

tenon
PARTITIONS



fire & sound

A cost effective performer



fire & sound

tenon



fire & sound at a glance

BOARD
ROOMS

EXECUTIVE
OFFICE SUITES

CONFERENCE
SUITES

GENERAL
OFFICE

LIGHT
INDUSTRIAL

Areas of use



Fire performance

Solid modules - up to 60 minute fire rating.

Glazed modules - up to 60 minute fire rating in both centre single and double glazed applications.

Door modules - up to 60 minute fire rating.*

Acoustic performance

Solid modules - standard construction - up to 52dB (Rw).

Glazed modules - standard construction - up to 40dB (Rw).

Door modules - standard solid door core - up to 30dB (Rw).

Construction Options

Solid modules - standard construction is with 12.5mm plasterboard panels with a wide choice of finishes together with numerous joint and trim options.

Glazed modules - includes offset single, centre single, double glazing and the option of venetian blinds.

Door modules - standard frames are supplied to suit 1981 x 838 x 44mm doors. Frames will also accept most types of doors.

Max Construction Heights

Solid modules - standard construction - up to 4200mm. Heights in excess of this are achievable.

Glazed modules - maximum recommended height using standard sections - 3000mm.

* 60 minute rating on timber door sets only.



Versatility

Tenon Fire & Sound is a versatile, demountable and re-locatable partition system that provides up to one hour fire performance and high levels of sound reduction.

The variety of partition widths, stud, panel and joint / trim options make the system ideal for a wide range of uses, in both office and light industrial areas.

The system is constructed using an aluminium head channel and galvanised steel studs together with aluminium glazing and door frame sections. The 77mm system is available with single centre, single offset and double glazing. The 102mm system has single centre and double glazing options only.

One or two layers of the specified panel can be fitted to provide the level of fire, sound or structural performance required.

Tenon Fire & Sound is well established as one of the most popular performance partition systems available.



All Fire & Sound components are readily available throughout the UK, offering a system that gives a high degree of choice in design options, coupled with high performance and aesthetics.

Flexibility

Panel options include plasterboard with bevelled or negative edges to create feature joints, square edge boards for use with the suite of trim sections or tapered edge boards for flush monolithic finish. Panels can be supplied pre-decorated with a choice of wallcoverings or fabricated with laminate or steel facings.

Standard module size is 1200mm. Maximum construction height is determined by the choice of stud size and panel type, however, 102mm Fire & Sound can be built up to a height of 4200mm.

Venetian blinds can be accommodated within the system, as can a range of electrical switches with the use of a cable management post.

Solid core doors are available in natural wood finishes, including Ash, Koto, Oak, Cherry, Beech, Maple and Sapele. All doors can include any shape or size of vision panel or lipping.



Adaptability

77mm Fire & Sound is available with enhanced styling and features:

- » Radius junction posts and door frame profiles
- » Top hat and radius omega trim sections
- » Omega concealed fix skirting
- » Radius single offset and double glazing
- » Switch post and radius end capping section

The 102mm system can also be supplied with radius door frame, trim and double glazing sections.

Fire & Sound has been tested to BS476 part 22 and offers up to **60 minutes fire resistance** in full height glazed, solid and door elevations. Insulation performance is available on both solid and glazed elevations. Where acoustic performance is a consideration, the system can provide **sound attenuation values of up to 52dB(Rw)** under laboratory test conditions.

To complement Tenon Fire & Sound, the Tenon range of ironmongery offers a wide choice of door furniture in a variety of finishes.





Construction details are similar for both 77mm and 102mm systems, with the variety of stud, panel and joint / trim options making it suitable for a wide range of locations and uses.

Components

Fire & Sound is constructed from a range of aluminium and galvanised 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 Fire & Sound is based on a standard module width of 1200mm with the two partition thicknesses providing three options of construction:

Overall Width	Stud Size	No of Board Layers
77mm	50mm	One
102mm	50mm	Two
102mm	75mm	One

Maximum construction heights and associated levels of performance are contained within a table on page 15.

Appearance

Aluminium profiles are supplied from stock in a silver anodised finish, Grade AA5, but may be powder coated in a range of seventeen standard colours:

RAL 5003 Dark Sapphire Blue	RAL 9006 Silver
RAL 5010 Gentian Blue	RAL 9010 Pure White
RAL 5012 Light Blue	RAL9016 Traffic White
RAL 5014 Pigeon Blue	BS:00 A 01 Ash Grey
RAL 6005 Moss Green	BS:00 A 05 Goose Grey
RAL 7011 Iron Grey	BS:04 E 53 Poppy Red
RAL 7016 Anthracite Grey	BS:08 B 15 Magnolia
RAL 7035 Pale Grey	BS:08 B 29 Van Dyke Brown
RAL 9005 Jet Black	

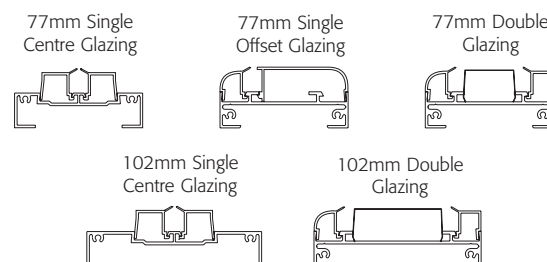
Standard BS 4800 and RAL colours not included in the above list are available. However, these may be subject to longer lead times and additional cost.

Plastic glazing and cover trim sections are available in black, white or grey and can be painted to match or contrast office colour schemes.

