



pelican systems
partitioning



Drywall Partitioning is a method that uses a track and stud system to divide and partition areas into smaller rooms.

JUMBO Drywall is quick to install and great for use in industrial and commercial applications. Sturdy and cost-effective, partitioning is, firstly, great for creating office spaces without the mess and fuss of renovations. Secondly, can be installed within industrial or commercial work spaces.

Drywall is a popular choice in residential applications when you combine it with a Lightweight Steel Frame building construction method.

The lightweight construction, speed of erection, low cost, fire resistance and sound ratings make this system a widely accepted drywall system in the building industry.

Choose from a range of options, including 76mm and 90mm sizes, depending on the application and requirements.



plasterboard for walls

JUMBO® 12mm Plasterboard Tapered Edge

Recommended for both residential and commercial drywall applications. 12mm JUMBO® Plasterboard is exceptionally versatile and lightweight. 12mm JUMBO® Plasterboard used in conjunction with JUMBO® SoundTherm or Galvanised Sheets can provide acoustic and secure solutions. True lines and curved radiused walls are also achievable.

Sizes	Weight / Board (kg)	Quantity / Pallet
2400 x 1200 TE	23.90	70
2700 x 1200 TE	26.89	70
3000 x 1200 TE	29.88	70
3600 x 1200 TE	35.86	60

70 per pallet | 8.30 kg/m²

JUMBO® 12mm Fire Resistant Plasterboard Tapered Edge

Recommended for both residential and commercial drywall applications for fire protected areas. 12mm JUMBO® Fire Resistant Plasterboard is used to form smooth, straight drywalls with sharp edges and when used in conjunction with our drywall systems can provide impact and acoustic solutions.

Sizes	Weight / Board (kg)	Quantity / Pallet
2700 x 1200 TE	29.81	70
3000 x 1200 TE	33.12	70
3600 x 1200 TE	39.74	60

70 per pallet | 9.00 kg/m²

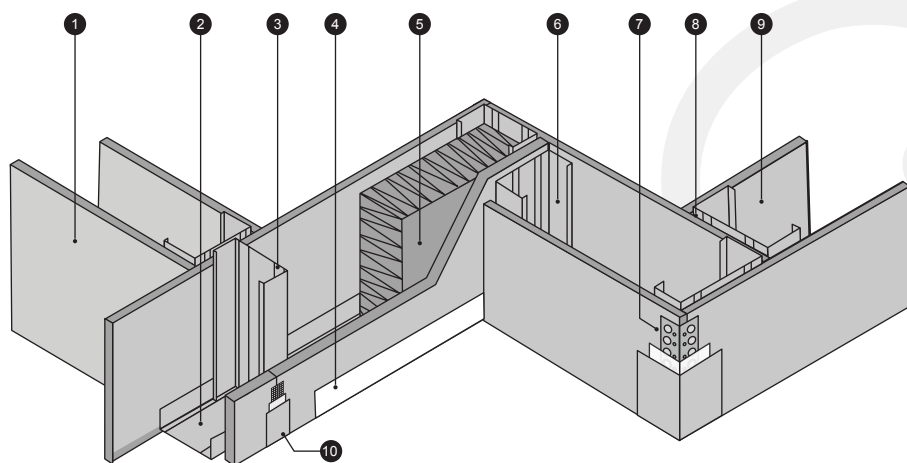
JUMBO® 15mm Fire Resistant Plasterboard Tapered Edge

Recommended for both residential and commercial drywall applications for fire protected areas. 15mm JUMBO® Fire Resistant Plasterboard is used to form smooth, straight drywalls with sharp edges and when used in conjunction with our drywall systems can provide impact and acoustic solutions.

Sizes	Weight / Board (kg)	Quantity / Pallet
2700 x 1200 TE	38.23	50
3000 x 1200 TE	42.48	50
3600 x 1200 TE	590.98	40

50 per pallet | 11.80 kg/m²

Typical Illustration using the JUMBO® 12mm Plasterboard for Drywalling Applications



1. JUMBO® 12mm Plasterboard
2. JUMBO® Track
3. JUMBO® Stud
4. JUMBO® Skirting
5. JUMBO® SoundTherm
6. JUMBO® Stud
7. JUMBO® Corner Bead
8. JUMBO® Stud
9. JUMBO® 12mm Plasterboard
10. JUMBO® Tape



FireWALLS... sound fire solutions

JUMBO® Fire Resistant Drywall Systems are designed for use in both fire-rated and non-fire-rated applications. Speedily erected, JUMBO® FireWALLS are suitable for every type of new construction – commercial, residential, industrial, education, healthcare, and retail. They provide smooth, durable, non-combustible walls that are lightweight and low in cost.

