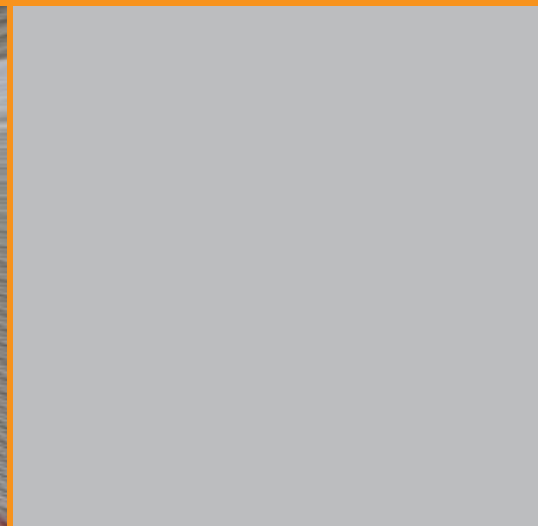


Uniclass		EPIC
L51		E2
Cl/SfB	(41)	X



Versatility though simplicity



#### Areas of use



#### Fire performance

- Solid modules - up to 60 min fire rating.
- Glazed modules - 30 min fire rated glazing.
- Door modules - Solid core doors can provide 30 min fire rating.

#### Acoustic performance

- Solid modules - standard construction - up to 51dB <sub>(RW)</sub>.
- Glazed modules - standard construction - up to 38dB <sub>(RW)</sub>.
- Door modules - standard solid core door - up to 30dB <sub>(RW)</sub>.

#### Construction Options

- Solid modules - standard construction from plasterboard faced with vinyl.
- Glazed modules - all elevation types incorporating centre single, offset single and double glazing and venetian blinds.
- Door modules - standard frames are fitted with 2040 x 826mm doors. Frames will also accept most door types including glass.

#### Max Construction Heights

- Solid modules - standard construction - up to 3600mm.
- Glazed modules - maximum recommended height using standard sections - 3000mm.

*For more information or advice on this system's performance please contact Tenon Ireland.*



## Versatility

**Tenon Finesse** is a fully demountable and re-locatable multi-purpose aluminium partition system that is simple and quick to install.

Finesse is based on a module width of 1200mm, offering the flexibility to allow changes in layout whilst minimizing wastage.

The options available, not only in construction methods but also with section, panel, door type and joint details, make it ideal for a variety of locations.

The system is constructed using aluminium channel and upright sections and galvanized steel framing sections, together with plastic glazing profiles. Solid construction is achieved with the use of plasterboard faced with a choice of vinyl wallcovering.

*All Finesse components are readily available throughout Ireland offering a practical partition system that combines fastrack construction with aesthetics and flexibility.*





## Flexibility

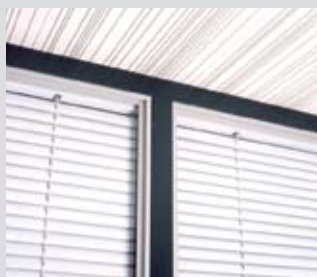
Solid Finesse is available as a 75mm or 100mm partition. One or two layers of the specified panels can be fitted to provide the level of fire, sound or structural performance required. Panel options include square edge plasterboard for use with a choice of trim sections, tapered edge boards to provide a monolithic finish or bevelled edge boards to create a feature joint. Panels can be supplied pre-decorated with a choice of wallcoverings or fabricated with laminate or steel facings.

Glazed Finesse is supplied with 75mm sections only accommodating single and double glazing and integral Venetian blinds where necessary.

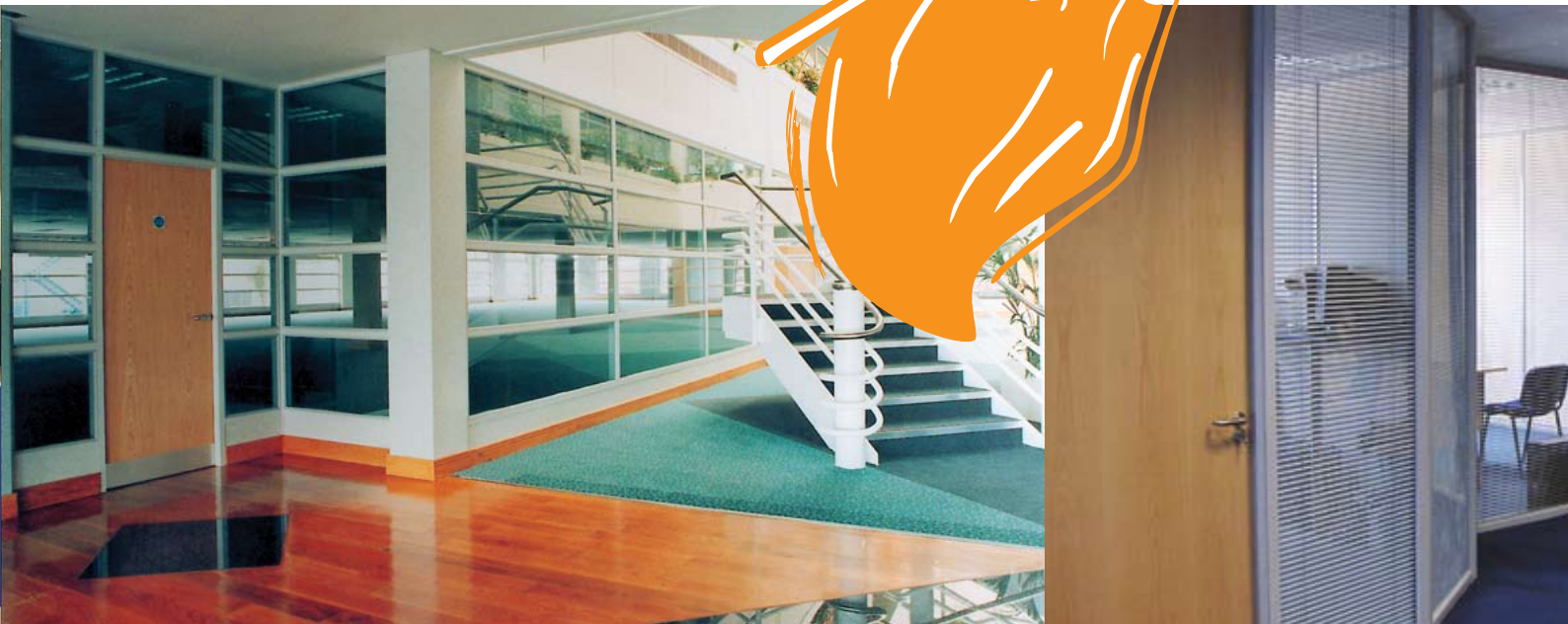
Standard module width for both solid and glazed construction is 1200mm with a maximum construction height of 3600mm.