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

Glazing

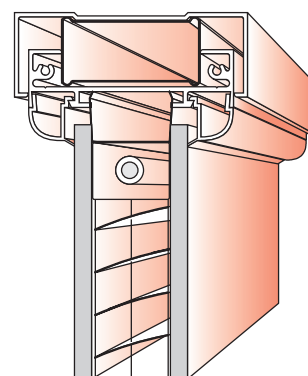
Glazing is achieved by the use of aluminium sections that are fixed to the steel sub-frame and are available with a choice of plastic glazing beads. The following types of glazing are available within the system: With the use of standard components, glass with a thickness of between 6/7mm may be specified. However, other thicknesses of glass can be accommodated within the system. Fire rating



for centre single and double glazing is achieved with the use of a number of additional steel beads and liners. However, only approved glass types may be used. Single offset glazing is available as non-fire rated only

Aluminium glazing profiles have screw-ports that allow frames to be assembled prior to installation. Where accurate site dimensions are available, frames can be supplied pre-cut in pack form complete with glazing beads. Setting out dimensions and glazing apertures can be calculated using the information shown on page 12.

All glass fitted within the system should comply with BS 6262 and Approved Document N of The Building Regulations 1992. 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.



Venetian Blinds

77mm and 102mm Fire & Sound has a minimum internal void of 29mm and will accept both 15mm and 25mm blinds in double glazed and single offset glazed applications.

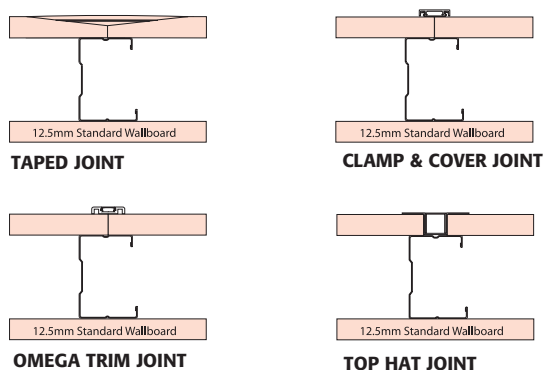
Solid Panels

Fire & Sound 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

The system 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 the level of performance required.



All of the above joint / trim options, except the Top Hat Joint, can be used in 30 minute fire rated partitions.

Door Modules

Standard doorframes are supplied as universal frame packs (i.e. left or right handed), with a choice of frame profile (see below), and come pre-mitred complete with pre-cut steel transom, factory fitted hinges and Tenon lock box and door seal. The door seal has been tested as a smoke seal and complies with the requirements of BS 476 part 31.1.

Fire rated frames do not require a steel liner, but the inclusion of intumescent strip (TF260) within the frame and the use of a suitably rated door closer are necessary to achieve stated performance levels.

When ordering door frames to suit full height doors and doors with over panels, please specify the handing of the door. 60 minute fire rated door assemblies are supplied with hardwood frames.



