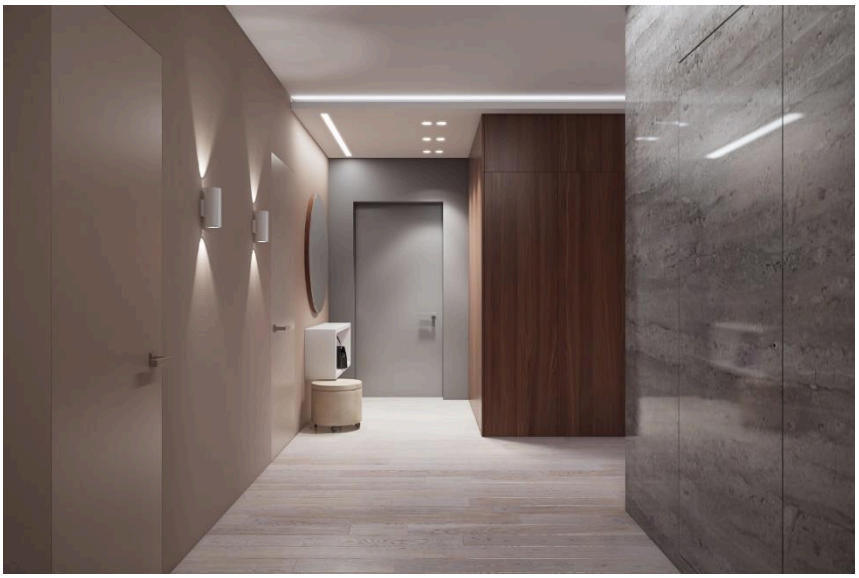
Ligna Product Data Sheet

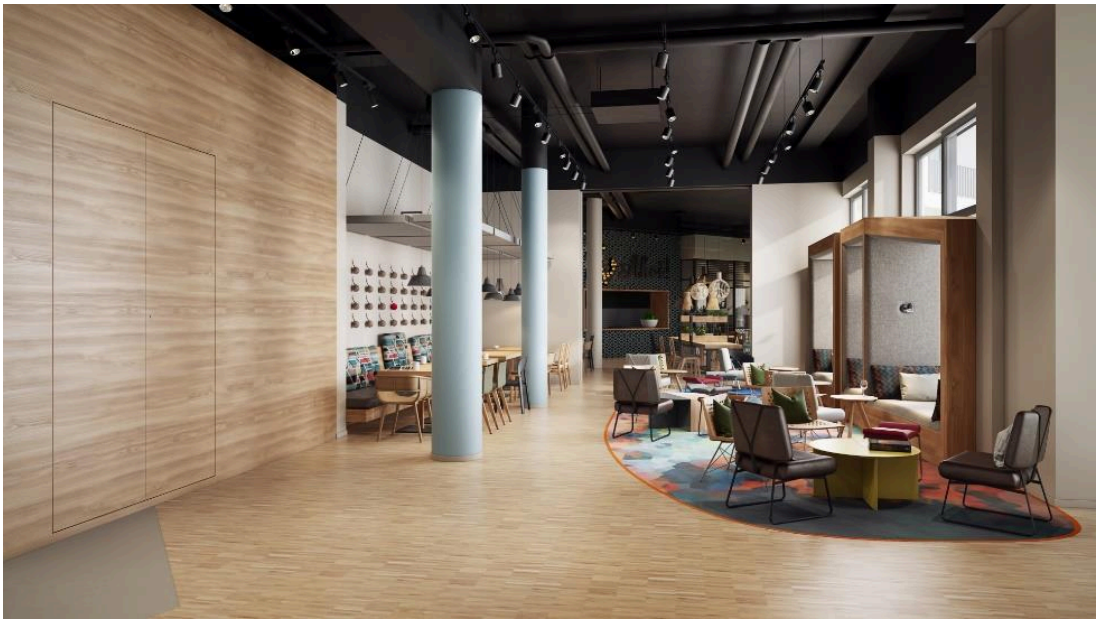
Ligna is a riser door product which allows the attachment of different substrates to its cosmetic face. Substrates designed for being Tiles, Plaster and Timber Panels.

