

QUALITY, DURABILITY

HIGH PERFORMANCE DOOR SETS

IMPROVED CONSTRUCTION, SECURITY AND
RANGE OF STYLES



**CONTINENTAL STYLE,
BRITISH WINTER
PERFORMANCE**



- Improved thermal performance.
- Quality laminated Redwood Nordic Pine construction.
- Hardwood sills for greater durability.
- Supplied fully finished in our extended range of paints and stains.
- Secured by Design locking system fitted as standard to all single and double door sets.
- Available in various design and size configurations.
- Manufactured from the finest PEFC accredited timber on request.

- Extended guarantees for long-lasting peace of mind.

- European Conformity.



- Incorporating Swisspacer ULTIMATE, the leading warm edge spacer fitted where appropriate.

SWISSPACER
SAINT-GOBAIN

THE HIGH PERFORMANCE DOOR SET RANGE WITH CONTINENTAL STYLING BUILT TO TAKE ON THE BRITISH WINTER



We have improved our extensive range of door sets with the introduction of a revolutionary range of laminated Redwood Nordic Pine panel and French Casement doors.

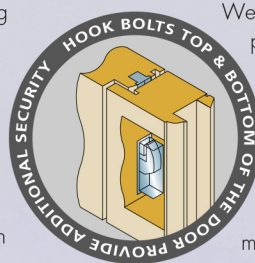


Designed to meet the rigorous standards of Document L and to provide improved performance and security, this range incorporates 58mm thick doors, The doors mirror the 24mm low-E drained and

ventilated glazing system and 6° sloped glazing platforms, as currently used on Howarth window ranges and, together with matching beads and glazing bars, can be used to form a complimentary suite.

The use of hook bolts top and bottom, deadlocking locks fitted centrally on both single and French door sets together with security hinges, afford a high level of security. Both single and double door sets achieved PAS24:2012 at an accredited UKAS testing house.

French doors also incorporate a concealed deadbolt top and bottom in the slave door.



Weatherproofing is essential to protect the home - keeping warmth in and rain out. All Howarth's High Performance Door Sets include full weather stripping around the doors and for French doors, a double strip between the meeting stiles.



THE HIGHEST STANDARDS OF CONSTRUCTION, FEATURES AND FINISHING OPTIONS



SECURED BY DESIGN

For extra security and peace of mind, single and double door sets in the High Performance range are fitted with Secured by Design (S.B.D.) locking systems as standard.



NOTE: If glass is required in the door design, only door sets fitted with laminated glazing will be sold as meeting Secured by Design standards. For further details on how to ensure compliance with S.B.D. please contact our Sales Office on 01469 530577.



(Above) Handles are available in a range of colours and Polished Chrome effect and Polished Brass effect finishes.



Choose from a range of **Ironmongery Options** from Letter Plates, Knockers to Security Chains,

Insulated Timber Panels meet Document L requirements for thermal efficiency.

Standard Stain Finishes



OAK



TEAK



HONDURAS

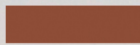


WALNUT

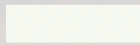


ROSEWOOD

Standard Paint Finishes



COPPER BROWN



PURE WHITE



GARDENIA



COUNTRY CREAM



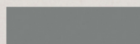
BUTTERMILK



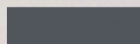
PALE GREEN



PEBBLE GREY



DUSTY GREY



SLATE GREY



PASTEL BLUE

NOTE: All Howarth paint/stain finishes are silk and not high gloss.

FINISHING OPTIONS

Choose from a range of paint and stain finishes with built-in high performance, endurance and quality,

NOTE: Frames are generally available in standard RAL colours except black. For availability of other darker shades please contact our Sales Office on 01469 530577.



GUARANTEES

As a result of the improved stability of laminated timber construction we are able to provide guarantees for ten years on our paint finish and six years on our stain finish.



Stain Finish



Paint Finish



Rot and Fungal Attack



Sealed Units



Ironmongery

NOTE: All guarantees given in this catalogue are subject to limitations and are strictly dependent upon compliance with manufacturers' usage and maintenance instructions. These are available upon request.

Timber. All timber used is laminated Redwood Nordic Pine from well managed yield sources,



wood. for good.



Hardwood Sill. For increased durability.

