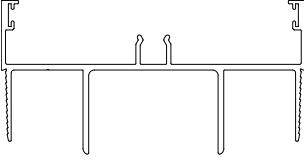
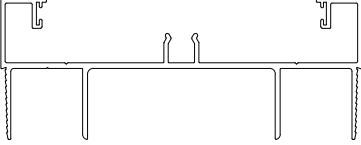
system 8000i double glazed components










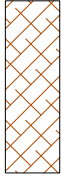
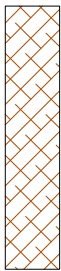
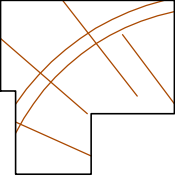
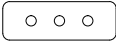
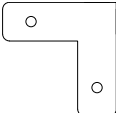
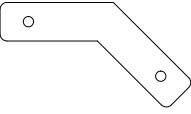

Profile	Product Ref / Description	Nominal Length (mm)	Item No.	
			RAL 9006	RAL 9010
Head Track and Wall Abutment Details				
	FG8300 105mm Double Glazed Track (10-12mm Glass)	3000	116548	116547
		3600	116546	113059
	FG8001 Glazing Bead	3000	111253	111252
		3600	111269	111267
	FG8301 Double Glazed 50mm ±15mm Deflection Head Track (10-12mm glass)	3000	116551	116550
Base Track Details				
	FG8300 105mm Double Glazed Track (10-12mm Glass)	3000	116548	116547
		3600	116546	113059
	FG8001 Glazing Bead	3000	111253	111252
		3600	111269	111267
Infill Section Details				
	FG8302 105mm Double Glazed 67mm Infill (2x10-12mm Glass)	3000	116555	116554
		3600	116553	113058
	FG8330 105mm Double Glazed Deflection Shroud to suit FG8301 Deflection Head	3600	132893	132888

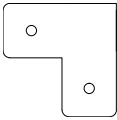
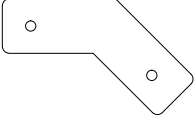
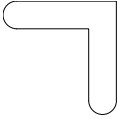
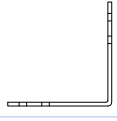
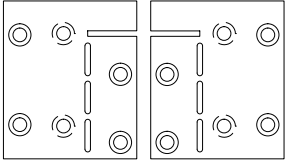
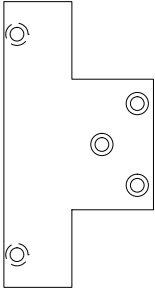
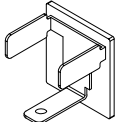
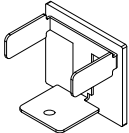
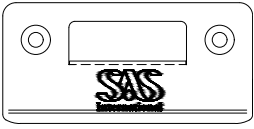



Profile	Product Ref / Description	Nominal Length (mm)	Item No.	
			RAL 9006	RAL 9010
Door Frame Details (105mm Double Glazed)				
	FG8307 8000i DG Square 105mm Door Frame for Timber Door with FG8302 Infill to suit 2 x 10–12mm Glass	2040x926	152913 *	145731 *
			152912 †	145729 †
		3000x926	152927 *	152941 *
			152926 †	152939 †
	3000x1676 (Double)	152952	152951	
		FG8307 8000i DG Square 105mm Door Frame for Glass Door with FG8302 Infill to suit 2 x 10–12mm Glass	2040x926	152956 *
			152954 †	152960 †
3000x926			152959 *	152963 *
		152957 †	152962 †	
3000x1676 (Double)		152953	127362	
		FG8308 8000i DG Chamfered 105mm Door Frame for Timber Door with FG8302 Infill to suit 2 x 10–12mm Glass	2040x926	152970 *
			152969 †	152973 †
	3000x926		152072 *	152977 *
		152971 †	152976 †	
	3000x1676 (Double)	152978	152979	
		FG8308 8000i DG Chamfered 105mm Door Frame for Glass Door with FG8302 Infill to suit 2 x 10–12mm Glass	2040x926	152986 *
			152981 †	152989 †
3000x926			152988 *	152992 *
		152987 †	152991 †	
3000x1676 (Double)		152993	152994	
		FG8309 8000i DG Square 105mm Door Frame (with 12mm Door Stop) for Timber Door with FG 8302 Infill, to suit 2 x 10–12mm Glass	2040x926	169265 *
			169264 †	169268 †
	3000x926		169267 *	169271 *
		169266 †	169270 †	
	3000x1676 (Double)	169272	169273	
		FG8309 8000i DG Square 105mm Door Frame (with 12mm Door Stop) for Glass Door with FG 8302 Infill, to suit 2 x 10–12mm Glass	2040x926	165266 *
			165265 †	165269 †
3000x926			165268 *	165272 *
	165267 †	165271 †		
3000x1676 (Double)	165273	165274		
	FG8003 Pivot Block (mates with FG8109 & FG8002)		119989	
	FG8004 Pivot Block (mates with FG8102 & FG8103 & FG8106)		119994	

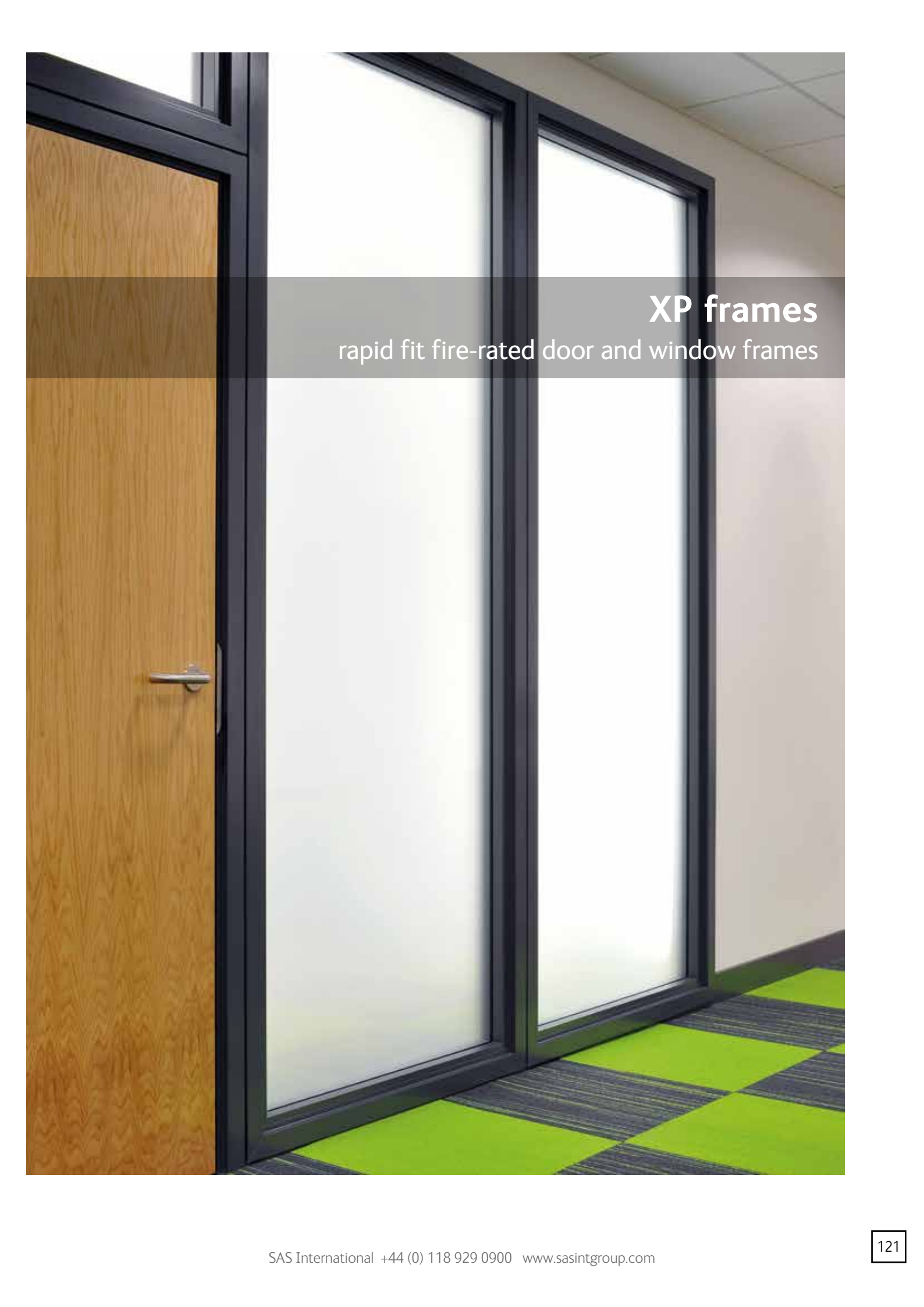
* Left hand door frame
† Right hand door frame

system 8000i double glazed integration

Profile	Product Ref / Description	Nominal Length (mm)	Item No.	
			RAL 9006	RAL 9010
Double Glazed Additional Sections				
	FG8311 105mm Double Glazed Flat Clip-in Section	3000	116604	114389
	FG8112 105mm Single Glazed Flat Clip-in Section	3000	116570	116569
Drywall Integration Details				
	FG8314 105mm Double Glazed Adaptor for 100mm Drywall	3000	116565	116563
	FG8315 105mm Double Glazed Adaptor for 120mm Drywall	3000	116609	116608

Profile	Product Ref / Description	Nominal Length (mm)	Item No.	
			RAL 9006	RAL 9010
Single Glazed Additional Sections				
	FG8114S Single Frameless Glazing Channel Infill (10–12mm Glass)	900	137738	139195
		1000	127291	127294
	FG8114 Single Frameless Glazing Channel Infill (10–12mm Glass)	3000	116486	113026
	FG8114D Double Frameless Glazing Channel Infill (10–12mm glass)	1800	127305	127304
		2000	139491	139487
	AG540 Stop End Post	2700	30392	36044
		3300	27446	34616
Accessories				
	Q-Lon Seal (Black)		112217	
	Glass Door Flipper Seal		116117	
	Flipper Seal		32037	
	27x3mm Plywood Door Frame Infill		116119	
	Timber Packer		11637	
	FG8007 38x12mm Timber Door Frame Fixing Packer		132857	165280
	FG8008 58x12mm Timber Door Frame Fixing Packer		134664	165281
	Timber Infill – use with FG8117		110440	
	50 x 17mm Flat Splice Plate		110667	
	50 x 17mm 90° Corner Splice Plate		110657	
	50 x 17mm 135° Corner Splice Plate		110668	
	50 x 24mm Flat Splice Plate		110665	

Profile	Product Ref / Description	Nominal Length (mm)	Item No.	
			RAL 9006	RAL 9010
Accessories				
	50 x 24mm 90° Corner Cleat	–	110669	
	50 x 24mm 135° Corner Splice Plate	–	110655	
	50 x 50mm 90° Corner Cleat	–	35768	
	Door Frame Ceiling Fixing Cleat	–	35772	
	Slimline Door Frame Fixing Plate (right hand)	–	116113	
	Slimline Door Frame Fixing Plate (left hand)	–	116111	
	Double Glazed Door Frame Fixing Plate	–	116114	
	FG8009 Steel End Cap (fit to FG8109 & FG8001)	–	110662	
	FG8010 Steel End Cap (fit to FG8111)	–	148566	
	Glass Door Strike Plate	–	116924	
	Glass Door Shallow Back Box	–	118868	
	Strike Plate	–	116120	
	Shallow Back Box	–	116121	
	Deep Back Box	–	116929	

A photograph of an office interior featuring a wooden door with a silver handle on the left and two large windows with dark frames and frosted glass panes. The floor is covered in a green and grey checkered carpet. A semi-transparent grey banner is overlaid on the right side of the image, containing the text 'XP frames' in a large, bold, white font, and 'rapid fit fire-rated door and window frames' in a smaller, white font below it.

XP frames
rapid fit fire-rated door and window frames

XP frames overview

System Description

XP frames from SAS International are a range of expandable depth door and window sets that can be installed into either plasterboard partitions or brick and block walls between 74mm and 225mm thick.

XP frames are fully depth adjustable and are not reliant on set wall thicknesses or perfectly square openings. Manufactured from aluminium both the door and window frames can provide up to 60 minutes fire resistance, integrity only.

All door and window frames are supplied factory assembled as fully finished door or window sets. Door sets are supplied with the appropriate sized door frame and a factory fitted door leaf, complete with vision panel and any non-protruding ironmongery. Window sets are supplied with the appropriately sized frame and glass.

Reducing on-site installation time the frames can be installed within 20 minutes. Once unpacked, the pre-hung door lifts off and the frame separates into an inner and outer frame. Once fitted, architraves, door stops or glazing beads are then effortlessly clipped into place. The door leaf is then lifted back into the frame and the remaining ironmongery, levers, pull handles and door closer are fitted.

To meet the varying wall thicknesses, three different sized frames are available with either rounded or square clip-on architraves or stops:

Standard:

- For wall thicknesses between 74mm and 123mm

Intermediate:

- For wall thicknesses between 118mm and 165mm

Jumbo:

- For wall thicknesses between 133mm and 225mm

Performance

Both door frames and single and double glazed window frames can be supplied as non-fire-rated, 30 minute or 60 minute fire rated.

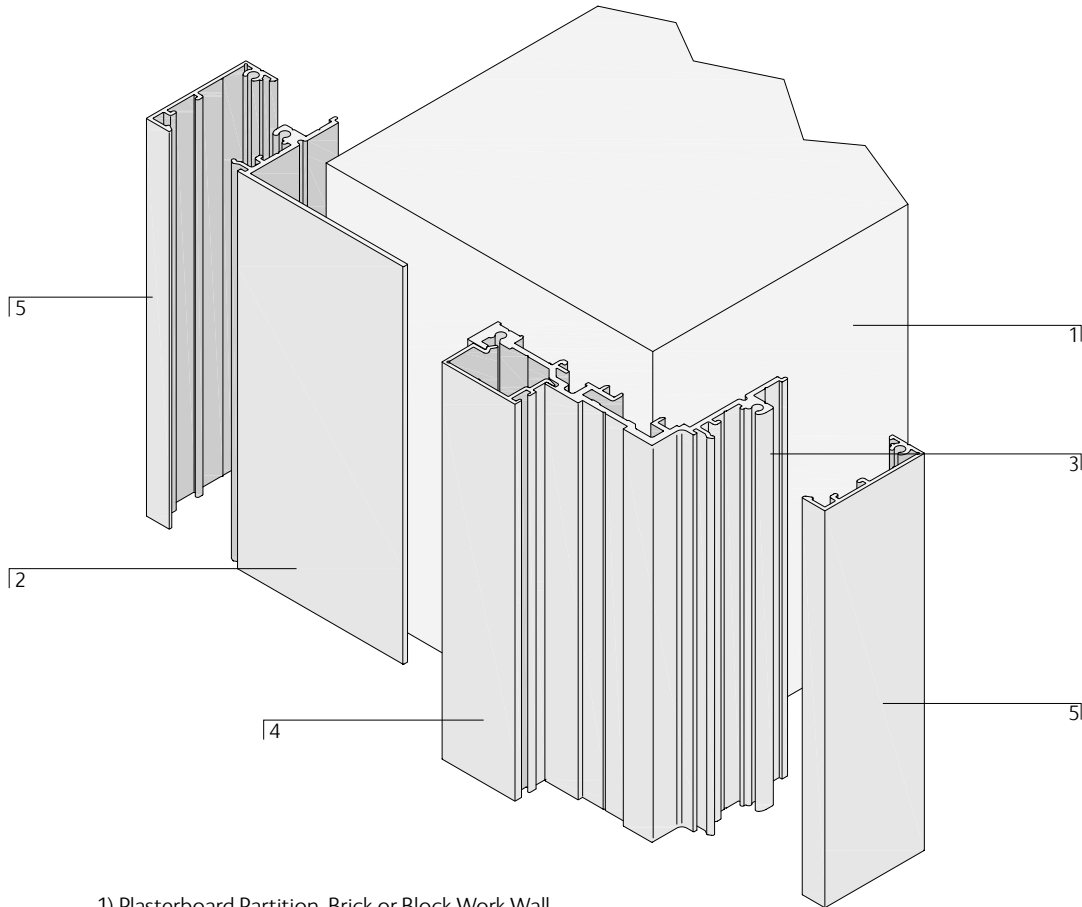
Single glazed windows can provide up to 37dB acoustic attenuation. Double glazed windows can provide up to 40dB, subject to frame thickness.

Finish

XP Frames are supplied either as satin silver anodised grade AA5 or polyester powder coated.



Typical Construction



- 1) Plasterboard Partition, Brick or Block Work Wall
- 2) Inner Frame
- 3) Outer Frame
- 4) Clip-on Door Stop
- 5) Clip-on Architrave

Acoustic and Fire Performance Summary

	Fire Performance	Acoustic Performance
Door frame fitted with 44mm Wood Flush Door	NFR / FD 30	Up to 33dB
Door frame fitted with 54mm Wood Flush Door	FD 60	Up to 40dB
Standard / Jumbo Window frame – single glazed	NFR / FD 30 / FD 60	Up to 37dB
Standard / Jumbo Window frame – double glazed	NFR / FD 30 / FD 60	Up to 40dB

Performance is based on frame and door/door set being installed in a structure of equivalent or better performance. Fire-rated door frames have been tested and certified using SAS System 1000 Stud and Track; performance in other manufacturers' stud systems cannot be guaranteed. All fire rated frames built in traditional drywall require either a minimum mullion width of 380mm or a 90mm to 380mm SAS fire rated mullion.

XP door set overview

XP door sets are available to suit both 44mm and 54mm doors standard and bespoke door leaves as single, double, equal or unequal pairs, full height doors or doors with over-panels.

Popular sizes to suit SAS range of stocked doors are:

1981 x 762mm 1981 x 838mm
2040 x 726mm 2040 x 826mm 2040 x 926mm
2700 x 838mm 2700 x 926mm

Non-standard sized single and double door frames can accept a maximum door leaf size of 2700 x 926mm. For doors larger than 2700mm x 926mm, please contact our technical department for guidance.

Performance

Door frames fitted with a 44mm door leaf can be supplied as non-fire-rated or 30 minute rated. Door frames fitted with a 54mm door leaf can be supplied as 60 minute fire-rated.

