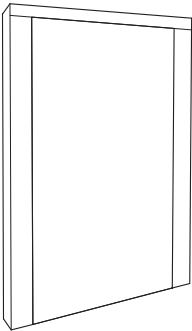


specification for
e98passiv hinged front doors

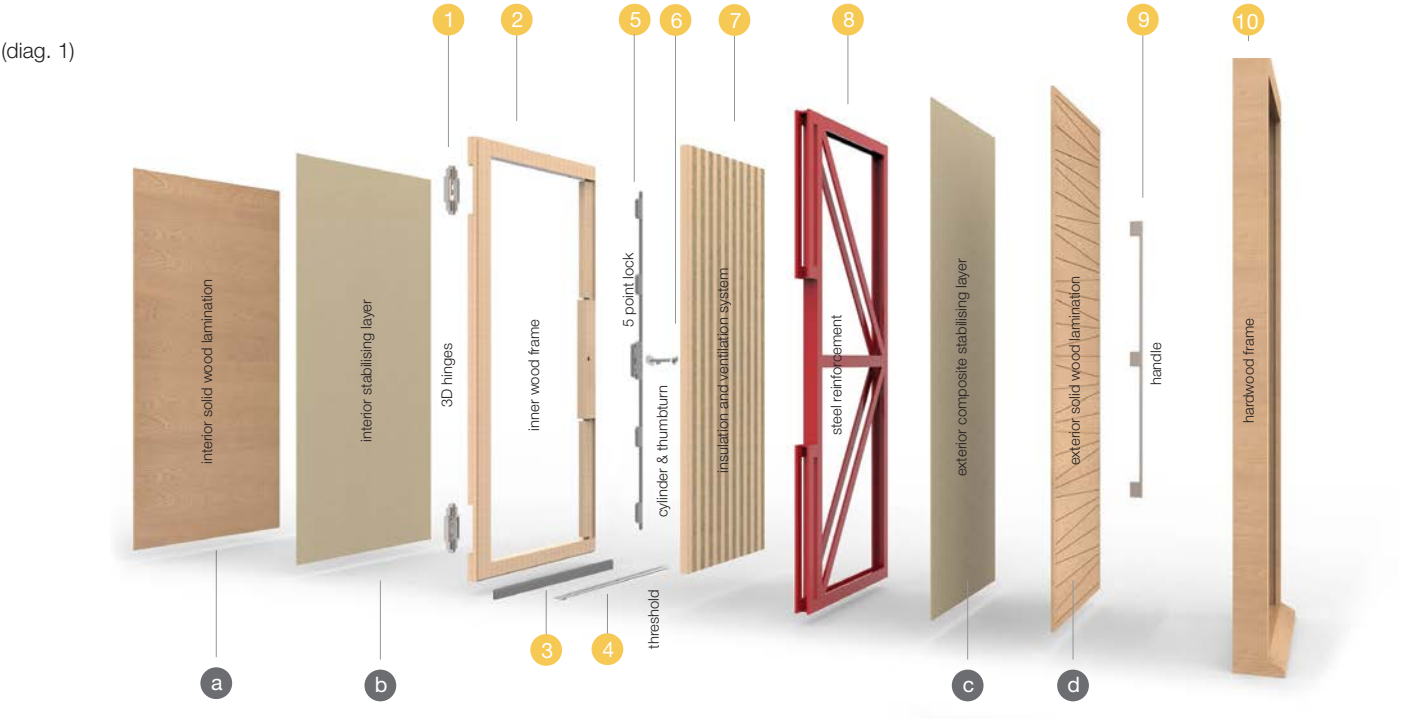
Fully Certified to Passivhaus Standards



Frame sizes (single doorset)			Door values	
	Width mm	Height mm		
(Certified) Standard frame size up to	1100	2200	Total door thickness	98mm
(Non-Certified) Bespoke frame size up to	1500	3000	Door leaf insulation	0.82W/m²k
			Sound insulation	32db
			Eco Wood Fibre insulation	270 Kg/m3

Please note: our Passive specification is only available in designs that **DO NOT** include glass.

