



# audientis tenon

Quality | Style | Choice

[www.tenonpartitions.co.uk](http://www.tenonpartitions.co.uk)





audientis  
at a glance

Board Rooms

Executive Office Suites

Reception Areas

Conference Suites

General Office Areas

**Areas of use**



**Acoustic performance**

Solid modules - standard construction - up to 43dB (Rw).

Glazed modules - standard construction - up to 42dB (Rw) in double glazed applications.

**Construction Options**

Solid modules - one layer of 12.5mm standard square edge wallboard on 50mm audientis boxed studs and fitted with aluminium 'T' trims.

Glazed modules - double glazing incorporating bi-element construction with the option of integral transom and venetian blinds.

Door modules - frames supplied as standard to suit 2040x926x44mm doors.

**Max Construction Heights**

Solid and glazed modules constructed to a height up to 3000mm using standard components.



**The result of extensive research and development has provided a state-of-the-art partitioning system, offering designers and installers the vertical solution for today's discerning market.**

**Style**

Audientis has been designed to suit many different environments. Its styling provides gently radiused upright posts and door frames with a choice of either recessed or flush skirting.

The system is available powder coated to the full range of BS or RAL colour options.

**Flexibility**

Audientis locks together with user friendly push fit interpanel aluminium 'T' trims which dispense with the need for verticla fixings.

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Used creatively, Audientis provides the building blocks for today's discerning client.



### **Adaptability**

Designed for fast and easy installation, the introduction of Tenon Bi-element construction offers the end user rapid on-site assembly without lengthy lead times.

Safe and strong; the system provides great flexibility. The absence of vertical fixings combined with Tenon Bi-element construction makes it simple to install and straightforward to dismantle and re-assemble.

### **Innovation**

Glazing is available in various double glazing configurations. Traditional horizontal slats of the blinds are visible. Audientis's innovative integral transom feature offers an attractive alternative to the traditional "oriental" or banded glazing. Where blinds are required, Audientis's ceiling head feature is designed to conceal the 25mm blind mechanism within the partition, providing a neat and practical way to ensure that only the horizontal slats of the blinds are visible.

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Audientis complies with BS5234 - giving it a medium duty classification for load testing and deeming it suitable to withstand a medium degree of crowd pressure.

## Technical Information

The major components of the Audientis partition system are a steel head channel, audientis boxed stud section, pre-fabricated combined steel and aluminium glazing frames, aluminium door and base section together with aluminium push-fit Interpanel trims.

The Audientis system is 78mm thick overall and based on a module width of 1209mm. Where necessary, glazing frames can be manufactured to suit site conditions or customer preferences.

### Construction

When constructed in accordance with company instructions, the system can be used up to a height of 3000mm using standard stud sections and push fit trims. All solid elevations should be constructed with studs at 600mm centres, with staggered joints in fire rated applications.

### Appearance

Aluminium and visible steel profiles are supplied in a range of seventeen standard colours:

#### RAL Colours

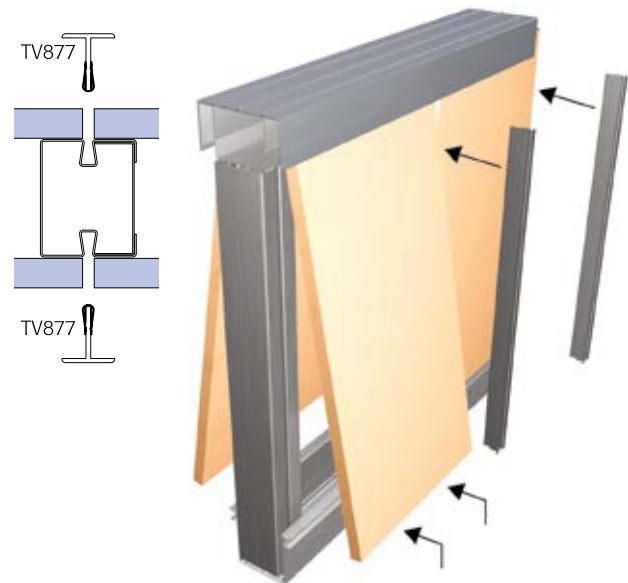
5003 Dark Sapphire Blue
5010 Gentian Blue
5012 Light Blue
5014 Pigeon Blue
6005 Moss Green
7011 Iron Grey
7016 Anthracite Grey
7035 Pale Grey
9005 Jet Black
9006 Silver
9010 Pure White
9016 Traffic White