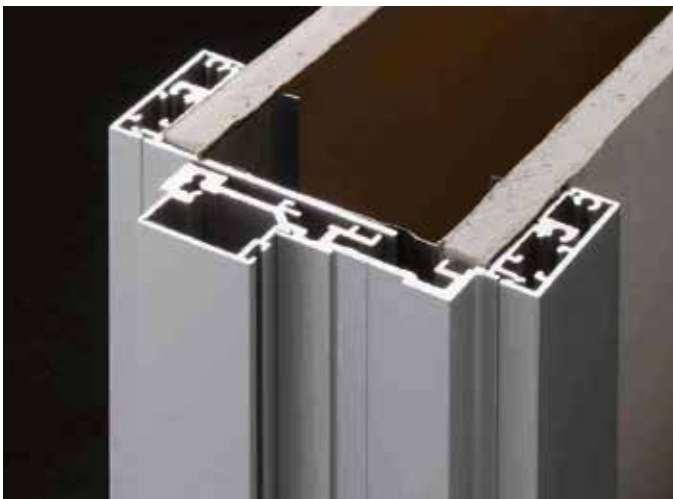
Specifying your door set

When specifying / ordering any XP door set, the following details are required:

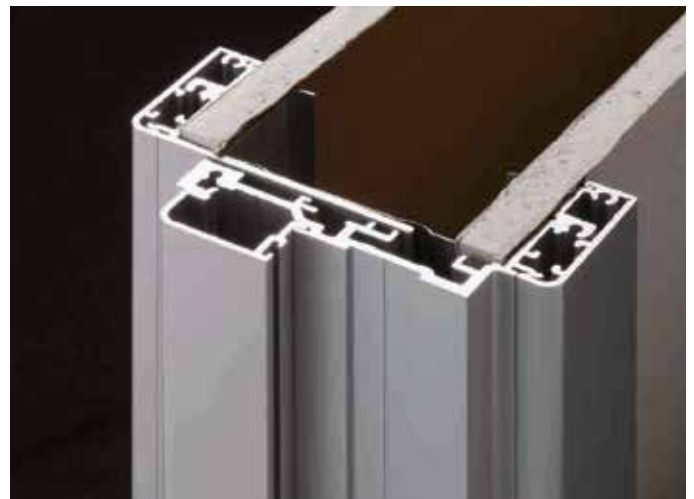
- 1) Size of frame or opening, including wall thickness
- 2) Door frame colour and profile detail (radiused or square)
- 3) Door performance, leaf size and handing
- 4) Door finish
- 5) Details of any vision panels
- 6) Ironmongery pack / locking detail required

Door leaf size and handing

Door handing needs to be specified for all single doors. Handing is required for all pairs of doors, when the doors are specified with rebated meeting edges, either vertically or horizontally (door and over-panel sets).

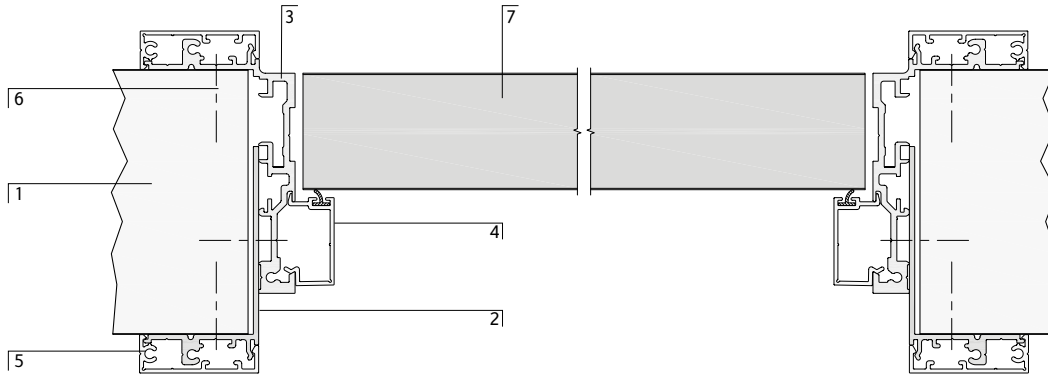


Door frame with square profiles

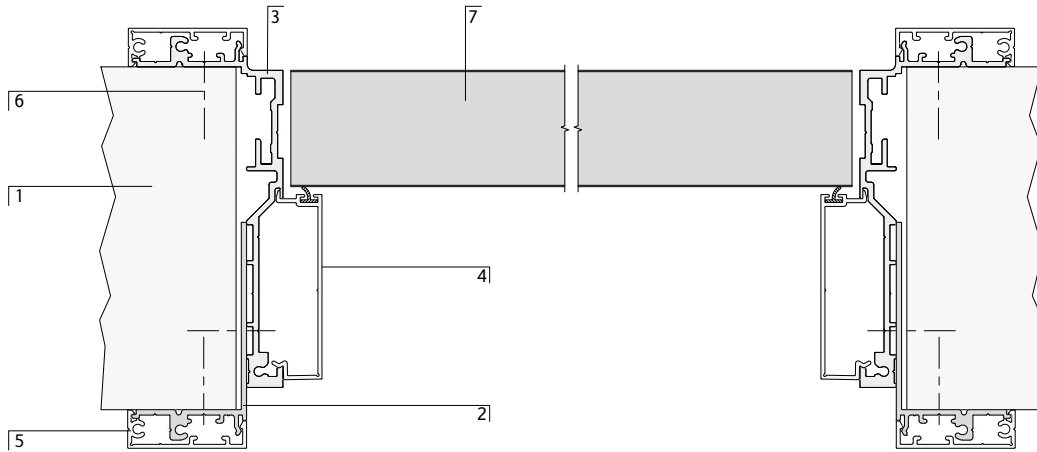


Door frame with radiused profiles

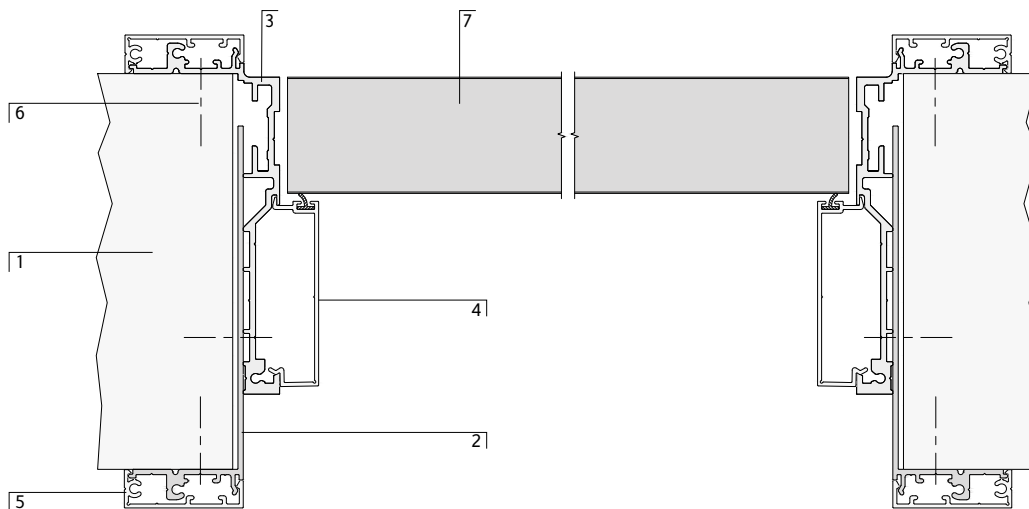
Standard Door Frame – to suit wall thickness between 74mm and 123mm



Intermediate Door Frame – to suit wall thickness between 118mm and 165mm



Jumbo Door Frame – to suit wall thickness between 133mm and 225mm



- 1) Plasterboard Partition, Brick or Block Work Wall 2) Inner Frame 3) Outer Frame 4) Door Stop 5) Clip-on Architrave 6) Fixings 7) Door

XP window sets

System Description

XP window sets are available in both single and double glazed and can be installed into either plasterboard partitions or brick and block walls between 74mm and 225mm thick.

All window frames are supplied factory assembled as fully finished window sets with the appropriately sized frame and glass.

Standard:

- For wall thicknesses between 74mm and 123mm

Intermediate:

- For wall thicknesses between 118mm and 165mm

Jumbo:

- For wall thicknesses between 133mm and 225mm

Window frame sizes

XP window frames can be manufactured in any size to a maximum frame size of 3000 x 1200mm, subject to fire rating.

We also offer a range of three standard frame sizes complementing a standard door height of 2040mm. The overall sizes of these frames are:

2097 x 400mm 2097 x 1200mm 1200 x 1200mm

Performance

Both single and double glazed window frames can be supplied as non-fire-rated, 30 minute or 60 minute fire rated. Single glazed windows can provide up to 37dB acoustic attenuation. Double glazed windows can provide up to 40dB, subject to frame thickness.

Glass thickness

A range of glass thicknesses can be specified. Single glazed glass sizes – non-fire-rated:

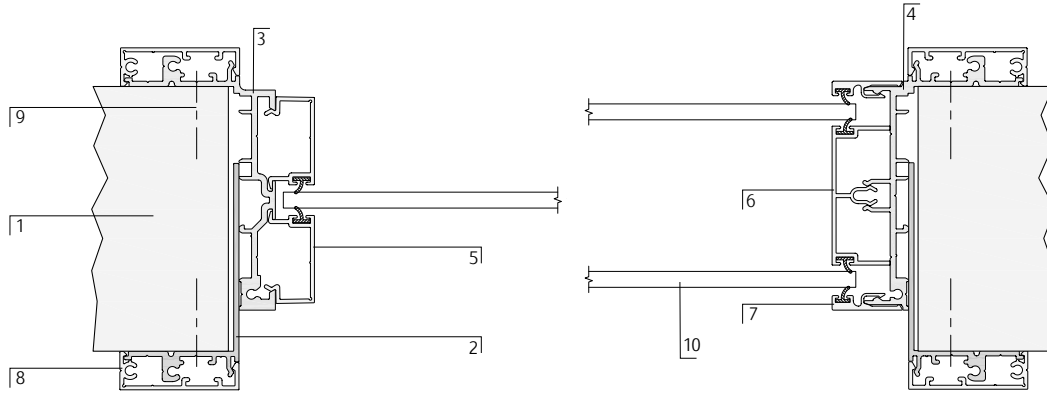
- 6mm, 8mm, 10mm, 12mm (Standard Only), 15mm Single glazed glass sizes – 30 minute and 1 hour fire-rated:
- 6mm, 8mm, 10mm, 12mm (Standard Only), 16mm Double glazed glass size – non-fire-rated, 30 minute fire-rated, 60 minute fire-rated:
- 6mm

Integral Blinds

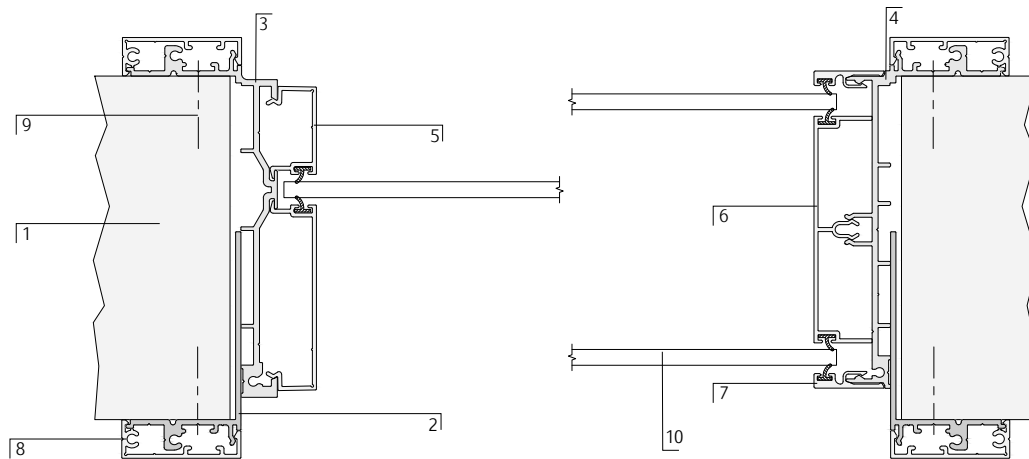
A range of integral venetian blinds are available for installation within double glazed windows. Blind tilt can be controlled using a simple turn knob fitted to the frame or structure.



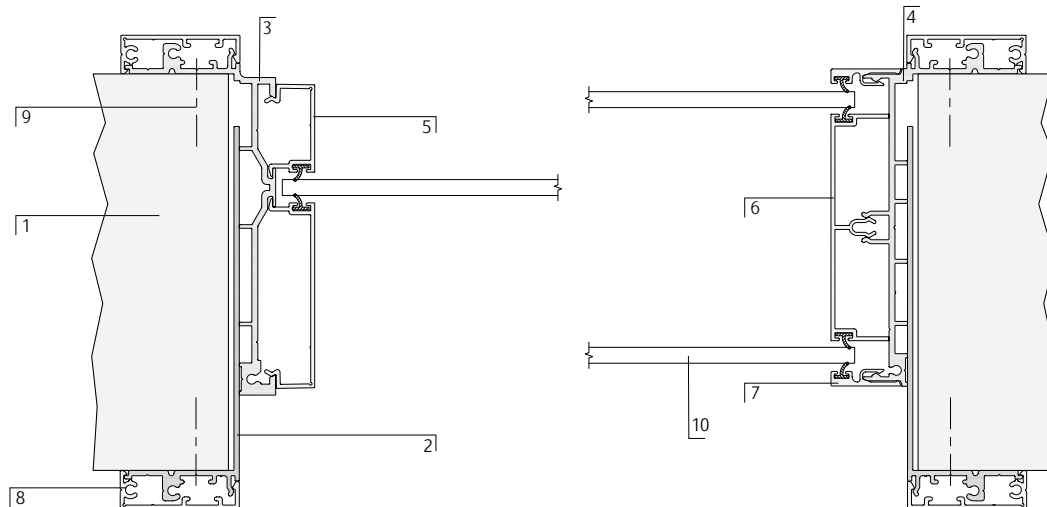
Standard Window Frame – to suit wall thickness between 74mm and 123mm



Intermediate Window Frame – to suit wall thickness between 118mm and 165mm



Jumbo Window Frame – to suit wall thickness between 133mm and 225mm



- 1) Plasterboard Partition, Brick or Block Work Wall
- 2) Inner Frame
- 3) Single Glazed Outer Frame
- 4) Double Glazed Outer Frame
- 5) Single Glazing Bead
- 6) Double Glazing Channel
- 7) Double Glazing Bead
- 8) Clip-on Architrave
- 9) Fixings
- 10) Glass

XP door frames – sizing

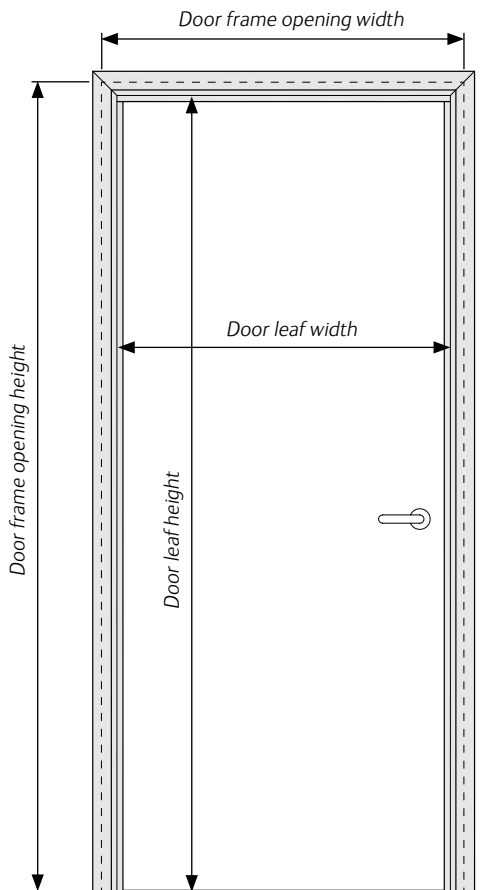
XP door frames are manufactured to fit standard sized door leaves; openings need to be created to allow the door frame to fit. To calculate the door opening required from a standard size door, you need to use the following formula:

$$\text{Door frame opening} = \text{door height} + 26\text{mm}, \text{door width} + 40\text{mm}$$

(All opening sizes allow a 2mm tolerance between the inside of the frame and structure, to allow for any deviation within the structure).

Standard door frame sizing guide:

Door size		Frame size		Opening size	
h	w	h	w	h	w
1981	762	2048	884	2007	802
1981	838	2048	960	2007	878
2040	726	2106	849	2066	768
2040	826	2107	948	2066	866
2040	926	2107	1048	2066	966
2700	838	2767	960	2726	878
2700	926	2767	1048	2726	966





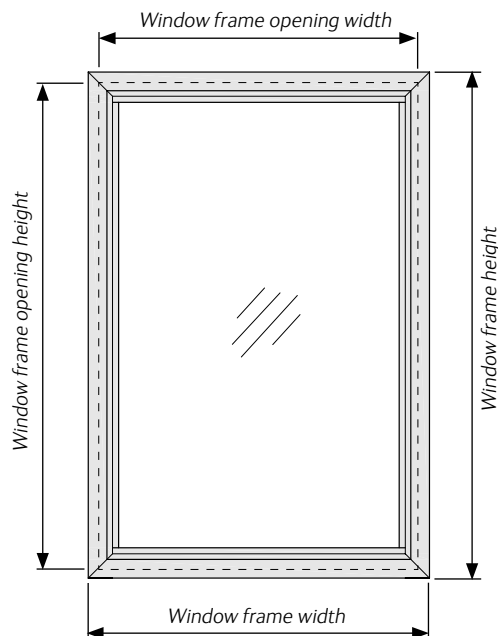
XP window frames can be manufactured up to a maximum of 3000 x 1200mm (Note: for full height windows, the opening starts at 51mm from finished floor level). To calculate the overall window frame opening required, you will need to use the following formula:

$$\text{Window frame opening} = \text{window frame height/width} - 82\text{mm}$$

(All opening sizes allow a 2mm tolerance between the inside of the frame and structure to allow for any tolerances within the structure. The clear viewing area is 147mm less than the overall frame size).

Standard window frame sizing guide

Glass size		Frame size		Opening size	
h	w	h	w	h	w
1972	275	2097	400	2015	318
1972	1075	2097	1200	2015	1118
1075	1075	1200	1200	1118	1118



Door set installation

Step One – Unpack and Prepare

1. Unwrap pre-assembled door and frame.
2. Carefully lift door leaf from hinges.
3. Check frame fits structural opening and that the door handing is correct.
4. Remove loose fitted architrave and door stops.

Step Two – Inner Frame

5. Offer inner frame into opening and centralise. Level door frame head and clamp into position.
6. Fix head through pre-drilled holes on the architrave carrier to the structure, using suitable fixings.
7. Level and plumb legs, pack at fixing points, as necessary, and clamp.
8. Fix legs through the pre-drilled holes on the architrave carrier to the structure using suitable fixings.

Step Three – Outer Frame

9. Offer outer frame into position, pull tight against inner frame and clamp.
10. Fix head through pre-drilled holes on the architrave carrier to the structure, using suitable fixings.
11. Within opening pilot drill through the pre-drilled holes in the outer frame into the inner frame.
12. Fix through holes into the structure using suitable fixings, ensuring the fixings are not over tightened.