The objective of a FireWALL is to slow down the spread of fire, minimise the rise in temperature and retain its integrity and structure thereby allowing more time for evacuation and fighting the fire.

All plasterboard is naturally fire resistant and is classified as non-combustible according to the Building Code. The core slows down the spread of fire by releasing chemically bound water when heated. This is a similar process to evaporation and aids cooling. JUMBO® Fire Resistant Plasterboard contains fibre glass additives that improve the natural fire resisting properties of plasterboard.

Features and Benefits include:

- Lightweight construction
- Easy, fast and dry application
- Limitless design options
- Accommodates services within the cavity

South African Fire Test Standards

The South African Fire Tests are conducted according to the SANS 10177-2 protocol, fire testing of materials, components and elements used in building part 2.

Our JUMBO® FireWALLS have been tested in Firelab's large-scale air aspirated diesel furnace. The furnace temperature is controlled to follow the ISO standard time-temperature curve as stipulated in SANS 10177-2.

The Fire Resistance Rating (FRR) of the system is determined based on the following criteria:-

Stability – The temperature of the primary stud and deflection are measured to assess stability

Integrity – The system needs to have resisted the penetration of flames, and have no opening visible larger than 6mm wide or 150mm long

Insulation – Measures the temperature over the whole of the exposed surface, which needs to be within the specified test standards

JUMBO® FireWALL 63/60/4.2m

This is a non-loadbearing high performance 60 Minute Fire Resistant Drywall using a single 15mm Fire Resistant JUMBO® Board on either side of the 63mm Stud and 64mm Track, giving an overall wall thickness of 93mm. The test result applies to walls up to 4.2 metres in height.

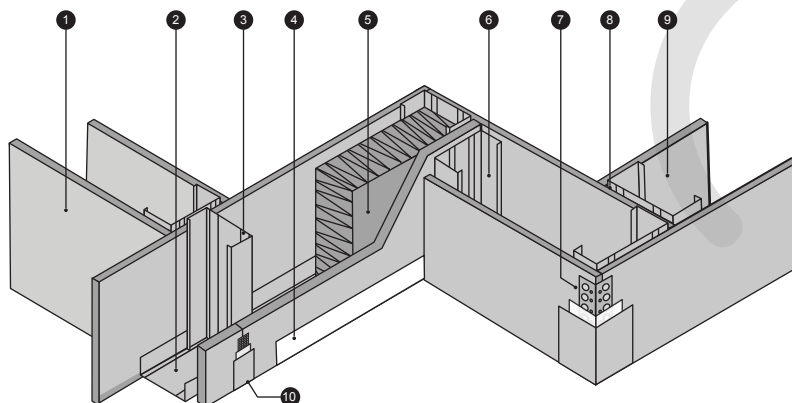
Test Results:-

The JUMBO® FireWALL system met the criteria for a 60 minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 60 minutes.

Classification is as follows:-

SANS 10177-2 – FR60 (Non-load bearing) | Stability (R) – 60 minutes | Integrity (E) – 60 minutes | Insulation (I) – 60 minutes

Typical Illustration for JUMBO® FireWALL 63/60/4.2m



1. JUMBO® 15mm FR Plasterboard
2. JUMBO® 64mm Track
3. JUMBO® 63mm Stud
4. JUMBO® Skirting
5. JUMBO® 63mm SoundTherm (not part of test / optional)
6. JUMBO® 63mm Stud
7. JUMBO® Corner Bead
8. JUMBO® 63mm Stud
9. JUMBO® 15mm FR Plasterboard
10. JUMBO® Tape

Note: 63/60 - No Insulation
63/60/S44 - With SoundTherm



JUMBO® FireWALL 63/120/4.2m

This is a non-loadbearing high performance 120 Minute Fire Resistant Drywall using two layers of 15mm Fire Resistant JUMBO® Boards on either side of the 63mm Stud and 64mm Track, giving an overall wall thickness of 124mm. The test result can be used for walls up to 4.2 metres in height.