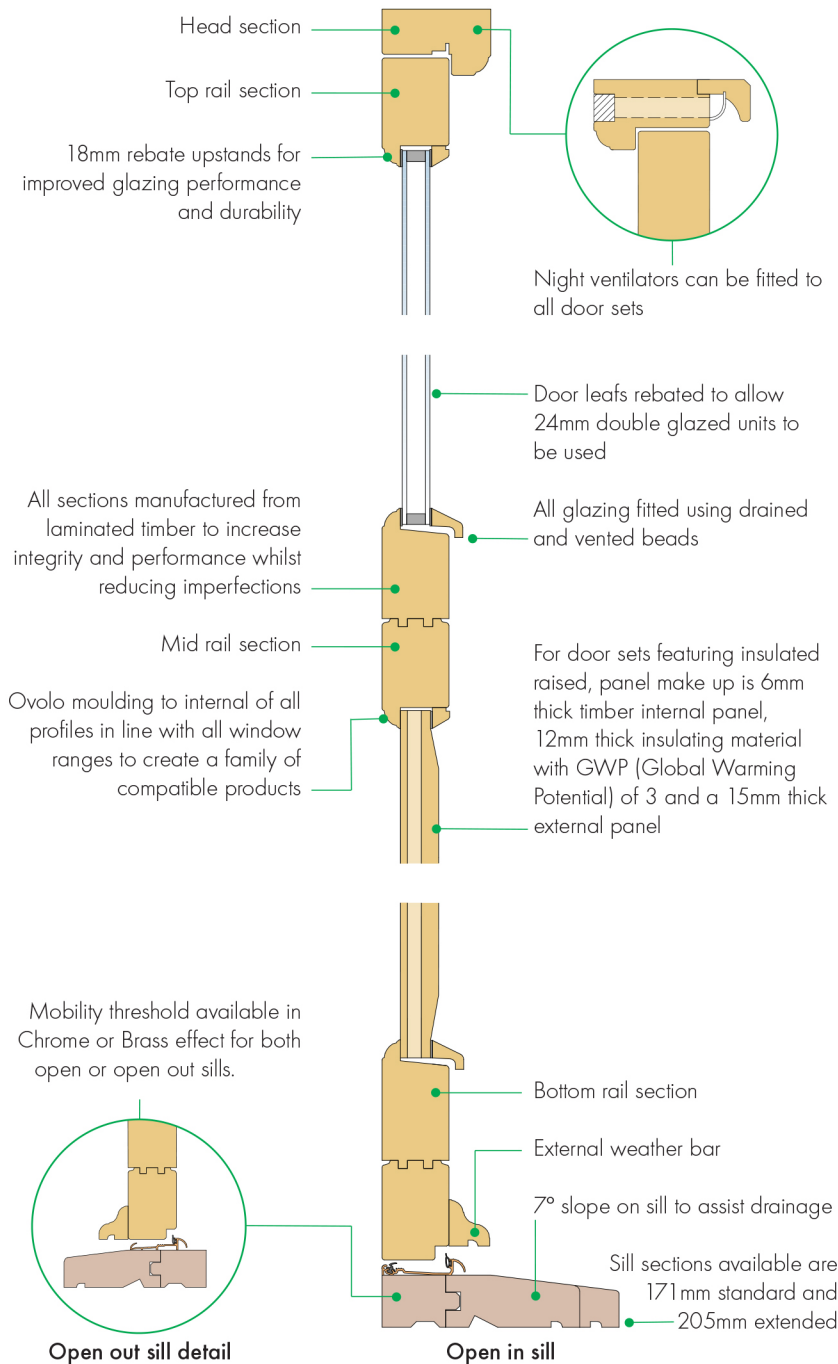
NOTE: HARDWOOD DOOR SILL SHOULD NOT BE PAINTED OR STAINED.



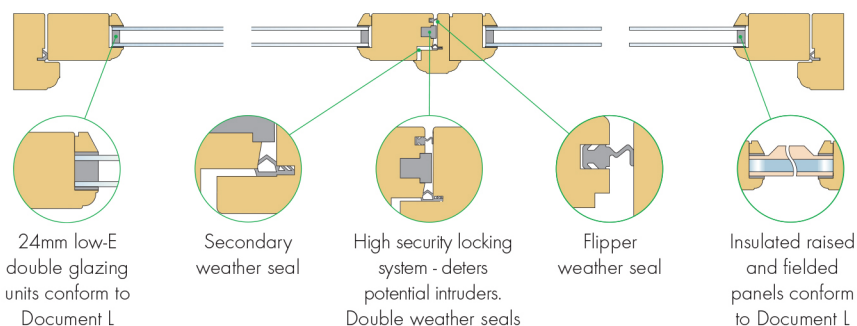
The Howarth High Performance Door Set range is manufactured and inspected to BS644:2012 under the strict guidelines set out by the British Woodworking Federation's Timber Window Accreditation Scheme, which is now inspected under the BSI Kitemark Scheme, ensuring that clients receive the best quality products and the highest levels of performance.



CROSS SECTION THROUGH THE VERTICAL



CROSS SECTION THROUGH THE HORIZONTAL

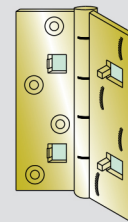


DOOR SET SECURITY

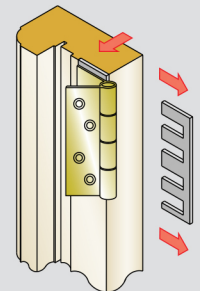
For extra security and peace of mind, the High Performance range of single and double door sets are fitted with Secured by Design (S.B.D.) locking system as standard.



NOTE: If glass is required in the door design, only door sets fitted with laminated glazing will be sold as meeting Secured by Design standards. For further details on how to ensure compliance with S.B.D. please contact our Sales Office on 01469 530577.



Security hinges stop potential intruders from lifting the hinge to gain access.