Step Four – Doorstop

13. Starting with head, clip doorstops to outer frame.

Step Five – Architraves

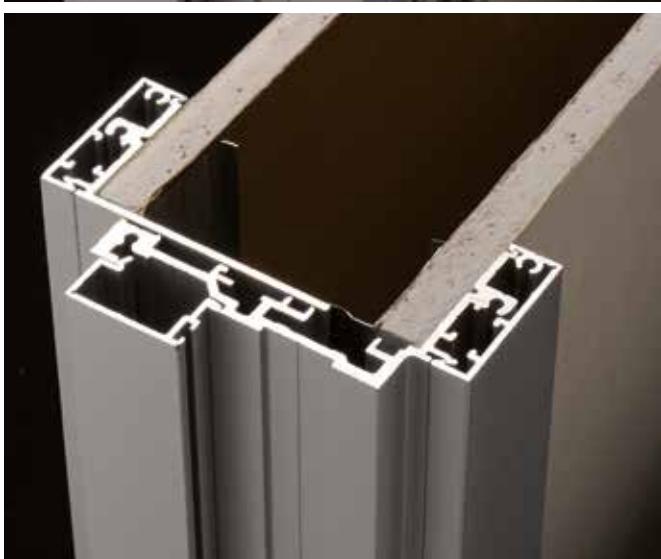
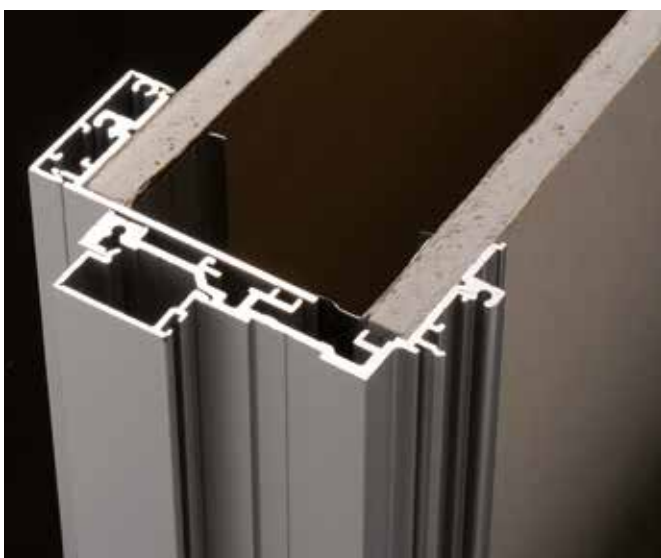
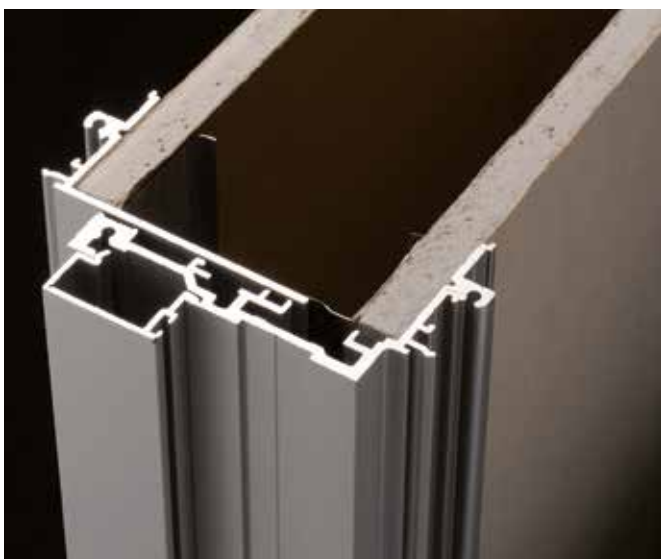
14. Starting with head, clip architraves to inner and outer frames.

Step Six – Final Fix

15. Insert screws provided into corner mitres of architrave to pull architrave joint tight.
16. Lift door back into frame.
17. Fit levers / pull handle, door closer and door stop.

(Note: A thin flat filling knife or similar can be used to remove fitted architraves and doorstops).





Window set installation

Step One – Unpack and prepare

1. Unwrap pre-assembled frame
2. Check frame fits structural opening
3. Remove loose fitted architrave and glazing beads.

(Note: For fire rated constructions the outer frame should be positioned towards the fire risk side of the wall, as should the non-fire rated glass where window frames are double glazed).

Step Two – Inner Frame

4. Offer inner frame into opening and centralise. Level window frame head and clamp into position.
5. Fix head through pre-drilled holes on the architrave carrier to the structure, using suitable fixings.
6. Level and plumb frame, pack at fixing points, as necessary, and clamp.
7. Fix vertical frame, then base, through the pre-drilled holes on the architrave carrier to the structure, using suitable fixings.

Step Three – Outer Frame

8. Offer outer frame into position, pull tight against inner frame and clamp.
9. Fix outer frame through the pre-drilled holes on the architrave carrier to the structure, using suitable fixings.

Step Four – Glazing (Single Glazed)

10. Starting with head and base, clip first glazing bead to the outer frame.
- 11a. For fire rated constructions, wipe the perimeter of the glass clean on both sides with an alcohol wipe and allow to dry.
- 11b. Bond the intumescent supplied to the glass on both sides, positioning it approximately 1mm from the glass edge.
12. Install glass to frame.
13. Starting with head and base, clip first glazing bead to the outer frame.

Step Four – Glazing (Double Glazed)

The central glazing channel is factory fitted to the frame, leaving glazing and external beads to be fitted. (Note: For fire rated constructions, the fire glass should be installed on the side being protected).

- 10a. For fire rated constructions, wipe the perimeter of the glass clean on both sides with an alcohol wipe and allow to dry.
- 10b. Bond the intumescent supplied to the glass on both sides, positioning it approximately 1mm from the glass edge.
11. Install glass to first side.
12. Starting with head and base, clip first glazing bead to the outer frame.
13. Install glass to second side.
14. Starting with head and base, clip second glazing bead to the outer frame.

Step Five – Architraves

14. Starting with head and base, clip architraves to inner and outer frames.

Step Six – Final Fix

15. Insert screws provided into corner mitres of architrave to pull architrave joint tight.

(Note: A thin flat filling knife or similar can be used to remove fitted architraves and glazing beads).




glass and glazing



glass overview and lead times	135
in-house glazing service	
types of glass and partitioning build heights	139
range of available types	
glass joints	145
glass to glass joint options	
glass doors	149
sliding and hinging glass doors	
fire screens	153
30 & 60 minute fire performance	
manifestations & graphics	157
DDA Requirements	
integral blinds	161
horizontal and vertical blinds	
architectural glass	163
other project led glass requirements	





glass overview and lead times
in-house glazing service

glazing

Our in-house glazing team reduces subcontractor risk by providing an on-site glazing service to all our of partitioning systems. A network of regional glass offices and installers are able to glaze our systems across the country.

Once the partitioning system is installed we take on the responsibilities of:

- Surveying the site, ensuring that the correct glass measurements are taken including any raking glass requirements.
- Ordering the correct glass and glass doors, our glass teams work closely with our suppliers to ensure lead times are kept to a minimum.
- Delivering to site, as standard our prices include offload and delivery to the 1st floor.
- Installing the glass, glass doors and ironmongery (including dry joint or silicone as required)
- Installing manifestations and optional blinds
- Ensuring all waste is removed

The service is available for all our partitioning systems including:

- System 2000 – 50mm / 2" partitioning system
- System 3000 – 75mm / 3" partitioning system
- System 4000 – 100mm / 4" partitioning system
- System 8000i SG – Single glazed partitioning
- System 8000i DG – 105mm double glazed partitioning
- XP Frames – Rapid fit window and door sets

Please see indicative installation lead times in the page opposite. The glass team are also able to offer a range of bespoke glass services to meet project requirements.

A range of glass to glass joint options are available for System 8000i including silicone and dry joints. The C-Joint is a near invisible dry joint that is sandwiched neatly between two profiled glass panels. As a solid extrusion it provides a consistent 1.5mm compression joint between glass modules, to create the appearance of butt-jointed glass, without the use of silicone. See page 143 for further details.

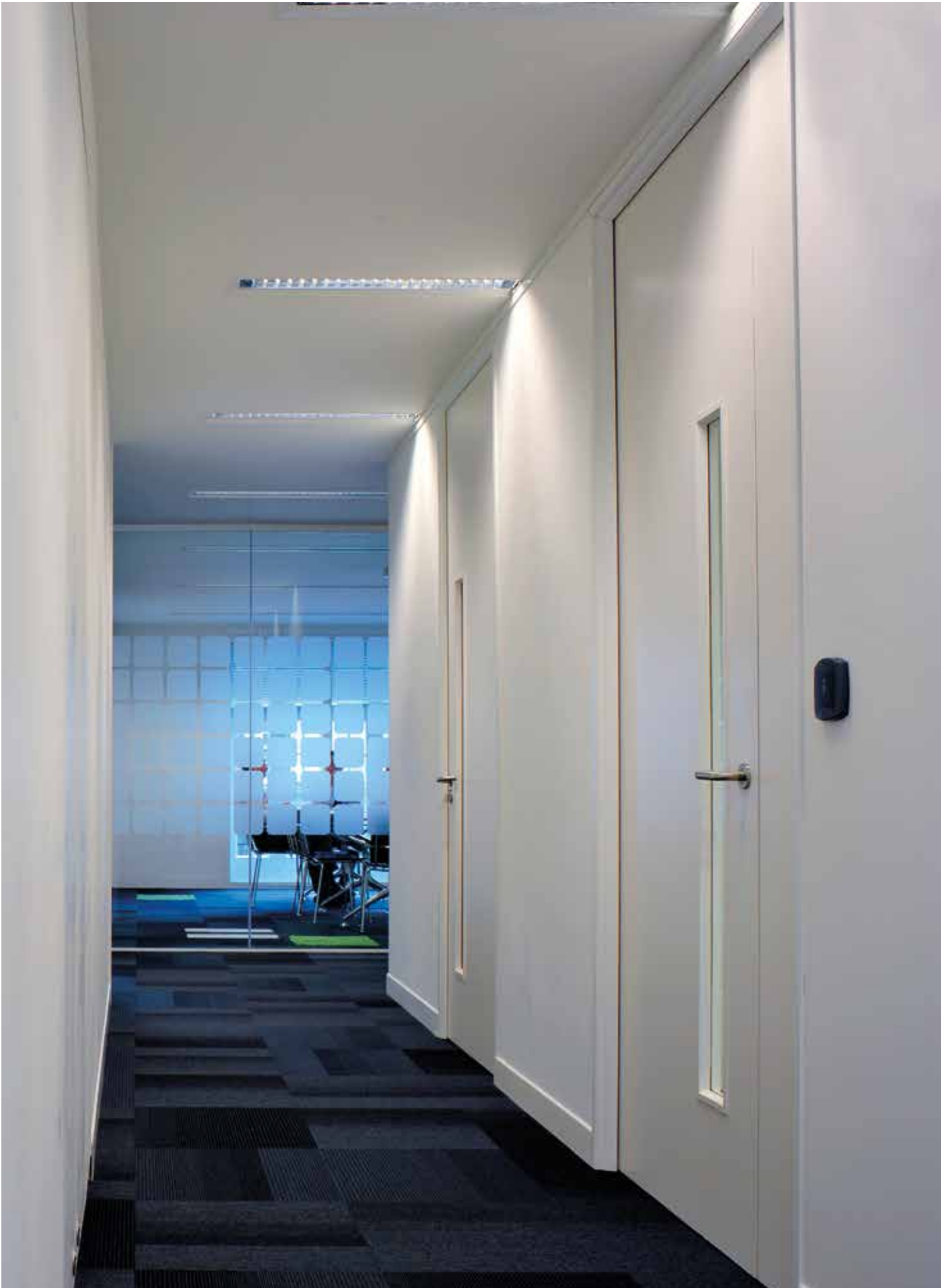


Glass lead times

We aim to install all standard glass within five days of survey.
Please see below for indicative lead times for glass installation following site survey for each of our partitioning systems.

	Glass Type	Standard Lead Time
System 2000, System 3000, System 4000, XP Frames		
	6mm Toughened	5 working days
	6.4mm Laminate	5 working days
	6mm Fire Glass	2–3 weeks
	6mm Pyrocet Fire Glass	2–3 weeks
	6mm Pyra Fire Glass	2–3 weeks
XP Frames		
	8mm Toughened	5 working days
	8.8mm Laminate	5 working days
	8.8mm Acoustic Laminate	5 working days
System 8000i Fully Glazed		
	10mm Toughened	5 working days
	10.8mm Laminate	5 working days
	10.8mm Acoustic Laminate	5 working days
	12mm Toughened	5 working days
	12.8mm Laminate	5 working days
	12.8mm Acoustic Laminate	5 working days
	Privacy Glass	6 weeks
Fire Glass		
	30/0 Fire Glass	2–3 weeks
	30/30 Fire Glass	2–3 weeks
	60/0 Fire Glass	2–3 weeks
	60/30 Fire Glass	2–3 weeks
	60/60 Fire Glass	2–3 weeks

These are indicative timings based on glass availability, please contact your local glass depot to confirm current glass lead times.





types of glass
range of available glass types

types of glass

We are able to offer a range of glass types and thicknesses depending on the partitioning system selected, the fire performance required and the strength and stability required. Our technical team is able to offer advice to ensure the correct glass is installed either to BS5234 or BS6180.

Please see overleaf a summary of the glass types we offer and indicative build heights for each of our glazed partitioning systems.

Glass is available in many forms, a description of each glass type is below:

Annealed Glass

Annealed glass is glass without internal stresses caused by heat treatment. Float glass is annealed during the process of manufacture. Standard annealed glass breaks into large, jagged shards that can cause serious injury, and thus, the reason it is considered a hazard in architectural applications and only offer it in laminated forms..

Toughened Glass

Toughened glass is a type of safety glass that has increased strength and will usually shatter in small, square pieces when broken. It is used when strength, thermal resistance and safety are important considerations. Toughened glass is typically four to six times the strength of annealed glass.

Heat-Strengthened Glass

Heat-strengthened glass is glass that has been heat treated to induce surface compression, but not to the extent of causing it to "dice" on breaking in the manner of tempered glass. As with standard annealed glass on breaking, heat-strengthened glass breaks into sharp pieces that are typically somewhat smaller than those found on breaking annealed glass, we only offer heat strengthened glass in laminated forms.

Annealed, Toughened and Heat Strengthened Laminate

Laminated glass is manufactured by bonding two or more layers of annealed glass or heat strengthened glass together with layers of PVB, under heat and pressure, to create a single sheet of glass. When broken, the PVB interlayer keeps the layers of glass bonded and prevents it from breaking apart.

Annealed, Toughened and Heat Strengthened Acoustic Laminate

As laminated glass however the interlayer can give the glass a higher sound insulation / attenuation rating.



Low-Iron Glass

We are able to offer low iron glass for all of our partitioning systems and glass types. Low iron glass is ultra clear, practically colourless and provides a higher degree of light transmittance than standard clear glass. This optimum clarity is achieved by removing most of the iron oxide content used to produce glass.

Heat-Soaked Glass

On rare occasion toughened glass can break in service for no apparent visual reason. This can be caused by a number of reasons including on-site damage, impact or inclusions within the glass.

Heat Soaking is a destructive process in which a pane of toughened tempered glass is subjected to temperatures up to 280° C for several hours over a specific temperature gradient to induce fracture. This test insures that if there is probability of breakage then the infected panes break inside the furnace at the factory itself reducing the chances of breakages after installation.

Privacy Glass

Electronically controlled smart glass offers high levels of privacy at the flick of a switch. A liquid crystal layer within the glass enables the glass to be switched from clear to opaque within 20 microseconds. Privacy glass offers an alternative to integral blinds and is ideal for office, healthcare and leisure partitioning installations.

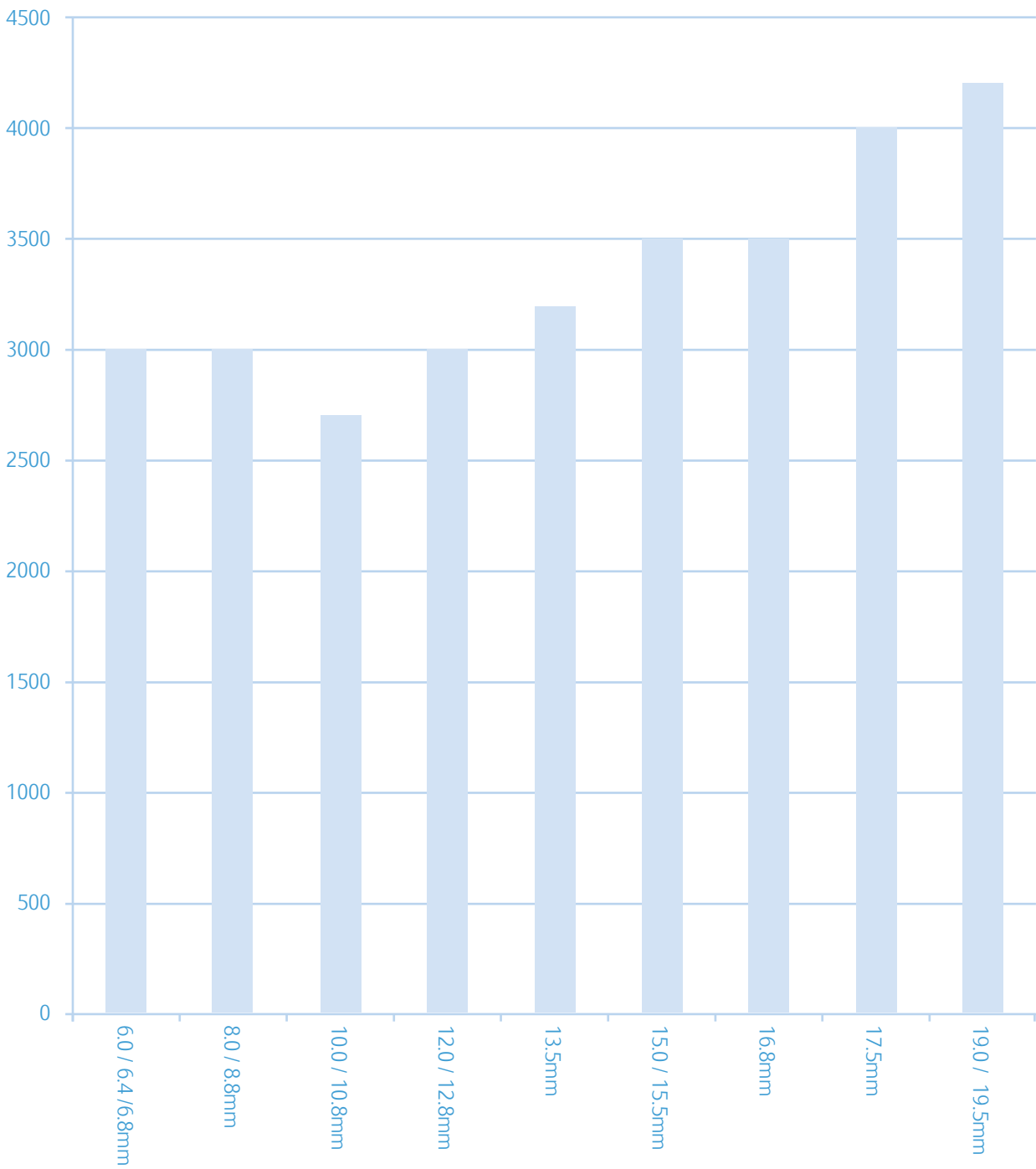


types of glass

	Toughened *	Annealed Laminate *	Toughened Laminate *	Annealed Acoustic Laminate *	Toughened Acoustic Laminate *	Toughened Heat Strengthened Laminate	Toughened Heat Strengthened Acoustic Laminate		System 2000	System 3000	System 4000	System 5000	System 6000	System 7000	System 8000i, System 8000SG/NG/DG	XP Frames		Suitable for Mitred Edge	Suitable for C-Joint	Available as Heat soaked	Available in low Iron
6mm	X							X	X	X	X	X	X	X		X		Y		Y	Y
6.4mm		X						X	X	X	X	X	X	X		X		Y			Y
6.8mm				X				X	X	X	X	X	X	X		X		Y			Y
8mm	X													X		X		Y		Y	Y
8.8mm		X		X										X		X		Y			Y
10mm	X														X	X		Y	Y	Y	Y
10.8mm		X		X											X	X		Y	Y		Y
12mm	X														X	X		Y	Y	Y	Y
12.8mm		X		X											X	X		Y	Y		Y
13.5mm			X	X	X	X	X								X	X		Y		Y	Y
15mm	X														X	X		Y	Y	Y	Y
15.5mm			X		X	X	X								X	X		Y		Y	Y
16.8mm		X		X											X			Y			Y
17.5mm			X		X	X	X								X			Y		Y	Y
19mm	X														X			Y		Y	Y
19.5mm			X		X	X	X								X			Y		Y	Y

* Suitable for curving

partition build heights



The figures above are an indication only based on medium duty to BS5234-2.
For further details please contact our technical department.



glass joints

glass to glass joint options



glass joints

Silicone

Traditionally fully glazed systems have used silicone for the glass jointing method. Silicone provides a clean aesthetic finish to glass joints but requires a clean site, to avoid dust settling during the 24 hour curing period. Post installation, to remove a glass pane, to maintain blinds or to relocate the system, any silicone needs to be cut away and time allowed to clean the glass edge.

