

IS THERE A DIFFERENCE BETWEEN INTERNAL AND EXTERNAL DOORS?

Usually external joinery needs to be durable enough to withstand weathering & temperature changes whereas internal doors have a much less stressful existence. Internal doors are frequently quite flimsy and may be constructed of cardboard, manmade woodpulp veneers and even polystyrene glued together in sandwich panels. Such constructions may last a lifetime internally but would disintegrate rapidly in external applications. Some manufacturers (e.g. Hume, Corinthian) supply external joinery using sandwich construction which may have a life expectancy of 5 years but, as they rely entirely on glue rather than actual mechanical joints (e.g. mortice and tenon), they are not a substitute for real joinery made from real timber. Internal doors are typically 35mm thick whereas external joinery should be 40mm.

WHAT TYPES OF INTERNAL DOORS ARE AVAILABLE?

Joinery doors

These are doors from either solid timber or engineered timber made using similar construction to external joinery. Engineered construction refers to manufactured timber that typically uses finger jointed cores faced with veneers to resemble real natural timber. Joinery doors are more expensive than sandwich doors.

Sandwich Solid Cores

These doors may be faced with plywood, masonite or MDF over a solid core of laminated timber blockboard, MDF or particleboard or a timber surround frame filled with polystyrene or other sound deadening material. Solid core doors are typically half the price of joinery doors.

Sandwich Hollow Core doors

Usually constructed using a cardboard honeycomb core within an edge strip frame faced with plywood, masonite or MDF which may be moulded or routed to a face pattern. These are the budget end of the door market. Hardware can only be fitted in specific locations where timber lockblocks have been installed to allow attachment of locks and handles.



stile & rail construction



solid construction
core made from MDF faced with MDF moulded panels



blokdoor designs
core made from laminated FJ softwood faced with plywood or tempered masonite



solidor designs
core made from high moisture resistant particle board



coriTech core construction
MDF and polystyrene faced with MDF or tempered masonite



honeycomb core construction

DOES WOODWORKERS MANUFACTURE INTERNAL DOORS?

Woodworkers manufactures joinery doors and imports its own range of engineered doors for internal applications. We do not manufacture sandwich panel doors. We resell product from Corinthian, Humes and other suppliers to provide the widest selection to clients over the complete budget spectrum.

WHAT SIZE LIMITATIONS APPLY?

Stock doors are commonly available in 2340 and 2040mm heights and widths from 520mm to 920mm, although some ranges have far more constrictive sizes. The sizes you require may severely restrict your design choices. Most sandwich panel doors can be trimmed no more than 5mm from any edge. Where unusual sizes are needed a solid core blockboard door would be required or custom joinery ordered. Where very large doors are envisaged, the limitations of plywood become restrictive and necessitates joints to be generally displayed where the size exceeds 2400 high or 1200 wide.

HOW LONG DOES IT TAKE TO GET INTERNAL DOORS?

It is often assumed that internal doors are available off the shelf and ordering them is often left too late. While Woodworkers stocks its own range of internal doors ready for cash and carry, many designs and sizes need to be manufactured or transported from interstate. For designs from the Corinthian or Hume range a minimum of 12 working days should be allowed. Where doors need to be pre-hung or have other customising work carried out a further 5 working days is usually required. If joinery doors require manufacture, the lead times will depend on the factory backlog but will be the same as external joinery (commonly 3 to 6 weeks).

WHAT WARRANTIES AND SALE CONDITIONS APPLY TO INTERNAL DOORS?

All internal doors are warranted by their respective manufacturers for 5 years. A number of stringent sale conditions apply to many of the designs that are set by the manufacturers. These often entail the condition that orders can be changed on the day of ordering only. All internal door orders are not returnable unless the doors are defective. Check with our sales staff what conditions apply to the doors you may wish to order.

WHO INSTALLS INTERNAL DOORS AND HOW SHOULD THEY BE HUNG?