Hinge packers allow the hinges to be moved in or out from the jamb to allow for swelling or shrinkage.

To help deal with the problems associated with moisture movement, we have adjusted the tolerances and changed to the hook lock, which is much more tolerant of small movements in timber. It also incorporates hinge packers, which can be removed by loosening the screws, providing a tolerance at the closing edge, and adding extra tolerance to the meeting stiles. (The packers can be replaced if shrinkage does occur).

The best way to avoid excess movement in timber doors is to follow the guidelines in the British Woodworking Federation's Guide No.11 'Care of Timber Doors On-Site' (available from the Sales Office on 01469 530577).

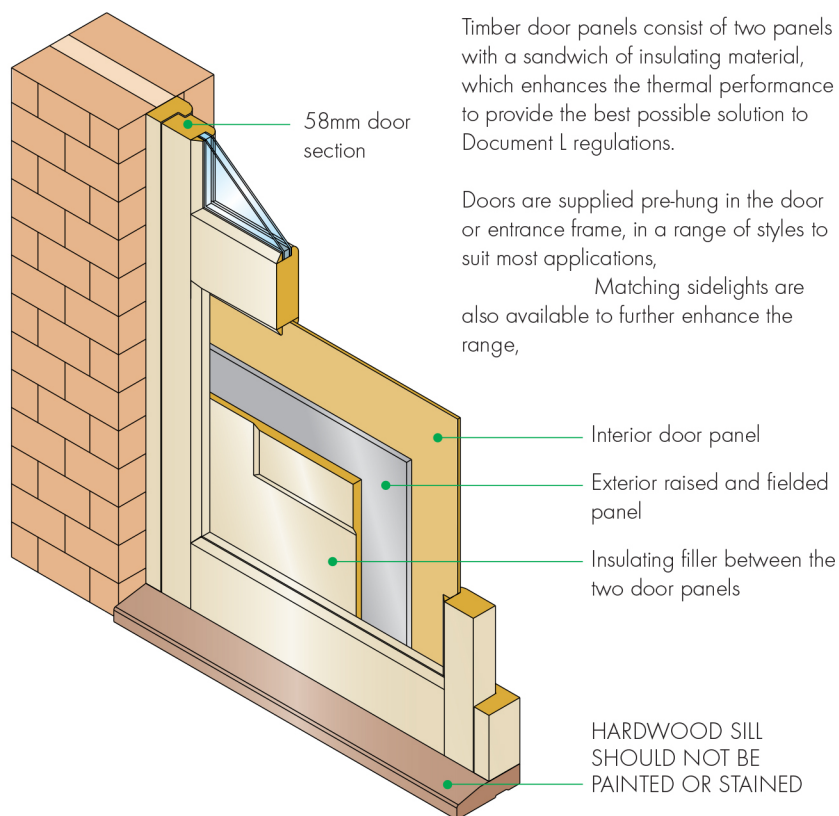
CE MARKING

EUROPEAN CONFORMITY

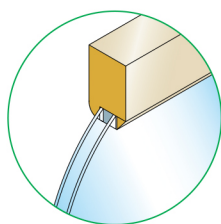
For further details of CE (European Conformity)



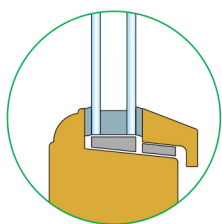
STRUCTURAL AND INTERNAL FEATURES OF THE HIGH PERFORMANCE DOOR SET



GLAZING SYSTEM DETAIL



24mm low-E double glazed units now fitted as standard, help to meet Document L regulations.

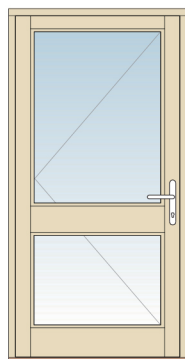


Drained and vented glazing system helps prolong the life of the sealed unit enabling us to offer a 10-year guarantee on the glazing unit.

CALCULATED BENCHMARK U-VALUES (W/m²K)

Door set U-values with 24mm (4mm-16mm-4mm) low-E

Benchmark A



1.6 W/m²K
1.4 W/m²K

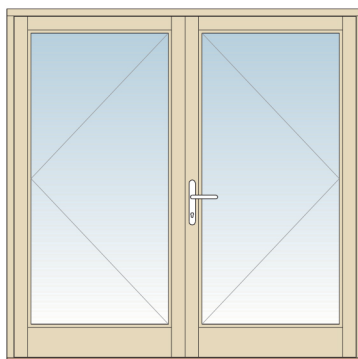
Benchmark A
1230mm wide x
2180mm high

Benchmark B
2000mm wide x
2180mm high

Argon-filled low-E
Benchmark 1.6 W/m²K

Warm edge spacer
Benchmark 1.4 W/m²K

Benchmark B



1.5 W/m²K
1.4 W/m²K

PRODUCT RANGE

- 78 SECURITHERM™ HIGH PERFORMANCE MOBILITY DOOR SETS
- 79 SECURITHERM™ HIGH PERFORMANCE SINGLE DOOR SETS
- 80 SECURITHERM™ HIGH PERFORMANCE SINGLE DOOR SETS WITH SIDELIGHTS
- 81 SECURITHERM™ HIGH PERFORMANCE DOUBLE DOOR SETS
- 82 SECURITHERM™ HIGH PERFORMANCE DOUBLE DOOR SETS WITH SIDELIGHTS
- 83 TIMBER DOORS
- 84 FRENCH DOORS
- 85 TIMBER SIDELIGHTS
- 86 DOOR SET OPTIONS



SECURITHERM™ HIGH PERFORMANCE DOOR SETS

Securitherm High Performance Door Sets offer a high quality, durable option. Security is paramount with all door sets engineered to meet Secured by Design as standard.