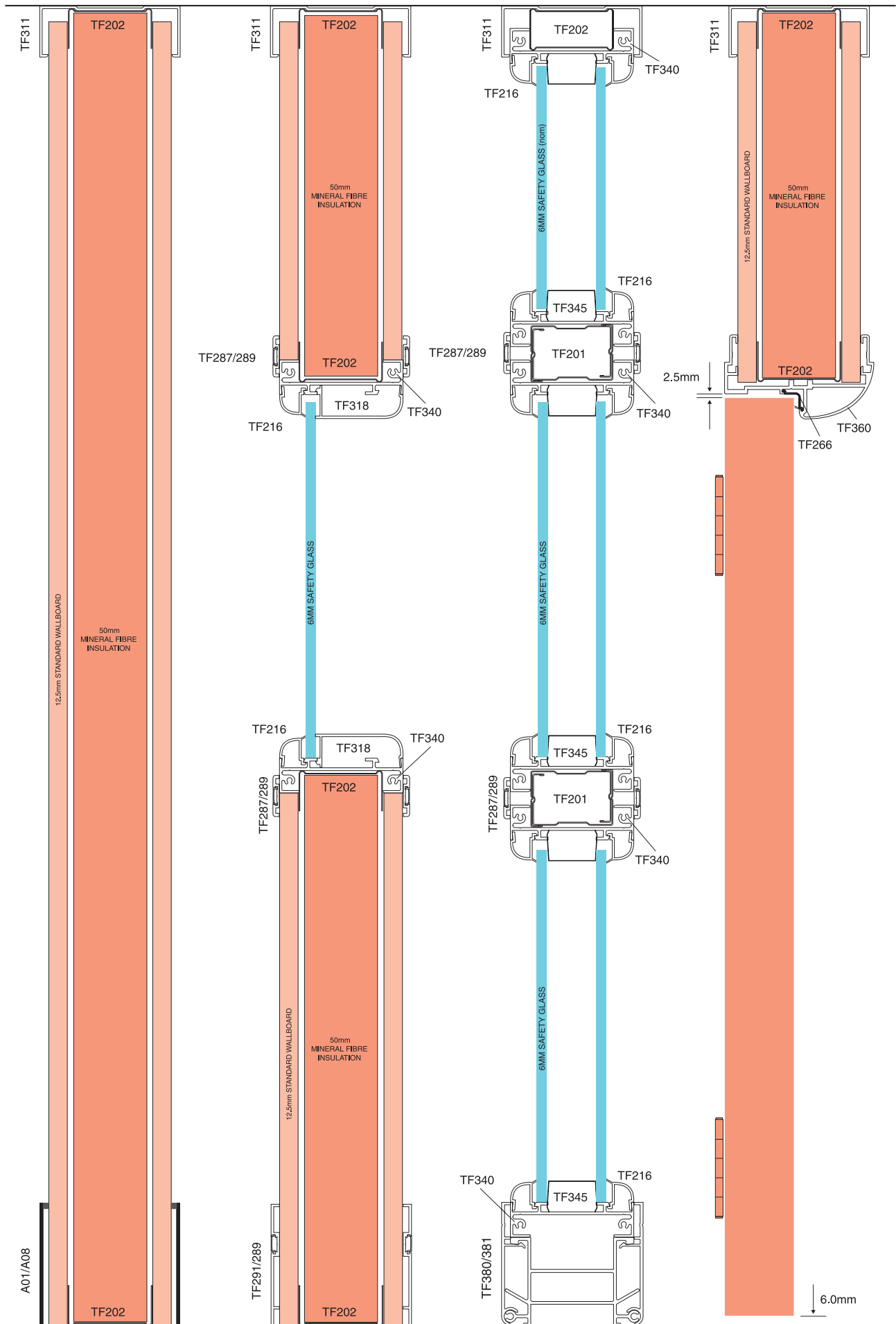
Doors

Doors are available with veneered or laminate facings with a choice of hardwood or laminate lippings. Both cellular core and solid core doors can be supplied in standard sizes in Sapele, Cherry, Oak, Ash, Koto, Maple and Beech veneers as standard. Non-standard sizes and veneers are available to order. Please contact your nearest CPD branch with your requirements.

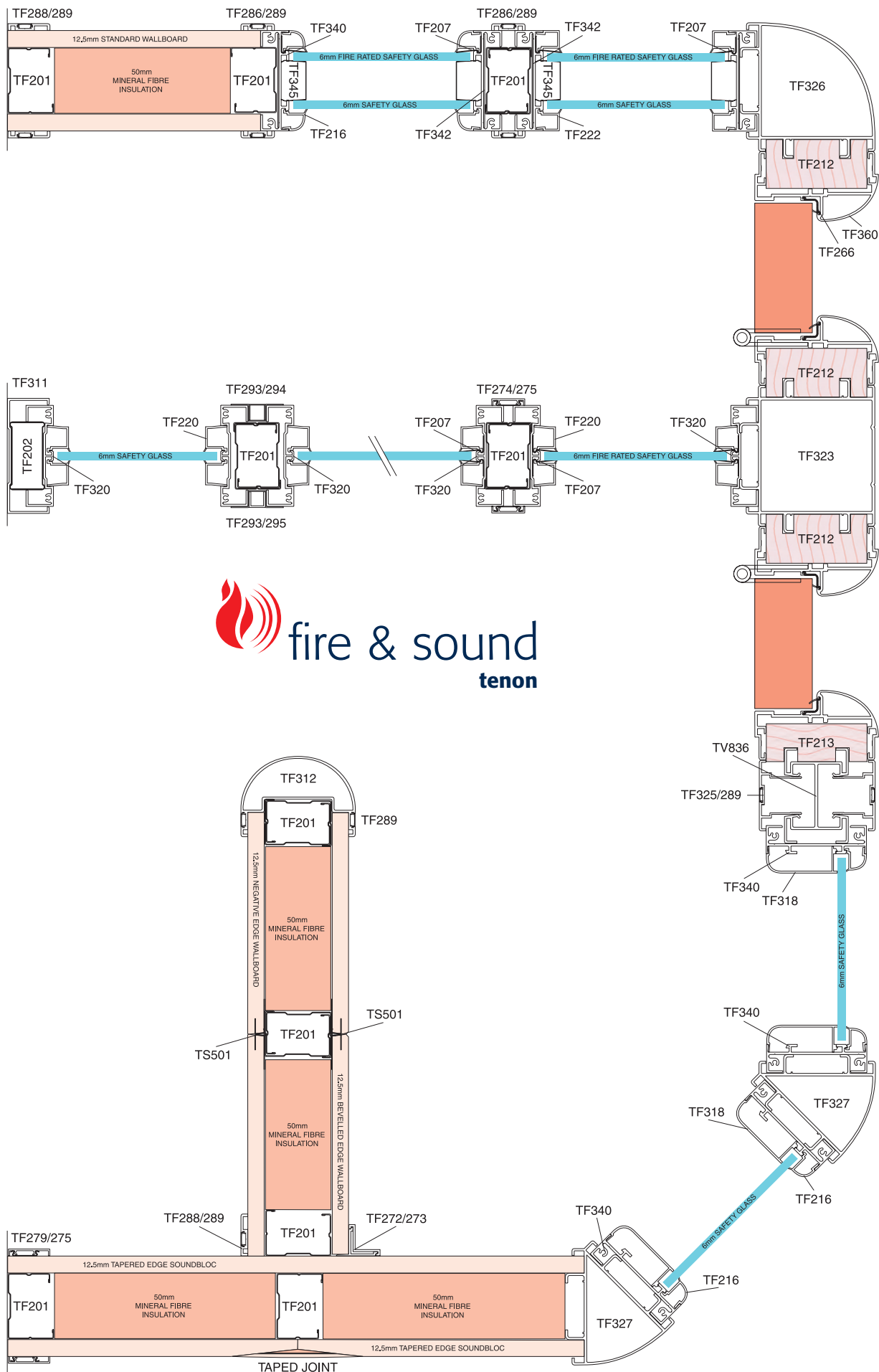
The full range of Tenon joinery options is available including vision panels, relipping etc. For details of the range of ironmongery available to complement the Tenon range please refer to the latest Tenon Partition price guide.