Ligna Tile Door (Single Door)



Ligna Plaster Door (Single Door)

Ligna Timber Panel Door (Double Door)



01 A – TILE - MIN / MAX DOOR SIZE

TILE SGL FD60	Minimum	Door Height – 700mm Door Width – 450mm
	Maximum	Door Height – 2608mm if maximum width = 1035mm Door Height – 2875mm if maximum width = 939mm
TILE DBL FD60	Minimum	Door Height – 700mm Door Width – 450mm
	Maximum	Door Height – 2608mm if maximum width = 1035mm Door Height – 2875mm if maximum width = 939mm
TILE TPL FD60	Minimum	N/A
	Maximum	N/A

01 B– PLASTER - MIN / MAX DOOR SIZE

PLASTER SGL **FD60 + FD90**	Minimum	Door Height – 700mm Door Width – 450mm
	Maximum	Door Height – 2608mm if maximum width = 1035mm Door Height – 2875mm if maximum width = 939mm
PLASTER SGL **FD120**	Minimum	Door Height – 700mm Door Width – 450mm
	Maximum	Door Height – 2500mm Door Width – 900mm
PLASTER DBL **FD60 + FD90**	Minimum	Door Height – 700mm Door Width – 450mm
	Maximum	Door Height – 2608mm if maximum width = 1035mm Door Height – 2875mm if maximum width = 939mm

PLASTER TPL	Minimum	N/A
	Maximum	N/A

01 C – TIMBER PANEL - MIN / MAX DOOR SIZE

TIMBER PANEL SGL **FD60**	Minimum	Door Height – 700mm Door Width – 450mm
	Maximum	Door Height – 2608mm if maximum width = 1035mm Door Height – 2875mm if maximum width = 939mm
TIMBER PANEL DBL **FD60**	Minimum	Door Height – 700mm Door Width – 450mm
	Maximum	Door Height – 2608mm if maximum width = 1035mm Door Height – 2875mm if maximum width = 939mm
TIMBER PANEL TPL **FD60**	Minimum	N/A
	Maximum	N/A

01 C2 – WALL TIMBER PANEL - THICKNESS CALCULATION

To calculate wall panel thickness =

Door Panel Thickness – Hanging Method Thickness

02 – DOOR WEIGHTS (Excluding panel/tile/plaster)

TILE	**22 kg/m2**
PLASTER	**22.9 kg/m2**
TIMBER PANEL	**17.6 kg/m2**

03 - FIRE RATING

TILE – SGL	**FD60**	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
TILE – DBL	**FD60**	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
TILE – TPL	**N/A**	**N/A**
PLASTER – SGL	**FD60**	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
	FD90	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
	FD120	**Max Door Leaf – 2500mm x 900mm**
PLASTER – DBL	**FD60**	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
	FD90	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
	FD120	**N/A**
PLASTER – TPL	**N/A**	**N/A**
TIMBER PANEL – SGL	**FD60**	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
TIMBER PANEL – DBL	**FD60**	**Max Door Leaf – 2608 x 1035mm or 2875 x 939**
TIMBER PANEL – TPL	**N/A**	**N/A**

04 - ACOUSTIC RATING

TILE – SGL / DBL / TPL PLASTER – SGL / DBL / TPL	**32db – Standard** **35db – Rockwool Core** **36db – Acoustic mat on rear of door + astragals**
TIMBER PANEL – SGL / DBL / TPL	**No current rating**

05 – MAXIMUM TILE / TIMBER PANEL THICKNESS

TILE - FR	If hinge edge is chamfered	12mm + 2mm Adhesive
	If hinge edge is not chamfered	12mm + 2mm Adhesive
TIMBER PANEL - FR	Hinge edge chamfered	15mm
PLASTER - FR	n/a	n/a