C-Joint (Concealed Dry Glass Joint)

The innovative C-Joint is a near invisible dry joint that is sandwiched neatly between two profiled glass panels. As a solid extrusion it provides a consistent 1.5mm compression joint between glass modules, to create the appearance of butt-jointed glass, without the use of silicone. The C-Joint can also be used horizontally and vertically.

Saving time on site, it is installed progressively at the same time as the glass. The additional benefit over silicone is that the joints can be utilised with double glazed installations.

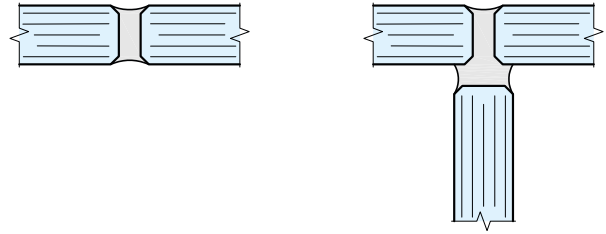
Meeting the requirements for strength and stability, the C-Joint ensures the visual demands of a traditional glass partitioning joint are met, while also fulfilling the demands of a fully relocatable partitioning system. The flexibility of this dry joint allows future office changes to be completed quickly and easily without the need to cut away silicone.

I-Joint (Dry Joint, Clear PET-G)

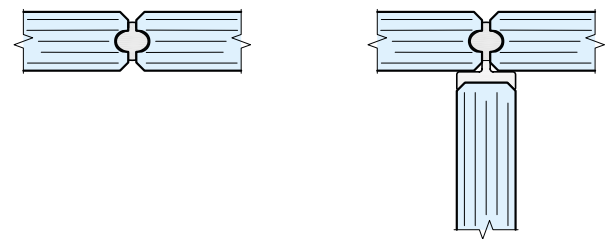
The crystal clear I-Joint is a low profile dry joint which can be used instead of traditional silicone.

The PET-G joint is recyclable and offers the lowest carbon footprint, in comparison to other plastics. For fire performance systems, up to 60/60 at 3m high, an opaque H-joint is utilised.

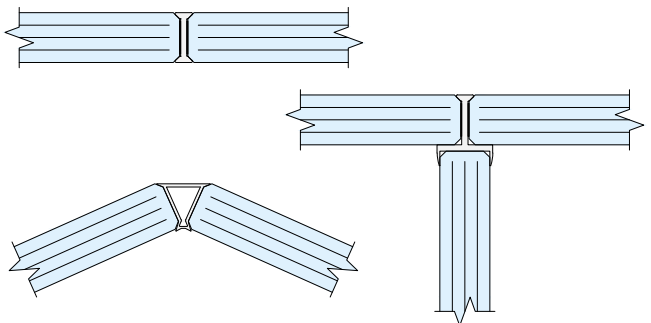
Silicone

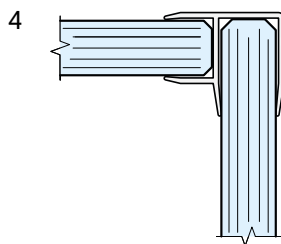
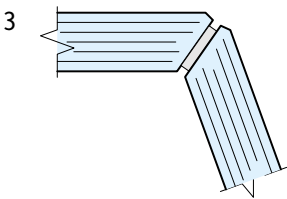
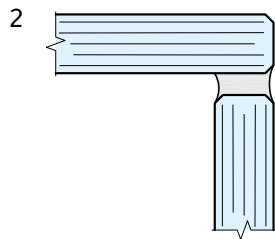
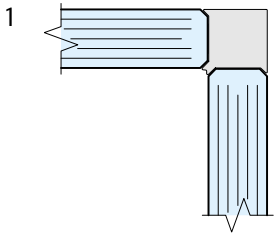


C-Joint (Concealed Dry Glass Joint)



I-Joint (Dry Joint, Clear PET-G)





Corner Joints

A number of different options are available for jointing 90° corners:

1. PET-G standard 90° – for use with 10/12mm c-jointed glass.
2. Silicone – glass can be jointed at 90°, to provide a clean end of line finish. (For single glazed only).
3. 2mm self-adhesive tape – for use on ground mitre edges.
4. H-joint corner section – clear dry joint which is designed to work with the H-Joint.

Taped joints are used for irregular angles.

Glass Installation

To provide the system's high standards, our own dedicated glass team install all glass for System 8000i.

Once System 8000i aluminium head and base tracks are fitted on-site, a glass surveyor visits the project and ensures accurate measurements are taken for both glass and any integral blinds.

Standard glass (toughened / laminated) is installed within 5 working days. Fire glass / specialist glass can take up to 4 weeks, subject to specification.

The glass team are also able to offer a range of bespoke glass services, to meet project requirements.







glass doors
sliding and hinging glass doors

glass doors

We offer a comprehensive range of framed and frameless single and double leaf doors. To ensure accuracy of measurements and installation all our glass doors are installed as part of our glazing service. The range of glass doors includes:

Framed Glass Doors

Single Glazed Doors: Our range of single glazed doors are suitable for all our leading partitioning systems including System 3000, 4000 and 8000i. They can be supplied with up to 30 minutes fire rating. The door leaves can be hinged, with recessed frame hinges or pivoted with offset head and base ironmongery.

Doors frames for our systems can be supplied full height or with over panels. They can be fitted with a range of glass ironmongery including pull handles, locks and latches.

Acoustic drop door seals are available to enhance performance. The innovative new drop door seal on a glass partitioning door increases sound attenuation from 23dB to 32dB, for further details please contact a member of our technical team.

Double Glazed Doors: Our flush double glazed doors are manufactured by SAS International using a sandwich construction of 6mm glass either side of an aluminium frame, providing a finished overall thickness of 45mm. Flush glazed doors are hung on offset pivots and floor springs, and can also be fitted with pull handles, locks and latches.

Frameless Glass Doors

We offer a range of frameless glass doors suitable for our fully glazed System 8000i partitioning system. The range includes hinged doors, with patch fittings, and pivoted doors, with inline pivots.

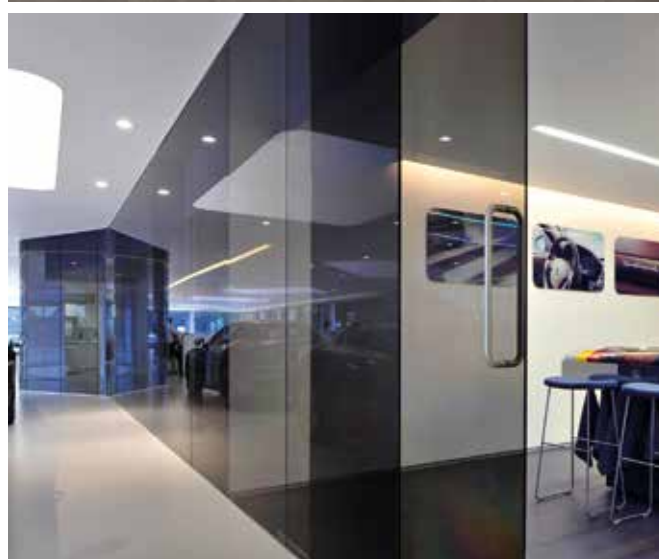
Sliding Glass Doors

Maximising floor space, we offer a range of sliding doors including:

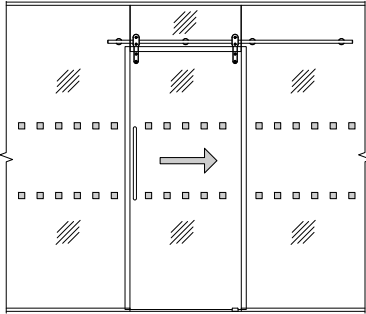
Eclipse Sliding Doors: Our standard sliding doors can be installed to either drywall openings or our fully glazed System 8000i partitioning. Single and double door leaves can be supplied with a range of exposed glass ironmongery available.

Eclipse SG: Our single glazed doors are single glass panes that compliment our single glazed System 8000i partitioning system. Doors are top hung from discreet rollers enabling them to slide effortlessly either alongside the partitioning or into drywall pockets.

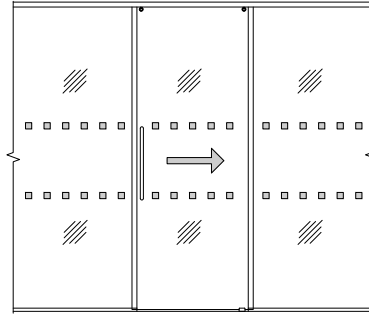
Eclipse DG: Our double glazed doors are single glazed panes which discreetly slide into the cavity of our double glazed System 8000i partitioning system.



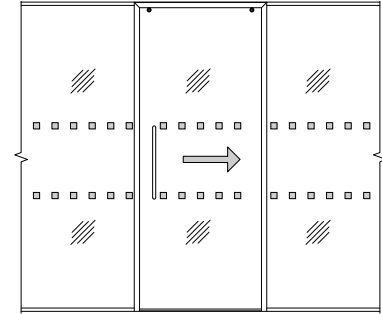
Eclipse



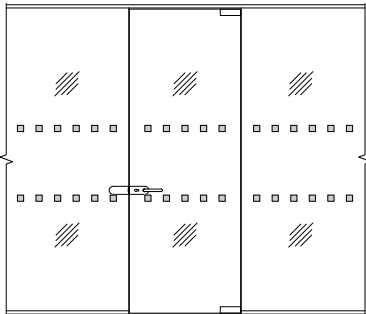
Eclipse SG



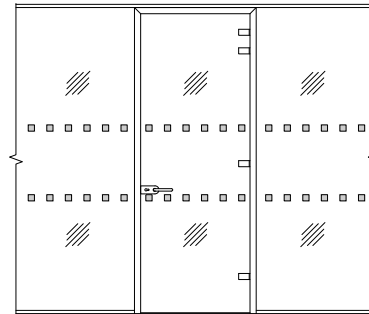
Eclipse DG



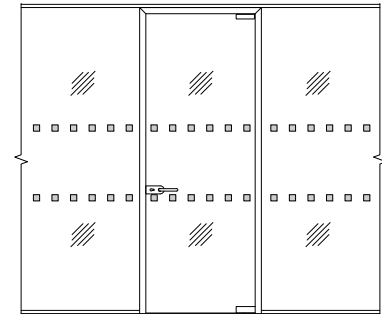
Frameless Glass Door



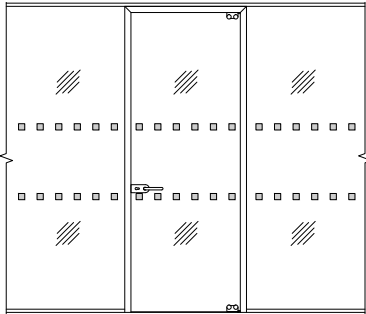
Hinged Glass Door



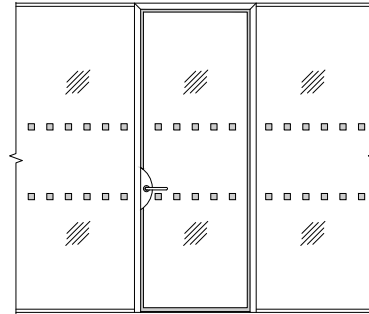
Offset Pivot Glass Door



Single Point Glass Door

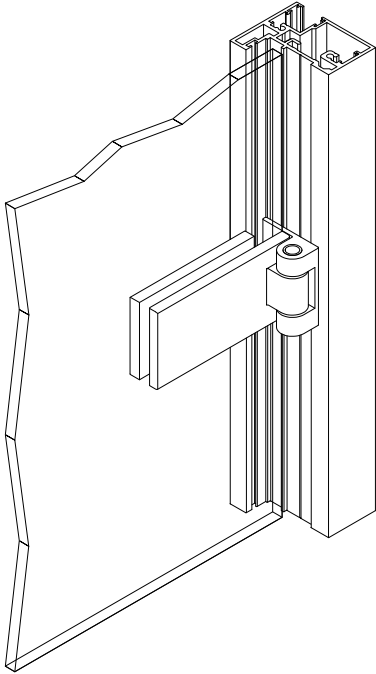


Flush Glazed Door

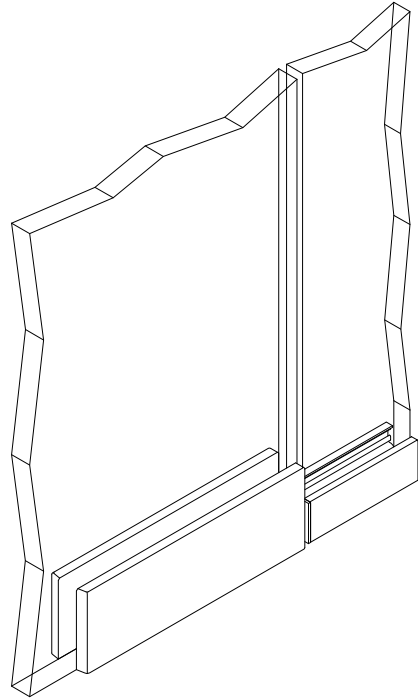


glass door pivot options

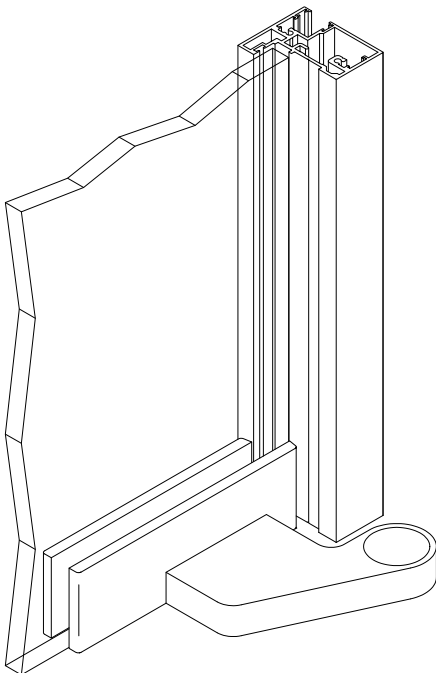
Hinged Glass Door



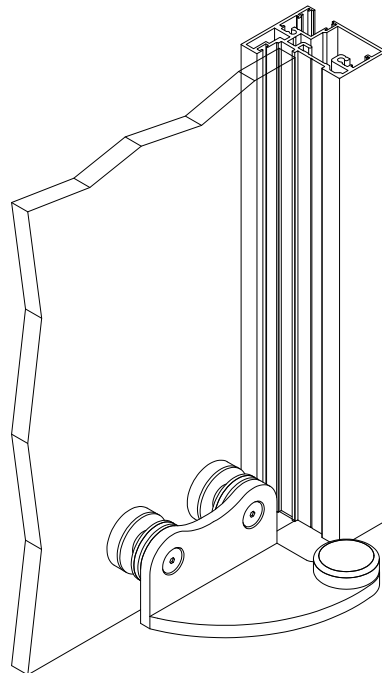
Frameless Glass Door

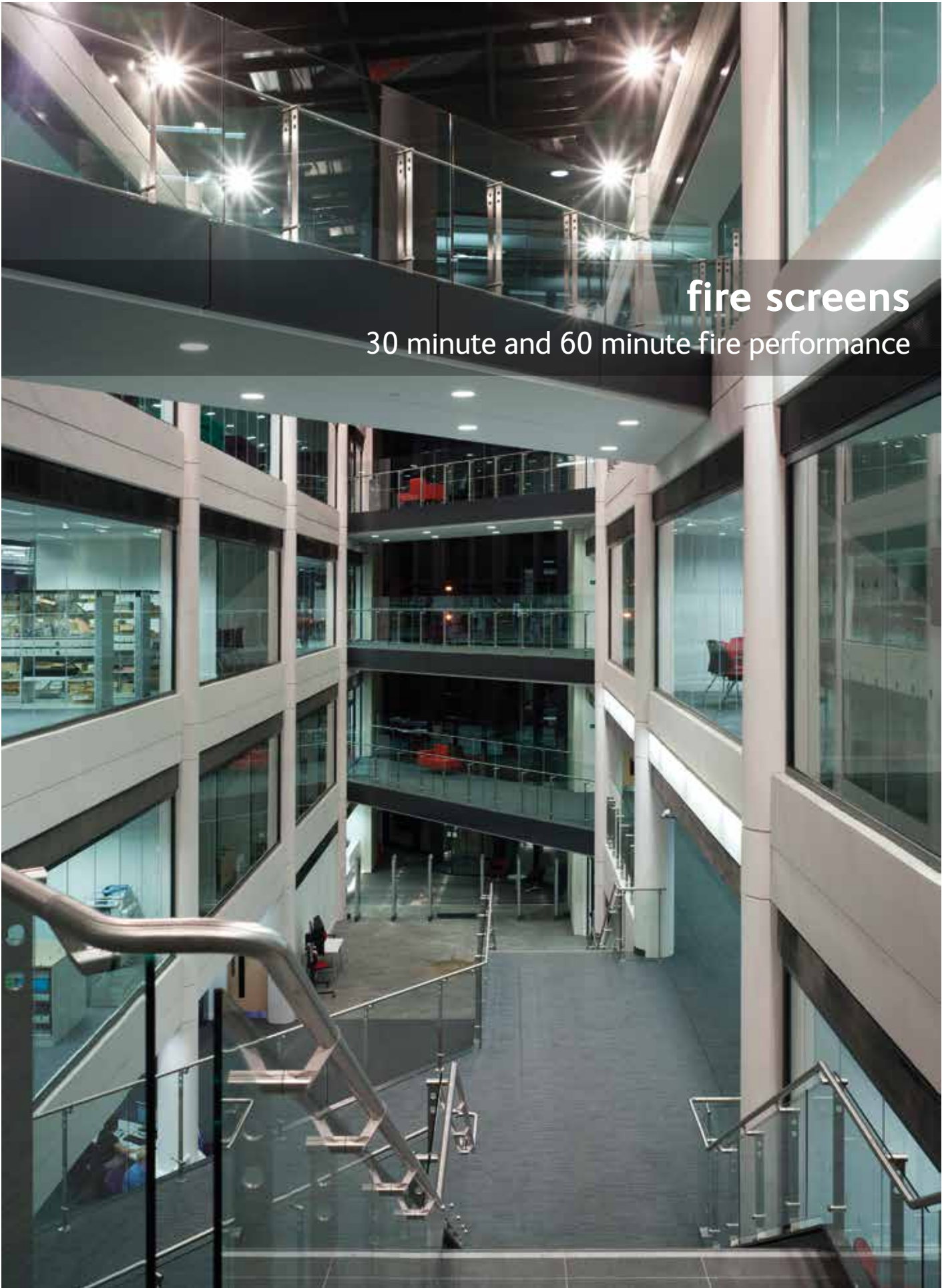


Offset Pivot Glass Door



Single Point Glass Door





fire screens
30 minute and 60 minute fire performance

firescreens

We are able to supply and install a range of fully glazed fire screens without mullions, in single or double glazed that provides up to 60 minutes integrity or 60 minutes integrity and insulation.