Doors are available in natural wood finishes including White Oak, Ash, Cherry, Maple, Beech and can include a variety of vision panel shapes and sizes.

To compliment Finesse, the Tenon range of ironmongery offers a wide choice of door furniture and accessories.



*For more information or advice on this system's performance please contact Tenon Ireland.*



## Performance

75mm Finesse has been tested to BS476 part 22 and offers 30 minutes fire resistance in glazed, solid and door elevations. 100mm Finesse provides 60 minutes fire resistance in solid elevations only.

When acoustic performance is a consideration the system can provide sound attenuation values of up to 51dB<sub>(RW)</sub> under laboratory test conditions.

All aluminium profiles are available in a range of standard colours and may be powder coated in RAL or BS colours to match any corporate colour scheme.

*Finesse is durable and flexible in application. Designed for use in general office areas.*



Tenon Finesse is a demountable and re-locatable modular partition system that is ideal for general office areas. Quick and easy to install, it provides a cost effective solution for a wide range of locations and uses.

Clip fit conversion sections make Finesse compatible with both single and double glazed Tenon Crystal.

## Components

Finesse is constructed from a range of aluminium and galvanized steel sections that allow the use of a variety of plasterboard and panel types. Details of individual components and their functions can be found in the section guide on page 14 - 15.

## Size

Tenon Finesse is based on a standard module size of 1200mm with two partition thicknesses available: -

Partition Width	Stud Size	N° of Board Layers	Solid Construction	Glazed Construction
75mm	50mm	1 N°	Yes	Yes
100mm	50mm	2 N°	Yes	No

The system can be built up to a maximum height of 3600mm. Associated levels of performance are included in a table on page 15.

## Appearance

Aluminium profiles are supplied powder coated in a range of standard colours: -

RAL 1013 Oyster White	RAL 1015 Light Ivory
RAL 5003 Dark Sapphire Blue	RAL 5010 Gentian Blue
RAL 6005 Moss Green	RAL 7011 Iron Grey
RAL 7016 Anthracite Grey	RAL 7035 Pale Grey
RAL 9003 Signal White	RAL 9005 Jet Black
RAL 9006 Silver	RAL 9010 Pure White
BS: 00A05 Light Grey	BS: 00A01 Light Grey
BS: 08B15 Magnolia	

Standard RAL colours and BS4800 not included in the above list are available, however these may be subject to longer lead times.

Plastic glazing and cover trim sections are available in black, white or grey.

Plasterboard panels can be faced with paper and fabric backed vinyls or laminates from all leading manufacturers.

## Glazing

Glazing is carried out using a choice of plastic glazing chairs and beads for centre single and double glazing. Glass between a thickness of 6.0mm and 8.4mm may be accommodated within the system.



All glass fitted within the system should comply with Approved Document N of The Building Regulations 2000. Part N1 covers glazed areas of critical locations with regard to safety. This includes all full height partitions, half glazed partitions adjacent to doors and vision panels in doors. Part N2 covers manifestation of glazing in critical locations where people may collide with it.

Fire rating for single and double glazing is achieved with the use of a number of additional steel sections:-

Code	Profile	Description	Required for Single Glazing	Required for Double Glazing
FS710		48 x 18mm Steel Channel	Yes	No
FS730		15 x 19mm Steel Angle	Yes	Yes
FS735		15 x 9mm Steel Angle	Yes	Yes
FS741		75 x 16 Steel Channel	No	Yes

Only approved fire rated glass types may be used, a list of which is included on page 15.

## Venetian Blinds

Finesse has an internal void of 42mm and will accept standard 15mm and 25mm Venetian blinds in double glazed applications.

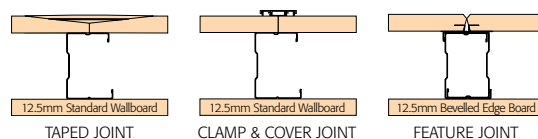
## Solid Panels

Finesse is based around the use of standard 12.5mm plasterboard, however it can accommodate a wide range of panels and boards that provide varying degrees of decorative choice, fire resistance, sound attenuation, impact and moisture resistance.

Laminated boards and other faced substrates can be fitted within the system and pre-decorated boards are available for fast track installation contracts.

## Joint/Trim Options

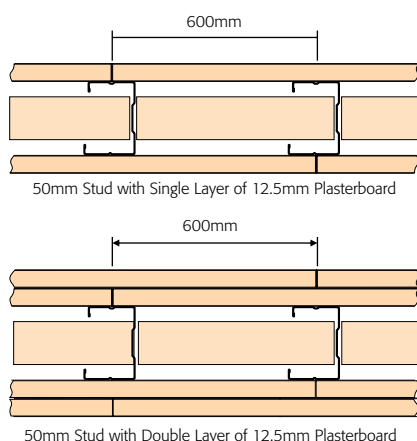
Finesse is available with a range of trim and joint options that allow for different methods of construction. The choice of trim/finish will depend on the chosen method and level of performance required.



All the above joints/trim options may be used in 30 minute fire rated partitions, with board joints staggered to achieve tested performance levels as shown overleaf.

## Construction

In order to achieve stated levels of fire and acoustic performance, board joints within partitions should be staggered as shown below.