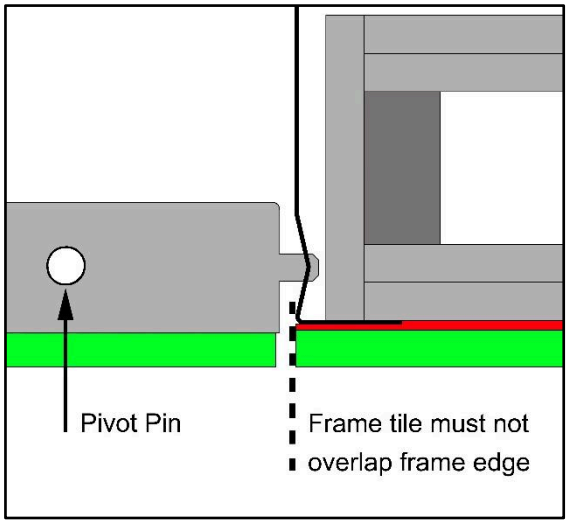
TILE - NFR	If hinge edge is chamfered	30mm + 2mm Adhesive
	If hinge edge is not chamfered	12mm + 2mm Adhesive
TIMBER PANEL - NFR	Hinge edge chamfered	30mm
PLASTER - NFR	n/a	n/a

06 – TILE / TIMBER PANEL DOOR GAPS

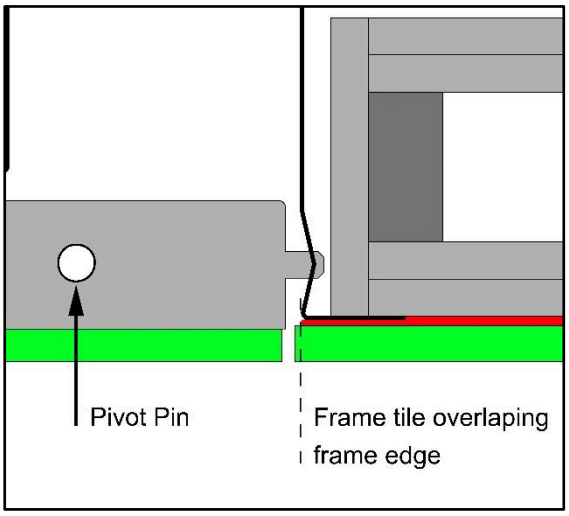
TILE – STANDARD INSTALLATION	If hinge edge is chamfered	6mm	LATCH EDGE = 4mm	PIVOT EDGE = 4.5mm
		8mm	LATCH EDGE = 4mm	PIVOT EDGE = 4.5mm
		10mm	LATCH EDGE = 4mm	PIVOT EDGE = 4.5mm
		12mm	LATCH EDGE = 4mm	PIVOT EDGE = 4.5mm
	If hinge edge is not chamfered	6mm	LATCH EDGE = 4mm	PIVOT EDGE = 6mm
		8mm	LATCH EDGE = 4mm	PIVOT EDGE = 7mm
		10mm	LATCH EDGE = 4mm	PIVOT EDGE = 7mm
		12mm	LATCH EDGE = 4mm	PIVOT EDGE = 7mm

TILE – IF PIVOT EDGE FRAME TILE IS SET INBOARD	If hinge edge is chamfered	6mm	LATCH EDGE = 4mm	SET TILE IN BY 0.5mm PIVOT EDGE = 4mm
		8mm	LATCH EDGE = 4mm	SET TILE IN BY 0.5mm PIVOT EDGE = 4mm
		10mm	LATCH EDGE = 4mm	SET TILE IN BY 0.5mm PIVOT EDGE = 4mm
		12mm	LATCH EDGE = 4mm	SET TILE IN BY 0.5mm PIVOT EDGE = 4mm
	If hinge edge is not chamfered	6mm	LATCH EDGE = 4mm	SET TILE IN BY 1mm PIVOT EDGE = 6mm
		8mm	LATCH EDGE = 4mm	N/A
		10mm	LATCH EDGE = 4mm	N/A
		12mm	LATCH EDGE = 4mm	N/A