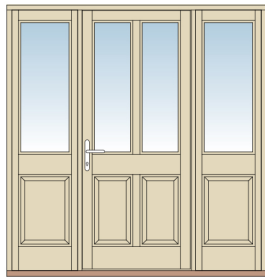
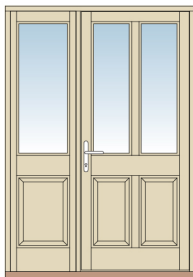
Securitherm High Performance Mobility Door Sets also comply with The Building Regulations 2004 Part M; Access and Facilities for Disabled People (Amended 2010 & 2013) which state that all new dwellings should have at least one accessible entrance for disabled people.

- Compliance with Part M requirements where required.
- Compliance with PAS24:2012 as standard.
- Mobility thresholds can be used for both inward and outward opening doors (please state which is required when ordering).
- Heavy duty, long life construction.



78

SECURITHERM™ HIGH PERFORMANCE MOBILITY DOOR SETS



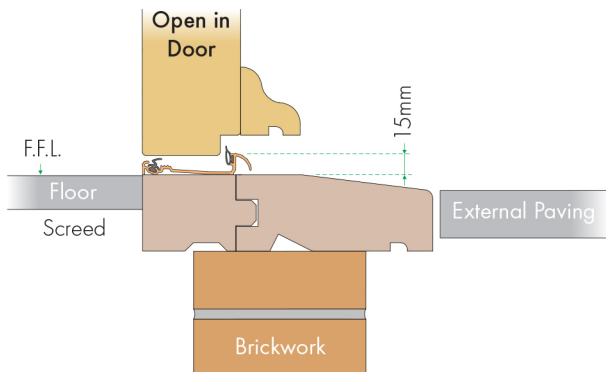
WIDTH	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL
950	FNS21MB				
1002	FNS30MB				
1272		FE127MB			
1347		FE135MB			
1378			FE1321MB		
1422		FE142MB			
1494		FE150MB			
1528			FE1521MB		
1650		FE165MB		FED165MB	
1800		FE180MB		FED180MB	
1831			FE1821MB		FED1821MB
1950				FED195MB	
2100				FED210MB	

NOTE: All illustrations above tables show exterior views.

SETTING IN MOBILITY DOOR SETS

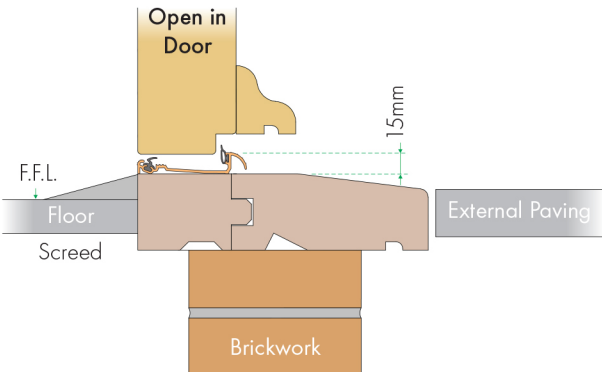
Option 1

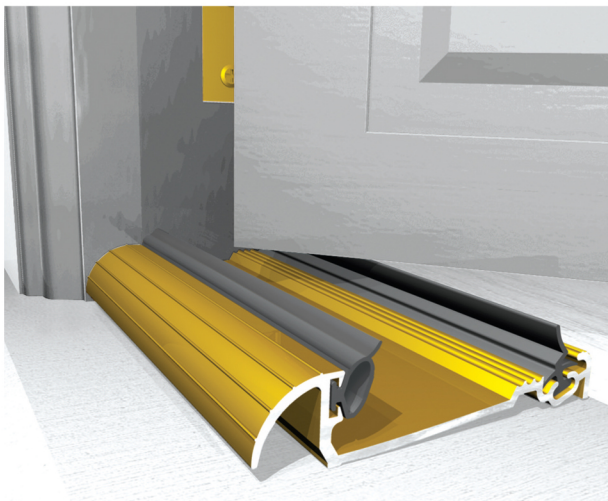
Surface of finished internal flooring level with top of sill section. Aluminium threshold provides maximum 15mm upstand.