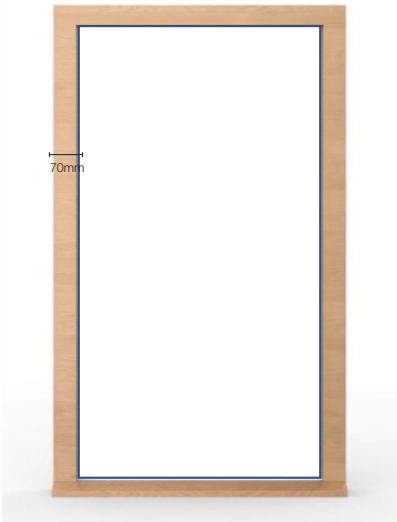
Door structure					
1	3d hinges	✓	a	Interior solid wood lamination layer	5mm
2	Inner wood frame	✓	b	Interior composite stabilising layer	10mm
3	Bottom drop-down seal	✓	c	Exterior composite stabilising layer	10mm
4	Mobility threshold (Part M)	✓	d	Exterior solid wood lamination layer	5mm
5	5 point lock (see page 3 for all locking options)	✓	Door finish options*		
6	Thumbturn cylinder	✓		Sealing / protective	Unfinished
7	Eco Wood Fibre insulation / ventilation	✓	Hardwood	Oil Lacquer	N/A
8	Double steel reinforcement	✓			
9	Handle (pull & lever styles available)	✓	Metallic	Beeswax Lacquer	Oxidises Weathers naturally
10	Hardwood frame (see next page for details)	✓			



*Maintenance frequency varies depending on finish and exposure (page 4). RAL painted doors do not require an additional protective finish

Frame structure

Solid wood laminated frame (mm)	70 w x 98d
Triple rebated frame	✓
Double acoustic weatherseals withstanding temperatures	-30c - +70c
Matching solid wood cill	✓
Slimline threshold compliant with Part M building regulations	✓
Bottom drop down seal in addition to weather seal	✓



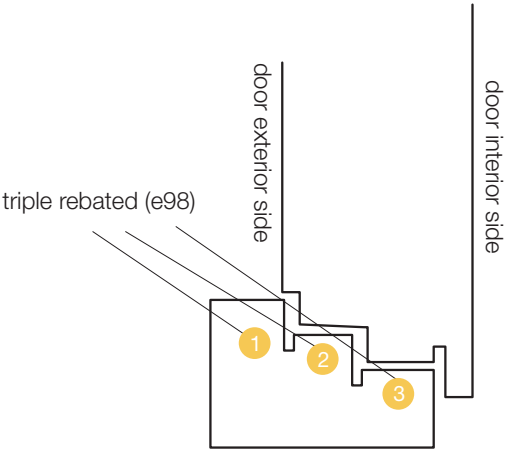
Triple rebated for maximum performance

Our e98 passiv specification comes complete with a market-leading triple rebate (diag. 2) and the highest level of insulation. Each rebate is a step that helps to provide an obstacle and prevent air or water getting through. Our standard e80 hinged doors are double rebated and provide exceptional weather-sealing that is also suitable for air-testing.

However the additional 3rd rebate in our Passive door means the very highest performance when it comes to weather-sealing and it has been designed specifically to meet and pass strenuous Passivhaus standards.

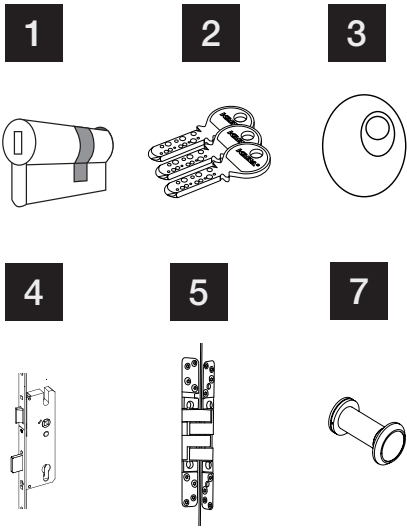
Internally, our Passive doors feature the same high specification double steel reinforcement and unique ventilation system as our standard recessed (e80) and flush (e98) doors. Our Passive spec is only available with a hinged door opening

(diag. 2). Door side view



Security & Hardware

1	High security cylinder	✓
2	Security keys*	3
3	Security escutcheon	✓
4	Security multipoint lock:	✓
	- tested to ENV 1627-1630	✓
	- resistance class 4	✓
	- fire tested to EI30	✓
5	Reinforced, multiaxial 3D concealed hinges	2 per door
	- tested to EN1935:2002	✓
	- maximum weight	180kg
	- maximum horizontal stress	360N
6	Door viewer (OPTIONAL EXTRA)	✓
*Extra security keys available		✓



high security locking & door closing options

All our locking options are highly secure. Learn the differences in practical use below.

INCLUDED

Multi-point lock + thumbturn

Our 5-point lock requires locking with the key when you leave the house.