Product Maintenance

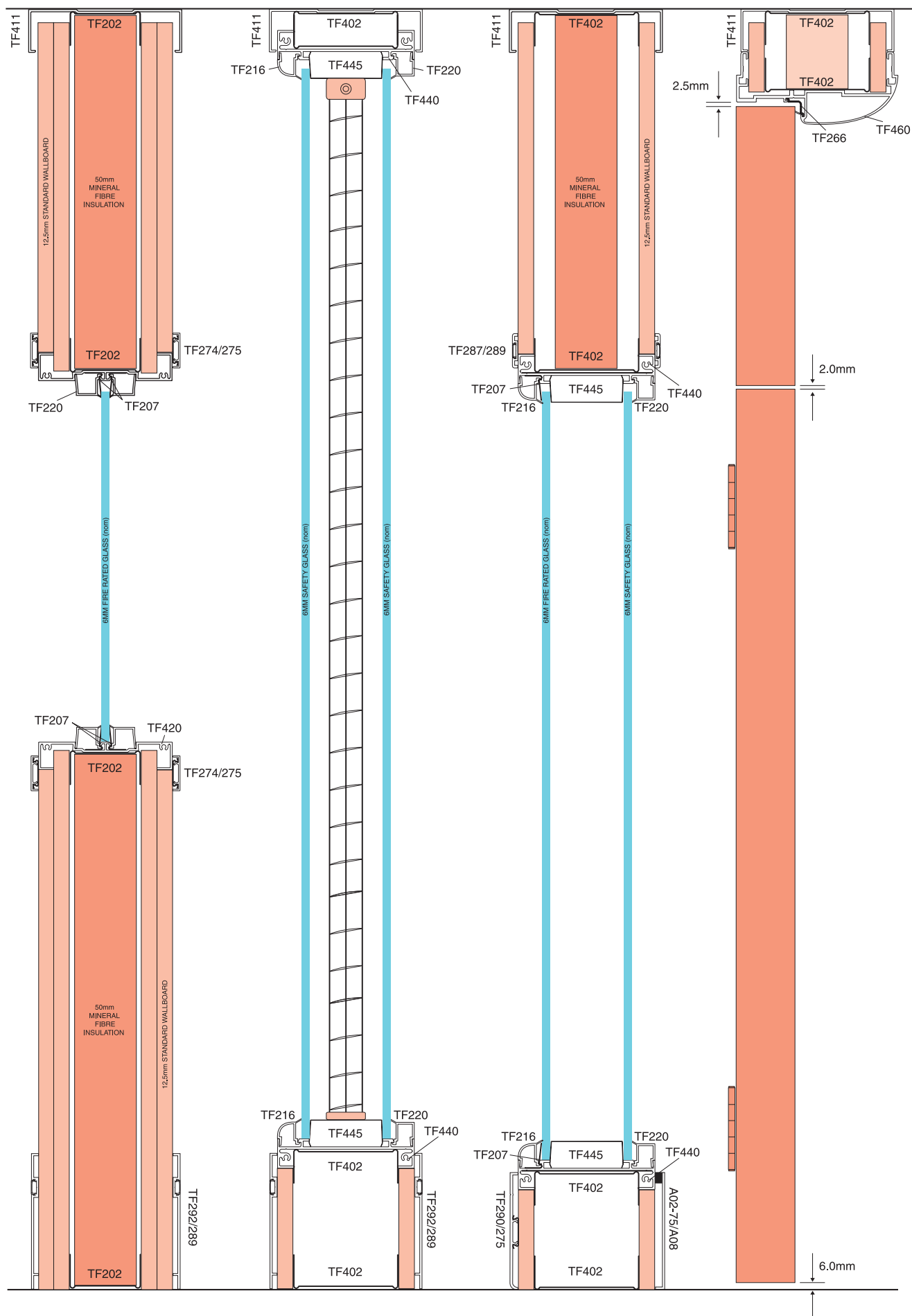
All elements of the Fire & Sound system can be cleaned using a solution of mild detergent in warm water and a soft cloth or sponge. The frequency of cleaning will depend on the environment the partition is situated in and the level to which the surface has been soiled. Full product maintenance details and COSHH data sheets are downloadable from www.tenonpartitions.co.uk



