

Handling and Storage

All Pelican Systems' timber doors are despatched from the factory pre-wrapped in protective packaging with timber support blocks to protect the bottom edge of the doors from damage.

To ensure your doors remain in the same state of quality as they left the factory we recommend the following on site handling tips:

- Doors must never be stored in an upright position with the top edge against a wall. This is the most common cause of doors bowing on site.
- Doors should be stored on a flat, level surface.
- Ideally doors should be stored on a protective board of at least 16mm in thickness with levelling bearers.
- Doors should never be stored in or near direct sunlight. This can result in veneer discolouration within a few hours.
- Do not sit on top of or store anything on top of or against timber doors being stored on site.
- Ensure the storage area is dry and well ventilated.
- Exercise caution when moving and fitting doors to ensure door edges and faces are not damaged.
- Doors, as a finishing product should be installed as late as possible in the building program to prevent damage from other trades.

How do I Specify Trucore Doors?

a) Trucore Doors to be Pelican Systems **(medium or heavy duty)** flush panel timber door **(size w x h)** x 40mm with **(door face finish)** to both sides suitable for **(painting/polishing)** with **(veneer over edge)** hardwood edge strips to vertical edges.

b) Lead lined Doors
Doors to be Pelican Systems 2mm lead-lined solid core doors **(size w x h)** x 42mm with **(door face finish)** to both sides suitable for **(painting/polishing)** with veneer over edge.

Pelican Systems also manufactures a range of Fire Doors which carry the SABS mark, and aluminium safety glazed doors. These door ranges are available ex stock and can also be purpose made to suit your specific requirements.

Trucore Doors

QUALITY TIMBER DOORS. SPECIFICALLY MANUFACTURED TO CATER FOR HIGH STANDARDS OF AESTHETIC QUALITY & FUNCTIONALITY

- VENEER OVER EDGE
- ENGINEERED CORES
- IMPACT RESISTANT
- LIGHTWEIGHT
- ACOUSTICS
- FIRE RATED

THE DOOR WITH THE CORE THAT OFFERS YOU MORE !

creating environments

If you require any further information about TRUCORE DOORS or any of our other products we will be pleased to answer your enquiry by either: sending you further literature on areas of interest to you; arranging for one of our representatives to visit you in person or arranging for you to come and visit our showroom and manufacturing facility.

Your local distributor is:

DURBAN
Pelican Systems (Pty) Ltd
765/793 North Coast Rd
PO Box 4060 Redhill 4071
Tel: (+27) 31 563 7307
Email: info@pelican.co.za

PIETERMARITZBURG
Tel: (+27) 33 345 3701

ZULULAND
Tel: (+27) 35 751 1956

GAUTENG
Tel: (+27) 11 704 7411
www.pelican.co.za

ceiling systems partitioning systems opening systems flooring systems

opening systems



variety

advanced core technology

Trucore Doors



With the insight gained over 3 decades in the building interior systems industry, Pelican Systems is now able to offer you a range of quality timber doors that have been specifically developed to cater for the highest standards of aesthetic quality, functionality and cost effectiveness required by Architects, Interior Designers, our customers and the end-users of our products.

Trucore Doors innovative core technology is unique in its characteristics and the first in South Africa.

Flush Panel Doors

Pelican Systems' Trucore architectural doors are manufactured using only the highest standard of quality raw materials. All our veneers and door finishes for specific projects are colour and grain matched ensuring consistency of finish.

We also manufacture fire doors and other purpose made doors, which enable Architects and Interior Designers to ensure that all doors used on a project are finished with the same high standard of quality veneers and finishes.

Pelican Systems carry a comprehensive range of stock doors of the more popular sizes and finishes whilst non-standard doors are available on a made to order basis and can be custom made to Architects and Interior Designers specifications subject to standard lead times.

Special Doors

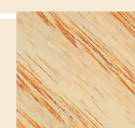
Pelican Systems also provide the service of manufacturing special purpose made doors to suit your specific requirements, including but not limited to hinged doors, pivot doors, sliding doors, security doors and glazed doors. We also offer custom widths on our door size to accommodate the residential market.

Lead Lined Doors

Pelican Systems offers a range of lead lined doors ideally suited for hospitals and X-ray rooms. Doors are of solid core construction with a 2mm thick lead lining laminated into the door leaf. The lead lined doors are available in any of the finishes available from Pelican Systems and can be supplied in standard height or full height options.

Pyropanel Fire Doors

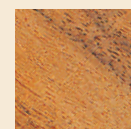
Pelican Systems are manufacturers and suppliers of the only SABS marked fire door in South Africa. Ask our representative for our Pyropanel fire door brochure or log onto our website for more information.