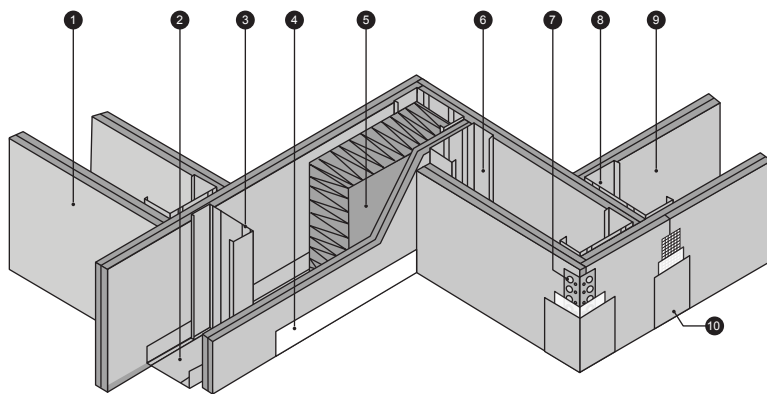
Test Results:-

The JUMBO® FireWALL system met the criteria for a 120 minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 120 minutes.

Classification is as follows:-

SANS 10177-2 – FR120 (Non-load bearing) | Stability (R) – 120 minutes | Integrity (E) – 120 minutes | Insulation (I) – 120 minutes

Typical Illustration for JUMBO® FireWALL 63/120/4.2m



1. JUMBO® 15mm FR Plasterboard
2. JUMBO® 64mm Track
3. JUMBO® 63mm Stud
4. JUMBO® Skirting
5. JUMBO® 63mm SoundTherm (not part of test / optional)
6. JUMBO® 63mm Stud
7. JUMBO® Corner Bead
8. JUMBO® 63mm Stud
9. JUMBO® 15mm FR Plasterboard
10. JUMBO® Tape

Note: 63/120 - No Insulation
63/120/S50 - With SoundTherm

JUMBO® FireWALL102/60/6m

This is a non-loadbearing high performance 60 Minute Fire Resistant Drywall using one 12mm and one 15mm Fire Resistant JUMBO® Board on either side of the 102mm Stud and 103mm Track, giving the overall wall thickness of 156mm and applicable for a FireWALL up to six metres in height. The framework / Stud spacings are installed at 400mm centres and an H-Track / Transom is installed at three metre height allowing for the use of three metre Studs and JUMBO® Boards.

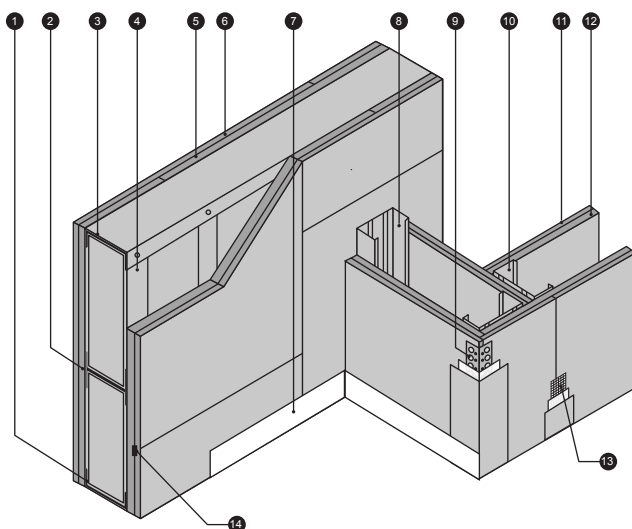
Test Results:-

The JUMBO® FireWALL system met the criteria for a 60-minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 60 minutes.