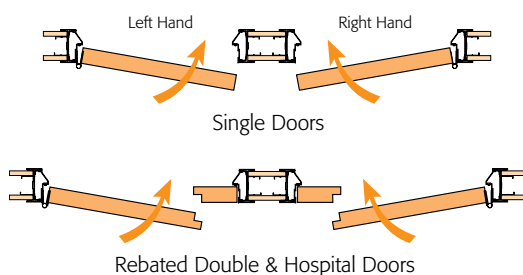
## Door Modules

Standard door frames are supplied as either universal frame packs or handed to suit left or right handed doors. Door frame sections are pre-notched and come with hinges, lock box and door seal.

Along with a suitably rated door and door closer, fire rated door frames require the following additional components: -

Code	Profile	Description	Frames with Solid Modules	Frames with Glazed Modules
FD560		16 x 2mm Intumescent Strip	Yes	Yes
FD570		55 x 6mm GRC Multiboard Strip	Yes	Yes
FD710		75 x 16mm Steel Channel	No	Yes

When ordering door frames to suit full height doors and doors with over panels, please specify the handing of the doors as shown below.



## Doors

Doors are available with veneered or laminate facings with a choice of hardwood or laminate lippings. Solid core doors are available in standard sizes in White Oak, Ash, Koto, Cherry, Maple and Beech veneers. Non standard sizes and veneers are available to order.

Glass doors may also be fitted within standard Finesse door frames and are complimented with a choice of hinge and closing options.

If non-standard frames are required and frames are not immediately available, then the partition may still be set out using the details for standard and full height frames which can be found on page 13.

## Joinery Services

The full range of Tenon joinery options is available including vision panels, re-lipping etc. For details of this and the range of ironmongery available, please refer to the Tenon Ireland Partitions Price Guide.

## Fire Performance

Tenon Finesse has been tested and assessed over a number of years and when installed in accordance with company instructions, can provide 30 minutes fire resistance to BS476 part 22, 1987. Test evidence and assessments allow us to offer 30 minutes fire rating on:

SOLID PANELS	Continuous runs of 12.5mm plasterboard (square edge, tapered edge, bevelled edge).
GLAZING	Single and double glazing modules using a suitably rated safety glass (integrity only).
DOORS	Single, double and hospital door sets including full height doors and doors and over panels.

When constructed to a thickness of 100mm Finesse can provide 60 minute fire rating on solid modules only. Full details of the capabilities of the systems are included in a fire performance table on page 15.

## Acoustic Performance

Tenon Finesse has been tested in accordance with BS2750 part 3, 1980: ISO 140/11 - 1978 and can achieve the following when installed in accordance with company instructions:

SOLID PANELS	Up to 51dB using suitable board material and insulation.
GLAZING	Up to 38dB in double glazing applications.
DOORS	Up to 30dB when using a suitable threshold seal.

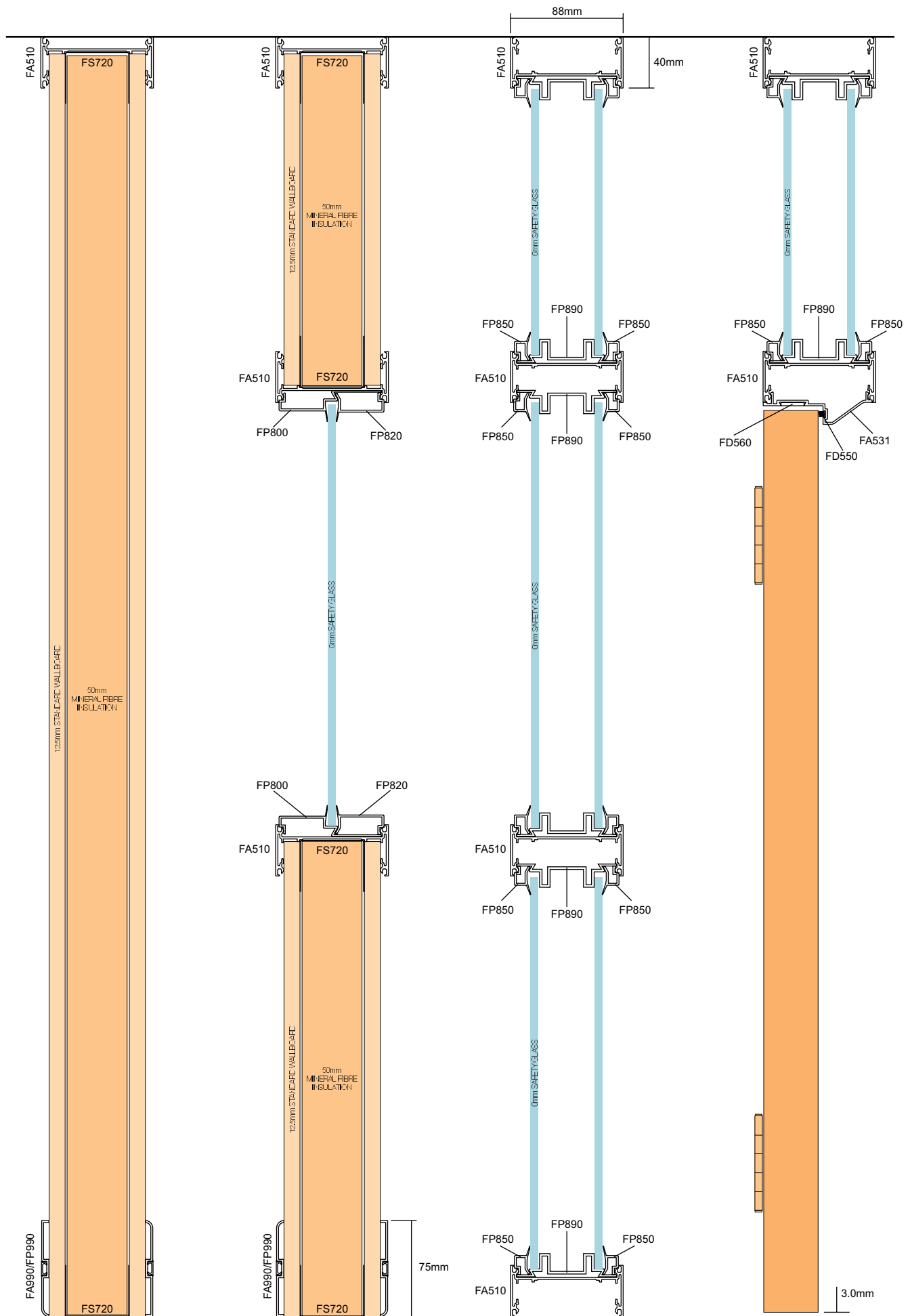
It should be remembered that the above levels of sound reduction were achieved under laboratory test conditions and that consideration must be given to factors affecting performance on site such as flanking transmission.