Option 2

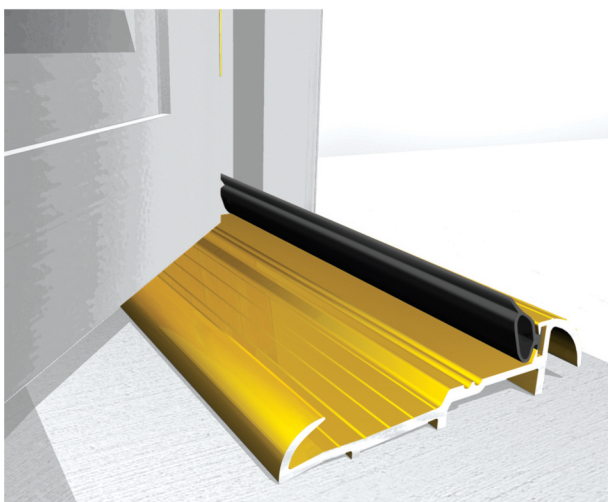
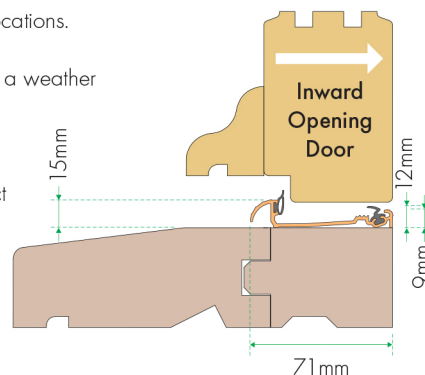
Surface of finished internal flooring below top of sill section so internal transition ramp at maximum 15° slope provided by contractor. Aluminium threshold provides maximum 15mm upstand.





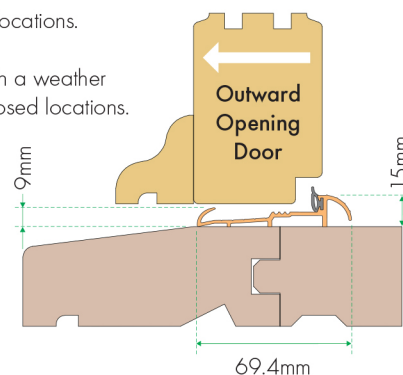
OPEN IN THRESHOLD

- Designed for 58mm thick doors.
- Ideal for single and double doors.
- Suitable for exposed locations.
- Use in conjunction with a weather deflector for very exposed locations.
- Available in Brass effect or Chrome effect finish.



OPEN OUT THRESHOLD

- Designed for 58mm thick doors.
- Ideal for single and double doors.
- Suitable for exposed locations.
- Use in conjunction with a weather deflector for very exposed locations.
- Available in Brass effect or Chrome effect finish.



NOTE: Door/Entrance Frames are delivered to site with threshold supplied loose, for on-site fixing. Actual threshold may differ from one shown. Door Frame sizes shown are nominal and are approx 5mm less than the size shown to allow for building in.

NOTE: Frames with Side Screen remain the same overall width regardless of door size. Door opening width is adjusted to suit.

NOTE: In order to comply with Document L, insulated, raised and fielded panels are available in doors, sidelights and entrance frames.

NOTE: Howarth's Mobility entrance door sets are designed to take a 2'10" door from Howarth's own range of High Performance timber doors which are 58mm thick.

Our timber doors will not meet the required opening if smaller than 2'10" wide.

We will automatically quote for 2'10" width if timber Mobility door sets are requested, unless otherwise stated.

NOTE: Mobility door sets must be fitted with 3'00" door to meet Lifetime Homes specification.

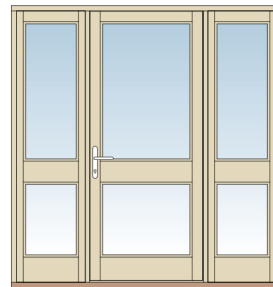
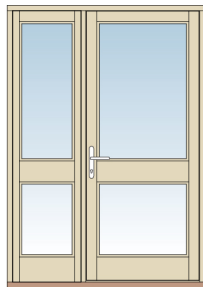


All Mobility frames are 2093mm high.

NOTE: Mobility Thresholds are available individually - please contact the Sales Office on 01469 530577.



WIDTH	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL
850		FE26		FNS26		FNX26
894	FN90		FNS90		FNX90	
900		FE28		FNS28		FNX28
925		FE29		FNS29		FNX29
950		FE21		FNS21		FNX21
1002		FE30		FNS30		FNX30



WIDTH	METRIC	IMPERIAL	METRIC	IMPERIAL
1194	FE120			
1228		FE1229		
1272	FE127			
1347	FE135			
1378		FE1329		
1422	FE142			
1494	FE150		FED150	
1528		FE1529		FED1529
1650	FE165		FED165	
1800	FE180		FED180	
1831		FE1829		FED1829
1950			FED195	
2100			FED210	

NOTE:

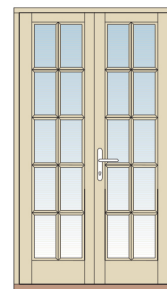
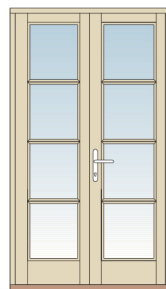
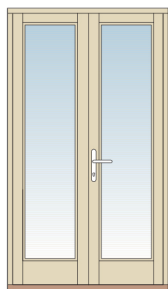
Please specify if OPEN IN or OPEN OUT is required.