Classification is as follows:-

SANS 10177-2 – FR60 (Non-load bearing) | Stability (R) – 60 minutes | Integrity (E) – 120 minutes | Insulation (I) – 120 minutes

Typical Illustration for JUMBO® FireWALL 102/60/6m



1. JUMBO® 103mm Track
2. JUMBO® 103mm H-Track
3. JUMBO® 103mm Track
4. JUMBO® 102mm Stud
5. JUMBO® 15mm FR Plasterboard
6. JUMBO® 12mm FR Plasterboard
7. JUMBO® Skirting
8. JUMBO® 102mm Stud
9. JUMBO® Steel Corner Bead
10. JUMBO® 102mm Stud
11. JUMBO® 12mm FR Plasterboard
12. JUMBO® 15mm FR Plasterboard
13. JUMBO® Fibre Tape
14. 1300 x 50 x 0.5 Steel Backing Plate

Note: Stud spacings are at 400mm centres

JUMBO® FireWALL102/120/3m

This is a non-loadbearing high performance 120 Minute Fire Resistant Drywall using one 12mm and one 15mm Fire Resistant JUMBO® Board on either side of the 102mm Stud and 103mm Track, giving the overall wall thickness of 156mm and applicable for a FireWALL up to three metres in height. The framework / Stud spacings are installed at 400mm centres.

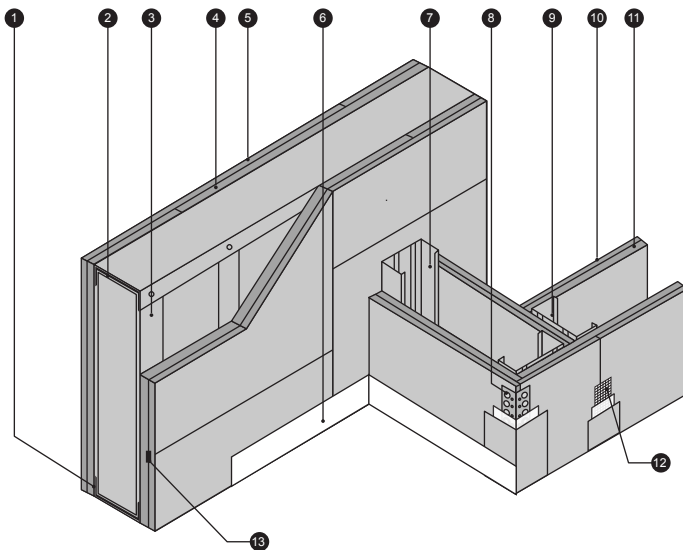
Test Results:-

The JUMBO® FireWALL system met the criteria for a 120-minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 120 minutes.

Classification is as follows:-

SANS 10177-2 – FR60 (Non-load bearing) | Stability (R) – 120 minutes | Integrity (E) – 120 minutes | Insulation (I) – 120 minutes

Typical Illustration for JUMBO® FireWALL 102/120/3m



1. JUMBO® 103mm Track
2. JUMBO® 103mm Track
3. JUMBO® 102mm Stud
4. JUMBO® 15mm FR Plasterboard
5. JUMBO® 12mm FR Plasterboard
6. JUMBO® Skirting
7. JUMBO® 102mm Stud
8. JUMBO® Steel Corner Bead
9. JUMBO® 102mm Stud
10. JUMBO® 12mm FR Plasterboard
11. JUMBO® 15mm FR Plasterboard
12. JUMBO® Fibre Tape
13. 1300 x 50 x 0.5 Steel Backing Plate

Note: Stud spacings are at 400mm centres

Validity and Application of the Test Report

Fire rated systems need to be assembled strictly in accordance with the relevant test reports, and approved system details and specifications. If not, the fire resistance could be compromised and the test result cannot be applied.

Acoustics and Thermal Insulation

To achieve an acoustic rating or improved thermal insulation, 63mm JUMBO® SoundTherm or a 63mm Cavity Batt can be added to either system. The insulation will enhance the performance in a Fire as well as offer improved acoustic and thermal performance.

Accessories

- Class A (1 Hour) Fire Rated Door in a suited pre-galvanised frame (LH or RH)
- Class B (2 Hour) Fire Rated Door in a suited pre-galvanised frame (LH or RH)
- Galvanised Steel Sheets for added security

The following information is available on our website:-

BOQ Specification, Data Sheets, Revit Files and Detail Drawings.



fibre cement boards

JUMBO Fibre Cement Board is manufactured using an autoclave process to compress top quality cement with natural fibers. The result is an elegant, eco-friendly and extremely durable fiber cement board that provides the perfect base for diverse applications in architecture and interior design.

A non-abestos product that is resistant to moisture and impact, making it suitable for both interior and exterior applications including ceilings, partitions, as an interior lining to wet areas, cladding and many other uses.