77mm Fire & Sound - Elevations

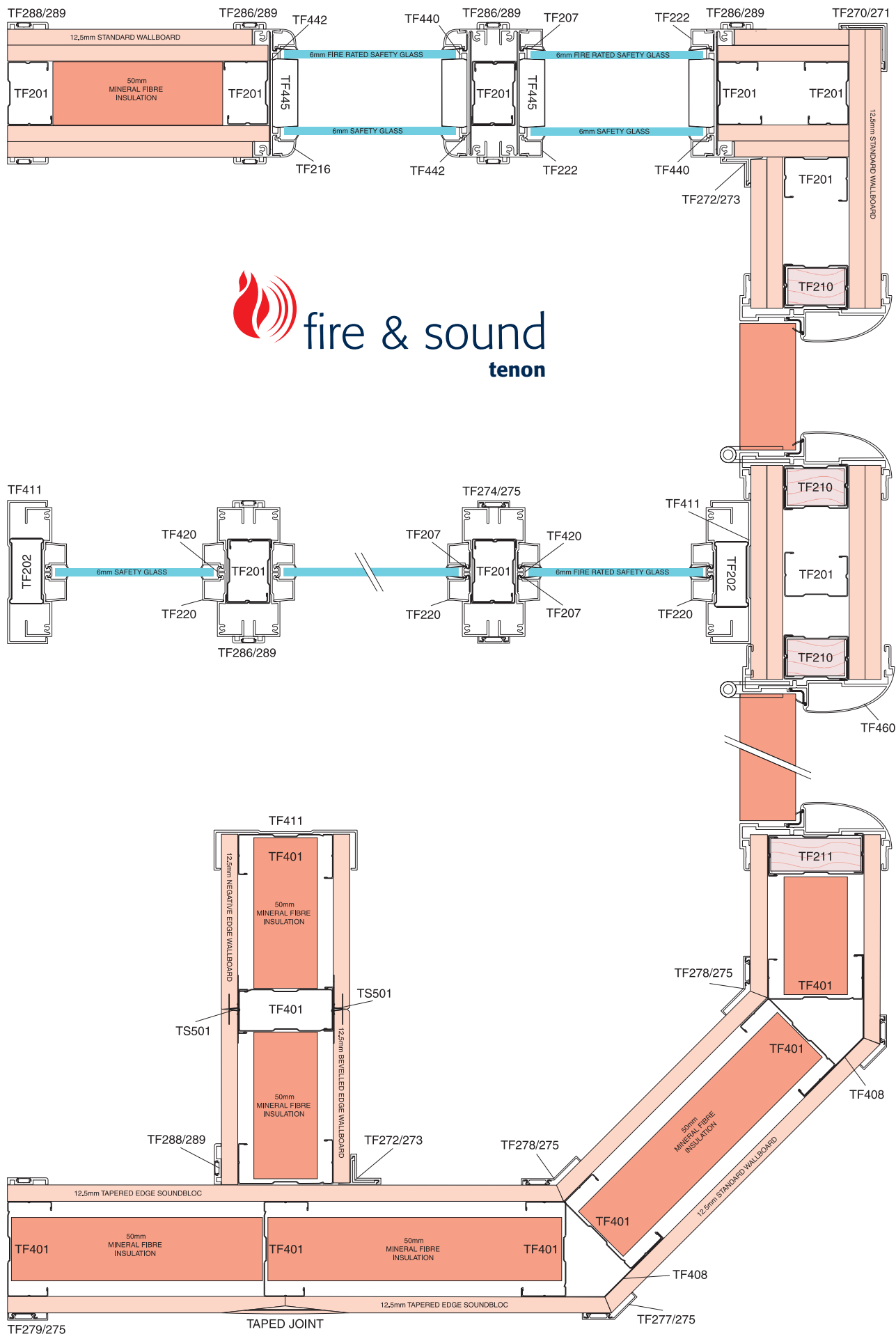


77mm Fire & Sound - Plan Details

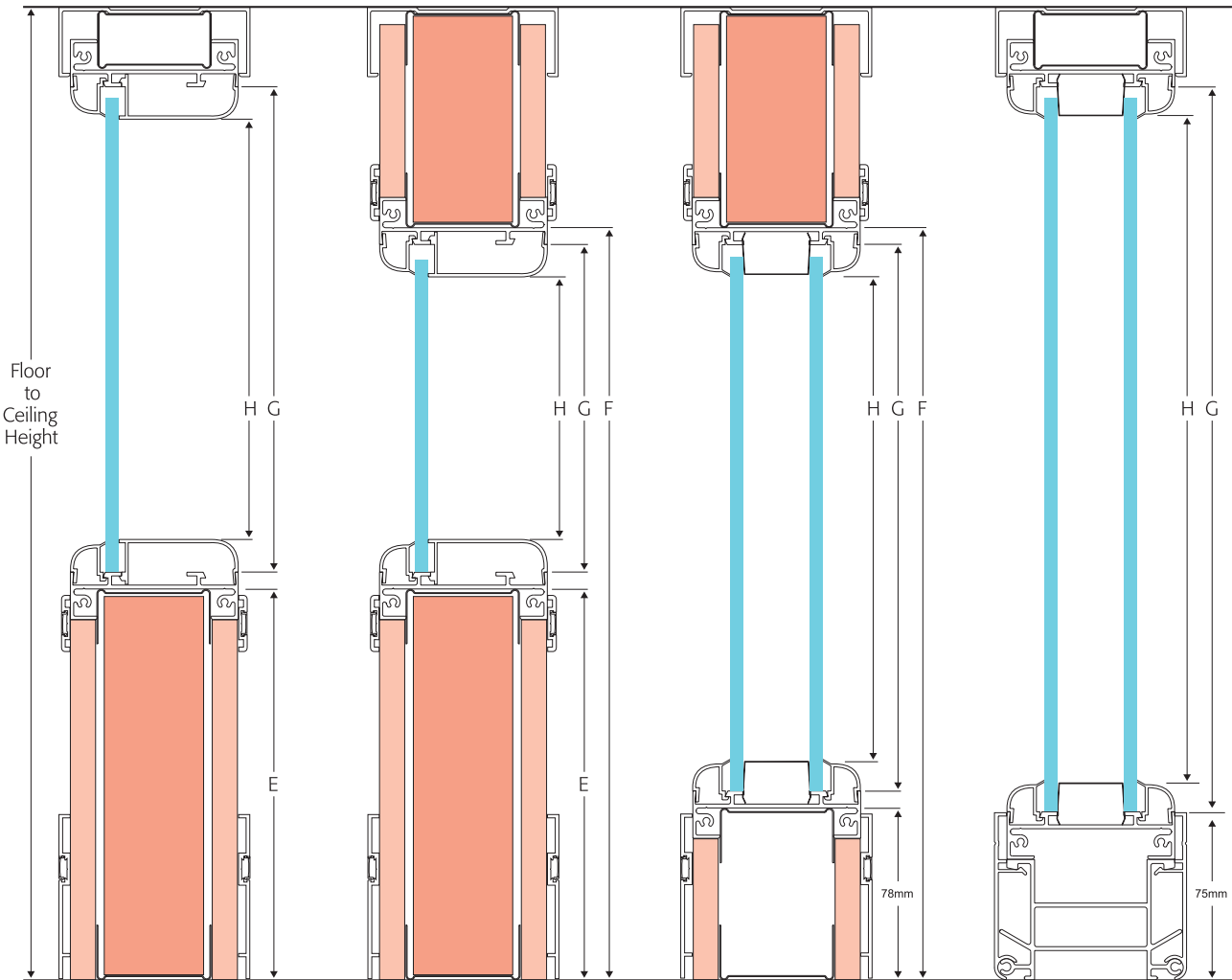
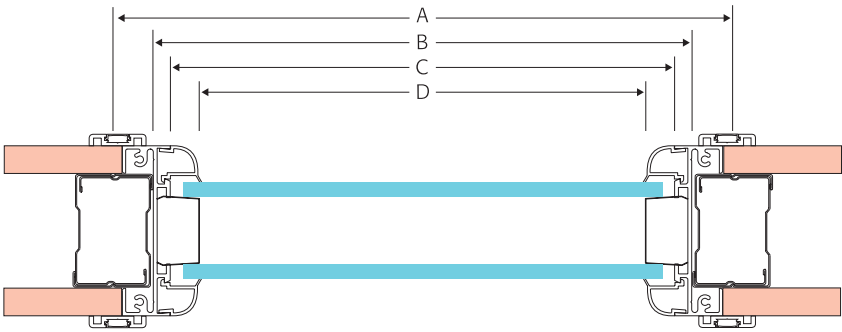