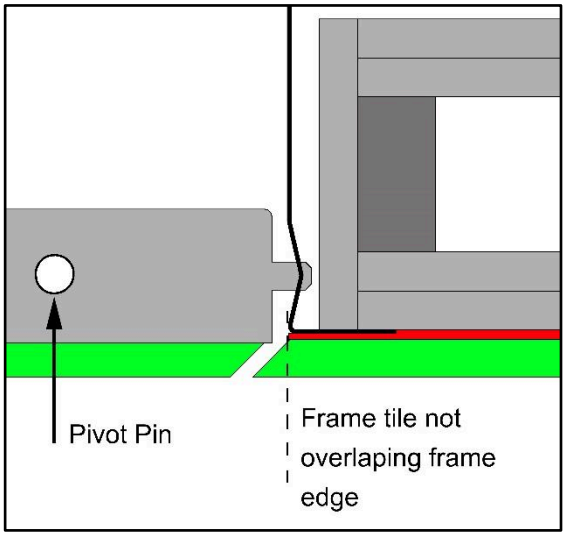
Tile – No Chamfer – Standard Installation



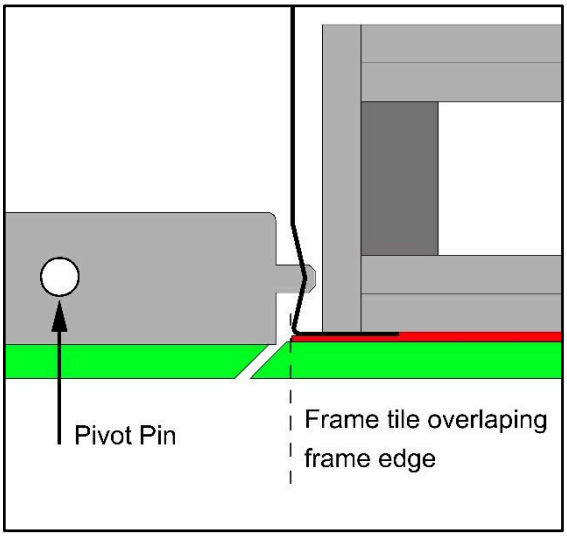
Tile – No Chamfer – Tile Set Inboard Installation