#### British Standard colours

00A01 Ash Grey
00A05 Goose Grey
00B15 Magnolia
00B29 Van Dyke Brown
00E53 Poppy Red

Standard BS and RAL colours not included in the above list are available, but may be subject to extended lead times and additional costs.

TV877 aluminium 'T' trim fitted with TV898 steel spring retaining clip.

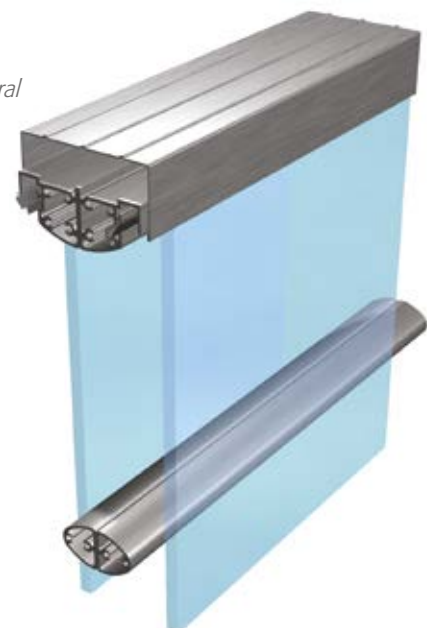


*Audientis bi-element construction showing push fit aluminium interpanel trims.*

### Glazing

Glazing is carried out using the Tenon bi-element method of construction. Pre-fabricated glazing panels are supplied with glass and are installed individually from either side of the partition to create double glazing. Integral transoms can be included to create a banded glazing effect that requires no additional fixing on site. All frames are manufactured to suit individual contracts, so accurate site dimensions are required when ordering. The maximum allowable glazing tolerance for the system is +10 / -20mm on the height only.

*Audientis integral transom detail*





Glass with a thickness of between 6mm and 9mm can be accommodated within the system allowing the use of a range of both toughened and laminated glasses including specialist acoustic products. Please check with the Tenon Technical Department to ensure that the appropriate type of glass has been chosen to achieve the specified level of protection or performance.

### Venetian Blinds

The maximum internal void within the system is 61mm, therefore easily, accommodates the standard range of venetian blinds. The head glazing and blanking sections have been designed with a recess so that the blind control track is not visible once fitted. The control knob and cable can either be fitted within the standard steel stud section or in the purpose designed cable management post. Fixing instructions are available for both methods of construction from the Tenon Technical Department.