102mm Fire & Sound - Elevations

A cost effective performer



Glazed Modules



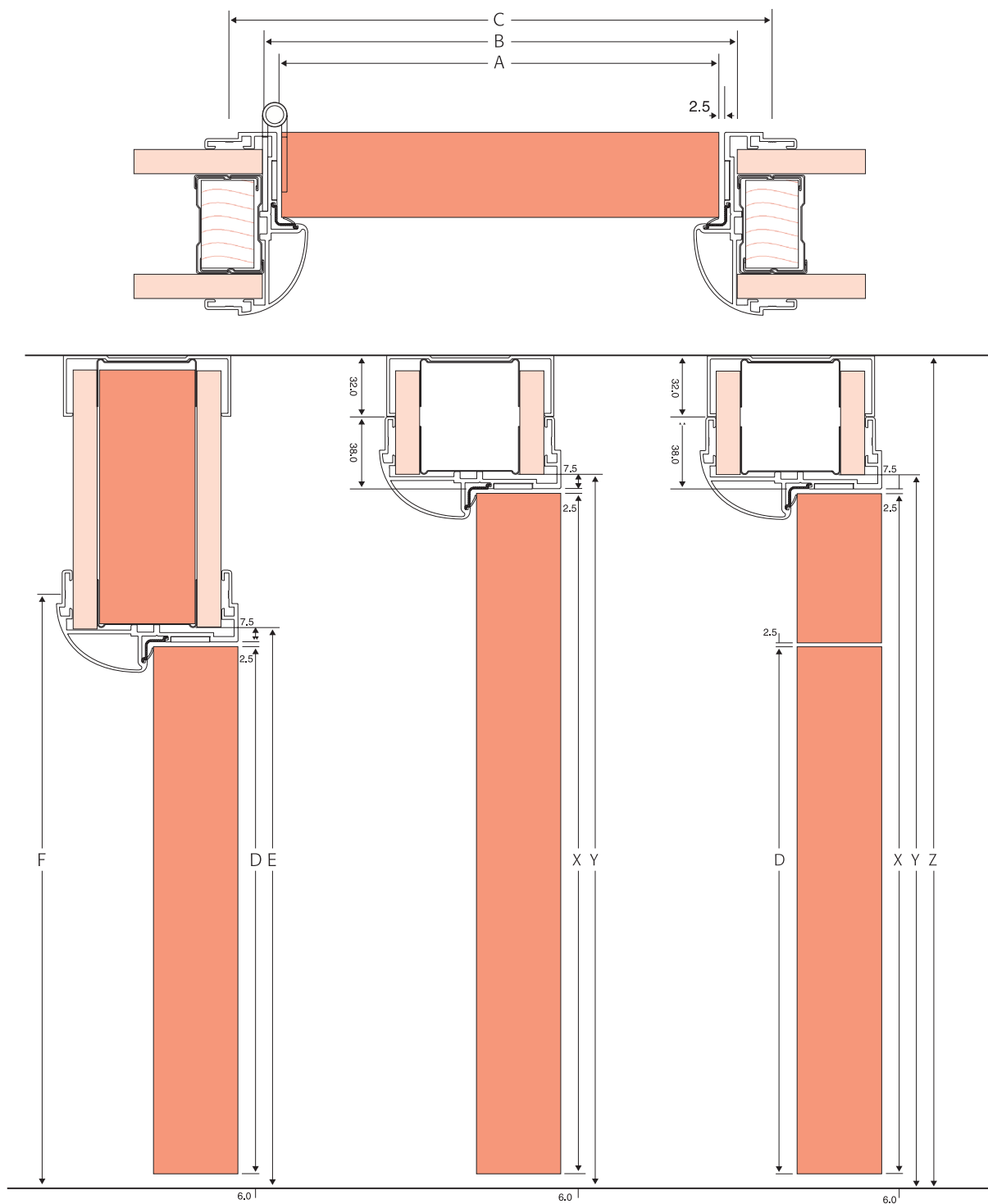
	WIDTH			HEIGHT						
	STANDARD MODULE			HALF GLAZED* (1200 x 1200)	HALF GLAZED** (1500 x 1200)	MID GLAZED (800 x 1200)	MID GLAZED (1000 x 1200)	GLAZED TO DOOR HEAD*** (1900 x 300 nom)	FULL HEIGHT WITH 75MM SKIRTING	FULL HEIGHT WITH BASE SECTION
DIM A	1200mm	Dado Transom Height	DIM E	1171mm	1171mm	1198mm	1198mm	N/A	N/A	N/A
DIM B	Dim A - 35mm	Door Head Transom Height	DIM F	N/A	N/A	Door Height + 17mm	Door Height + 17mm	Door Height + 17mm	N/A	N/A
DIM C	Dim A - 50mm	Glass Aperture Dimension	DIM G	1184mm	1484mm	784mm	984mm	1904mm	Floor to Ceiling Height - 123mm	Floor to Ceiling Height - 114mm
DIM D	Dim A - 77mm	Blind Aperture Dimension	DIM H	1158mm	1458mm	758mm	958mm	1876mm	Floor to Ceiling Height - 149mm	Floor to Ceiling Height - 140mm