Tile – Chamfer – Standard Installation

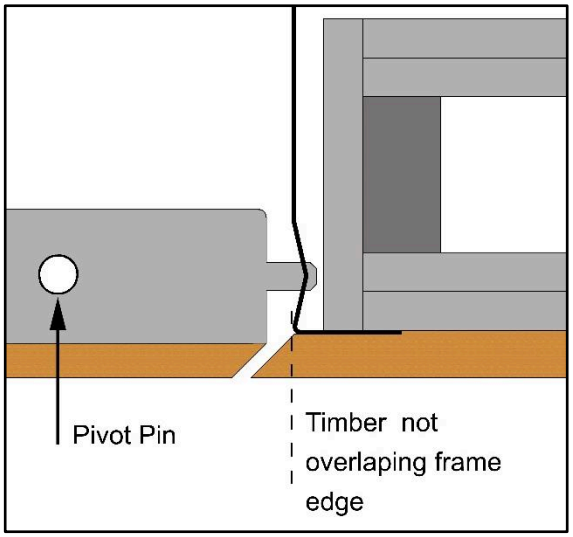


Tile – Chamfer – Tile Set Inboard Installation

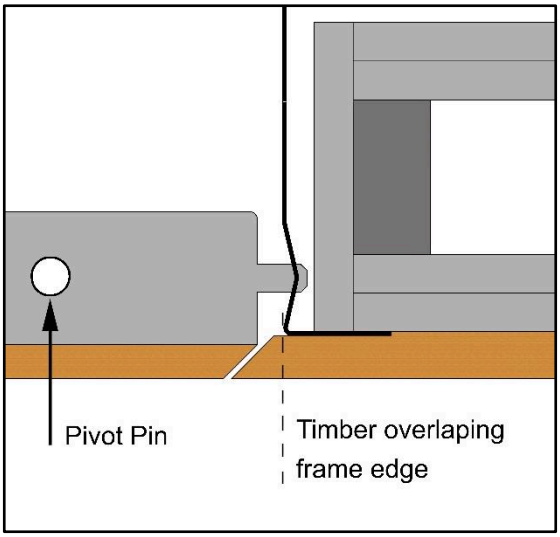


TIMBER PANEL – STANDARD INSTALLATION	If hinge edge is chamfered	6mm	LATCH EDGE = 3mm	PIVOT EDGE = 4mm
		9mm	LATCH EDGE = 3mm	PIVOT EDGE = 4mm
		12mm	LATCH EDGE = 3mm	PIVOT EDGE = 4mm
		15mm	LATCH EDGE = 3mm	PIVOT EDGE = 4mm
TIMBER PANEL – IF PIVOT EDGE TIMBER PANEL IS SET INBOARD	If hinge edge is chamfered	6mm	LATCH EDGE = 3mm	SET IN BY 1mm PIVOT EDGE = 3mm
		9mm	LATCH EDGE = 3mm	SET IN BY 1mm PIVOT EDGE = 3mm
		12mm	LATCH EDGE = 3mm	SET IN BY 1mm PIVOT EDGE = 3mm
		15mm	LATCH EDGE = 3mm	SET IN BY 1mm PIVOT EDGE = 3mm

Tile – Standard Installation



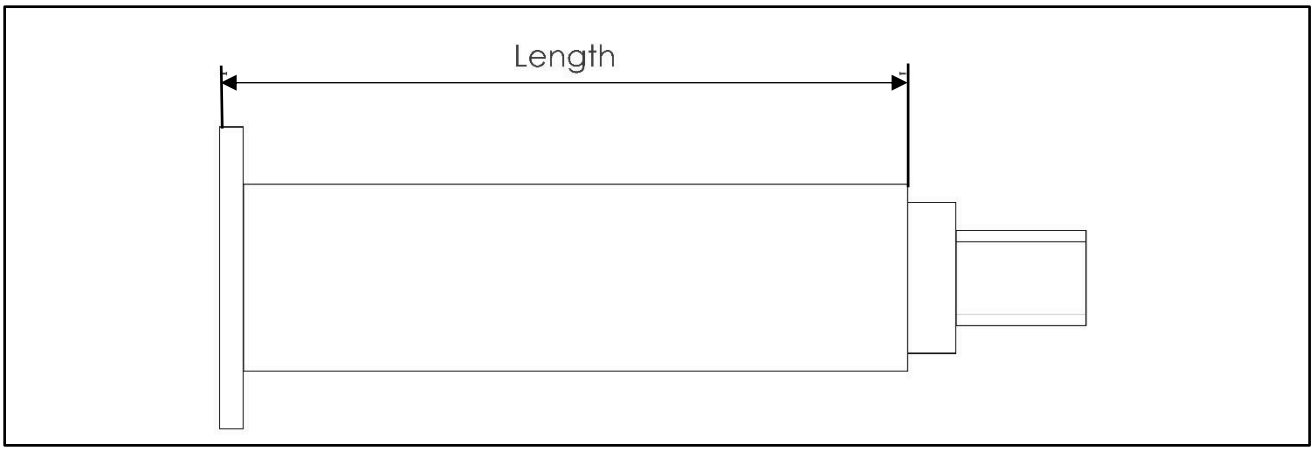
Tile – Tile Set Inboard Installation



07 – MAX WEIGHT OF TILE / PANEL

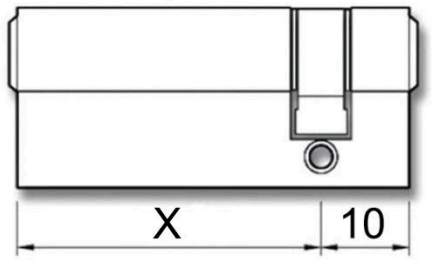
TILE	100kg
TIMBER PANEL	100kg
If door width is over 0.5 door height, please contact technical	