From the inside: as a minimum the door is always locked on the latch when it is shut, turn the thumbturn to fully secure the door and double lock it (and unlock the door again)

From the outside: when the door is shut, use the key to lock the door (and unlock the door again).

(OPTIONAL EXTRA)

Self-locking multi-point lock + thumbturn (mechanical, no wiring required)

For added peace of mind, the 3-point self-locking option means you don't have to worry about locking your door with the key when you leave the house.

From the inside & outside: when the door is shut, the multi-point lock is automatically engaged and locks the door.

You do not need to use the key from the outside to lock the door.

You do need the key to unlock from the outside.



PLEASE NOTE: ALL OPTIONS BELOW ARE SUPPLIED FITTED ONLY. A PROFESSIONAL ELECTRICIAN IS REQUIRED ONSITE FOR FINAL WIRING.

(OPTIONAL EXTRA)

Motorised self-locking & fingerprint entry (or other automatic/electrical entry system) + thumbturn

Choose this option where self-locking and no keys are preferred. This locking system acts the same as self-locking but allows integration with additional electrical/keyless opening systems.

Motorised self-locking:

From the inside & outside: when the door is shut, the lock is automatically engaged and locks the door.

The lock is designed to stay locked in case of a power cut.

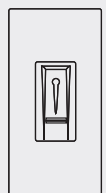
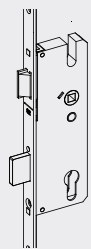
You will still receive keys in case a manual override is required.

Fingerprint entry system:

Register up to 99 fingerprint sets to unlock the door from the outside without a key. This can be integrated with motorised locking.

Other 3rd party entry systems (not supplied):

These can be used in conjunction with fingerprint entry or on their own. They will also require the motorised locking option.



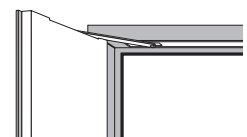
(OPTIONAL EXTRA)

Door closing: concealed hinged soft-closing system



Highly recommended where hinged doors are being fitted into glass (curtain walling).

This option prevents the door from slamming shut (reducing possible and repeated impact on the glass) and allows the door to close gently on its own.

The concealed hinged door closer will not let the door stay open. A door stop or wedge would be needed if required.



The beauty of **real natural hardwood** is in both its aesthetics & properties, in the long-run it will outperform any man-made equivalent. We offer a wide range of choices to allow you to create the perfect door bespoke to your needs. The amount of exposure (weather impact) your door will receive affects our recommendations for certain combinations. Use the table + key below to learn more.

KEY				
		<div style="width: 20px; height: 20px; background-color: #2e8b57;"></div>	This door combination is suitable & reflects the expected average maintenance frequency	
		<div style="width: 20px; height: 20px; background-color: #ff8c00;"></div>	This door combination may need a higher level of maintenance. Darker woods in particular may see minor changes in colour and/or hairline splits may develop over time.	
		<div style="width: 20px; height: 20px; background-color: #dc143c;"></div>	This door combination is not recommended. These combinations may incur more noticeable changes in colour, hairline splits & require high maintenance levels.	
		High exposure (fully open to the elements and/or coastal locations)	Semi-exposed (protected by canopy/ porch min. size half the door height on all sides)	Protected (fully setback or protected all sides by a porch/canopy)
				
Pick one choice from each of A,B,C to make up your basic specifications & see how suitable the combinations are for your door location				
A	Door opening	Hinged	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>
B	Door material	Lighter wood (oak, iroko, cedar)	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>
		Dark wood (walnut)	<div style="background-color: #dc143c; width: 100%; height: 20px; text-align: center;">*</div>	<div style="background-color: #ff8c00; width: 100%; height: 20px; text-align: center;">*</div>
		Dark wood (fumed oak)	<div style="background-color: #dc143c; width: 100%; height: 20px; text-align: center;">*</div>	<div style="background-color: #ff8c00; width: 100%; height: 20px; text-align: center;">*</div>
		Dark stain (ebony, walnut etc.)	<div style="background-color: #dc143c; width: 100%; height: 20px; text-align: center;">*</div>	<div style="background-color: #ff8c00; width: 100%; height: 20px; text-align: center;">*</div>
		Painted	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>
		¹ Bronze	<div style="background-color: #ff8c00; width: 100%; height: 20px; text-align: center;">*</div>	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>
C	Door structure (placement in frame)	² Passive	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>
			<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>	<div style="background-color: #2e8b57; width: 100%; height: 20px;"></div>
Door finish (average maintenance frequency shown in table)		Oiled	if these options are selected, maintenance may be significantly increased	
		Lacquered	3m-1year	Once a year
			1-5 years	3-10 years

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