Full details of the capabilities of the systems are included in an acoustic performance table on page 15.

## Product Maintenance

All elements of the Finesse system can be cleaned using a solution of mild detergent in warm water and a soft cloth or sponge.

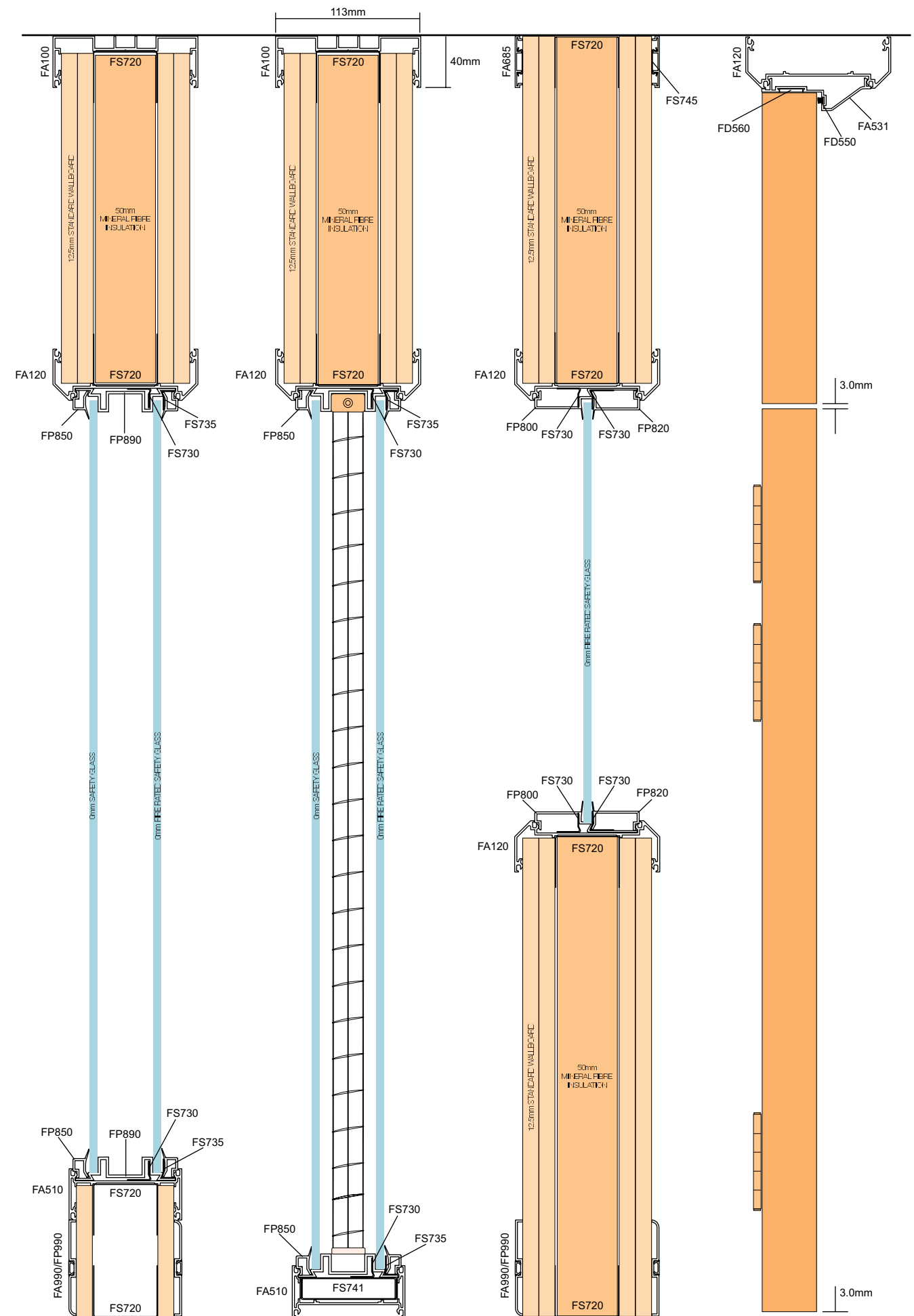
The frequency of cleaning depends on the environment that the partition is situated in and the level to which the surface has been soiled. Full product maintenance information and safety data sheets for all Tenon partition systems may be downloaded from [www.tenon.ie](http://www.tenon.ie).