08 – SQUARE KEY LOCK INSERT LENGTH



TILE	6mm	Length = 51mm
	8mm	Length = 53mm
	10mm	Length = 55mm
	12mm	Length = 57mm
TIMBER PANEL REVISION 1	6mm	Length = 59mm
	9mm	Length = 62mm
	12mm	Length = 65mm
	15mm	Length = 68mm
TIMBER PANEL REVISION 2	6mm	Length = 49mm
	9mm	Length = 52mm
	12mm	Length = 55mm
	15mm	Length = 58mm
PLASTER	n/a	Length = 43mm

09 – EURO CYLINDER LENGTH



TILE	X = (51 + Tile Thickness)
TIMBER PANEL REV 1	X = (60 + Timber Thickness)
TIMBER PANEL REV 2	X = (50 + Timber Thickness)
PLASTER	X = 50

10 – SQUARE KEY LOCK HEIGHT

ALL DOORS	MINIMUM HEIGHT	200mm below door horizontal centreline
	MAXIMUM HEIGHT	200mm above door horizontal centreline

11 – CLEAR OPENING CALCULATIONS from door sizes

TILE	SGL	Door Width - **184**
		Door Height **-27**
	DBL	(Door Width x 2) - **214**
		Door Height **-27**
	TPL	(Door Width x 3) **-375**
		Door Height **-27**

PLASTER	SGL	Door Width - **186**
		Door Height **-27**
	DBL	(Door Width x 2) -**215**
		Door Height **-27**
	TPL	(Door Width x 3) – **381**
		Door Height **-27**
TIMBER PANEL	SGL	Door Width - **186**
		Door Height **-27**
	DBL	(Door Width x 2) - **218**
		Door Height **-27**
	TPL	(Door Width x 3) **-411**
		Door Height **-27**

12 – STRUCTURAL OPENING CALCULATIONS from door size (5mm tolerance allowed between S/O and frame)

TILE	SGL	Door Width **+ 24**
		Door Height **+ 23**
	DBL	(Door Width x 2) **+ 33**
		Door Height **+ 23**
	TPL	(Door Width x 3) **+ 36**
		Door Height **+ 23**
PLASTER	SGL	Door Width **+ 18**
		Door Height **+ 23**
	DBL	(Door Width x 2) **+ 24**
		Door Height **+ 23**
	TPL	(Door Width x 3) **+ 25**
		Door Height **+ 23**

TIMBER PANEL	SGL	Door Width + **22**
		Door Height **+ 23**
	DBL	(Door Width x 2) **+ 29**
		Door Height **+ 23**
	TPL	(Door Width x 3) **+ 30**
		Door Height **+ 23**

13 – DOOR SIZE CALCULATIONS from structural opening (5mm tolerance allowed between S/O and frame)

TILE	SGL	**WIDTH** = S/O – 24
		HEIGHT = S/O – 23
	DBL	**WIDTH** = (S/O -33) /2
		HEIGHT = S/O – 23
	TPL	**WIDTH** = (S/O -35) /3
		HEIGHT = S/O – 23
PLASTER	SGL	**WIDTH** = S/O – 18
		HEIGHT = S/O – 23
	DBL	**WIDTH** = (S/O -24) /2
		HEIGHT = S/O – 23
	TPL	**WIDTH** = (S/O -25) /3
		HEIGHT = S/O – 23
TIMBER PANEL	SGL	**WIDTH** = S/O – 22
		HEIGHT = S/O – 23

	DBL	**WIDTH =** (S/O -30) /2
		HEIGHT = S/O – 23
	TPL	**WIDTH =** (S/O -27) /3
		HEIGHT = S/O – 23