

COMPOSITE DOOR

Technical Data Specifications

HALLMARK Panels & Doors

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HALLMARK
GROUP PRODUCTS

COMPOSITE DOOR

Technical Data Specifications

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HALLMARK
GROUP PRODUCTS

Winkhaus Trulock+

Trulock+ Multi-Point Locking system especially designed for composite and timber doors for the Social Housing and New Build markets.

With over 150 years experience in producing locking systems for the world market Winkhaus is a market leader producing innovative security solutions to meet the challenges of tomorrow's rapidly changing security and ease of use requirements.

The performance of the popular Trulock+ Multi-Point Locking System has been enhanced with the introduction of the latest Trulock+ version. Designed to meet the rigours of the next decade and the demands of the New Build sector the Trulock+ has a number of new features:-

Latest enhancements:-

- Centre gearbox strength increased by up to 30% to further reduce the risk of malicious abusive loads.
- Split Follower mechanism supplied in a fixed Left hand or Right Hand configuration to avoid incorrect factory or site manipulation.
- Enhanced performance using Low Friction hook thrust plates, for smooth precise operation.
- Trulock+ Pyro version available for Fire Door FD30 applications.
- Steel 44mm wide white powder coated faceplate option.

Trunitic faceplate option manufactured from austenitic Grade 304 Stainless steel.

- Lock faceplates stamped with Police 'Secured By Design' logo.

The Trulock range is available with several faceplate and backset

options:

Faceplate:

- 16mm square end
- 16mm round end
- 20mm square end
- 20mm round end
- 44mm 'U' rail square end

Backset:

- 35mm
- 45mm
- 55mm

Operation:

- Lever operated
- Split Follower lever operated
- Key operated

Superbly engineered and manufactured in Germany the Trulock+ Locking system is approved by the Police 'Secured by Design' security initiative. This important independent endorsement is an essential requirement of the Association of British insurers.



Standard 24mm wide keeps with dust boxes and off-set screw fixing for enhanced security.



Special design tensile steel handed hook with a 4.5mm chamfer allows a high degree of fitting tolerance for door installation. In addition the hook shape provides low operating forces and helps doors achieve a higher level of weather performance.

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Winkhaus Trulock+

Trulock+ Multi-Point Locking system especially designed for composite and timber doors for the Social Housing and New Build markets.

1. 25mm throw tensile steel hooks

High security nickel plated steel hooks fully penetrate the keep rail and help prevent forcing apart of the sash and frame.

2. Weather seal compression adjustment in the keeps

Together with the enhanced tapered handed hook design the adjustment in the keeps provides for low operating forces. With 2mm adjustment it is possible to adjust for misalignment of the door during and after installation.

3. Heavy duty steel keeps

Depending on door frame material, 20mm - 24mm wide heavy duty steel keeps are manufactured using high grade steel, plated to comply with the highest Grade 4 corrosion resistance requirement of BS EN1670 European Standard.

4. Latch and deadbolt

Engineered alloy sprung latch (or steel latch for Fire Doors) with a nickel plated steel deadbolt provides the Trulock+ with maximum strength in the centre of the door.

5. High performance gearbox

Tested to 100,000 cycles the sprung gearbox offers the lowest possible operating forces and helps prevent handle 'droop'.

6. Cylinders and handles

Trulock+ Multi-point Locks have been designed to harmonise with the Winkhaus range of security europrofile cylinders, Armorshield cylinder guard and Winkhaus XR6-51 Kitemark profile cylinder (KM531333) to meet PAS23/24 Security and durability standards, both for single domestic dwellings and multi-occupancy dwellings where master key systems are required. The 92PZ locking system is compatible with industry standard handles and also with the Winkhaus Palladio™ handle which has OwlMark™ approval for use by the elderly and infirm. Special key bow designs, fobs, turn knobs and key pistol grips for the disabled are also available.

7. Lifetime adaptability

Trulock+ is part of the 'Winkhaus family of locks' with exactly the same routing details as the Winkhaus Cobra™ and Automatic AV2+ range of locking mechanisms.