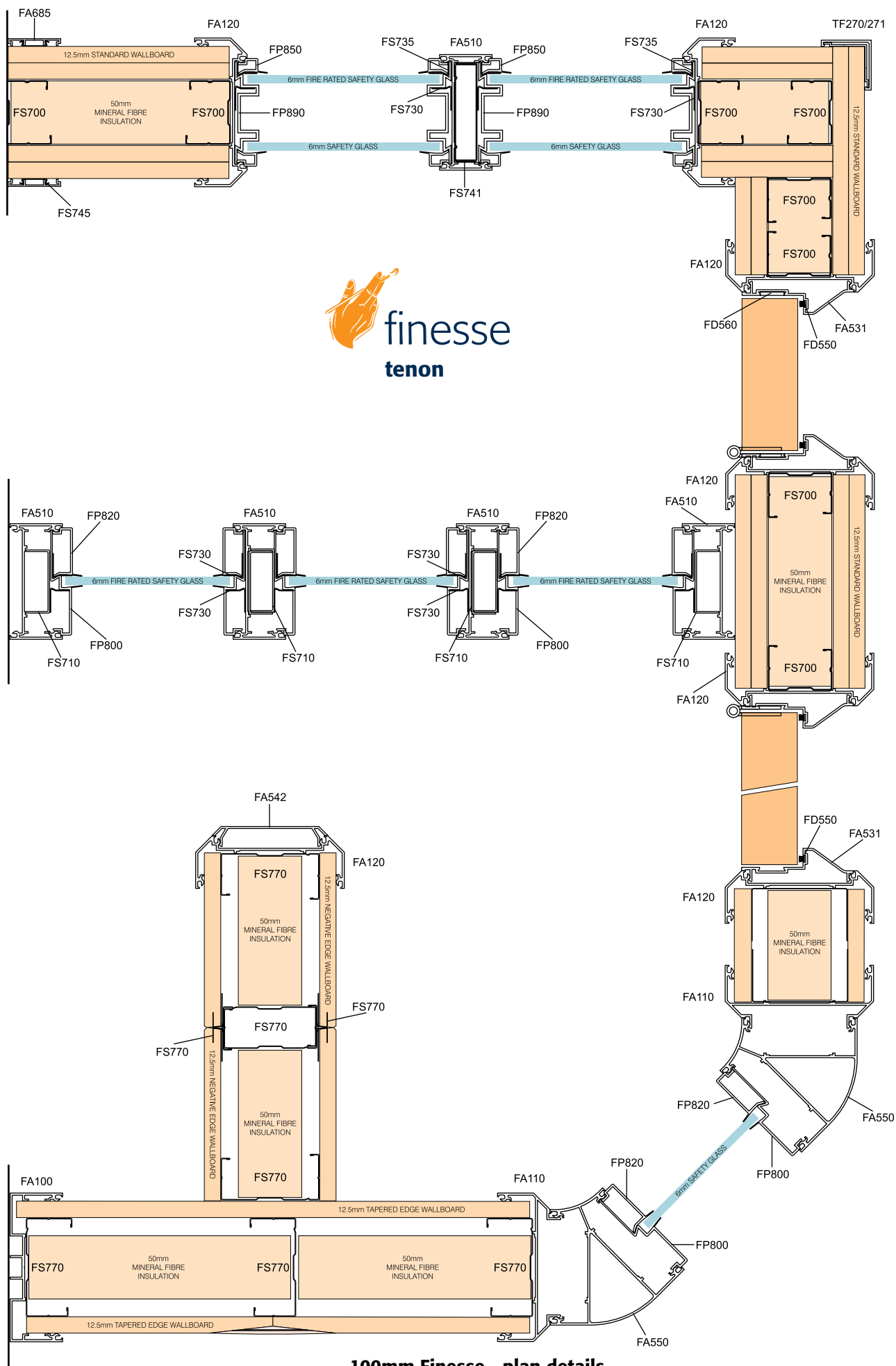
75mm Finesse - elevations





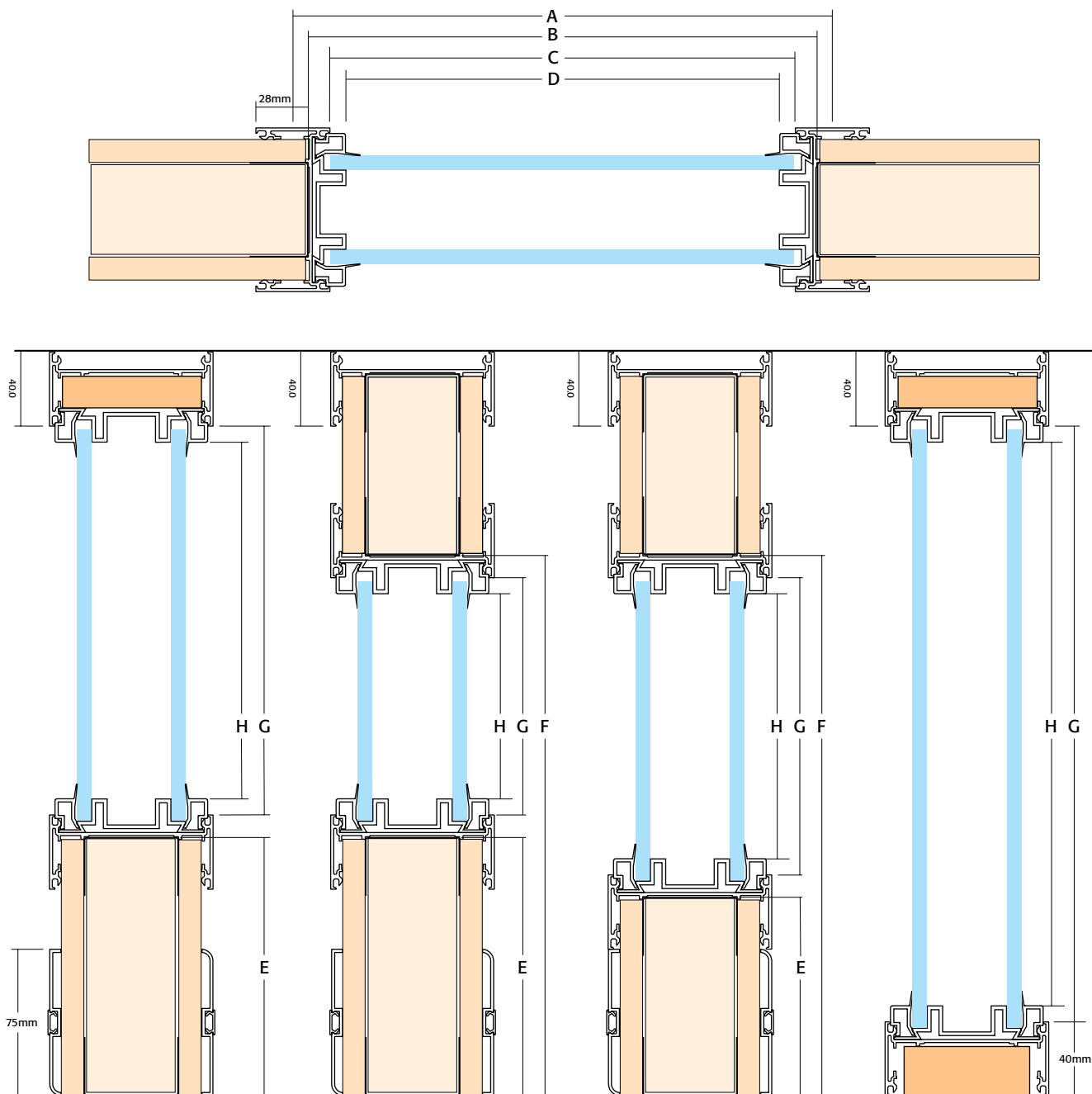




100mm Finesse - elevations



**100mm Finesse - plan details**

## glazing setting out details

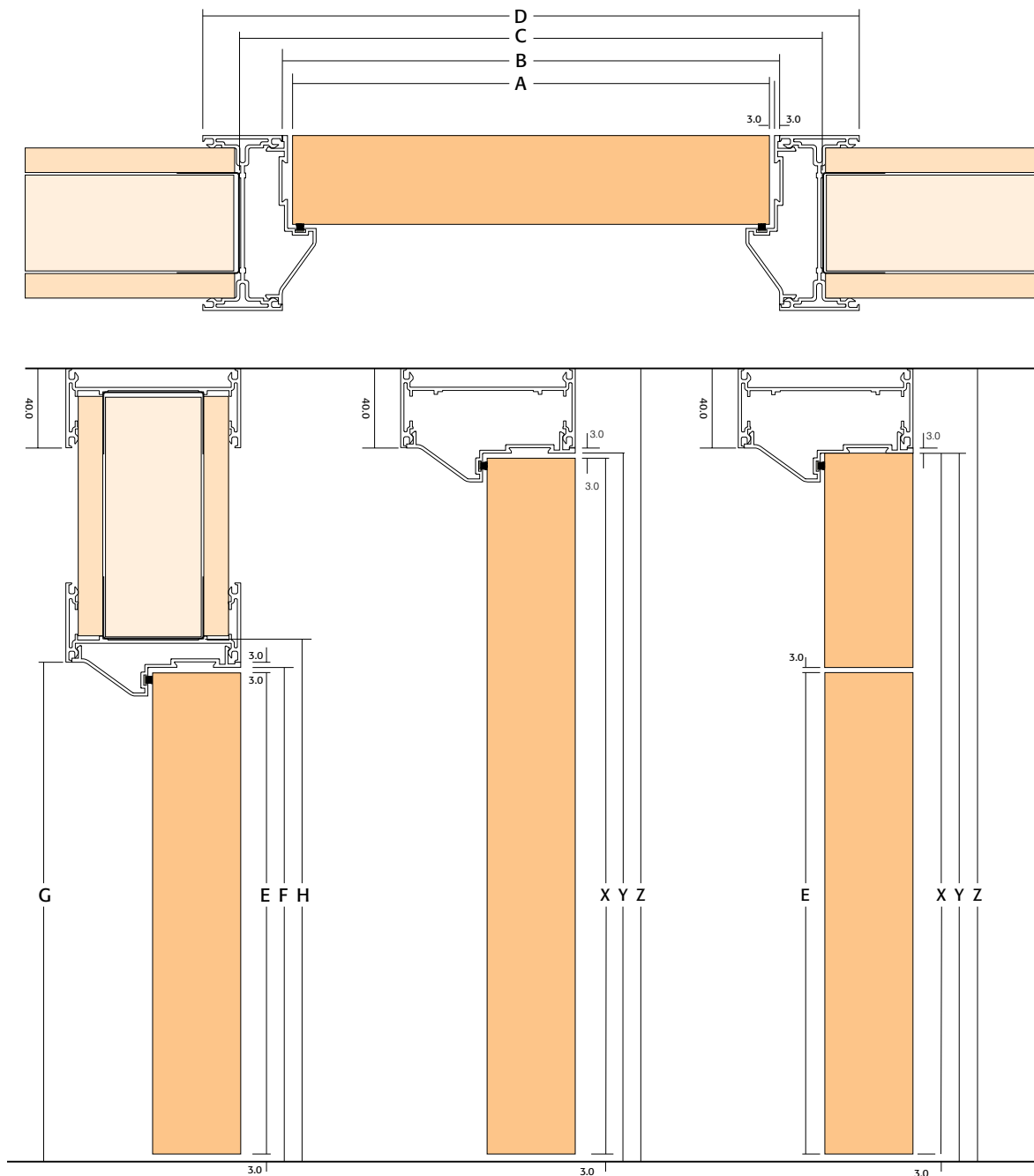



	WIDTH			HEIGHT						
	STANDARD	1.2m MODULE		HALF GLAZED*	HALF GLAZED**	MID GLAZED	MID GLAZED	GLAZED TO DOOR HEAD***	FULL HEIGHT CONSTRUCTED BASE	FULL HEIGHT WITH MAIN SECTION
				(1200 x 1200)	(1500 x 1200)	(800 x 1200)	(1000 x 1200)	(1900 x 300 nom)		
<b>DIM A</b>	1240mm	Dado Transom Height	<b>DIM E</b>	1208mm	1208mm	1208mm	1061mm	103mm	103mm	N/A
<b>DIM B</b>	Dim A - 56mm	Door Head Transom Height	<b>DIM F</b>	N/A	N/A	Door Height + 21mm	Door Height + 21mm	Door Height + 21mm	N/A	N/A
<b>DIM C</b>	Dim A - 80mm	Glass Aperture Dimension	<b>DIM G</b>	1140mm	1440mm	829mm	976mm	1934mm	Floor to Ceiling Height -155mm	Floor to Ceiling Height -80mm
<b>DIM D</b>	Dim A - 100mm	Blind Aperture Dimension	<b>DIM H</b>	1120mm	1420mm	809mm	956mm	1914mm	Floor to Ceiling Height -175mm	Floor to Ceiling Height -100mm