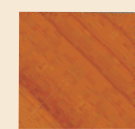
White Ash



White Oak



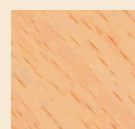
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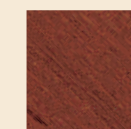
Cherry



Maple



White Beech



Sapele

Door Finishes

Pelican Systems range of quality timber doors is available in an extensive selection of finishes to suit your requirements. The more popular door finishes are available ex stock to provide rapid turnaround times, whilst the less common finishes are manufactured on a made to order basis, subject to prevailing lead times.

Stock door finishes include undecorated Masonite and Commercial veneer for painting on site, and Sapele, White Beech, Maple, Oak and Cherrywood in polished form. All other available finishes are made to order.

TRUCORE MEDIUM DUTY DOOR

Totally eco-friendly, the door's honeycomb core is manufactured using recycled material and offers:



Weight reduction:

Honeycomb cores are incredibly lightweight which means easier transportation, handling, storage, and are simply lighter to work with.



Strength:

Innovative technology of the core delivers all the strength benefits of typical honeycomb type construction.



Recyclable:

Made from recycled material the core is fully recyclable and repulpable.



- Doors are a nominal 40 mm thick.
- Inner frames are constructed of SA pine with lock blocks to two sides only.
- Door cores are constructed of X-Core Honeycomb technology.
- Door edges are either exposed SA pine or veneered over edge.
- Door faces are made up of a suitable board substrate for painting or a veneered finish.



RAIL - 33X70 SA PINE
STYLE - 33X33 SA PINE

GUSSET
ENGINEERED
HONEYCOMB CORE

3mm MDF BOARD
VENEER OVER EDGE OR
MASONITE UNDECORATED

LOCK BLOCK - 33X70

4mm EDGING TO
MATCH VENEER

advanced core technology

Pelican Systems' Trucore timber doors are available in 2 different core constructions, depending on your door requirements and budget. These are namely, Medium & Heavy Duty.

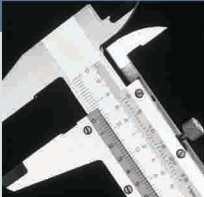
TRUCORE HEAVY DUTY DOOR

Based on the age old engineering principle, the door's tubular core construction offers:



Weight reduction:

Tubular Cores reduce the weight of the doors by up to 60% compared to conventional solid doors.



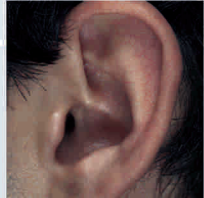
Thickness precision:

Tubular Cores have a guaranteed thickness tolerance of +/- 0.1mm.



Impact resistance:

Pressure of up to 20kg/cm will not cause any deformation of the door's core.



Sound Insulation:

Sound Insulation of up to 30 d/b.



- Doors are a nominal 40 mm thick.
- Door cores are constructed with tubular core technology.
- Door edges are generally solid veneered over edge.
- Door faces are made up of a suitable board substrate for painting or decoration or a veneered finish.

RAIL - 33X70 SA PINE

STYLE - 33X33 SA PINE

ENGINEERED TUBULAR CORE

3mm MDF BOARD

VENEER OVER EDGE OR MASONITE UNDECORATED

LOCK BLOCK - 33X215mm

4mm EDGING TO MATCH VENEER



Trucore Heavy Duty Doors

The Secret

What makes our doors such a unique product? The core is extruded particle board manufactured by a special extrusion process, the first continuous production method for wood based materials. This process differs fundamentally from other production methods, which results in the following features and advantages:

It is the only way to produce tubular particle boards:

- Weight reduction
- Cost reduction

The particles are positioned vertically to the surface of the board:

- Low thickness swelling
- Great impact resistance
- High flexibility
- Good performance during fire test

Homogeneous density over the whole cross-section of the board:

- Equally high screw withdrawal on every part of the board

Solid and tubular sectors can be combined in one board:

- Lock and hinge areas
- Profile areas

Core

Unique tubular design

Characteristics

High stability and impact resistance, yet low weight, acoustics

Sound Insulation

30 dB

Smoke Protection

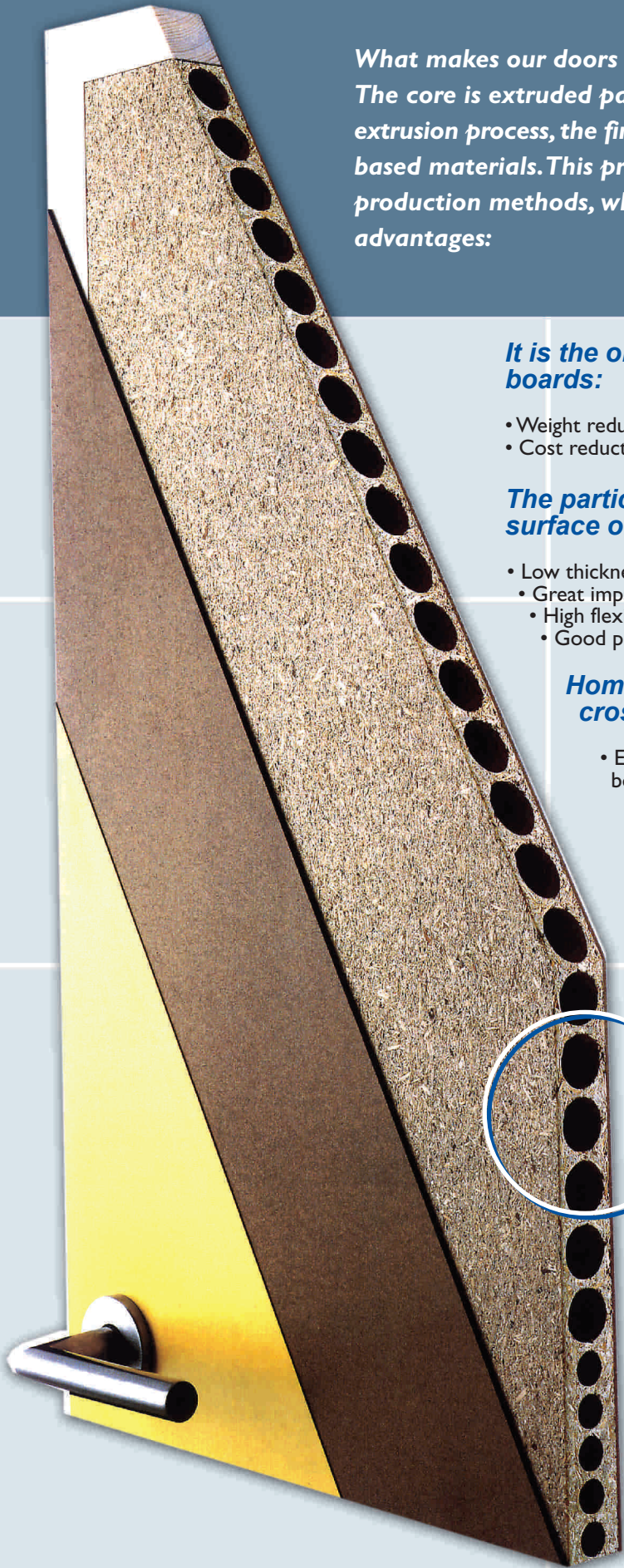
30 minutes

Climate Protection

Class b

Mechanical Performance

Class 4



Tru Lines for a beautiful finish!

Trucore doors provide an ideal combination of light weight and stability. Compared to conventional solid doors, the weight is reduced by up to 60%. This impressive fact proves that high quality doors do not have to be heavy!

The core of our doors have a very low thickness swelling, which is unusual for wood based materials. This makes them particularly suitable for doors with delicate surfaces.

The special positioning of the particles guarantees a very high impact resistance: Doors with Tubular Core withstand even the greatest impact – in spite of maximum diameter of the tubes.



The mechanical performance of a door is classified into various stress groups according to DIN EN 1192. The “hard impact” provides information about the surface impact resistance – an important indicator for the resistance of the door surface to daily wear and tear. The “soft impact” simulates stress caused by body impact on the door. In these tests the general door construction as well as the hinges are of significant importance. The multiple function test is conducted to ensure that all door elements withstand the dynamic stress of thousands of use cycles. Lock and hinges are particularly stressed. However, the whole door construction and extras such as glass panes are of special interest, too. The mechanical performance of certain components – e.g. withdrawal of screws and hinges – is just as important as the checking of complete door constructions.

Mechanical testing:

A wide range of mechanical tests can be conducted in accordance with the respective standard:

- Hard impact
- Soft impact
- Multiple function tests
- Screw and hinge withdrawal



Sound insulation is tested in compliance with DIN EN 20140 in testing stations, which are acoustically fully insulated.

Sound is transmitted exclusively through the tested door and not through openings or the walls and ceilings. Test results of door leafs sealed to the frame by putty are not of particular importance for the user.

However they do provide important information about the door leaf performance, frame, hinges and frame seals.

Sound testing:

- Station and measuring instrumentation comply with DIN EN 20140
- Testing of door sets up to 59 dB is possible
- Opening: 1,030 x 2,015 mm
- Wall thickness: 260 mm Wall-high elements also available
- Steel frames available: 985 x 1,985 mm DIN left
- Special frames can be mounted

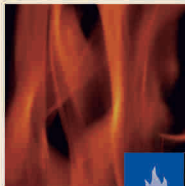


Swelling and shrinking processes of the individual components may cause distortion of doors separating rooms with different temperature and humidity.

During the climate test, the door is exposed to the differential climates according to DIN EN 1121. The test is completed after the distortion process has come to a stand-still, which is normally reached after 28 days. The classification of the doors is defined by DIN EN 1530 / EN 12219.