Depending on product application our standard fully glazed fire screens can provide 30/0 or 30/30 performance making it suitable for protected corridors under Approved Document B.

Where higher performance levels are required our fully glazed SAS System 8000i partitioning system can also offer one of the highest fire specification dry-jointed relocatable partitioning systems in the industry.

It is tested at an overall height of three metres for 60 minutes integrity and 60 minutes insulation setting a new industry standard for limiting height.

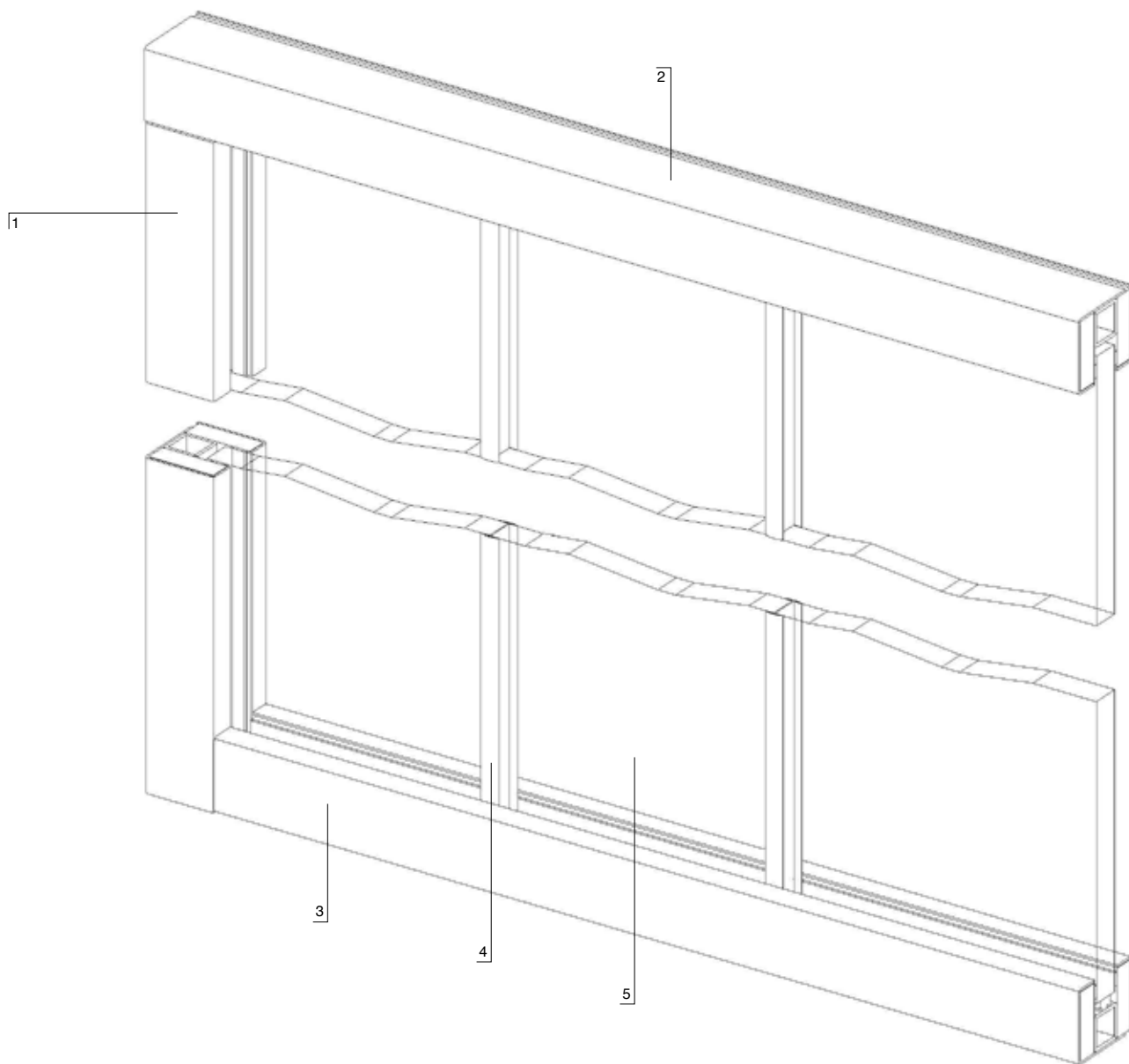
This fully demountable steel glazed partitioning system uses 16.8mm and 25.0mm glass with an environmentally friendly PETG dry-joint providing a neat and clear glass to glass joint detail without the use of silicone.

Fire doors

We offer a full range of glass and timber fire doors. Our fire doors have been designed and tested to work in conjunction with our fire screens and partitioning systems.

Please contact our technical team for further information on the full range of high performance fire doors we can offer to meet your requirements.



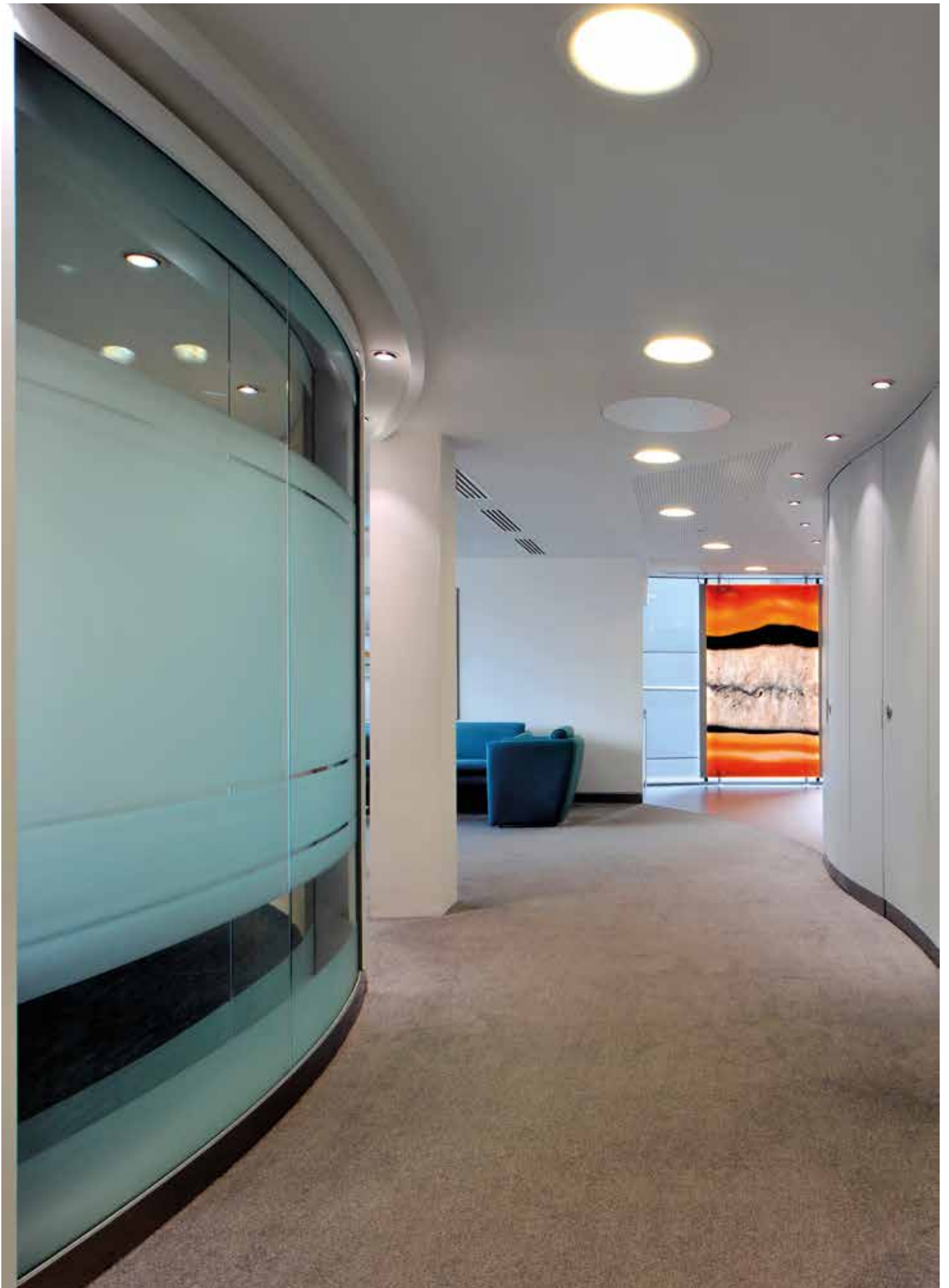


Section Drawing



Fire Performance

Fire Performance	System 3000	System 4000	System 8000i SG	System 8000i DG
30/0	Y	Y	Y	Y
30/30			Y	Y
60/0			Y	Y
60/30			Y	Y
60/60			Y	Y





manifestations & graphics

DDA approved graphics

manifestations and graphics

Manifestations

DDA (Disability Discrimination Act) / Approved Document M sets out minimum requirements for glass manifestations. They must be clearly defined at two levels 850–1000mm and 1400mm–1600mm. They must contrast with the background in all lighting conditions.

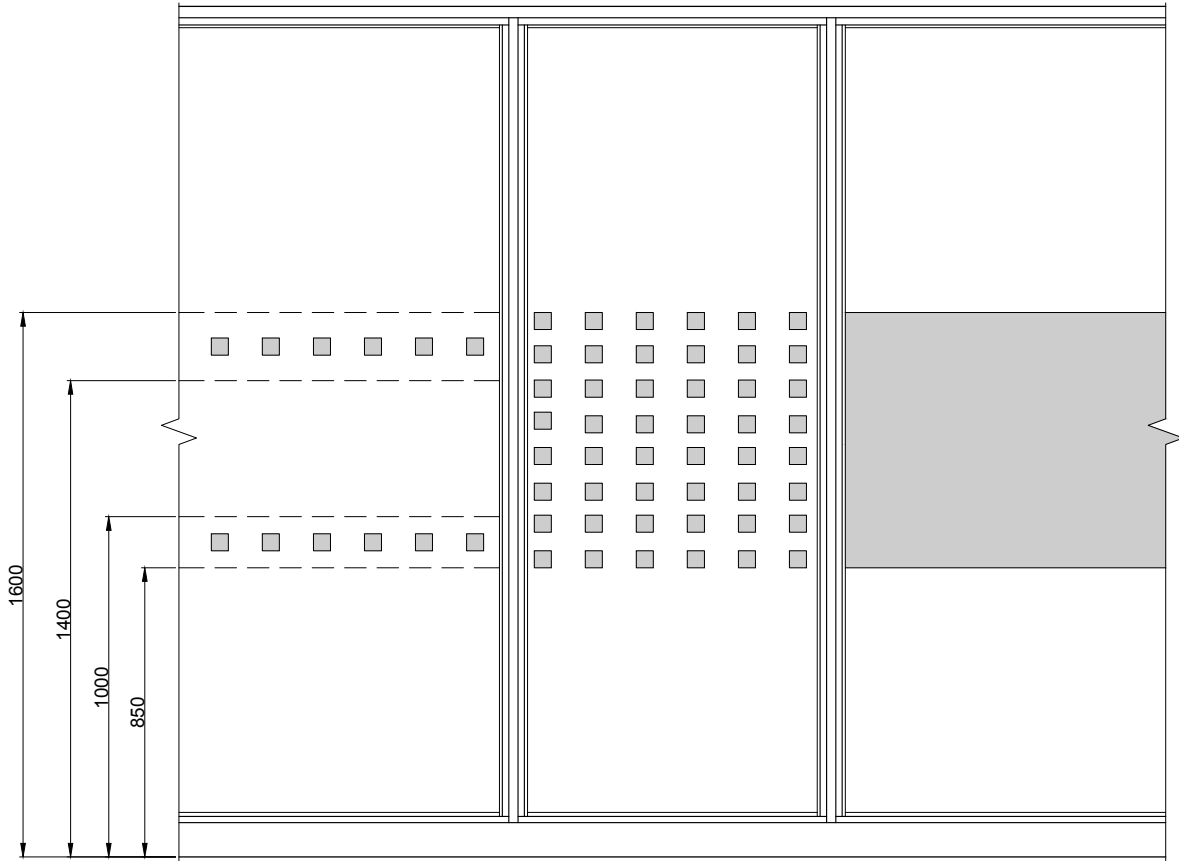
The manifestations can take a number of forms; a single logo 150mm high repeated on each glass panel or 50mm high decorative bands. The manifestations are not limited to the single band areas and can also be located anywhere on the partitioning, as long as the two areas are included.

Manifestations are typically installed on-site using a vinyl graphic. These specialist vinyl graphic products generically known as 'Manifestation Graphics' offer a flexible low cost alternative to the traditional acid etching or sand blasting of glass.

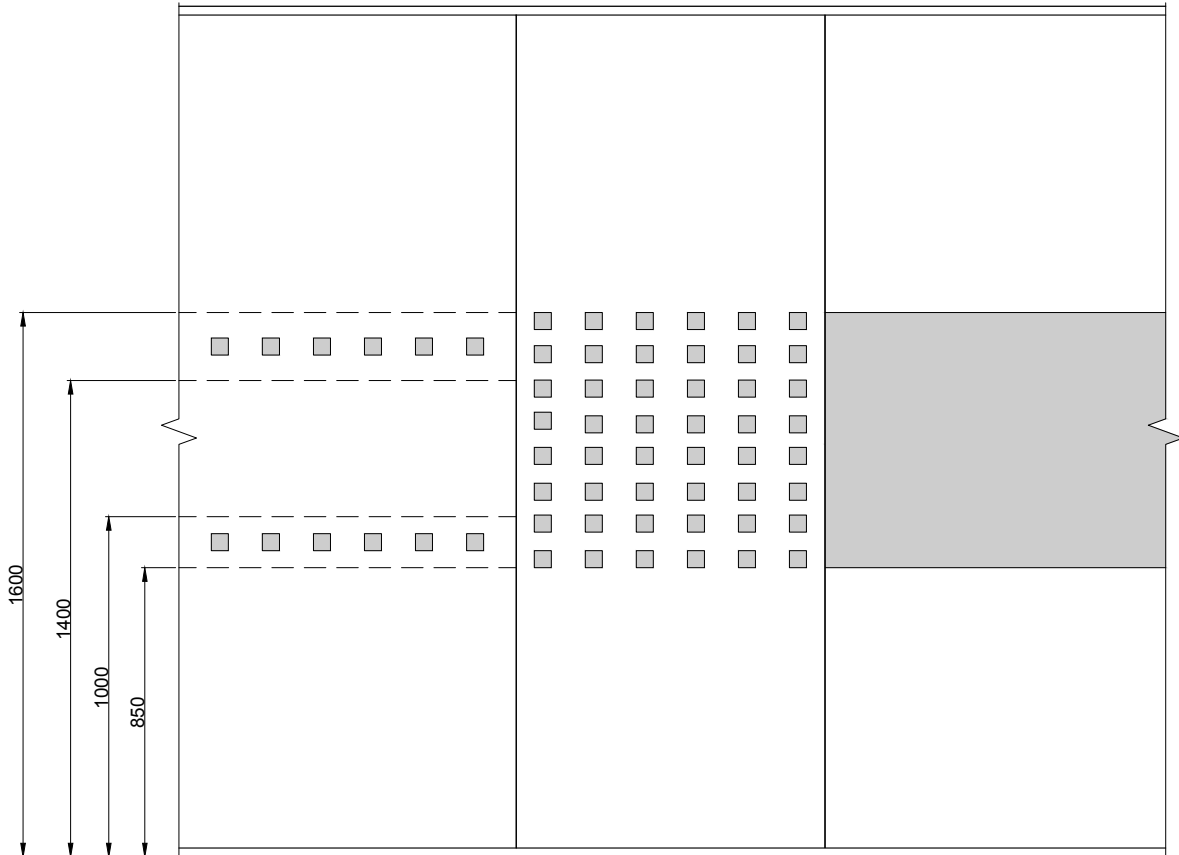
Manifestations can be installed on the face or the reverse of the glass. We recommend that in some sectors, including education, the vinyl is installed on the reverse face / inside face of double glazing to ensure that the vinyl is protected against any accidental damage. For installations where a duty of care is evident, or environments where the manifestation may change regularly, it is recommended to install the graphic on the outside face.