Woodworkers does not install any joinery on site. However, we have a number of independent BSA registered installers who will undertake the work and bill you directly. Alternatively they will order joinery on your behalf should you wish to have a single contract for supply and installation. Hollow Cores are often hung on 2 hinges but solid core and joinery doors should always use 3 hinges as the centre hinge stabilises against warp.



internal doors are just as important to your decor as your furniture

BRISBANE
1095 Ipswich Rd
Moorooka 4105
☎ 07 3848 1383
F: 07 3892 1476

GOLD COAST
Warehouse Road
Southport 4215
☎ 07 5571 0088
F: 07 5571 0617

SUNCOAST
53 Wisers Road
Maroochydore
☎ 07 5479 0999
F: 07 5479 0911

SYDNEY
2 Sydenham Rd
Brookvale 2100
☎ 02 9938 4999
F: 02 9938 4666

24 INTERNAL DOORS

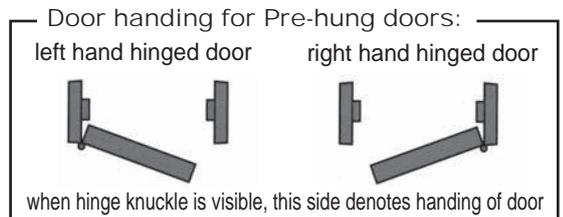
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WHAT FRAMES ARE USED WITH INTERNAL DOORS?

Unlike external joinery which requires sills and generally 140 x 32mm solid framing, internal doors usually only have 19mm thick 'reveals' lining the opening 3 sides. These may be builder supplied or ordered with the internal doors as a pre hung kit where at least 3 weeks lead time is available. Standard jambs can be either primed MDF (18mm thick) or finger jointed pine (19mm thick) for 2040 or 2340 door heights & single or double door configurations in the following sizes:

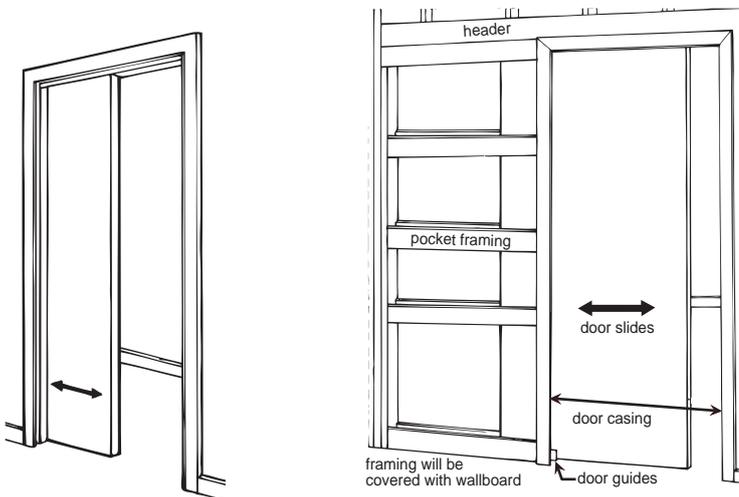
Loose rectangular door stops are included with frame kits. Pre hung kits are hung on 2 hinges and the handing of the door is determined from the visible hinge knuckles as seen on right. Pre hung units can be ordered as double hinged only or with a 25 or 54mm lock hole and optional latch fitted, lift off hinges or with the option of 3 hinges.

Pine FJ	MDF primed
88 x 19*	92 x 18
92 x 19	112 x 18*
98 x 19*	
112 x 19	
122 x 19	* = 2040door height only



DO YOU SELL CAVITY SLIDING UNITS?

Most commonly available cavity sliding units only permit 35mm thick doors but are available for 2340 as well as 2040 door heights. This is a significant constraint with many timber joinery doors being 40mm thick which requires a cavity unit ideally made for 100mm studwork. You can squeeze a 40mm door into a 90mm stud cavity unit but any warps or bow will cause problems. Standard lightweight domestic cavity units carry loads up to 65kg and are available to suit stud thicknesses of 70, 75, 90 and 100mm and come with the cavity pocket, head track assembly, removable pelmet, glide guide kit and trolley kit. They are made as either reversible single units or double units in the following sizes.