*Audientis recessed blind channel detail*

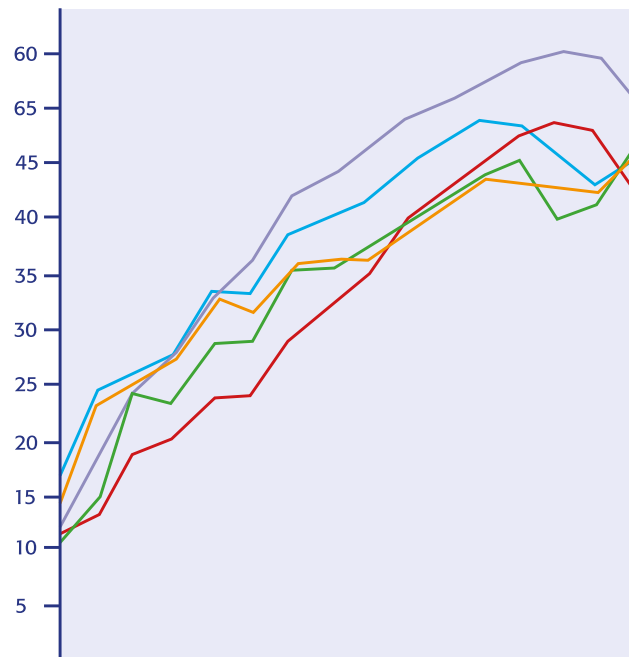


### Door Modules

Standard door frames are supplied in a handed format (i.e. left or right handed) and come pre-cut, complete with three factory fitted hinges, Tenon lock box, door seal and pre-cut steel transom. Standard height door frames are supplied with mitred frame section (TV860) as the door head.

### Sound

Tenon Audientis has been thoroughly tested in accordance with BS2750 : Part 3 : 1980(1993) : (ISO 140/111-1978) The results achieved rated in accordance with BS 5821 1 1984 : (ISO 717/1 - 1978).



**TEST 1** Single 12.5mm plasterboard each side with no quilt in the internal void. 34dB(RW)

**TEST 2** Single 12.5mm plasterboard each side with 50mm (45kg/m<sup>3</sup>) mineral fibre insulation in the internal void, 43dB(RW)

**TEST 3** Double glazed using 6.4mm laminated and 6mm toughened glass. 38dB(RW)

**TEST 4** Double glazed using 6.4mm laminated and 8.8mm laminated glass. 40dB(RW)

**TEST 5** Double glazed using 7mm and 9mm Acoustic Laminate. 42dB(RW)

*The above results were obtained across the frequency range 100 / 3150 Hz.*

**It should be noted that all the above results were obtained under laboratory test conditions.**

The expected level of performance should take into account the type of ceiling, ducting, flooring, the inclusion of doors, glazing and the level of background noise present. The leakage of Sound through poorly insulated parts of the partition may have a significant effect on the level of attenuation possible.

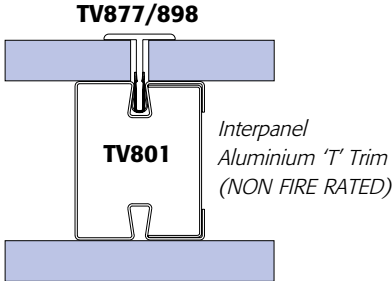
**Stability**

In accordance with BS 5234, Tenon Audientis has been subjected to a number of stability tests that allow us to classify the system Medium Duty as laid down in the standard.

The system successfully passed BS 5234 Part 2 Annexes A to F, meeting the test performance levels to the required grades. In addition to the tests on a straight run of partition, a corner junction was also tested, again meeting the necessary criteria.

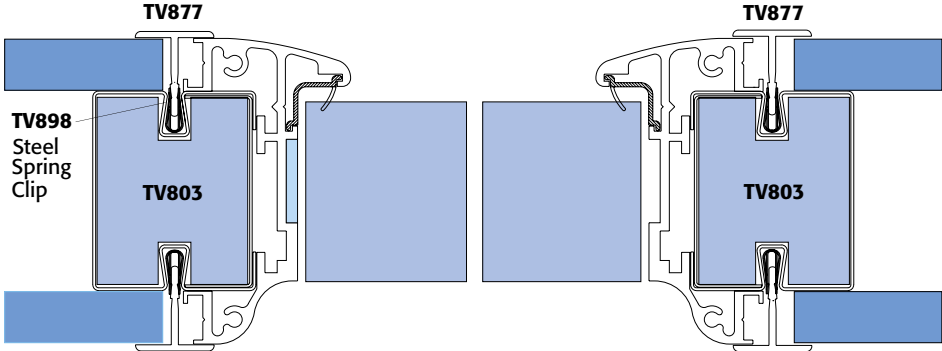
Under Annex G, Audientis was tested to determine it's resistance to crowd pressure and passed at a level of 1.5kN/m. When tested to failure the maximum load achieved was 1.65kN/m.