Door and sidelight rebates accept 24mm (4-16-4) sealed units only.

In order to comply with Document L, insulated, raised and fielded panels are available in doors, sidelights and entrance frames.

NOTE: Door Frame sizes shown are nominal and are approx 5mm less than the size shown to allow for building in. All illustrations above tables show exterior views.

81 SECURITHERM™ HIGH PERFORMANCE DOUBLE DOOR SETS



	CODE	CODE	CODE	CODE
	20 (handed)	2XGG (handed)	70 (handed)	GTP (handed)

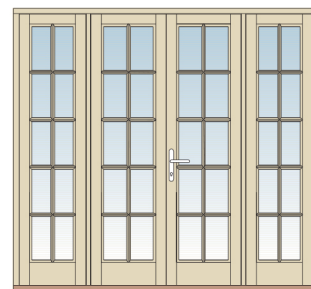
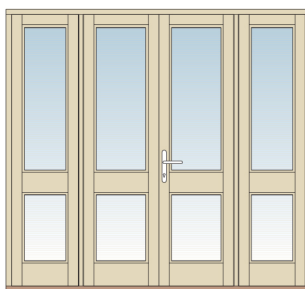
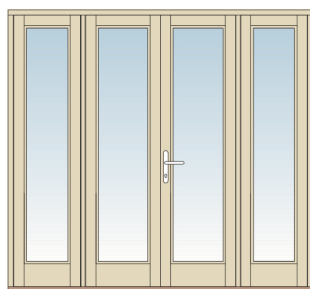
Open Out Door Sets

WIDTH	DOOR SIZE	CODE
1194 M	1106 x 2000 x 58mm	FCP120
1494 M	1409 x 2000 x 58mm	FCP150
1255 M	3' 10" x 6' 6" x 2 1/4"	FC310

Open In Door Sets

WIDTH	DOOR SIZE	CODE
1194 M	1106 x 2000 x 58mm	FNS120
1494 M	1409 x 2000 x 58mm	FNS150
1255 M	3' 10" x 6' 6" x 2 1/4"	FNS310

82 SECURITHERM™ HIGH PERFORMANCE DOOR SETS WITH SIDELIGHTS



	CODE	CODE	CODE
	PATTERN 20 (handed)	PATTERN 2XGG (handed)	PATTERN GTP (handed)

Open Out Door Sets

WIDTH	DOOR SIZE	CODE
1800	1106 x 2000 x 58mm	FCP180
1950	1106 x 2000 x 58mm	FCP195
2100	1106 x 2000 x 58mm	FCP210
2250	1106 x 2000 x 58mm	FCP225
2400	1106 x 2000 x 58mm	FCP240

Open In Door Sets

WIDTH	DOOR SIZE	CODE
1800	1106 x 2000 x 58mm	FNS180
1950	1106 x 2000 x 58mm	FNS195
2100	1106 x 2000 x 58mm	FNS210
2250	1106 x 2000 x 58mm	FNS225
2400	1106 x 2000 x 58mm	FNS240

CHOICE OF DOOR STYLES

At Howarth we pride ourselves on offering a comprehensive range of styles to choose from, to make matching any existing property style so much easier.

NOTE: Door and sidelight rebates accept 24mm (4-16-4) sealed units only. All Howarth door sets are 2093mm high.

NOTE: In order to comply with Document L, insulated, raised and fielded panels are available in doors, sidelights and entrance frames.

NOTE: Door Frame sizes shown are nominal and are approx 5mm less than the size shown to allow for building in. All illustrations above tables show exterior views.

83 TIMBER DOORS

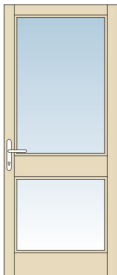
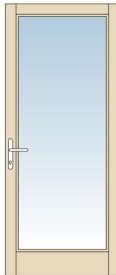
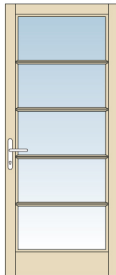
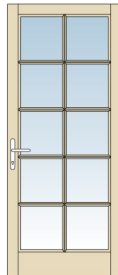
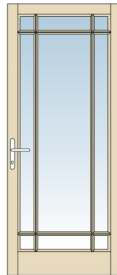
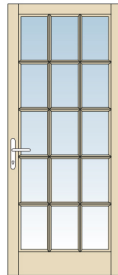
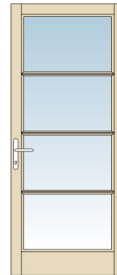
These doors are traditional in style and appeal, but technically up-to-the-minute, with specifications to meet the most demanding requirements of Part L. Howarth timber door sets incorporate 58mm thick doors, are fitted with 24mm low-E sealed units with drained and ventilated glazing beads and plant-on bars. Our timber doors are manufactured to meet the exacting

standards of Secured by Design (S.B.D.) thanks to the introduction of multipoint locking mechanisms, 'dog bolt' security hinges and the integral strength of timber.