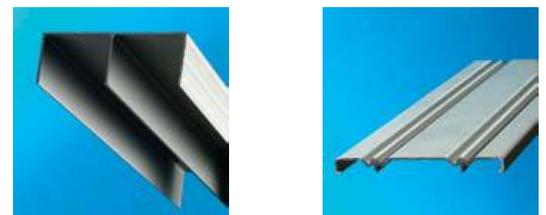
Door Size	Single Opening Width (mm)	Double Opening Width (mm)
2040 x 620	2130 x 1300	2130 x 2550
2040 x 720	2130 x 1500	2130 x 2950
2040 x 770	2130 x 1600	2130 x 3150
2040 x 820	2130 x 1700	2130 x 3350
2040 x 870	2130 x 1800	2130 x 3550
2340 x 620	2430 x 1300	2430 x 2550
2340 x 720	2430 x 1500	2430 x 2950
2340 x 820	2430 x 1700	2430 x 3150
2340 x 820	2430 x 1700	2430 x 3350

Flush jamb option (handle not supplied):
 Door finishes flush with jamb providing maximum opening width and allowing a cavity door lock to be fitted. Specifications (mm) Slimline 3000 units are available to suit stud thickness of 70, 75, 90 & 100mm. For thick floor covering pack the unit up an extra 15mm. Door sold separately. Door handle not included. *Double units must be specified at time of order. Recommend 90mm or 100mm stud/unit thickness for sizes larger than 2040mm height and 820mm width

It is never a good idea to use cavity sliding units on external walls as they become a haven for vermin, insects and sometimes even snakes or possums.

WHAT ABOUT WARDROBE DOORS?

Almost any door can be used in a wardrobe application although hinged or sliding options are most popular. Proprietary Sliding units from Corinthian are limited to 35mm thick doors and come made for 2, 3 or 4 door applications for standard height 2040 doors (requiring a stud opening of 2100mm) or 2340 doors (needing a stud opening height of 2400mm). The track is either satin silver or white in colour and the doors have a choice of either factory fitted timber handgrips or site installed flush pulls. The standard sizes for each application are as follows



OVERALL WIDTH with flush pull provision						
USING DOOR WIDTH	870	820	770	720	620	520
Two door unit (mm)	1753	1653	1553	1453	1253	1053
Three door unit (mm)	2598	2448	2298	2148	1848	1548
Four door unit (mm)	3443	3243	3043	2843	2443	2043

OVERALL WIDTH with timber finger grip						
USING DOOR WIDTH	870	820	770	720	620	520
Two door unit (mm)	1843	1743	1643	1543	1343	1143
Three door unit (mm)	2732	2582	2432	2282	1982	1682
Four door unit (mm)	3621	3421	3221	3021	2621	2221

Overall height: unit height = 2100mm using door 2040mm unit height = 2400mm using door 2340mm



don't let the interior doors show you've run out of imagination or budget

BRISBANE
 1095 Ipswich Rd
 Moorooka 4105
 ☎ 07 3848 1383
 F: 07 3892 1476

GOLD COAST
 Warehouse Road
 Southport 4215
 ☎ 07 5571 0088
 F: 07 5571 0617

SUNCOAST
 53 Wisers Road
 Maroochydore
 ☎ 07 5479 0999
 F: 07 5479 0911

SYDNEY
 2 Sydenham Rd
 Brookvale 2100
 ☎ 02 9938 4999
 F: 02 9938 4666

WHAT ABOUT INTERNAL BIFOLDING APPLICATIONS?

Just about any internal space can be divided by overhead tracked folding doors, provided sufficient structural support is available to carry the weight. The systems available are as follows

Lightweight Bifolds

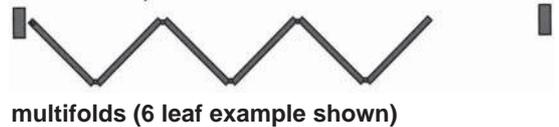
Typically these are two hollow core doors hung on an overhead track and can utilize individual doors up to 920mm wide but more commonly use half doors to achieve standard openings 2040 x 820/770/720 & 620. Off the shelf bifolds use doors 2015mm high rather than 2040mm high so that they align with any adjacent hinged doors. They typically require a stud opening 2080 high (minimum).

Heights are calculated as follows using an 820 door as the example

Height of leaf	= 2015mm
Allowance for track and fittings	= 23mm
Clearance at bottom for pivot (add any extra clearance for floor coverings)	= 20mm
19mm jamb thickness	= 19mm
Standard opening height	2077mm

Widths calculated as follows

Leaf width x number of leaves (405 x 2)	= 810mm
Add 6mm either side for pivot + clearance	= 12mm
Add 1.5mm per centre hinge knuckle	= 1.5mm
Add jamb thickness 19mm x 2	= 38mm
Fitting clearance to studs 4mm x 2	= 8mm
	869.5mm



Because lightweight doors permit very limited trimming the sizes of these units need to be standard. Standard hardware is limited to bright chrome or gold finish.