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

Fire & Sound - Glazing Setting Out Details

A cost effective performer

Door Modules



	WIDTH			
	SINGLE		DOUBLE	
	METRIC DOOR	IMPERIAL DOOR	METRIC DOOR	IMPERIAL DOOR
DIM A	826mm	838mm	1654mm	1678mm
DIM B	Dim A + 21mm	Dim A + 21mm	Dim A + 23mm	Dim A + 23mm
DIM C	Dim A + 56mm	Dim A + 56mm	Dim A + 58mm	Dim A + 58mm

	HEIGHT		
	SINGLE	FULL - O/P	
	METRIC DOOR	IMPERIAL DOOR	METRIC / IMPERIAL DOOR
DIM D	2040mm	1981mm	DIM X Dim Z - 78mm
DIM E	Dim D + 17mm	Dim D + 17mm	DIM Y Dim Z - 62mm
DIM F	Dim D + 33mm	Dim D + 33mm	DIM Z Floor to Ceiling Height

Fire & Sound - Door Frame Setting Out Details



fire & sound tenon



TF201 50mm GALVANISED STEEL STUD

Used for all vertical framework, singularly or boxed for solid construction, dependant on height and joint detail. Section is boxed for all glazing.



TF202 52mm GALVANISED STEEL CHANNEL

Used at head, wall and floor details both singularly and boxed where appropriate with 50mm stud (TF201). Also used as notched transom with all glazing sections.



TF205 GALVANISED STEEL FIXING CHANNEL

Used at all horizontal plasterboard joints.



TF207 STEEL GLAZING BEAD

Use with all plastic glazing beads within aluminium glazing sections to achieve fire rated glazing.



TF210/211 SOFTWOOD STUD INSERT

Use in conjunction with boxed steel stud section (TF201/1401) at either side of door frames to provide additional support for door frame leg and to give a suitable housing for fixings.



TF216 PLASTIC RADIUS DOUBLE/SINGLE GLAZING BEAD

Use with double/single offset glazing section. Accepts glass with a thickness of between 6.0 and 7.0mm. Single offset with 75mm glazing only.



TF220 PLASTIC SINGLE GLAZING BEAD

Use with Single glazing section (TF340). Accepts glass with a thickness of between 6.0 and 7.0mm. Single offset with 75mm glazing only.



TF222 PLASTIC SQUARE DOUBLE/SINGLE GLAZING BEAD

Use with double/single offset glazing section. glass with a thickness of between 6.0 and 7.0mm. Single offset with 75mm glazing only.



TF270/271 ALUMINIUM 90° EXTERNAL COVER TRIM & CLIP

Used to cover 90° external corner joints. Clip section fitted at 600mm centres.



TF272/273 ALUMINIUM 90° INTERNAL CORNER TRIM & CLIP

Used to cover 90° internal corner joints. Clip section fitted at 600mm centres.



TF274 ALUMINIUM JOINT COVER TRIM

Used to conceal board and glazing joints both vertically and horizontally. Used in conjunction with steel clamping strip (TF275).



TF275 STEEL CLAMPING STRIP

Used to secure cover trims (TF274/277/278), offset cover trim (TF279) and skirting section (TF290).



TF277 ALUMINIUM 135° EXTERNAL CORNER TRIM

Used to cover 135° external corner joints with steel clamping strip (TF275).



TF278 ALUMINIUM 135° INTERNAL CORNER TRIM

Used to cover 135° internal corner joints with steel clamping strip (TF275).



TF279 32mm ALUMINIUM OFFSET COVER TRIM

Used as an alternative to head channel section and at solid wall abutments. Used in conjunction with steel clamping strip (TF275).



TF286 ALUMINIUM RADIUS VERTICAL COVER TRIM

Used with plastic Omega insert (TF289). Trim pre-drilled at 600mm centres to accept a standard drywall screw.



TF287 ALUMINIUM RADIUS HORIZONTAL COVER TRIM

Used with plastic Omega insert (TF289). Trim pre-drilled at 600mm centres to accept a standard drywall screw.



TF288 ALUMINIUM RADIUS ABUTMENT TRIM

Used with plastic Omega insert (TF289). Trim pre-drilled at 600mm centres to accept a standard drywall screw.



TF289 PLASTIC OMEGA INSERT

Use with sections (TF286/287/288/291/292/312/325) to conceal fixings.



TF290 75mm ALUMINIUM CONCEALED FIX SKIRTING

Use at the base of the partition on both solid and glazed modules. Use with steel clamping strip (TF275).



TF291/292 75/100mm ALUMINIUM OMEGA CONCEALED FIX SKIRTING

Used at the base of the partition on both solid and glazed modules. Fixings concealed with the use of TF298 plastic omega section.



TF293 STEEL TOP HAT TRIM SECTION

Use with infill section (TF294/295). Suitable for non fire rated applications only.



TF294 STEEL TOP HAT TRIM INFILL

Use with steel top hat section (TF293). Suitable for non-fire rated applications only.