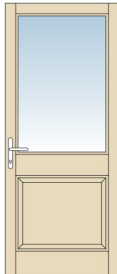
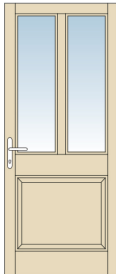





Timber doors are no longer synonymous with high maintenance. All our timber

doors can be fully finished to the highest specification at our factory, offering a ten year decorative guarantee on painted Endurance frames (six years on Endurance stained frames), and a ten year guarantee on glazing units.








TIMBER FULL HEIGHT GLAZED DOORS

						
CODE	CODE	CODE	CODE	CODE	CODE	CODE
2XGG	PATTERN 10	WETHERBY	PATTERN GTP	BEVERLEY	PATTERN SA	PATTERN 50

TIMBER ONE PANEL DOORS

						
CODE	CODE	CODE	CODE	CODE	CODE	CODE
2XG (1P)	MALTON (1P)	MALTON HB (1P)	NEWBALD (1P)	BEVERLEY (1P)	RIPON (1P)	THIRSK (1P)

TIMBER TWO PANEL DOORS

						
CODE	CODE	CODE	CODE	CODE	CODE	CODE
2XG (2P)	MALTON (2P)	MALTON HB (2P)	NEWBALD (2P)	BEVERLEY (2P)	RIPON (2P)	THIRSK (2P)

NOTE: All fully finished door and entrance frames must be fitted using cleat fixing (see installation manual). All the above frames can be supplied in imperial sizes - prices on application. Door Frame sizes shown are nominal and are approx 5mm less than the size shown to allow for building in. All illustrations above tables show exterior views.

TIMBER DOORS (CONTINUED)

(Near right) Photograph courtesy of Strongvox Ltd, Staplegrove Road, Taunton, Somerset.

(Far right) Waterstones Homes Ltd, Church Road, Penttyrch, Cardiff, Wales.



TIMBER THREE PANEL DOORS



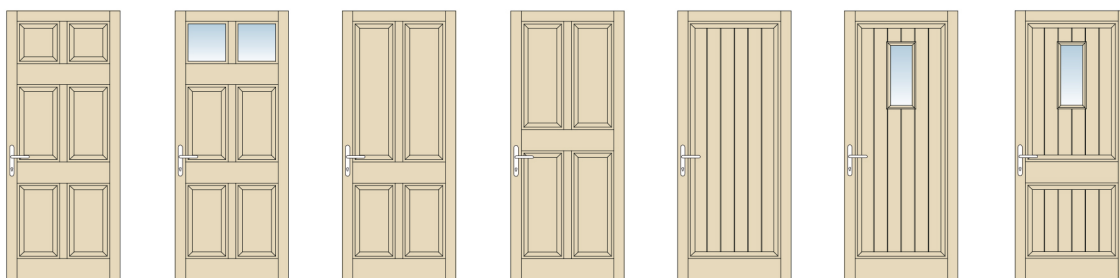
CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
2XG (3P)	MALTON (3P)	MALTON HP (3P)	NEWBALD (3P)	BEVERLEY (3P)	RIPON (3P)	THIRSK (3P)	

TIMBER SHORT PANEL DOORS



CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
2XG (SP)	MALTON (SP)	MALTON HB (SP)	NEWBALD (SP)	BEVERLEY (SP)	RIPON (SP)	THIRSK (SP)	

TIMBER FULL HEIGHT PANEL DOORS



CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE
COLONIAL	COLONIAL TOP LIGHT	MALTON (4P)	MALHAM	PATTERN 10 RFV	COTTAGE	COTTAGE MIDRAIL	

NOTE: All fully finished door and entrance frames must be fitted using cleat fixing (see installation manual). All the above frames can be supplied in imperial sizes - prices on application. Door Frame sizes shown are nominal and are approx 5mm less than the size shown to allow for building in. All illustrations above tables show exterior views.

84 FRENCH DOORS

Howarth French doors are designed to complement our Timber door range and incorporate the same styling and design. Manufactured using the same methods as our Timber doors, our French doors are designed to comply with Part L.

Howarth French doors offer an extended range of finishes

Improved manufacturing methods also allow us to offer extended guarantees of ten years on the paint finish and six years on the stain finish.

(Right) Photograph courtesy of Strongvox Ltd, Staplegrove Road, Taunton, Somerset.



TIMBER FULL HEIGHT GLAZED FRENCH DOORS

CODE	CODE	CODE	CODE	CODE	CODE
PATTERN 20 PR	PATTERN 70 PR	WEATHERBY PR	PATTERN GTP PR	COTTAGE PR	BEVERLEY PR

TIMBER FRENCH DOORS with RAISED and FIELDDED PANELS

CODE	CODE	CODE	CODE	CODE	CODE
2XGG PR	2XG (1P) PR	PATTERN 70 (1P) PR	THIRSK (1P) PR	NEWBALD (1P) PR	BEVERLEY (1P) PR

TIMBER FRENCH DOORS with SHORT RAISED and FIELDDED PANELS

CODE	CODE	CODE	CODE	CODE	CODE
2XGG (SP) PR	2XG (SP) PR	PATTERN 70 (SP) PR	THIRSK (SP) PR	NEWBALD (SP) PR	BEVERLEY (SP) PR

NOTE: All fully finished door and entrance frames must be fitted using cleat fixing (see installation manual). All the above frames can be supplied in imperial sizes - prices on application. Door Frame sizes shown are nominal and are approx 5mm less than the size shown to allow for building in. All illustrations above tables show exterior views.