Lightweight Multifolds

Similar to the bifold option above but using any number of doors in an overhead tracked assembly dependant only on the structural support available. They are supplied as loose leaf with track and fittings extra. The track required is deeper (50mm rather than 23mm) so the overall structural opening should be 2110mm high. The stud to stud width required varies according to the configuration.

Large opening multifolds

For larger openings the cost of so many door leaves starts to become prohibitive and it is more economic to move to heavier duty tracks and larger doors provided sufficient stow space is available.

INTERNAL BIFOLDS - BRIO SHUTTERFOLD 20 ENGINEERED FOR 20KG DOORS

TO CALCULATE THE PRICE ADD THE FOLLOWING TOGETHER

COLUMN A TIMBER LINING (if required)	+	COLUMN B TOP TRACK	+	COLUMN C BOTTOM TRACK (if required)	+	COLUMN D HARDWARE	+	DOOR SASHES
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- All bifolds should have a bottom track to provide stability. Should you choose not to use the track it is strongly recommended to use barrel bolts.
- No hardware to flapper door on odd leaf configurations

WIDTH TO:	COLUMN A	COLUMN B	COLUMN C	No. Doors	COLUMN D
	TIMBER LINING height up to 2400mm	TOP TRACK	BOTTOM TRACK		HARDWARE
1500mm	\$198	\$58	\$84	2 Doors in one direction, no bottom track	\$246
2000mm	\$217	\$76	\$111	2 Doors in one direction, for bottom track or 1 x barrel bolt	\$270
2500mm	\$236	\$95	\$140	3 Doors in one direction, no bottom track	\$329
3000mm	\$254	\$113	\$167	3 Doors in one direction, for bottom track or 1 x barrel bolt	\$352
3500mm	\$272	\$132	\$195	4 Doors in one direction, for bottom track or 2 x barrel bolt	\$458
4000mm	\$281	\$150	\$224	5 Doors in one direction, for bottom track or 2 x barrel bolt	\$541
4500mm	\$293	\$169	\$252	6 Doors in one direction, for bottom track or 3 x barrel bolt	\$648
5000mm	\$329	\$189	\$279	2 Doors each way, no bottom track	\$492
5500mm	\$347	\$208	\$307	2 Doors each way, for bottom track or 2 x barrel bolt	\$539
6000mm	\$365	\$217	\$335	3 Doors each way, no bottom track	\$658
TIMBER LINING INCLUDES	2 x Jambes	19mm	Timber up to 140mm wide	3 Doors each way, for bottom track or 2 x barrel bolt	\$704
	2 x Door Stops	42 x 15mm	Timber	4 Doors each way, for bottom track or 4 x barrel bolt	\$918
	1 x Head	19mm	Timber up to 140mm wide	5 Doors each way, for bottom track or 4 x barrel bolt	\$1083
	2 x Pelmet	31 x 19mm	Timber	6 Doorseach way, for bottom track or 6 x barrel bolt	\$1296

EXAMPLE: 4 x 2040 x 720mm doors, with bottom channel

Height Calculation			Width Calculation			
Item	Qty	mm	Item	Qty	mm	mm
Head, if Rqd	19	19	Jambes, if Rqd	2	19	32
Top track	31	31	End gaps	2	6	12
Top gap	26	26	Door width	4	720	2880
Door	Nominate	2040	Door gaps	3	2.5	7.5
Bottom gap	7	7				
Channel, if Rqd	20	20				
Height opening (from floor to outside of head)	2140		Opening width (from outside of jambs)			2931.5

Approximate door weights:

Item	Dimensions	Material	Weight
Single light	2040 x 820 x 40mm	Cedar	23Kg
Vic. 4-Panel	2040 x 820 x 35mm	Cedar	16Kg
8 Panel	2040 x 820 x 40mm	Cedar	19Kg
American Oak	2040 x 720 x 40mm	Engineered	21Kg
10 light	2040 x 720 x 40mm	Cedar	18Kg
Hollow core	2040 x 720 x 35mm	MDF	14Kg
Solid core	2040 x 720 x 35mm	MDF	30Kg