TF295 PLASTIC OMEGA INSERT

Use with steel top hat section (TF293). Suitable for non-fire rated applications only.



TF308 135° INTERNAL STEEL PLATE

Used to form 135° corners.



TF311 77mm ALUMINIUM HEAD CHANNEL

Used for all applications except under combustible ceilings. Also used as an abutment section for both solid and glazing.



TF312 77mm ALUMINIUM END CAPPING SECTION

Used at the free ends of partition runs. Use with omega insert strip (TF289) to conceal fixings.



TF313 77mm ALUMINIUM Y POST SECTION

Used to create Y junctions in conjunction with stud section (TF201) and trim sections (TF274/275).



TF315 77mm ALUMINIUM THREE WAY CONVERSION POST

Used to convert Tenon Fire & Sound dividing walls to Tenon Flexplus along the front of offices.



TF318 ALUMINIUM SINGLE OFFSET GLAZING SECTION

Used to create single offset glazing in conjunction with 77mm aluminium glazing section (TF340) and plastic glazing beads (TF216/222). 77mm system only is always mitred and therefore requires fitting as the glazing frame is assembled. Non-fire rated.



TF320 77mm ALUMINIUM SINGLE CENTRE GLAZING SECTION

Used for both non-fire rated and fire rated single. Used in conjunction with plastic glazing bead (TF320) together with steel glazing bead (TF207) in fire rated applications. Also, supplied in pre-notched form for as a transom (TF320/12).



TF323 77mm ALUMINIUM THREE WAY POST

Used to create three way junctions, accepting any combination of glazing, solid or door modules. Use timber packer (TF212) when fitting door frame directly to the post. No additional trims are required.



TF325/ 77mm ALUMINIUM CABLE MANAGEMENT POST TV836

Used to house electrical and venetian blind cabling. Post suitable for use with Crabtree architrave switch and back box ref: 4077/4177. Use with plastic omega (TF289) and timber packer (TF213) when fitting next to door frames.



TF326 77mm ALUMINIUM RADIUS 90° CORNER POST

Used for 90° corner junctions, accepting a combination of glazing, solid or door modules. Use timber packer (TF212) when fitting door frame directly to the post. No additional trims are necessary.



TF327 77mm ALUMINIUM RADIUS 135° CORNER POST

Used for 135° corner junctions, accepting a combination of glazing, solid or door modules. Use timber packer (TF212) when fitting door frame directly to the post. No additional trims are necessary.



TF340/345 77mm DOUBLE GLAZING SECTION AND SPACER

Used for non-fire and fire rated double glazing. Use plastic glazing beads (TF216/TF222) and steel liner (TF342) steel glazing bead (TF207) in fire rated applications. Single offset glazing is created by the use of glazing section (TF318).



TF342 STEEL DOUBLE GLAZING LINER

Use with double glazing section (TF340) in fire rated applications.



TF360 77mm ALUMINIUM UNIVERSAL DOOR FRAME

Milled for and including one pair of 100mm steel hinges, Tenon lockbox, door seal (TF266) and mitre deats (TF262). Door frame pre-cut and mitred at ends to allow frame to be used for both right hand left hand doors.



TF380/381 77mm ALUMINIUM BASE AND CLIP FIT SKIRTING SECTION
Used as a main base channel in place of steel (TF202). Skirting section (TF381) clip fits onto main section (TF380) to provide easy access for cable management clip if required.



TF401 75mm GALVANISED STEEL STUD
Used for all vertical framework, singularly or boxed solid construction, dependant on height and joint detail. Section is boxed for all glazing.



TF402 77mm GALVANISED STEEL CHANNEL
Used at head, wall and floor details both singularly and boxed where appropriate with 50mm stud (TF401). Also used, as notched transom with all glazing sections.



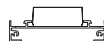
TF411 102mm ALUMINIUM HEAD CHANNEL
Used for all applications except under combustible ceilings. Also used as an abutment section for both solid and glazing.



TF420 102mm ALUMINIUM SINGLE CENTRE GLAZING SECTION
Used for both non-fire rated and fire rated single glazing. Used in conjunction with plastic glazing TF220) together with steel glazing bead (TF207) in rated applications. Also supplied in pre-notched for use as a transom (TF420/12).



TF442 STEEL DOUBLE GLAZING LINER
Use with double glazing section (TF440) in fire rated applications.



TF440/445 102mm DOUBLE GLAZING SECTION AND SPACER
Used for non-fire and fire rated double glazing. Use with plastic glazing beads (TF216/TF222) and steel liner (TF442) / steel glazing bead (TF207) in fire rated applications. Single offset glazing not available with this section.



TF460 102mm ALUMINIUM UNIVERSAL DOOR FRAME
Milled for and including one pair of 100mm steel hinges, Tenon lockbox, door seal (TF266) and mitre cleats (TF262). Door frame pre-cut and mitred at ends to allow frame to be used for both right hand and left hand doors.



A01 LAMINATE SKIRTING
Face fixed skirting 75/100/150mm high. Use with 8 x 6mm black skirting foam (A08).



A02 ALUMINIUM SKIRTING
Face fixed skirting 75/100mm high. Use with 8 x 6mm black skirting foam (A08).

TS501 BOARD EDGE CLIP
Used for the fitting of negative and bevelled edge plasterboards to stud sections (TF201/TF401).



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



flexplus



washrooms



ovation



operable walls



scion



wall store



vitrage



accessories

A cost effective performer

www.tenonpartitions.co.uk

Hillsborough Works, Langsett Road, Sheffield, S6 2LW
Tel: 0114 231 8030 Fax: 0114 231 8031



© Tenon Partitions. A member of