Thickness	Length	Edge Detail	Density
4mm	2400 / 2700 / 3000mm	Square Edge	Medium
6mm	2700 / 3000mm	Square Edge	Medium
9mm	2700 / 3000mm	Square Edge	Medium

Features and Benefits

JUMBO Fibre Cement Board is resistant to moisture, impact, fire, termites and various weather conditions. It also offers excellent sound insulation. Which makes it an ideal choice for a variety of interior as well as exterior applications. With zero abestos, it ensures that your living and working spaces stay healthy and sustainable.

Fibre Cement is a non – combustible material with an index of zero for both flame spread and smoke development.



JUMBO Fibre Cement Board for Ceilings ... extreme resistance

JUMBO Fibre Cement Board is a strong, lightweight and long-lasting board to create classic and contemporary ceilings.

Its flat and smooth surface is perfect for seamless ceiling designs and easy-to-install for grid ceiling systems.

It offers high resistance to humidity, fire and extreme weather conditions. This makes JUMBO Fibre Cement Board ideal for both indoor and outdoor ceiling applications across varied decor styles and genres.

JUMBO Fibre Cement Board for Partitions ... durable and impact resistant

High durability and resistance to impact protects the product from damage and extends application life. Superior sound insulation and resistance from moisture, termite and fire ensures hassle-free applications accross residential to hospitality projects. Its dimensional stability and easy workability provides strength with convenience.

JUMBO Fibre Cement Board also gives you flexibility of a wide range of finishes so that you get functionality with aesthetics.

JUMBO Fibre Cement Board for Internal Linings ... reliable resistance

Resistant to damage from moisture impact and termites. Fire and sound insulation are added benefits.

JUMBO Fibre Cement Board for Wet Areas ... maximum water resistance

JUMBO Fibre Cement Board provides the ideal base as backing materials for wet and humid areas.

Exceptional moisture resistance assures no deterioration and growth of moulds or mildew due to dampness - thus saving you costly repairs and replacements.

Durability and impact resistance increases product longevity while good load bearing capacity offers ease of handling and installation. This makes JUMBO Fibre Cement Board perfect for bathrooms, spas, shower rooms, kitchens and other wet rooms.



Applications	4mm	6mm	9mm
Indoor Ceiling / False Ceiling	•	•	
Eave, Arch & Attic Ceiling	•	•	
Internal Partitions - Half / Full Height		•	•
Internal Lining		•	
Eaves & Soffit Lining	•	•	•
Wet Areas		•	•
Pre-fabricated Shelter - Internal / External Walls		•	•

The product has undergone multiple tests for physical, mechanical, fire resistance and durability.

Physical Properties	Unit of Measure	Fibre Cement Board	Standard Test Method
Thickness Tolerance	%	+/- 8%	ASTM C1185
Density	kg/m ³	1,300 +/- 50	ASTM C1185
Water Absorption	%	Max. 35	ASTM C1185
Moisture Resistance	%	≤15%	ASTM C1185
Mould Resistance		Pass	ASTM D3272
PH Value		7- 8	ISO 10390-2005
Water Tightness		Pass	ASTM C1185
Mechanical Properties	Unit of Measure	Fibre Cement Board	Standard Test Method
Modulus of Rupture at EMC (Avg.)	MPa	>10 (EMC)	ASTM C1185
Modulus of Elasticity on Machine Direction (EMC)	MPa	>5,000 (EMC)	ASTM C1185
Modulus of Rupture on Wet (Avg.)	MPa	>7 (Wet)	ASTM C1185
Modulus of Elasticity on Machine Direction (Wet)	MPa	>4,000 (Wet)	ASTM C1185
Fire Resistance Properties	Unit of Measure	Fibre Cement Board	Standard Test Method
Ignitibility		Pass	BS476 Part 5
Fire Propagation Index		Pass	BS476 Part 6
Surface Spread of Flame		Pass	BS476 Part 7
Smoke Development Index (SDI)		Pass	ASTM E84-00a
Flame Spread Index (FDI)		Pass	ASTM E84-00a
Durability	Unit of Measure	Fibre Cement Board	Standard Test Method
Heat / Rain Resistance		Pass	ASTM C1185
Warm Water Resistance		Pass	ASTM C1185
Freeze / Thaw Resistance		Pass	ASTM C1185
Soak / Dry Resistance		Pass	BS EN 12467:2000

ASTM – American Standard | ISO – International Standards | BS – EN – British Standard – European Norms

Manufacturer's Certification

ISO14001 for Environmental Management from ISO Standard AJA EQS of the United Kingdom.