Climatic testing:

- Tests for the differential climates a to c possible
- Conditions conform largely to DIN EN 1121
- Simultaneous testing of 8 doors is possible
- Openings: Steel frame 735 / 860 / 985 x 1,985 mm



Fire doors generally require the approval of national authorities.

Approval is usually granted after testing operating door sets by official test institutes. Since these tests tend to be very expensive and time consuming, our raw material suppliers Service Centre offers preparatory testing and consultation.

Fire testing:

- Conditions based on DIN 4102 (EN 1363)
- Temperature and pressure in the test room are programmable
- Test duration up to 120 minutes
- Opening: 1,000 x 2,000 mm for doors up to 950 x 1,950 mm
- Wide range of fitting variations

Caring for the Environment

Raw material used in the tubular core construction of our door is untreated saw mill residues from mills providing an environmentally friendly basis for the wood supply. (PEFC-certified) Raw material used in our honeycomb core construction is derived from recycled material that is recyclable and repulpable.

Sizing Tolerances

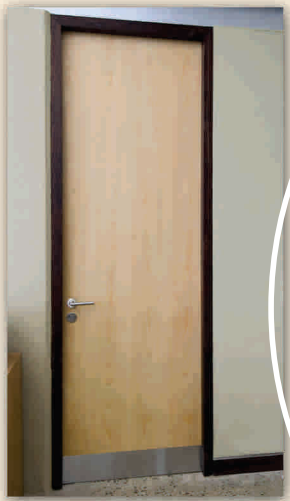
Width: ± 1 mm
Length: ± 2 mm
Thickness: ± 1.5 mm
Bow: 5 mm measured across the width or length of the door

Stock Door Sizes

Single Leaf: 810 x 2,030 mm
810 x 2,650 mm

Double Leaf: 1,200 x 2,030 mm
-unequal leaf with rebated meeting stiles
1,200 x 2,650 mm
-unequal leaf with rebated meeting stiles
1,620 x 2,030 mm
-equal leaf with rebated meeting stiles
1,620 x 2,650 mm
-equal leaf with rebated meeting stiles

All 2 650mm high stock doors come with a **standard** bottom rail which allows for resizing of doors. We recommend a maximum of 40mm reduction to the bottom of the door for resizing. Non-standard door sizes can be made to order subject to prevailing lead times.



Door accessories & Furniture

Pelican Systems manufactures, stocks and supplies a full range of complimentary door hardware and accessories including, but not limited to:

- door furniture
- door closing devices
- door frames
- aluminium return air door grilles
- sliding door pelmets and tracks
- glazed viewing panels.

Quality

All Pelican Systems' timber doors are manufactured with the highest standard of quality raw materials and are subjected to stringent quality checks throughout the manufacturing process. All Pelican Systems timber doors are supplied with a standard 2-year guarantee against defective workmanship.

The Core that offers more!!!

The technical characteristics of the Trucore Doors offer the right solution for every demand and meets all the requirements of modern living.

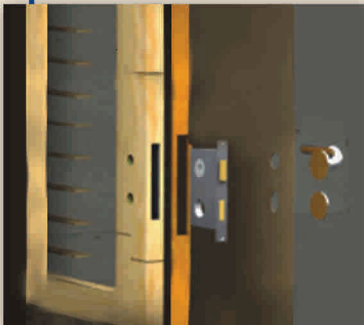
As we all know in the construction industry "Time is Money". In line with this thinking, Pelican Systems has developed and offers the essential service of kit forming its timber doors and doorframes for the various partitioning systems that we have on offer.

This service guarantees the following benefits:

- *Product quality is consistent and factory guaranteed*
- *On site installation time is reduced by more than half*
- *The level of skill required for installers is dramatically reduced*
- *Less tools are required on site to complete the work*
- *Less machining is required and thereby noise on site is reduced*
- *Mess on site is reduced saving valuable time spent cleaning up.*

time is money - prefabrication

In-house testing has proven that by using Pelican Systems' kit doors and frames you will save up to **75%** on the labour time normally required to do this work on site. In real terms this means that three prefabricated doors and frames can be fitted to every one door and frame without prefabrication.



Prefabricated Kit Doors

Our popular quality flush panel doors are readily available ex stock in kit form where provision for the lock faceplate has been made, the lock mortice is complete and the holes for the key and spindle are pre-drilled to suit the required ironmongery.

This service is also available for non-standard door sizes and finishes.

Prefabricated Kit Door Frames

To compliment our range of prefabricated kit doors we also offer prefabricated aluminium doorframes to suit our various partitioning systems. These are available in standard sizes as well as purpose made to your specific requirements. In prefabricated form the head and stiles are pre-cut to size, factory fitted with two aluminium sinkless hinges and rubber gaskets and the checkouts for the latch and deadlock are complete.