**Solid panel joint option**



When using Audientis's push fit aluminium trim sections, individual solid and glazed panels can be demounted without the need to dismantle full partition runs. When specifying solid modules with taped joints only glazed modules can be removed or changed independently as solid panels must be removed sequentially.

**Door Frame joint options**



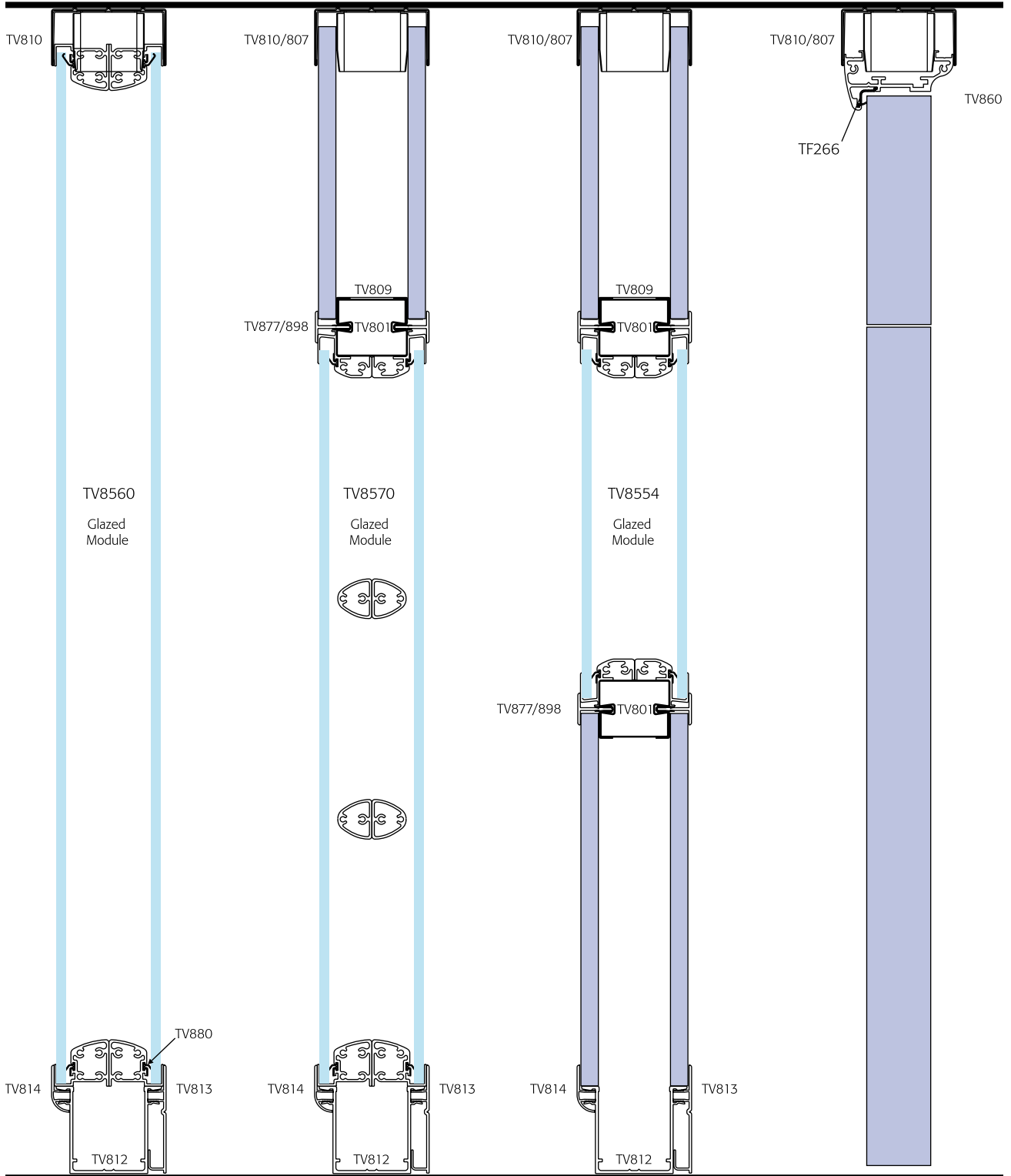
This trim is suitable for use at door frames:

Interpanel 'T' trim (TV877)

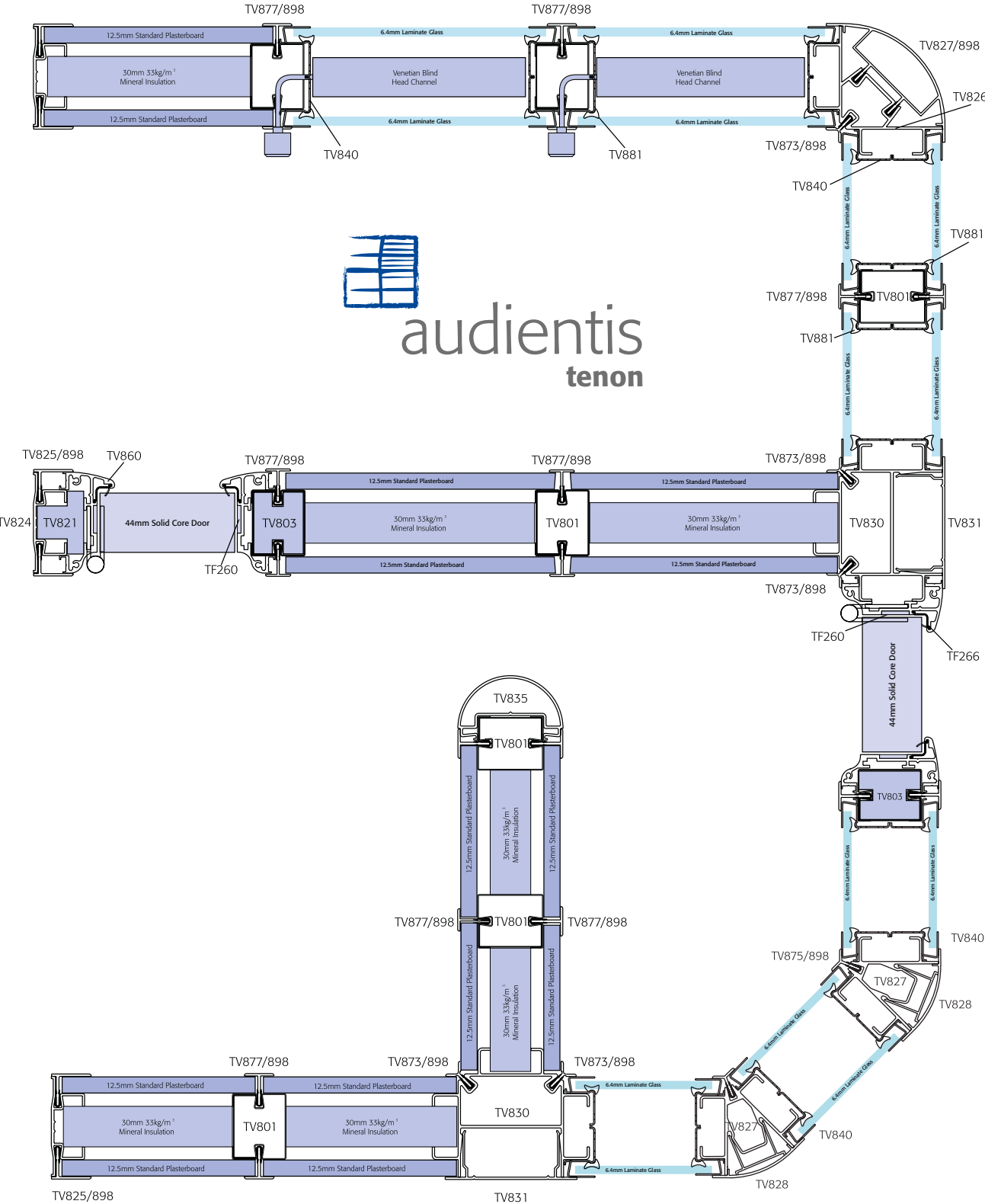
This is because the trim must fit flush with the skirting section.