85 TIMBER SIDELIGHTS

To complement our range of Timber doors and French doors, Howarth also manufactures a range of suited timber sidelights. Manufactured using the same techniques implemented in our Timber doors, these sidelights are designed to comply with Part L.

Howarth sidelights offer the same wide range of finish colours as our Timber doors and French doors as well as extended guarantees.

(Right) Photograph courtesy of Ian and Karen Taylor, Hessle, East Yorkshire, self build project



TIMBER FULL HEIGHT TIMBER SIDELIGHTS

CODE	CODE	CODE	CODE	CODE	CODE	CODE
PATTERN 20 SL	PATTERN 70 SL	WEATHERBY SL	PATTERN GTP SL	BEVERLEY SL	PATTERN 20 FP SL	PATTERN GTP FP SL

TIMBER SIDELIGHTS with RAISED and FIELDLED PANELS

CODE	CODE	CODE	CODE	CODE	CODE
2XGG (1P) SL	2XG (1P) SL	PATTERN 70 (1P) SL	THIRSK (1P) SL	NEWBALD (1P) SL	BEVERLEY (1P) SL

TIMBER SIDELIGHTS with SHORT RAISED and FIELDLED PANELS

CODE	CODE	CODE	CODE	CODE	CODE
2XGG (SP) SL	2XG (SP) SL	PATTERN 70 (SP) SL	THIRSK (SP) SL	NEWBALD (SP) SL	BEVERLEY (SP) SL

NOTE: All illustrations above tables show exterior views.

1. Night Ventilators

Door frames, entrance frames and door sets do not have night ventilation fitted as standard. Please specify if door frames, entrance frames or door sets require ventilation.

2. Sills

The standard sill width is 171mm to allow the frame to be set back into the cavity to meet Part L Robust Construction Detail requirements. Other sill width options are 205mm extended sills (available at extra cost).

Howarth does not recommend extended door or entrance frame sills, as the extended width of the timber may make it unstable or liable to split. Therefore we do not guarantee extended sills.

NOTE: All sills for Howarth door sets are manufactured from Keruing and are designed to be left in a natural condition and should not be decorated as Keruing is not suitable for painting or varnishing.

3. Finishing options

Frames are available with the Endurance fully finished option,

NOTE: Frames are generally available in standard RAL colours except black. For availability of other darker shades, please contact the Sales Office on 01469 530577.

4. Combination Door and Window Frames are available

5. Cavity Closers

Available from 75mm up to 150mm in width and are supplied in loose lengths. Brick ties are also available.

6. Door furniture and locking mechanisms

A range of furniture options is available, To give a high standard of intruder resistance, the fitting tolerances between the mushroom bolts and the keeps are tight. Movement of the door leaves during transport and installation or as a consequence of natural timber movement, may require adjustment of the mushroom bolts. The mushroom bolts have cam adjustment to allow for purchaser on-site compensations.

7. Repair Kits for Fully Finished Doors

Includes paint or stain, brush, sandpaper, tube of filler and instructions. Will cover 0.5m². (For repairs only)

8. Opening Restrictor

Opening restrictors are available to prevent doors from opening too far. These are particularly useful in areas of high exposure where doors may otherwise be caught in high winds and damaged.

9. Secured by Design

Securitherm high performance door sets are supplied to achieve PAS24:2012 Secured by Design requirements and are audited to ensure continuing compliance as part of our BSI Kitemark Scheme. Some sizes may exceed tested dimensions. For full details on which door sets meet S.B.D, please contact our Sales Office on 01469 530577.

10. Cambered Heads

Produced from 25mm thick, non-laminated Redwood, cambered heads are available on request and will be supplied one per frame unless otherwise stated.

11. Perimeter Pinch Battens

For installing frames into timber frame buildings. These will be made from 46mm x 46mm non-laminated Redwood and will be fitted to the head and jambs of the frame unless otherwise stated.

12. Protective Wrapping

Frames are wrapped as standard in a clear cling film which permits visual inspection of the frame upon delivery.

13. Exitex Mobility Threshold

These are supplied as standard for single and double leaf door sets and are supplied taped to door jamb for site fixing.

14. Quotation prices

Quotation prices do not include VAT which will be charged at the rate applicable at the time of delivery. Prices quoted are subject Howarth's Standard Terms and Conditions of Sale.

15. Deliveries

All ancillary purchases are subject to a post and packing charge. Orders of £1,000 or less will be subject to a delivery charge.



(Above) Photograph courtesy of Ian and Karen Taylor, Hessle, East Yorkshire, self build project.