ISO9001:2008 for Quality Management from the International Standard Institute for Head Office, Manufacturing Plants and Distribution Channels.

T1 Toilet partitions

framed partition system

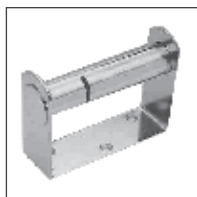
The T1 system is constructed from various substrates encased in natural anodized aluminium channels and combined with functional accessories making it an aesthetically pleasing and cost effective alternative to brick construction. The cubicles can be used in public facilities such as washrooms, ablutions and change rooms.

They are available in a wide range of panel patterns and colours which are complemented by the slim aluminium framing.

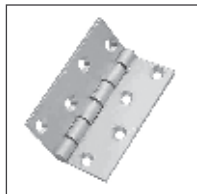
Flexible and adaptable to any toilet cubicle configuration the T1 System also caters for the requirements of the disabled making this partitioning solution the number one choice for many installations. The T1 System, although modular as standard, can be adapted to various custom configurations and requirements.

Features and Benefits:

- Economical and quick to install
- Neat and hygienic
- Aluminium framed edging and receiving channels
- Standard ironmongery
- Variety of colours and shades in Mellawood or Formica
- Functional and reliable



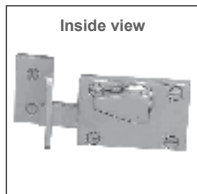
Anti-theft toilet roll holder



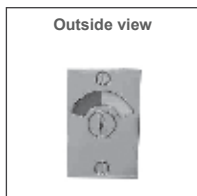
Aluminium hinge with Nylon brushes



Hat and coat hook with Rubber buffer



Inside view



Outside view

Satin chrome indicator bolt And special keep

T1 Toilet Cubicle Construction

Infil Panels:

There are two aluminium frame channels available to cater for two different finished thicknesses;

- A) Lipped Channel accommodates 16mm chipboard with either mellawood or melamine facing.
- B) Un-lipped Channel accommodates 19mm formica clad chipboard.

The formica clad chipboard is more durable of the two however it is more expensive.

Framing:

Intermediate and end partitions, doors and pilasters are neatly framed in 22 x 22mm aluminium lipped channel and mitred at corners.

Skirting:

44mm high aluminium skirtings are formed at the base of pilasters by fixing 22 x 22mm inverted channel to the floor before fixing the pilaster in position, this minimises possible water contact with the base of the pilaster.

Transom:

The system is stabilised with the 25mm square aluminium transom.

Junction at Walls:

In order to prevent gaps between uneven tiles, walls and the system, partitions and pilasters are fixed to the walls as follows:

A 26 x 24mm (22 x 22mm I.D.) full height aluminium receiving channel section is fixed vertically to the tiles or plastered brick wall.

The intermediate or end partition / pilaster – all complete with aluminium lipped channel surrounds (22 x 22mm O.D.) are then slotted into the full height receiving channel and fixed plumb.

Ironmongery to Doors:

Each door is supplied with a pair of satin finished hinges, indicator bolt and keep and hat and coat hook with rubber buffer which serves as a door stop. The pilaster frame against which the door strikes is fitted with two rubber buffers to prevent unnecessary metal on metal striking noise.