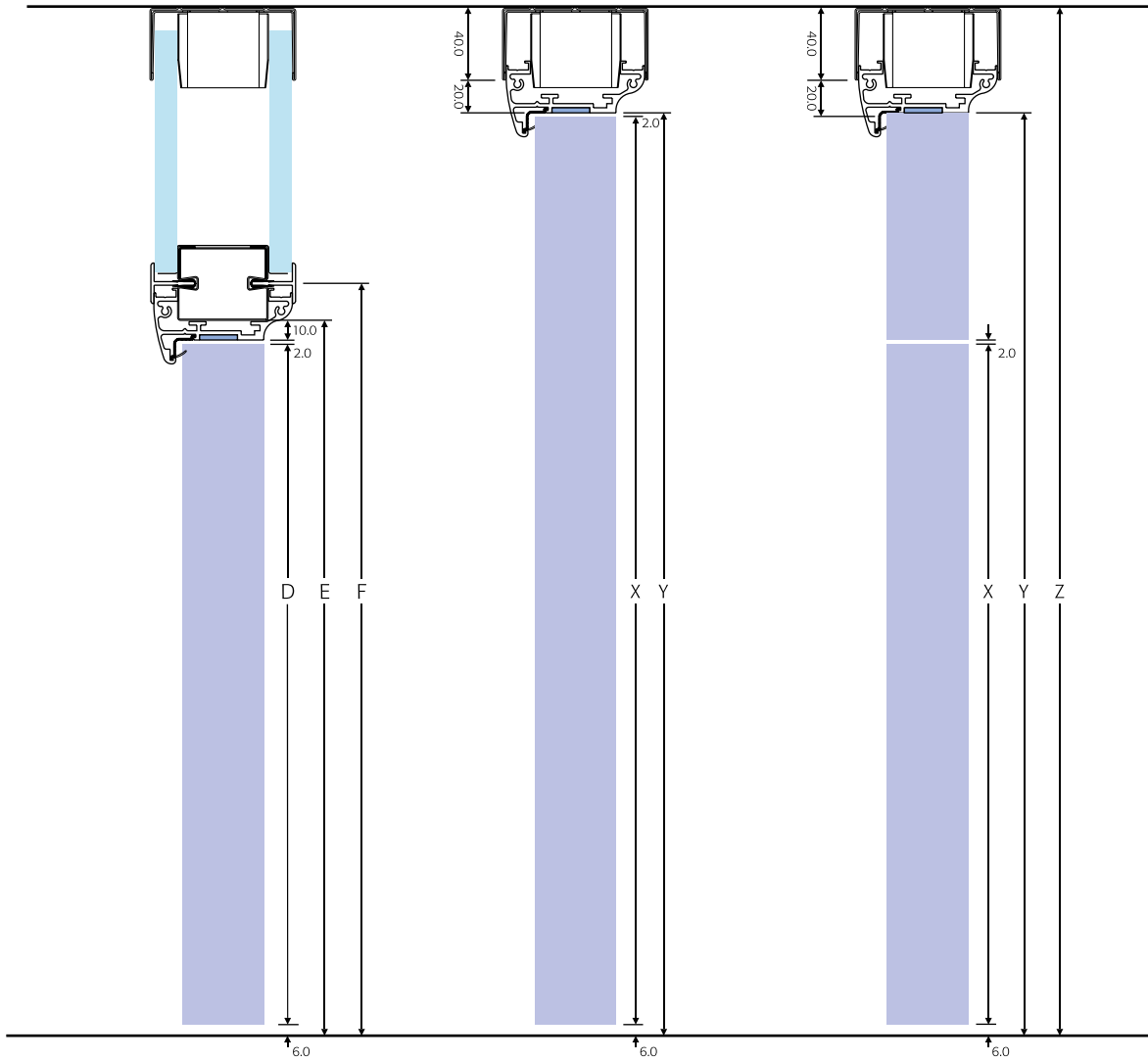
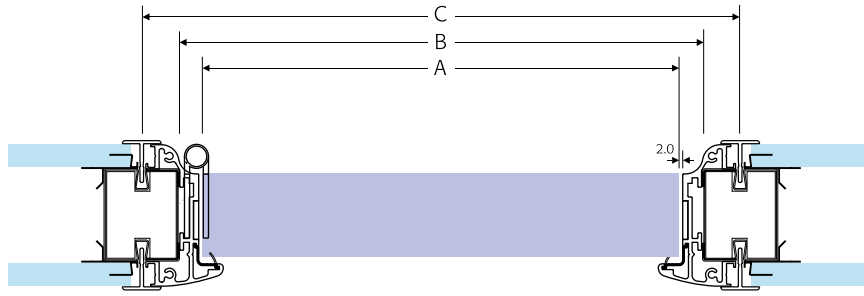