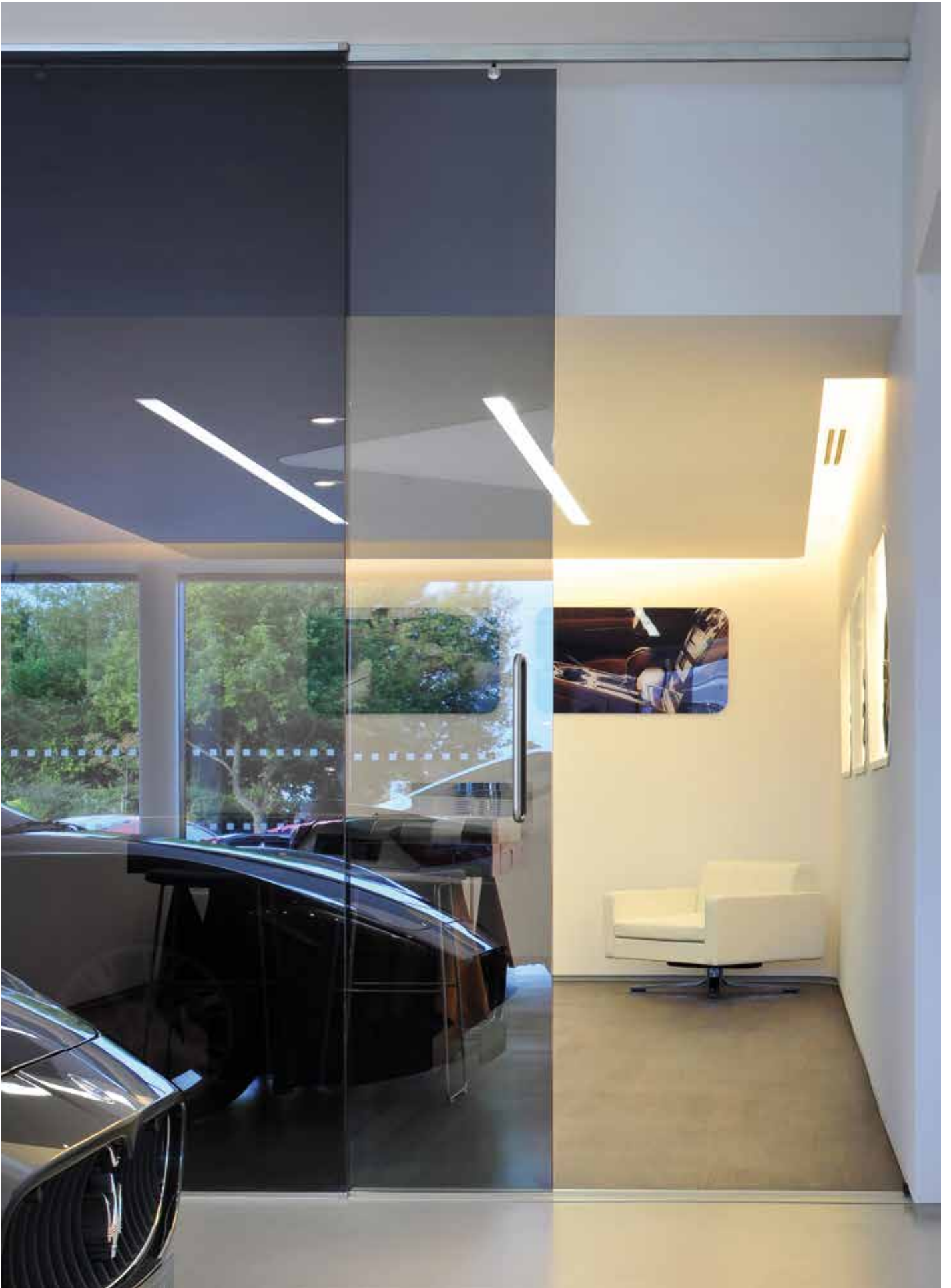
System 3000 / 4000 manifestations



System 8000i manifestations



typical document m requirements



A close-up photograph of a window featuring horizontal blinds. The blinds are light-colored and are partially open, revealing a central vertical frame. On this frame, there is a circular, metallic-looking handle. The lighting is soft, creating a clean and modern aesthetic.

integral blinds
horizontal and vertical blinds

integral blinds

We can supply a range of venetian blinds we offer high levels of privacy to meeting rooms and offices. Blinds can be supplied and installed in a range of colours with 15mm or 25mm slats.

Blinds can be fitted to all our partitioning systems, they are generally fitted within the double glazed cavity however they can also be installed behind our offset glazed systems. They are available in widths up to 2500mm and drops up to 3000mm.

All of our blinds can be controlled by remote or integrated into the building management system. For our 50mm, 75mm, and 100mm systems blind control kits can be fitted by the contractor into vertical mullions.

For more information on the range of blinds we offer please contact a member of our glazing team.

Alternatively we are able to offer a range of manifestations, see page 157 for details, or electronically controlled privacy glass, see page 141 for details.





architectural glass
other project led glass requirements

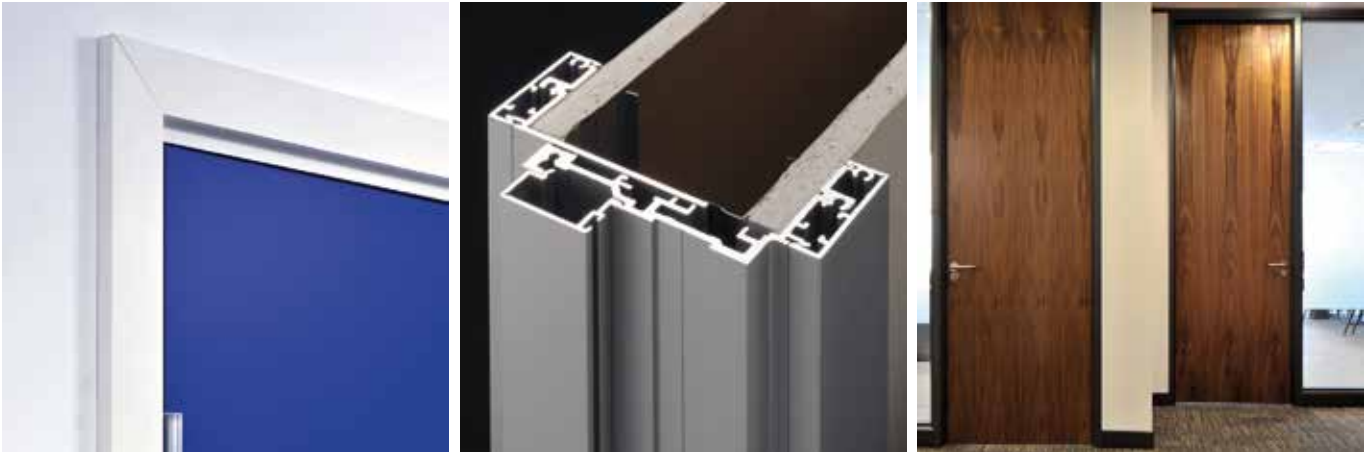
architectural glass

Our glazing teams are able to offer supply and install a range of complimentary architectural glass solutions for any project. Ranging from fixed glass graphics to free standing glass dividing screens and pods.

Our expertise in installing interior solutions enable us to provide a range of glass solutions, please contact your local glazing office for any requirements you may have.

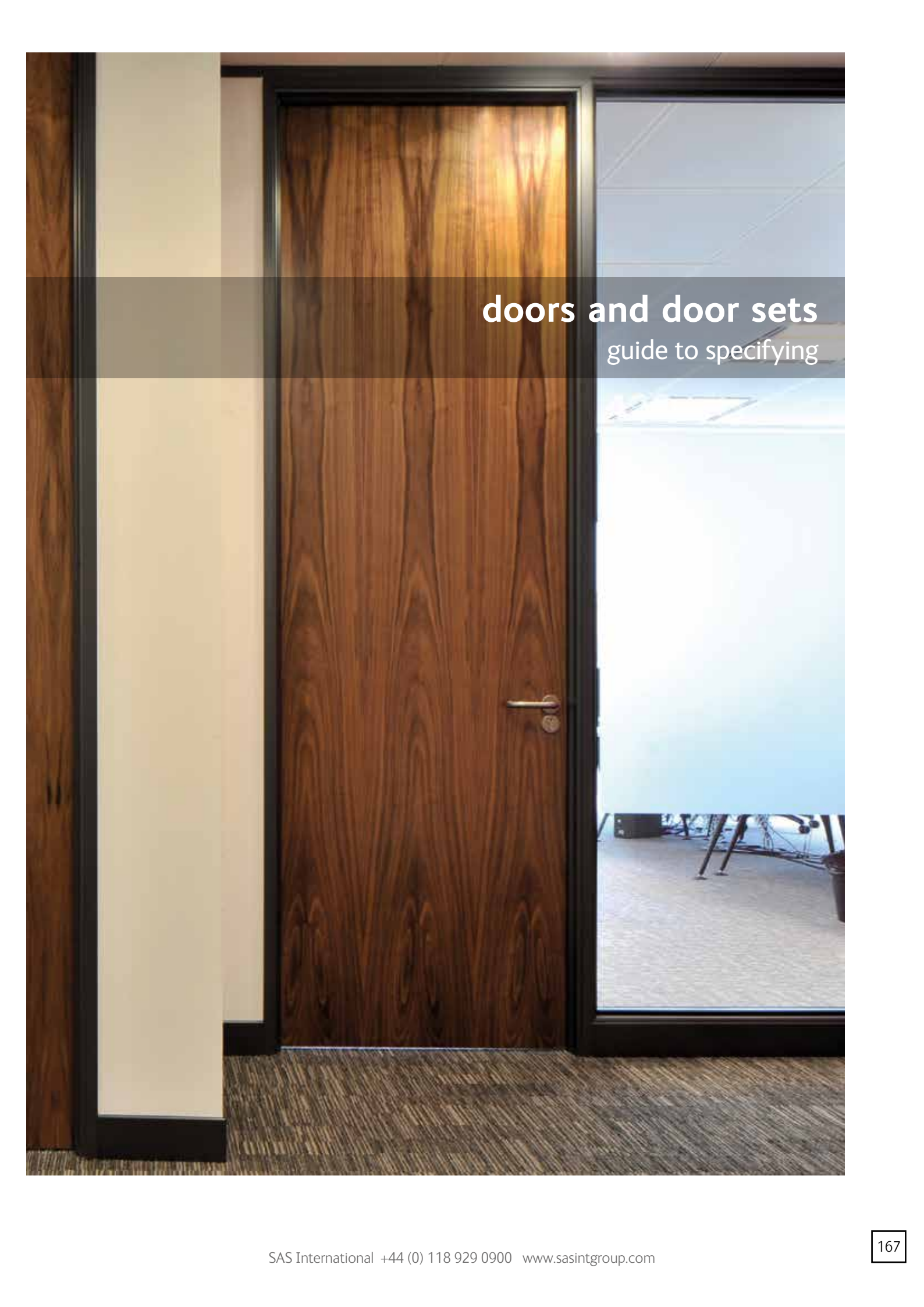


doors and door sets



guide to specifying	167
door lining options	171
door leaves & performance	175
door finishes	179
vision panel options	185
door ironmongery	189





doors and door sets
guide to specifying

Ordering / specifying your door or doorset

The simple guide below takes you through each step of ordering or specifying your door or doorset.

- 1 Specify your door frame depth and lining material, (see page 171 for details).

Specify door frame depth	Specify Door Lining Material
75mm Door Frames	30mm MDF
	32mm Softwood / Hardwood
	Aluminium
	XP - Rapid fit expandable aluminium (74–123mm)
100mm Door Frames	30mm MDF
	32mm Softwood / Hardwood
	Aluminium
	XP - Rapid fit expandable aluminium (74–123mm)
120mm / 125mm / 150mm Door Frames	30mm MDF
	32mm Softwood / Hardwood
	XP - Rapid fit expandable aluminium (74–123mm)
	XP - Rapid fit expandable aluminium (118–165mm)
>150mm Door Frames	XP - Rapid fit expandable aluminium (118–165mm)
	XP - Rapid fit expandable aluminium (133–225mm)



- 2 Specify your required door size, (see page 175 for further details).

Leaf Type	Specify door leaf size
Single Doors	Standard – 1981x762mm, 1981x838mm, 2040x826mm, 8040x926mm, 2700x838mm, 2700x926mm
	Re-sized standard doors – exposed lipping to hinge edge
	Bespoke size – Concealed or exposed lippings
Double Doors	Standard – 1981x1676mm, 2040x1652mm, 2040x1852mm
	Re-sized standard doors – exposed lipping to hinge edge
	Bespoke size – Concealed or exposed lippings
Unequal Double Doors	Standard – 1981x1264mm, 2040x1252mm, 2040x1352mm
	Re-sized standard doors – exposed lipping to hinge edge
	Bespoke size – Concealed or exposed lippings



- 3 Specify your fire rating, (see page 175 for information on fire rating door frames or door leaves).

Specify Fire Rating	Available Door Types
Non fire rated	44mm Cellular Core
	44mm Solid Core
	54mm Solid Core
FD30 – 30 minute fire rated	44mm Solid Core
	54mm Solid Core
FD60 – 60 minute fire rated	54mm Solid Core



4 Specify your finish, (see page 179 for our range of standard finishes).

Finish Type	Finishes	
Paint Grade		
Veneers	Crown Ash	Crown American Cherry
	Qtd Sapele	Crown Maple
	Crown Steamed Beech	Qtd Koto
	Crown Oak	Crown American Black Walnut
	Other veneer species, cuts and inlays	
High Pressure Laminates	Polar White	Sno White
	Folkstone	Fog
	Ocean Grey	Graphite
	China Blue	Spectrum Blue
	Natural Beech	Clear Maple
	Elegant Oak	Finn Beech
	Ivory Oak Cross	Country Cherry
	Ebony Oak Cross	Macchiato Walnut
	Other Formica laminates	



5 Specify your vision panel, (see page 185 for detailed information on our vision panels).

Specify Vision Panel Size	Available Door Types
VP1	450 x 150mm aperture, positioned 150mm down from top and 150mm from the edge
VP2	450 x 450mm aperture, positioned 150mm down from top and centrally in the door leaf
VP3	600 x 150mm aperture, positioned 150mm down from top and 150mm from the edge
VP4	600 x 538mm aperture, positioned 150mm down from top and centrally in the door leaf
VP5	1500 x 150mm aperture, positioned 150mm down from top and 150mm from the edge (Doc M / BS 8900:2009 compliant)
VP6	700 x 150mm and 500 x 150mm apertures, positioned 150mm from the edge (Doc M / BS 8300:2009 compliant)
VP7	Multiple apertures where obstructed view does not exceed 350mm within visibility zone (BS 8300:2009 compliant)
VP8	450mm diameter aperture, positioned 150mm down from top and centrally in the door leaf
Bespoke Vision Panel Size	As required, please refer to technical team regarding maximum sizes in fire rated doors



6 Specify your vision panel beading, (see page 188).

Beading
Matching hardwood bolection bead
Matching hardwood flush quirk bead



7 Specify your vision panel glass type.

Fire Rating	Available Door Types
Non fire rated	Clear glass
FD30 – 30 minute fire rated	Georgian Wire Polished Plate
	Clear Fire Glass
FD60 – 60 minute fire rated	Clear Fire Glass



8 Specify your ironmongery (see page 189 for standard options).

Door type	Standard Ironmongery Sets	
Single Doors	Latched	75mm latch, 19mm 'D' Levers with roses and escutcheons, Class 13 Hinges, Door stop*
	Locked	75mm oval or euro sash-lock, 19mm 'D' Levers with roses and escutcheons, Class 13 Hinges, Door stop*
	Deadlocked	75mm oval or euro deadlock, 300x19mm 'D' pull handle, Class 13 Hinges, Door stop*
	Push / Pull	Push Plates. 300 x 19mm 'D' pull handle, Class 13 Hinges, Door stop, Door closer
	Push / Pull Locked	75mm oval or euro deadlock, Push Plates. 300x19mm 'D' pull handle, Class 13 Hinges, Door stop, Door closer
Double Doors	Latched	75mm latch, 19mm 'D' Levers with roses and escutcheons, Class 13 Hinges, 2 x Door stops*
	Locked	75mm oval or euro sash-lock, 19mm 'D' Levers with roses and escutcheons, Class 13 Hinges, 2 x Door stops*
	Deadlocked	75mm oval or euro deadlock, 2 x 300x19mm 'D' pull handle, Class 13 Hinges, 2 x Door stops*
	Push / Pull	2 x Push Plates. 2 x 300x19mm 'D' pull handle, Class 13 Hinges, 2 x Door stops, 2 x Door closers
	Push / Pull Locked	75mm oval or euro deadlock, Push Plates. 2 x 300x19mm 'D' pull handle, Class 13 Hinges, 2 x Door stops, 2 x Door closers
Unequal Double Doors	Latched	75mm latch, 19mm 'D' Levers with roses and escutcheons, Class 13 Hinges, 2 x Door stops, Flush bolts*
	Locked	75mm oval or euro sash-lock, 19mm 'D' Levers with roses and escutcheons, Class 13 Hinges, Flush bolts, 2 x Door stops*
	Deadlocked	75mm oval or euro deadlock, 2 x 300x19mm 'D' pull handle, Class 13 Hinges, Flush bolts, 2 x Door stops*
	Push / Pull	2 x Push Plates. 300x19mm 'D' pull handle, Class 13 Hinges, 2 x Door stops, 2 x Door closers, optional flush bolts
	Push / Pull Locked	75mm oval or euro deadlock, 2 x Push Plates. 2 x 300x19mm 'D' pull handle, Class 13 Hinges, 2 x Door stops, Flush bolts, 2 x Door closers



All doors are available with optional kick plates.

* Optional door closer available.

9 Specify other factory / off-site services.

Factory Services
Fitting of automatic threshold seals
Pre-mortising for standard SAS lock and/or hinge (non-doorset sales)





doors lining options

75mm to 225mm

door linings

Doorsets

We offer a range of fully tested and certified door sets with a choice of softwood and hardwood frames or our revolutionary rapid fit aluminium XP door set.

All our door sets are manufactured to project requirements and are supplied factory assembled complete with vision panels, non-protruding ironmongery, and acoustic, intumescent and smoke seals. Door leaves are supplied with lift-off hinges reducing installation time on-site.

MDF linings

We offer a standard 30mm MDF lining provide up to 60 minutes fire performance. They are supplied as standard with a 12 x 32mm planted door stop to suit 75mm, 100mm, 125mm and 150mm walls, other sizes are available to suit specific project sizes. It is supplied with a 18 x 69mm architrave as standard. MDF doorsets can be supplied

Softwood and hardwood linings

Our 32mm linings are available in matching softwood or hardwoods provide up to 60 minutes fire performance. They are supplied with a 12 x 32mm planted doorstop to suit 75mm, 100mm, 125mm and 150mm walls, other sizes are available to suit specific project sizes. They can be supplied as standard with a 19 x 44mm or 19 x 70mm architrave..