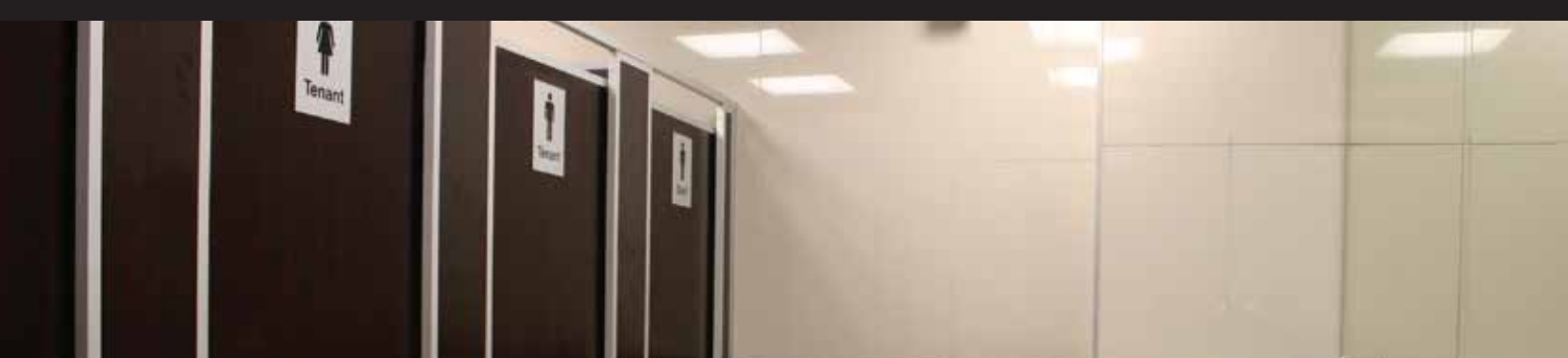
Ironmongery to Partitions:

Intermediate and end partitions are supplied with toilet roll holders.

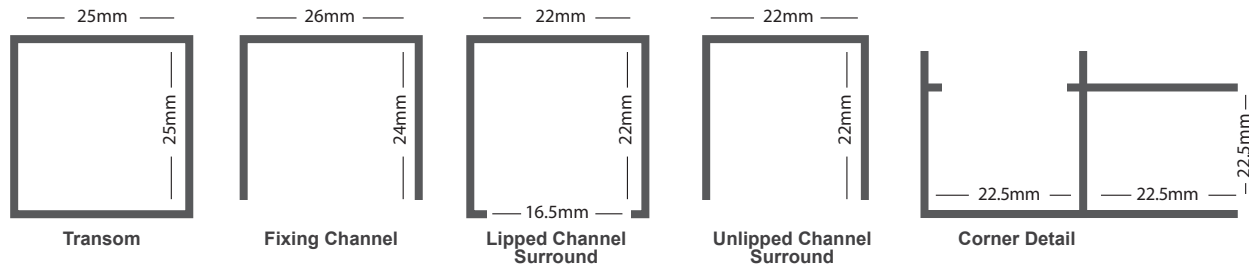
Cleaning Space:

The intermediate and end partitions are fixed 151mm above the finished floor level to allow easy cleaning.

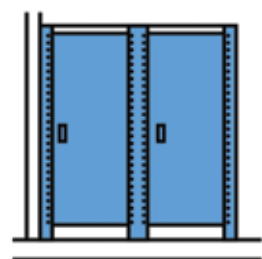
Non standard sizes can be made to measure, and door openings can be adapted for wheelchairs etc.



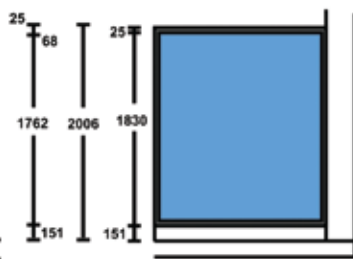
Aluminium Channels



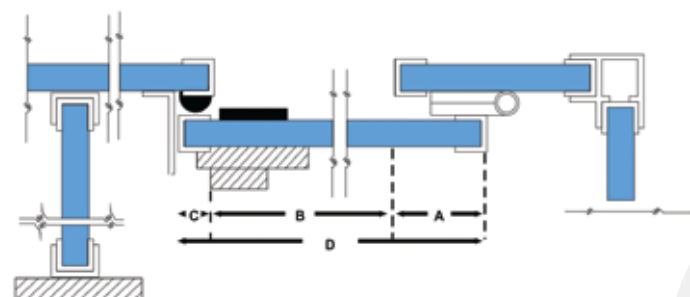
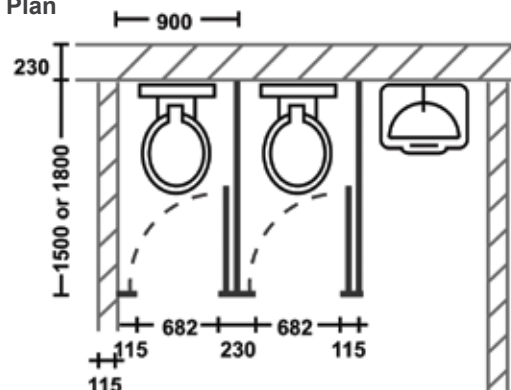
Front Elevation