\*Assumes a floor to ceiling height of 2400mm - \*\*Assumes a floor to ceiling height of 2700mm - \*\*\*Assumes the use of 75mm skirting








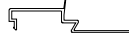










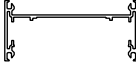








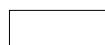





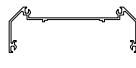






## door frame setting out details



	WIDTH			
	SINGLE		DOUBLE	
	METRIC DOOR	IMPERIAL DOOR	METRIC DOOR	IMPERIAL DOOR
<b>DIM A</b>	826mm	838mm	1654mm	1678mm
<b>DIM B</b>	Dim A + 12mm	Dim A + 12mm	Dim A + 15mm	Dim A + 15mm
<b>DIM C</b>	Dim A + 56mm	Dim A + 56mm	Dim A + 59mm	Dim A + 59mm
<b>DIM D</b>	Dim A + 92mm	Dim A + 92mm	Dim A + 95mm	Dim A + 95mm

	HEIGHT			
	SINGLE		FULL - O/P	
	METRIC DOOR	IMPERIAL DOOR	METRIC / IMPERIAL DOOR	
<b>DIM E</b>	2040mm	1981mm	<b>DIM X</b>	Dim Z - 49mm
<b>DIM F</b>	Dim E + 6mm	Dim E + 6mm	<b>DIM Y</b>	Dim Z - 46mm
<b>DIM G</b>	Dim E + 9mm	Dim E + 9mm	<b>DIM Z</b>	Floor to Ceiling Height
<b>DIM H</b>	Dim E + 21mm	Dim E + 21mm		

## Section details

	<b>FS700</b> 48mm GALVANISED STEEL STUD used for vertical framework, singularly or boxed for solid construction dependant on height and joint detail.		<b>FA990</b> 75mm REVERSIBLE CONCEALED FIX SKIRTING used at the base of the partition on both solid and glazed modules. Fixings are concealed with the use of plastic omega section (FP990).
	<b>FS720</b> 50mm GALVANISED STEEL CHANNEL used at head, wall and floor details and in vertical framework with main section (FA510) and strong post (FA500) for solid construction.		<b>FD570</b> 16 x 2mm INTUMESCENT STRIP intumescent strip for use in all fire rated door frames.
	<b>FS710</b> 48 x 18mm STEEL CHANNEL use with plastic glazing sections within aluminium glazing profiles to achieve 30 minute fire rating in single and double glazed applications.		<b>FP800</b> UPVC SINGLE GLAZING CHAIR used within all standard framing sections in conjunction with glazing bead section FP820. For use with 6.0mm and 6.4mm glass only.
	<b>FS730</b> STEEL GLAZING BEAD 15 x 19mm use with plastic glazing sections within aluminium glazing profiles to achieve 30 minute fire rating. Use in conjunction with (FS735) in double glazed applications.		<b>FP820</b> UPVC SINGLE GLAZING BEAD used in conjunction with glazing chair section FP800.
	<b>FS735</b> STEEL GLAZING BEAD 15 x 9mm use with plastic glazing sections within aluminium glazing profiles to achieve 30 minute fire rating in double glazed applications only.		<b>FP850</b> UPVC DOUBLE GLAZING BEAD used in conjunction with glazing chair section FP890.
	<b>FS741</b> 75 x 16mm STEEL CHANNEL use with plastic glazing sections within aluminium glazing profiles to achieve 30 minute fire rating in single and double glazed applications.		<b>FP890</b> UPVC DOUBLE GLAZING CHAIR used within all standard framing sections in conjunction with glazing bead section FP850. For use with 6.0mm and 6.4mm glass and Venetian blinds.
	<b>FS745</b> STEEL CLAMPING STRIP used to secure cover trims (FA685 / TF277 / TF278)		<b>FP990</b> UPVC OMEGA INFILL used within skirting section FA990 to conceal fixings.
	<b>FA500</b> 88mm STRONG POST aluminium section used primarily next to door frames however may be used both horizontally and vertically as general framework where necessary.		<b>TF270/271</b> ALUMINIUM 90° COVER TRIM & CLIP used to cover 90° external corner joints. Clip section fitted at 600mm centres.
	<b>FA510</b> 88mm MAIN SECTION reversible aluminium section used throughout the system as head channel, abutment, base section and main upright. Use with timber infill (FT200) with door frames (FA531) and in some glazing applications.		<b>TF277</b> ALUMINIUM 135° EXTERNAL CORNER TRIM used to cover 135° external corner joints with steel clamping strip (TF275).
	<b>FA531</b> DOOR FRAME aluminium clip fit door frame milled for and including one and half or two pairs of 100mm steel hinges, lockbox, door seal (FD550). Door frame pre-cut for use as either a right or left hand frame. Use with timber infill (FT200) when fitted into main section FA510.		<b>TF278</b> ALUMINIUM 135° INTERNAL CORNER TRIM used to cover 135° internal corner joints with steel clamping strip (TF275).
	<b>FA542</b> FLAT INFILL aluminium clip fit profile that fits into the open face of all main frame sections		<b>FT200</b> 55mm x 16mm TIMBER PACKER used with door frame profile FA531 and standard framing sections on the hinge side of door frames to provide a suitable housing for fixings.
	<b>FA544</b> ANGLED INFILL aluminium angled infill section for use with 'Y' post section (FA580) to create an alternative 90° corner post		<b>FT210</b> 55mm x 24mm TIMBER PACKER used with door frame profile FA531 and standard framing sections on the hinge side of door frames to provide a suitable housing for fixings.
	<b>FA550</b> ALUMINIUM RADIUS 135° CORNER POST used for 135° corner junctions, accepting a combination of glazing, solid or door modules. Use timber packer (FT210) when fitting door frame section (FA531) directly to the post. No additional trims are necessary.		<b>FT220</b> 65mm x 26mm TIMBER PACKER used with door frame profile FA531 and standard framing sections on the hinge side of door frames to provide a suitable housing for fixings.
	<b>FA560</b> ALUMINIUM RADIUS 90° CORNER POST used for 90° corner junctions, accepting a combination of glazing, solid or door modules. Use timber packer (FT210) when fitting door frame section (FA531) directly to the post. No additional trims are necessary.		<b>FA100</b> 100mm WALL SECTION aluminium section used throughout the system as head channel, abutment, base section and main upright in 100mm solid partitions.
	<b>FA570</b> ALUMINIUM BOXED THREE WAY POST used to create three way junctions, accepting any combination of glazing, solid or door modules. Use timber packer (FT210) when fitting door frame section (FA531) directly to the post. No additional trims are necessary.		<b>FA110</b> 100mm POST ADAPTER aluminium section used throughout the system where 75mm sections are incorporated within a 100mm partition.
	<b>FA580</b> ALUMINIUM 'Y' POST used to create three way 'Y' junctions, accepting any combination of glazing, solid or door modules. Use timber packer (FT210) when fitting door frame section (FA531) directly to the post. May be combined with angled infill section (FA544) to create an alternative 90° corner post.		<b>FA120</b> 100mm REDUCING SECTION used to reduce the partition width from 100mm to 75mm. Use in conjunction with (CGD100) glazing chair and gaskets (CGD110 / CGD190 / CGD194).
	<b>FA590</b> ALUMINIUM THREE WAY 'T' POST alternative three way junction post, accepting any combination of glazing, solid or door modules. Use timber packer (FT210) when fitting door frame section (FA531) directly to the post.		<b>CA660</b> 75mm SOLID REDUCING SECTION used where 75mm solid partitions meet Crystal single glazed modules. Use in conjunction with glazing gasket (CG110 / CG120).
	<b>FA685</b> ALUMINIUM JOINT COVER TRIM used to conceal board joints on solid modules both vertically and horizontally in conjunction with steel clamping strip (FS745).		<b>CA662</b> 100mm SOLID REDUCING SECTION used where 100mm solid partitions meet Crystal single glazed modules. Use in conjunction with glazing gasket (CG110 / CG120).
			<b>CA664</b> CRYSTAL / FINESSE CURVED ADAPTER SECTION clip fit section used with all main 75mm Finesse upright sections to convert to Crystal. Used in conjunction with glazing gasket (CG110 / CG120).
			<b>CA665</b> CRYSTAL / FINESSE FLUSH ADAPTER SECTION clip fit section used with all main 75mm Finesse upright sections to convert to Crystal. Used in conjunction with glazing gasket (CG110 / CG120).