Aluminium linings

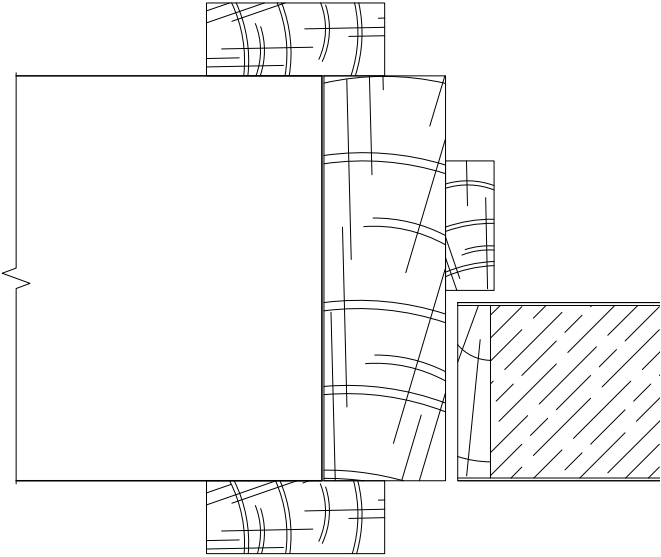
Our 3" and 4" partitioning systems (System 3000 and 4000) door frames provide up to 30 minutes fire performance and can be used in 75mm and 100mm walls. They are available with square or radiused profiles. Please see page 84 for further details on 75mm frames and page 100 for 100mm frames.

Rapid fit XP Frame

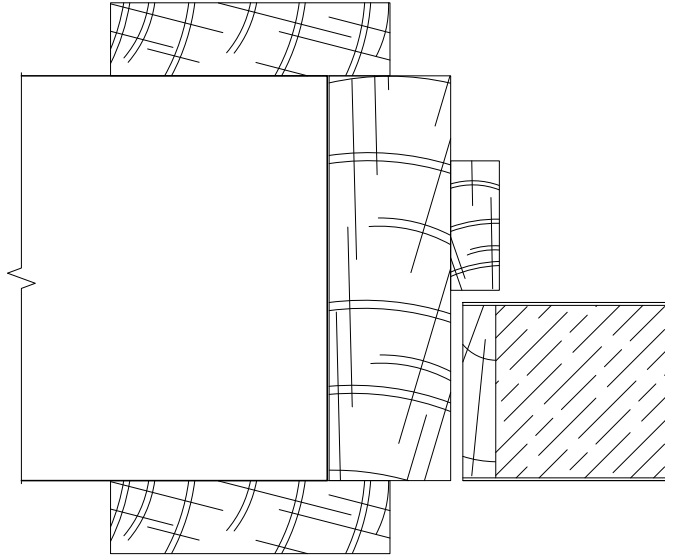
Our depth adjustable aluminium door set can be fitted within 20 minutes reducing project build time and cost. It provides up to 60 minutes fire performance and is available in adjustable depths of 74–123mm, 118–165mm and 133–225mm. It can be supplied with radiused or square profiles, see page 119 for further details.



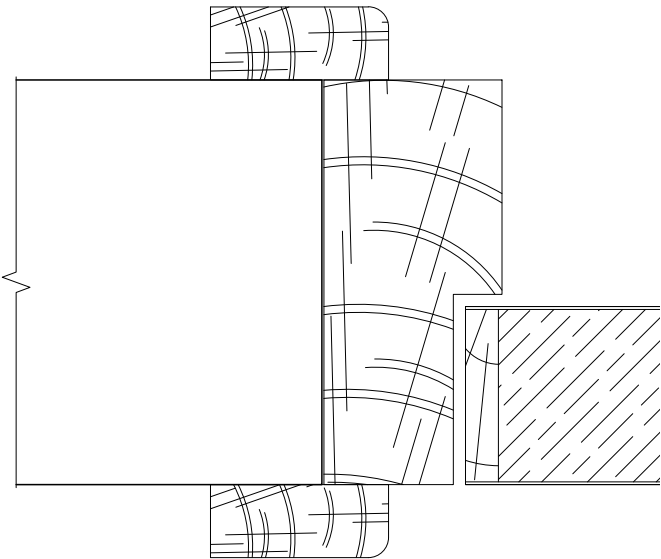
18 x 44 Square Architrave



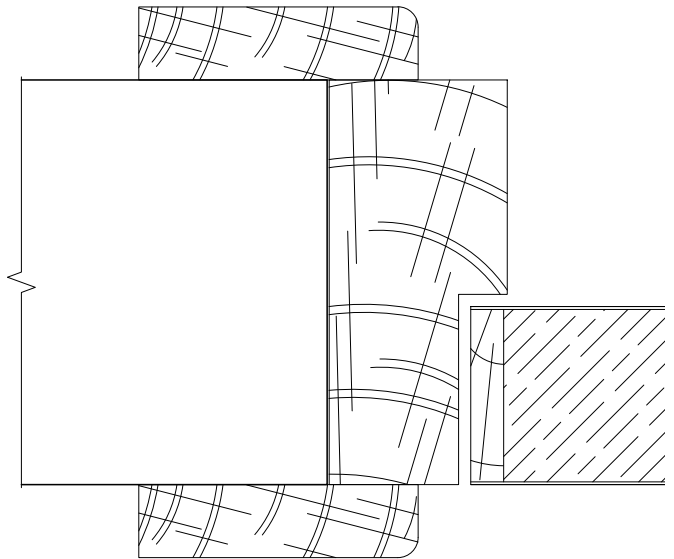
18 x 69 Square Architrave



18 x 44 Pencil Round Architrave



18 x 69 Pencil Round Architrave







door leaves
door size and core options

door size and core options

We manufacture a range of single, double and unequal double doors which can be supplied from our standard or bespoke door range.

Standard doors – Solid Core

Our standard range of doors are available in 44mm and 54mm solid core in a number of standard sizes and finishes. They can be supplied as door leaf only or part of a factory finished door set.

Our standard doors are available on a fast track basis with the majority held in stock at our manufacturing facility, they can be customised to meet project requirements, including:

- Door re-sizing with matching exposed lippings
- Incorporation of standard vision panels
- Upgrades to FD30 or FD60 with fitted intumescent strip, in combination with cold smoke or acoustic seals
- Fitting of automatic threshold seals
- Pre-mortising for standard SAS locks and or hinges

Our standard single door sizes are:

1981x762mm 1981x838mm
2040x826mm 2040x926mm
2700x838mm 2700x926mm

Our standard double door sizes are:

191x1672mm 2040x1652mm 2040x1852mm

Our standard unequal double door sizes are:

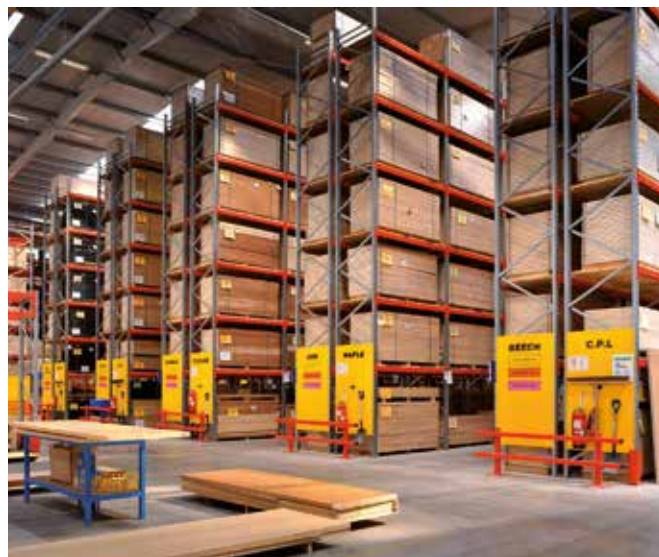
1981x1264mm 2040x1252mm 2040x1352mm

Standard Doors – Cellular Core

We hold a range of light weight 44mm cellular core doors in stock for use with our 50mm partitioning system (System 2000). They are available in 1981 x 762mm and 1981 x 838mm as standard in the following finishes:

Paint Grade*	Crown Ash	Quarter Cut Sapele
Crown Maple	Crown Oak	Crown Steamed Beech
Crown American	Black Walnut*	(*1981x838mm only)

As with our standard solid core doors they can be customised to meet project requirements.



Bespoke doors – Solid Core

We offer a fully bespoke door manufacturing service to meet project specifications for both 44mm and 54mm solid core doors. They can be supplied as door leaf only or part of a factory finished door set.

NFR to FD60 doors, up to 3000 x 1200mm, are manufactured with concealed matching lippings and fully finished with a 3 coat UV stable clear lacquer..

Our bespoke door manufacturing service includes:

- Fully finished standard and non-standard door sizes
- Matching concealed lippings
- Incorporation of standard and bespoke vision panels
- Choice of vision panel bead styles
- Fitting of automatic threshold seals
- Further range of speciality veneer species, cuts and inlays
- Further range of laminate finishes
- Pre-mortising for locks or hinges

Performance – Fire

Our range of door and door sets, complete with factory fitted vision panels, have been independently tested and certified to the following fire performance.

- 44mm Solid Core – up to 30 minutes fire resistance
- 55mm Solid Core – up to 60 minutes fire resistance

To achieve full fire performance doors must be installed with all necessary intumescent materials and an approved self-closing device fitted.

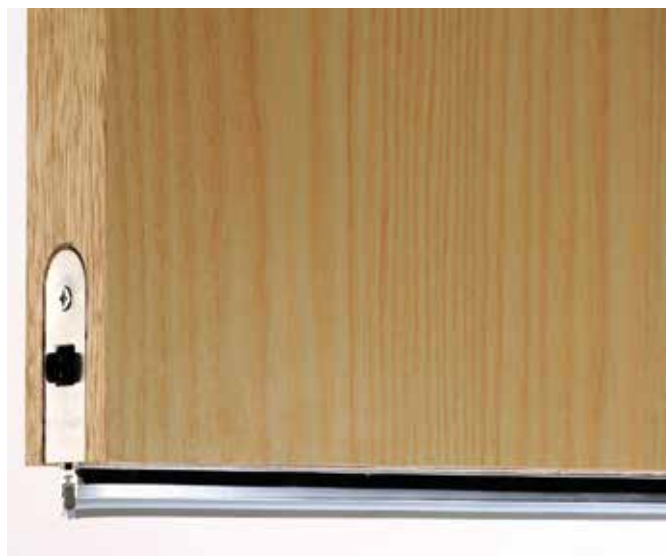
Performance – Acoustics

A range of acoustic door and door set options are available please contact our technical department for full details.

Our standard doors can achieve of sound reduction index of up to Rw 33dB when doors are fitted with appropriate perimeter and threshold seals.

Lippings

Our standard and bespoke doors are supplied with matching concealed lipping's as standard. All bespoke doors can be manufactured with concealed or exposed lippings. Where standard doors are re-sized they are supplied with exposed lippings.



Material Sourcing – FSC and PEFC

SAS International purchases all timber and wood based products from sources that have a commitment to supply material which originates from sources which offer either FSC (Forestry Stewardship Council) chain of custody, PEFC (Programme for the Endorsement of Forest Certification schemes) chain of custody or complies with the FSC standard for Non FSC-Certified Controlled wood.

It is our policy to avoid using any timber based materials that have been improperly harvested or derived from genetically modified trees, or from uncertified high conservation value old-growth forests.

As holders of both FSC and PEFC certification, with supply of the appropriate materials, we are able to provide full chain of custody if required. Please ensure you advise of any custody requirements when you purchase your doors or doorsets.





door finishes
standard veneers and laminates

finishes overview

Door finishes

Our range of standard veneer and laminate finishes can be found on the following pages. Our cellular core doors are available with standard veneer finishes while any veneer or laminate can be used with our solid core doors.

Paint Grade

As standard our paint grade doors are supplied 'flash primed' white ready for on-site finishing.

Veneer Finishes

Our standard range of stocked doors includes eight FSC / PEFC approved veneers, each veneer is finished with a three coat UV stable clear lacquer during manufacturing. The standard range includes:

Crown Ash	Crown American Cherry
Quarter Cut Sapele	Crown Maple
Crown Steamed Beech	Quarter Cut Koto
Crown Oak	Crown American Black Walnut

A further range of veneer species, cuts and bespoke inlays are available on request.

Doors are manufactured with concealed matching species veneers. For bespoke sizes doors can be re-sized we exposed lippings or manufactured to order with concealed lippings.

Wood Laminate Finishes

Our range of High Pressure Laminate wood finishes provide a hygienic, stain, wear and impact resistant finish. Our standard range includes:

Clear Maple	Natural Birch
Ivory Oak Cross	Finn Beech
Country Cherry	Elegant Oak
Macchiato Walnut	Ebony Oak Cross

Doors are manufactured with matching species concealed lippings. A range of further wood laminates is available on request.

Coloured Laminate Finishes

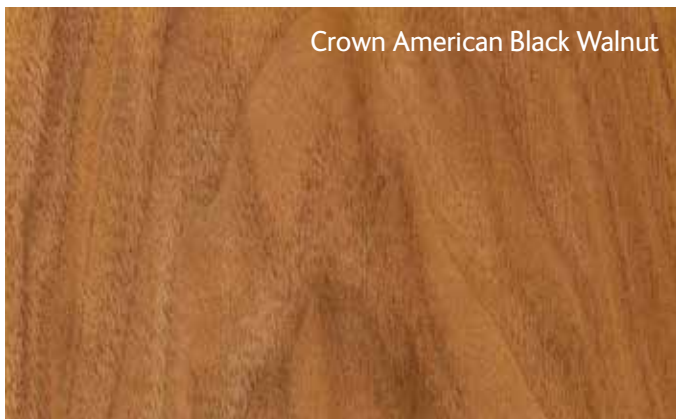
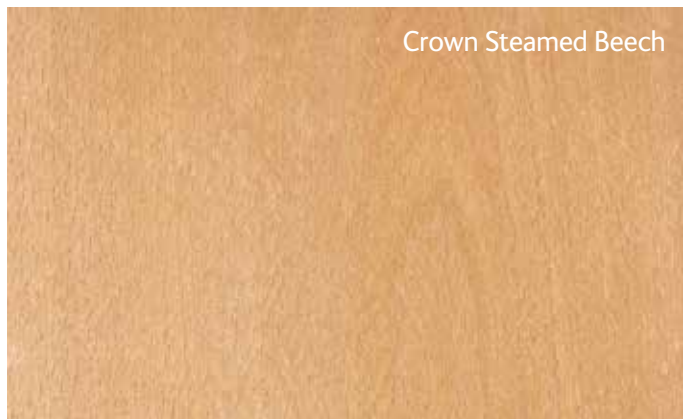
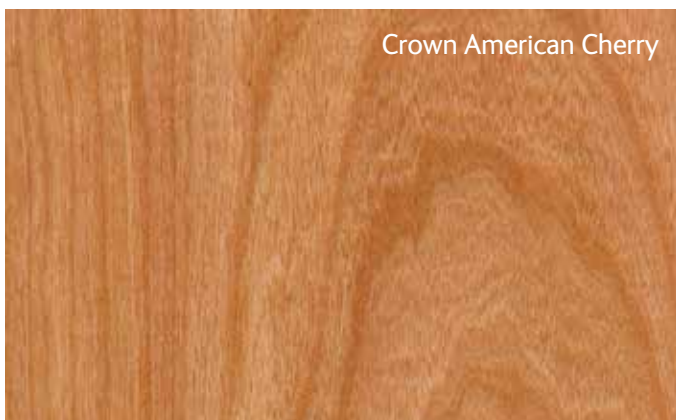
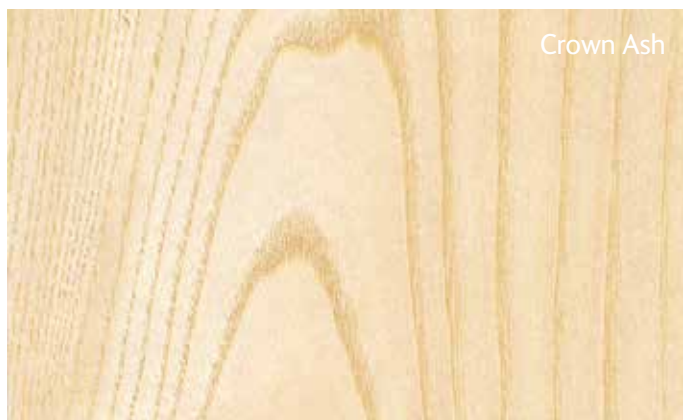
Our range of High Pressure Laminates finishes includes an extensive list of colours, our standard range of laminates includes the most popular colours including:

Polar White	Sno White
Folkstone	Fog
Ocean Grey	Graphite
China Blue	Spectrum Blue

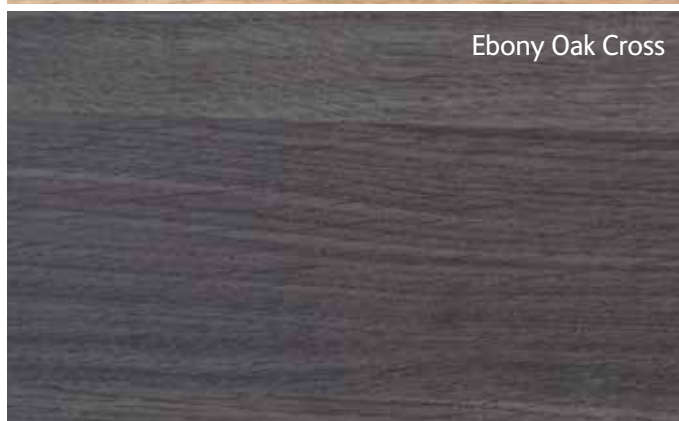
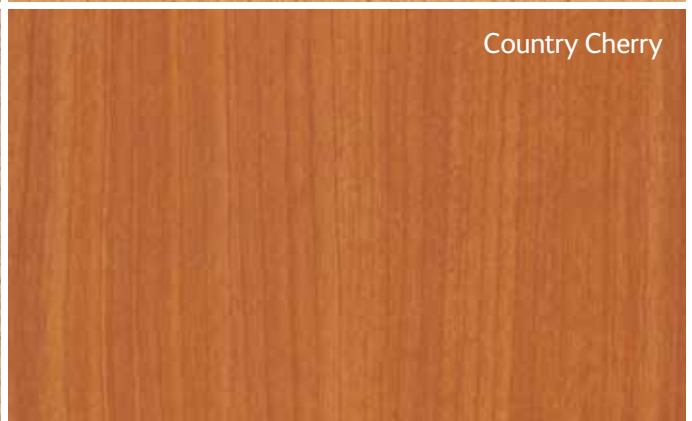
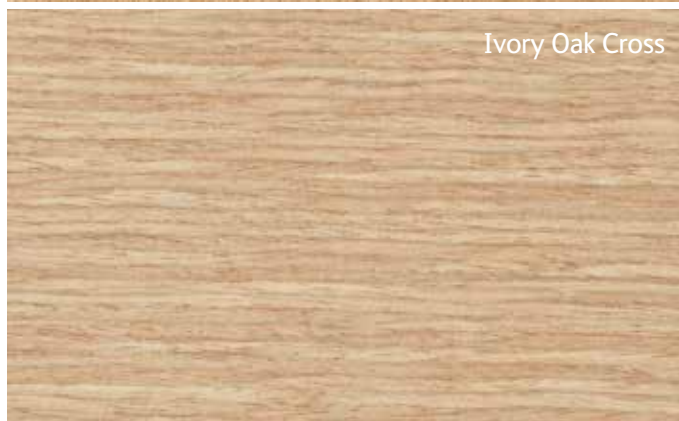
Doors can be manufactured with your choice of exposed or concealed lippings.