End Elevation



Plan



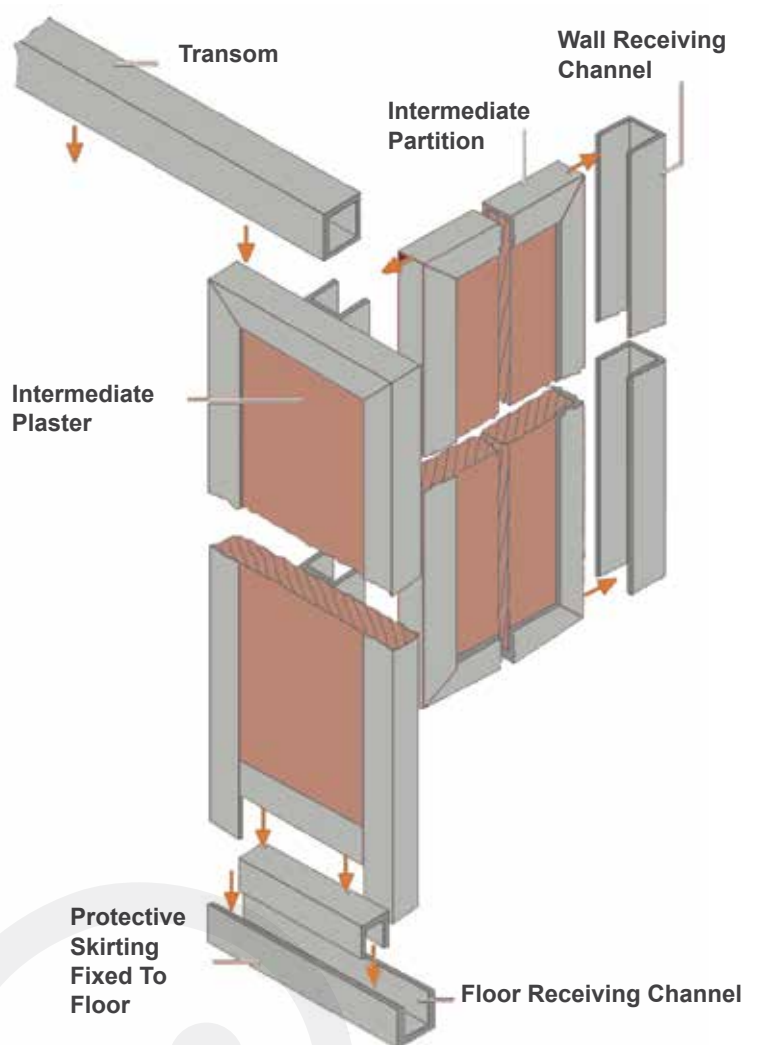
D = Door Size
C = 22mm (Closing Overlap)
D = B (varies) + A (58mm) + C (22mm)

A = 58mm (Hinge Overlap)
B = Door Opening

Bill of quantity specification:

Supply and install Pelican Systems T1 Toilet Partition System comprising of 16mm thick particle board panels, laminated both sides with Melawood or Formica (specify colour), edged all round with 22 x 22mm lipped channel and fixed into position by means of full height vertical aluminium receiving channels fixed to the abutting wall, floor or pilaster. Pilasters and end partitions are stabilized by a continuous 25 x 25mm aluminium transom section over doors and supplied with a complete set of standard ironmongery comprising of indicator bolts, hat and coat hooks, door stops, toilet roll holders and rubber buffers. Aluminium surrounds, receiving channels and transom sections shall be (specify colour – natural anodised / colour anodised / colour powder coated).

***Note:** Size variations are accommodated by adjusting the width of the doors





Head Office / Durban (031) 563 7307

Pietermaritzburg Branch (033) 345 3701

Northriding Branch 087 352 729 6 / 7 / 8 / 9

Centurion Branch 087 352 7268 / 6 / 8 / 9

A full list of stockists is available on the Contacts Page of our website.

Find us online at

www.pelican.co.za

or any of these social media sites