## Fire Performance Summary

	SYSTEM	75mm Finesse	100mm Finesse	100mm Finesse
RATING	CONSTRUCTION	One layer of 12.5mm plasterboard fitted either side of Tenon 50mm stud with 50mm mineral fibre slab in cavity	One layer of 12.5mm plasterboard fitted either side of Tenon 70mm stud with 50mm mineral fibre slab in cavity	Two layers of 12.5mm plasterboard fitted either side of Tenon 50mm stud with 50mm mineral fibre slab in cavity
30 Minutes Integrity 30 Minutes Insulation	SOLID - FA685 Cover Trim	✓	✓	✓
	SOLID - Bevelled Joint	✓	✓	
	SOLID - Taped Joint	✓	✓	✓
60 Minutes Integrity 60 Minutes Insulation	SOLID - FA685 Cover Trim			✓
	SOLID - Taped Joint			✓
30 Minutes Integrity	GLAZED - Single Glazing	✓	✓	✓
	GLAZED - Double Glazing	✓	✓	✓
30 Minutes Integrity	DOOR - Single Door	✓	✓	✓
	DOOR - Double Door	✓	✓	✓
	DOOR - Hospital Door	✓	✓	✓
	DOOR - Full Height Door	✓	✓	✓
	DOOR - Full Height Door & O/P	✓	✓	✓

N.B. Fire rated glass types suitable for use in Finesse are: -  
6.0mm Pyran, 6.0mm Pyrocet, 6.0mm Fireswiss, 7.2mm Pyroguard, 7.0mm Pyrobelite, 6.0mm Pyroshield

## Acoustic Performance Summary

SOLID	BOARD TYPE	MM	INSULATION	MM/M <sup>3</sup>	dB <sub>(RW)</sub>
75mm Finesse	Single Skin Standard	12.5mm	N/A	N/A	34dB
	Single Skin Acoustic	12.5mm	N/A	N/A	37dB
	Single Skin Standard	12.5mm	Mineral Slab	50mm/45Kg	40dB
	Single Skin Acoustic	12.5mm	Mineral Slab	50mm/45Kg	43dB
100mm Finesse	Double Skin Standard	12.5mm	N/A	N/A	42dB
	Double Skin Acoustic	12.5mm	N/A	N/A	46dB
	Double Skin Standard	12.5mm	Mineral Slab	50mm/45Kg	49dB
	Double Skin Acoustic	12.5mm	Mineral Slab	50mm/45Kg	51dB
GLAZED	GLASS TYPE 1	MM	GLASS TYPE 2	MM	dB <sub>(RW)</sub>
75mm Finesse	Toughened	6mm	Toughened	6mm	33dB
	Standard Laminate	6.4mm	Toughened	6mm	34dB
	Standard Laminate	6.8mm	Toughened	6mm	35dB
	Acoustic Laminate	6.4mm	Toughened	6mm	38dB
DOOR	DOOR TYPE	MM			dB <sub>(RW)</sub>
75mm Finesse	Standard Solid Core	44mm			28dB*

N.B. The above performance levels were achieved under laboratory test conditions.

\*30db when fitted with an appropriate threshold seal.

Finesse is only one of the systems that forms the Tenon range. Other products in the range include:



scion



wall store



ovation



operable walls



crystal



washrooms



fire & sound



accessories



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