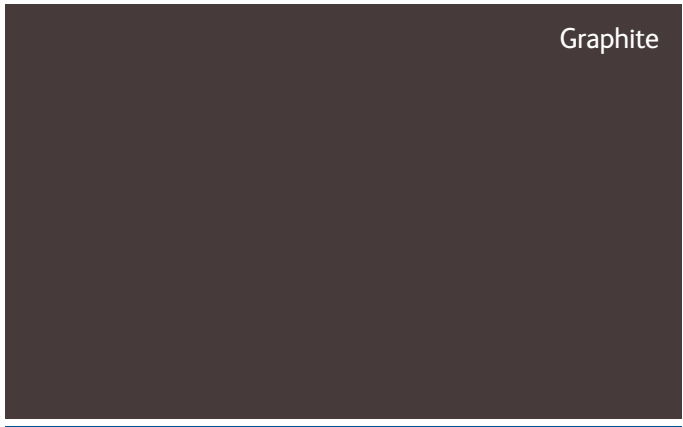
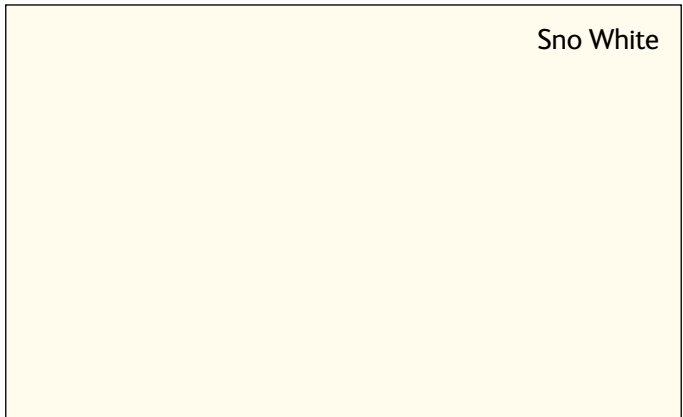
standard veneer finishes



standard laminate finishes



laminates finishes







vision panels
options

Vision Panels

All SAS doors can be supplied with vision panels, both non-fire and fire-rated. A range of eight standard vision panels are available including DDA / Part M compliant styles. Our bespoke doors offer further sizes and styles.

Vision panel options meet fire performance (30 minute or 60 minute fire resistance), if required. To ensure quality and performance standards, doors with fire resistant vision panels will only be supplied factory pre-glazed.

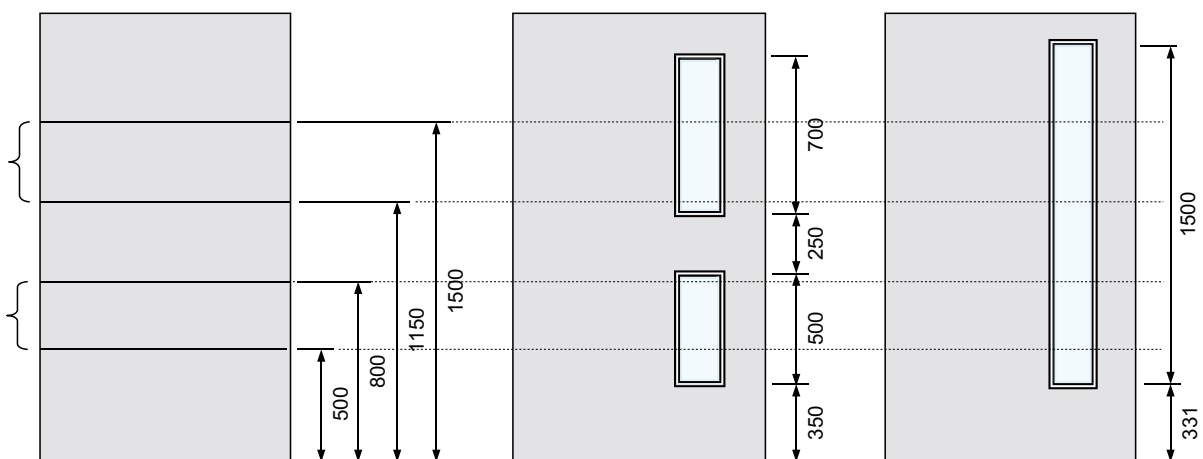
Vision panel beading is tested and approved to 60 minute fire resistance. Our standard offering is a matching hardwood bolection bead however other styles are available on request.

We offer a range of vision panel glass types, our standard range includes clear unwired non-fire rated and fire rated options along with traditional fire rated Georgian wire.

Please see details of our standard vision panels on the opposite page.



Approved Document M, vision panel requirements & solutions



Minimum zones of visibility

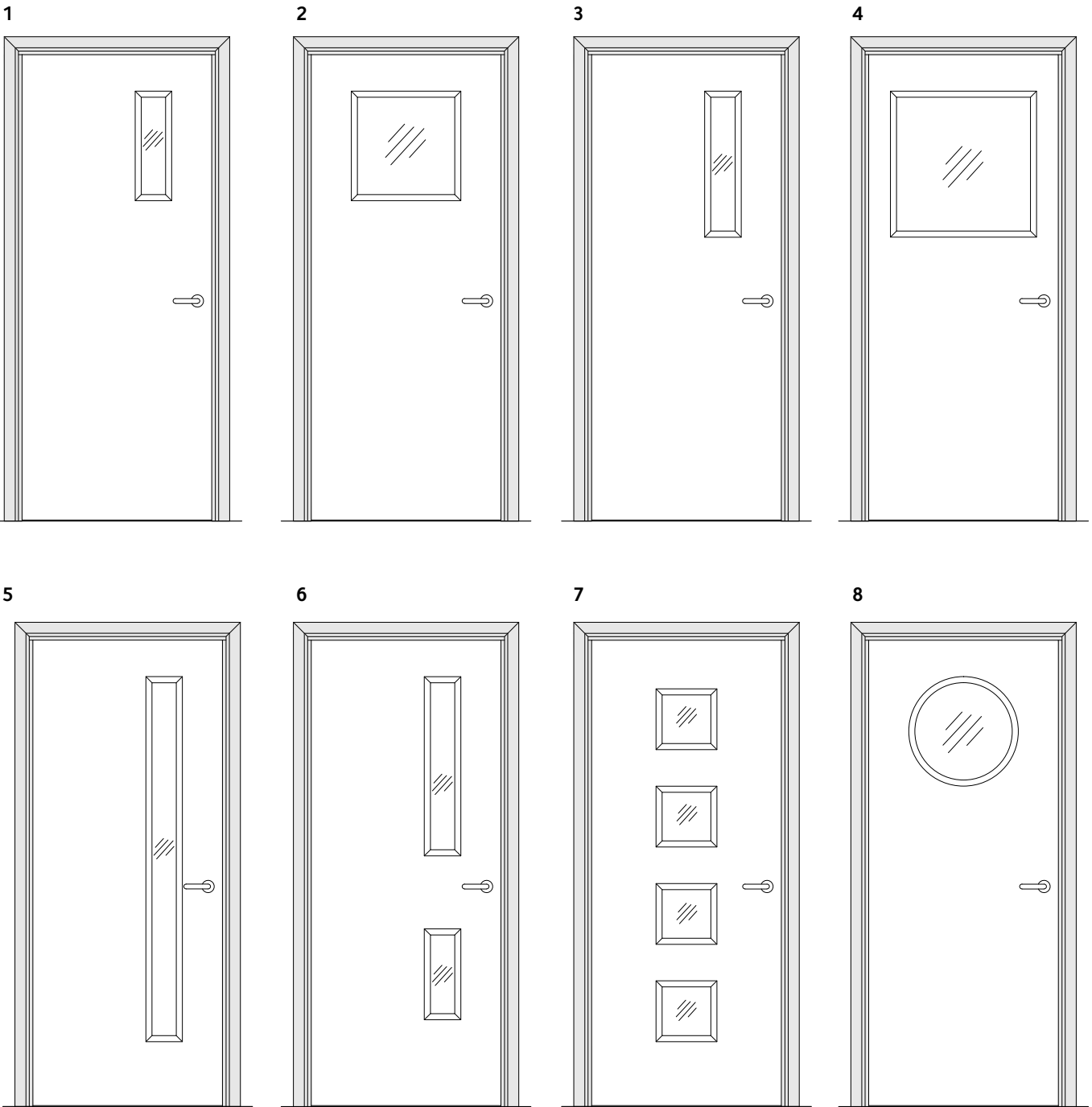
As it indicates, a single vision panel or two vision panels must include these zones. Width is not specified.

Two vision panels

700 x 150mm plus 500 x 150mm vision panels positioned to cover zones of visibility, this will allow use by all levels of ability.

One vision panel

1500 x 150mm vision panel positioned to cover both zones of visibility, this also will allow use by all levels of ability.



- 1) 450 x 150mm aperture, positioned 150mm down from top and 150mm from the edge
- 2) 450 x 450mm aperture, positioned 150mm down from top and centrally in the door leaf
- 3) 600 x 150mm aperture, positioned 150mm down from top and 150mm from the edge
- 4) 600 x 538mm aperture, positioned 150mm down from top and centrally in the door leaf
- 5) 1500 x 150mm aperture, positioned 150mm down from top and 150mm from the edge (Doc M / BS 8900:2009 compliant)
- 6) 700 x 150mm and 500 x 150mm apertures, positioned 150mm from the edge (Doc M / BS 8300:2009 compliant)
- 7) Multiple apertures where obstructed view does not exceed 350mm within visibility zone (BS 8300:2009 compliant)
- 8) 450mm diameter aperture, positioned 150mm down from top and centrally in the door leaf

vision panel beading

Vision panel beading is tested and approved to 60 minute fire resistance. Our standard offering is a matching hardwood bolection bead however other styles are available on request.

Part M of the Building Regulations 2004 (Access to and use of buildings) requires that all entrance doors and internal doors, where the door leaf or side panel is wider than 450mm (other than for reasons of security) include a vision panel. The vision panel should be installed towards the leading edge of the door, and its vertical dimensions should include the minimum zone or zones of visibility.

The provisions of Approved Document M include the following:

- Widths of access routes and doorways
- Visual contrasts between doors, door frames and the surrounding structure, and between door faces and door edges, which is defined by the document as a difference in light reflectance values exceeding 30 points
- All entrance doors and internal doors other than for reasons of security, where the door leaf or side panel is wider than 450mm, must include a vision panel. The vision panel should be installed towards the leading edge of the door, and its vertical dimensions should include the minimum zone or zones of visibility (see details)
- Limiting door opening forces allowing independent access through a building
- Ironmongery design, colours, sizes, positions and fixing methods.

Bespoke vision panel options can be accommodated, please contact the technical department for further details.



1) Standard Bead (shown in Oak)



2) 1/2 Hour Rated Bead (shown in Sapele)



3) 1 Hour Rated Bead (shown in Beech)

ironmongery
standard options



door handing

Door handing

Door handing needs to be specified for all single doors in excess of 838mm wide or in excess of 2040mm high where a third or fourth hinge is required.

Handing is required for all pairs of doors when the doors have rebated meeting edges, either vertically or horizontally (door and over panel sets).

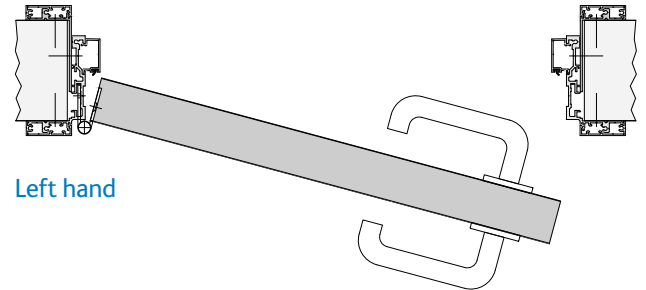
Ironmongery

A range of standard ironmongery sets can be found on the table overleaf. All door sets are supplied with hi-load lift off hinges and fitted with non-protruding ironmongery. Levers and /or handles are supplied loose for quick fixing on site.

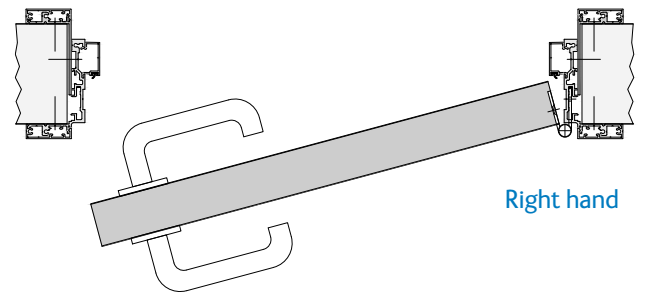
Standard sets include appropriate ironmongery for latched, locked and deadlocked doors, see images opposite. Alternatively ironmongery can be supplied with push plates and pull handles with deadlocks, if required.

Project specific architectural ironmongery can be specified for inclusion with XP door sets, please contact a member of our technical department for further information.

Door Handing



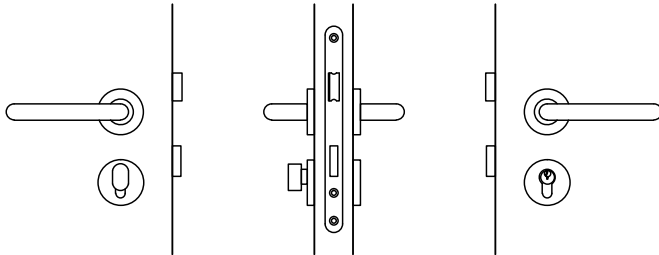
Left hand



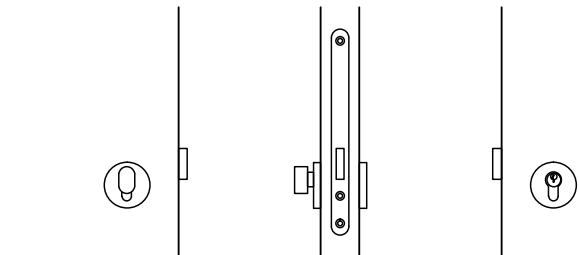
Right hand

Ironmongery Sets

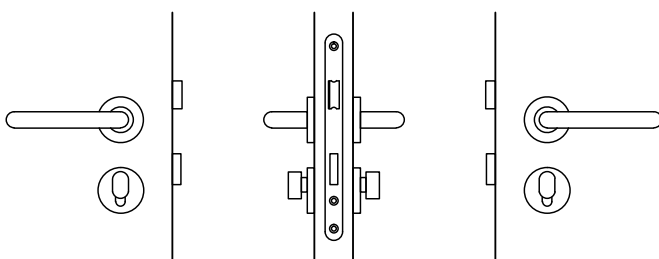
Sash Lock



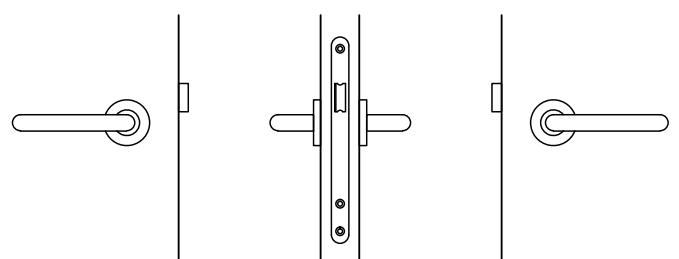
Dead Lock



Bathroom Lock



Latch



		75mm Latch	75mm Oval or Euro Sash-lock c/w key-and-turn Cylinder	75mm Oval or Euro Deadlock with Single Cylinder	19mm 'D' Levers with Roses and Escutcheons	Push Plate	300 x 19mm 'D' Pull Handle	Class 13 Hinges (No subject to door height)	Kick Plates	Door Stops	Door Closers	Flush Bolts (Pair)
Single Doors	Latched	•			•			•	□	1	□	
	Locked		•		•			•	□	1	□	
	Deadlocked			•			1	•	□	1	□	
	Push/Pull					1	1	•	□	1	1	
	Push/Pull –Cylinder Locked			•		1	1	•	□	1	1	
Double Doors	Latched	•			•			•	□	2	□	•
	Locked		•		•			•	□	2	□	•
	Deadlocked			•			2	•	□	2	□	•
	Push/ Pull					2	2	•	□	2	2	□
	Push/Pull –Cylinder Locked			•		2	2	•	□	2	2	•
Unequal Double Doors	Latched	•			•			•	□	2	□	•
	Locked		•		•			•	□	2	□	•
	Deadlocked			•			1	•	□	2	□	•
	Push/ Pull					1	1	•	□	2	1	□
	Push/Pull –Cylinder Locked			•		1	1	•	□	2	1	•

- Included with door set, all non-protruding ironmongery, locks, hi-load lift off hinges, kick plates and push plates are factory fitted. Levers and handles are supplied loose for site fitting.
- Optional extra, door closers are supplied loose for site fitting. All fire-rated door sets are supplied with door closers.



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02	SAS International White Tee Grid
03	SAS International White Joggled Tee Grid; SAS TRU-RT-150 Aluminium Trim, SAS Emac 5 Ceiling Channel
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32	SAS Emac C Stud
33	SAS Emac Wall Liner
37	SAS Emac Drywall
44	SAS System 8000 with SAS Frameless Glass Door, AEG O ₂ , London ©Philip Vile
45	SAS System 1000 Drywall+ with Pocket Glass Detail
46	SAS System 1000 Drywall+ Head Detail; SAS System 1000 Drywall+ Skirting Detail; SAS System 1000 Drywall+ Cutaway
51	SAS TRU-RT-150 Aluminium Reveal Trim
52	SAS F8121 Single Glazed Adaptor; SAS TRU-RT-150 Aluminium Reveal Trim; SAS TRU-SK-100 Aluminium Recessed Skirting Trim
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77	SAS PT3006 – System 3000 Wrap Around Square Glazing Section
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135	SAS System 8000 with SAS Flush Glazed Door, Shankhill Wellbeing and Treatment Centre, Belfast
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174	SAS System 7000 with SAS Wood Flush Door, Mercury House, Romford ©Philip Vile
175	SAS Wood Flush Door and Overpanel
176	Door Stock, SAS International, Apollo Park; Door Showroom, SAS International; SAS Wood Flush Doors with Overpanels
177	Door Production, SAS International, Apollo Park; Fire and Smoke Seals; Acoustic Drop Seal;
179	Door Production, SAS International, Apollo Park
180	SAS System 4000 with SAS Wood Flush Doors, Kingdom Street, London ©Philip Vile; SAS System 2000 with SAS Wood Flush Doors, St Pancras Hospital, London ©Philip Vile; SAS XP Frame with SAS Laminated Door ©Philip Vile
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186	SAS Wood Flush Doors, Queen Mary's University, London ©Philip Vile
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0 10 20 30 40 50mm



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