### Elevation Details



Plan Details









































	WIDTH			
	SINGLE		DOUBLE	
	METRIC DOOR	IMPERIAL DOOR	METRIC DOOR	IMPERIAL DOOR
<b>Dim A</b>	926mm	838mm	1852mm	1676mm
<b>Dim B</b>	Dim A + 24mm	Dim A + 24mm	Dim A + 27mm	Dim A + 27mm
<b>Dim C</b>	Dim A + 64mm	Dim A + 64mm	Dim A + 67mm	Dim A + 67mm

	HEIGHT			
	SINGLE		FUL - O/P	
	METRIC DOOR	IMPERIAL DOOR	METRIC DOOR	IMPERIAL DOOR
<b>Dim D</b>	2040mm	1981mm	<b>Dim X</b>	Dim Z - 68mm
<b>Dim E</b>	Dim D + 18mm	Dim D + 18mm	<b>Dim Y</b>	Dim Z + 60mm
<b>Dim F</b>	Dim D - 38mm	Dim D + 38mm	<b>Dim Z</b>	Floor to Ceiling Height

Section Details

	<b>TV 801</b>	49mm AUDIENTIS STUD SECTION used for all vertical framework except where earthed cable management is required. Section comes boxed with channel section TV801C.		<b>TV 812</b>	ALUMINIUM RECESSED BASE SECTION Can be used either with flush skirting section TV813 or curved skirting section TV814.
	<b>TV 803</b>	49mm AUDIENTIS FEATURE DOOR STUD SECTION used for all framework around door frames in conjunction with timber infill TV805.		<b>TV 813</b>	75mm ALUMINIUM FLUSH CLIP ON SKIRTING push fit skirting section used to accommodate cable management within base section TV812.
	<b>TV 806</b>	HEAD CHANNEL SPLICING PLATE for use where head channel section TV810 is joined together.		<b>TV 814</b>	ALUMINIUM RADIUS CLIP ON SKIRTING push fit radius skirting section.
	<b>TV 807</b>	STUD HEAD RETAINER BRACKET push fit bracket used to locate stud sections TV801 and TV803 within head channel TV810. Fixing free.		<b>TV 815</b>	75mm ALUMINIUM FACE FIXED SKIRTING used in conjunction with steel clamping section TF275.
	<b>TV 808</b>	TRANSOM / ALUMINIUM POST BRACKET push fit bracket used to secure transoms and aluminium posts. Screw fixed.		<b>TV 816</b>	90° JUNCTION PRE-FABRICATED HEAD CHANNEL
	<b>TV 810</b>	78mm STEEL HEAD CHANNEL used for all fire and non-fire rated applications as an abutment channel.		<b>TV 817</b>	135° JUNCTION PRE-FABRICATED HEAD CHANNEL
	<b>TV 825</b>	ALUMINIUM ABUTMENT CLIP IN SECTION. used at wall abutments in conjunction with main section TV824 to allow easy fitting of the last solid/glazed panel used in conjunction with steel spring clip TV898.		<b>TV 824</b>	ALUMINIUM ABUTMENT MAIN SECTION used at wall abutments in conjunction with clip on section TV825/TV898 to allow easy fitting of the last solid/glazed panel.
	<b>TV 826</b>	ALUMINIUM 90° CORNER POST MAIN SECTION used with push fit cover plate section TV827.		<b>TV 848</b>	ALUMINIUM INTEGRAL TRANSOM SECTION used horizontally within glazing and blanking frames to create a banded glazing effect.
	<b>TV 827</b>	ALUMINIUM 90° CORNER PUSH FIT COVER PLATE used in conjunction with main post section TV826.		<b>TV 860</b>	75mm DOOR FRAME SECTION frame section used in door frame packs. Frame is milled for and including 3 self oiling hinges, lockbox, door seal and aluminium mitre cleat.
	<b>TV 828</b>	ALUMINIUM 135° CORNER POST MAIN SECTION used with push fit cover plate section TV829.		<b>TV 873</b>	ALUMINIUM 90° CORNER POST TRIM SECTION aluminium trim section used to finish off the internal angle of the 90° corner post. Used in conjunction with spring steel clip section TV898 this section should be used in lieu of TV872 in all fire rated applications.
	<b>TV 829</b>	ALUMINIUM 135° CORNER PUSH FIT COVER PLATE used in conjunction with main post section TV830.		<b>TV 875</b>	ALUMINIUM 135° CORNER POST TRIM SECTION aluminium trim section used to finish off the internal angle of the 135° corner post. Used in conjunction with spring steel clip section TV898 this section should be used in lieu of TV874 in all fire rated applications.
	<b>TV 830</b>	ALUMINIUM 3 WAY POST MAIN SECTION used in conjunction with flush cover plate TV831, Can also be used with section TV832 to create a 4 way post.		<b>TV 877</b>	ALUMINIUM INTERPANEL 'T' SECTION aluminium trim section used to conceal the edge of a cut panel between modules and as a doorframe trim to fall in line with the push fit skirting sections. Used in conjunction with spring steel clip section TV898 this section should be used in lieu of TV876 in all fire rated applications. Can also be used as a joint trim with square edge plasterboards and other square edge panel types.
	<b>TV 831</b>	ALUMINIUM 3 WAY FLUSH COVER PLATE pushfit section used with 3 way post TV830.		<b>TV 880</b>	CLEAR PVC CAPTIVE GLAZING GASKET used in all horizontal glazing sections to suit 6mm to 9mm glass.
	<b>TV 835</b>	ALUMINIUM END CAPPING SECTION used to finish off the fair end of a partition or as a capping section.		<b>TV 881</b>	CRYSTAL CLEAR WEDGE GLAZING GASKET used vertically in glazing section TV840 to suit 6mm to 7mm glass.
	<b>TV 840</b>	STEEL VERTICAL GLAZING SECTION used vertically in all glazing frames.		<b>TV 890</b>	DOOR HINGE self oiling door hinge for use with doors up to a weight of 60kg.
	<b>TV 842</b>	ALUMINIUM HORIZONTAL HEAD/BASE GLAZING SECTION used horizontally at base and head in full height glazing frames.		<b>TV 891</b>	DOOR FRAME BRACKET SECTION used to ensure an effective join on mitred frames.
	<b>TV 843</b>	ALUMINIUM HORIZONTAL STOCK HEIGHT GLAZING SECTION used horizontally at base and head of all stock height glazing frames.		<b>TV 895</b>	20 x 2.5mm INTUMESCENT STRIP used in door frames in all fire rated applications.
	<b>TV 844</b>	ALUMINIUM HEAD GLAZING SECTION FOR BLINDS used horizontally at head of glazing frames where integral venetian blinds are fitted. Used in conjunction with fixing plate TV844A.		<b>TV 898</b>	STEEL SPRING CLIP used to secure all aluminium trim sections.

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# tenon

Quality | Style | Choice

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