- 16mm faceplate rounded ends
- 20mm faceplate rounded ends
- 20mm faceplate full length
- 16mm faceplate full length
- 44mm faceplate full length

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HALLMARK
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Winkhaus AV2 Heritage Door Lock

AUTOMATIC Multi-Point Locking System

Our architectural heritage in the UK and Ireland is an important element of many of our finest cities and their respective period buildings. With many 18th and 19th Century buildings being listed and in conservation areas it is paramount that any front door replacements are a sympathetic reproduction of a period classic.

Modern Multi-Point Locking systems which provide higher levels of security and weather performance have traditionally not leant themselves to the typical round pull door furniture and separate eye-level escutcheon which can be so common on Georgian and Edwardian doors.



Winkhaus have addressed this problem with the AV2 Heritage Locking System where the euro profile locking cylinder is at a similar height to a traditional round cylinder pull and the lock is operated automatically as soon as the door is closed. This means that an external lever handle is not required to operate the locking points and the lock can be deadlocked or opened externally by turning the key a quarter of a turn. From the inside the door can be opened by an internal thumb turn, again with a quarter turn. The door is automatically locked when closed from the inside and the key is then required to gain entry from the outside. The AV2 Heritage Locking system is an ideal solution for not only replacement period doors but for prestige new build doors also. Typically cities such as London, Bristol, York, Edinburgh, Bath, Chester, Dublin, Oxford, Cambridge and Liverpool amongst many others would benefit from this modern adaptation of a traditional locking style.



Standard 24mm wide keeps with dust boxes, auto latch strike plate and off-set screw fixing for enhanced security.

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Winkhaus AV2 Heritage Door Lock

AUTOMATIC Multi-Point Locking System

- The AV2 Heritage Lock is never "just locked on the latch". When closing the door, two solid antipushback hooks automatically operate to achieve instant security. The lock can be additionally secured by throwing the deadbolt with the key on the outside and thumbturn on the inside.
- The security nickel plated steel hooks fully penetrate the heavy duty steel keeps and help prevent forcing apart of the door and frame. AV2 Heritage is Police Secured By Design, PAS23/24, SKG, and VdS1 accredited.
- The high performance gearbox is tested to 100,000 cycles and offers the lowest possible operating forces.
- Tested to PAS 023 the AV2 hook shape provides low operating forces and helps doors achieve a higher level of weather performance.
- Winkhaus locks have a protective surface coating in excess of EN 1670 : 2007 Grade 4 which is designated as 'Very high corrosion resistance'.
- AV2 Heritage Lock has been designed to harmonise with the Winkhaus XR6-51 Kitemark profile cylinder (KM531333) and in combination with a security escutcheon meets PAS 24 and the highest TS007 3I security requirements.
- The AV2 Heritage Lock is superbly engineered and manufactured in Germany. Established in 1854 Winkhaus is a market leader producing innovative security solutions to meet the challenges of tomorrow's rapidly changing security and ease of use requirements but at the same time empathising with the fine architectural needs of British and Irish heritage.



Police 'Secured by Design' stamped



XR6-51 Kitemark Thumturn Cylinder (KM531333)



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Winkhaus Trulock KTA

Key Turn Activated Multi-Point Locking System

Trulock KTA is an enhanced locking system with ultra smooth key turn activation which is designed to accommodate both the contemporary and traditional tastes of todays householder.

With a 160 years of producing locking systems for the world market Winkhaus continues to be a market leader in providing innovative security solutions which meet the needs of fabricators and specifiers whilst still allowing for the latest fashion trends to be catered for.

The Trulock KTA is the latest addition to the very popular Trulock+ range of high security locking systems. The product like all of the Trulock+ range features two of the design patented handed high tensile steel hooks which feature a 4.5mm chamfer. This allows for both lower operating forces and a more fitter friendly degree of tolerance.

The major new addition is a new ultra smooth key turn activated gearbox. Designed and manufactured in Germany after an extensive Research and Development programme the lock is operated by turning the key 720° clockwise or anti-clockwise to simultaneously engage or disengage both the 25mm throw steel hooks and the nickel plated steel deadbolt. The engineered alloy sprung latch can be disengaged by a further key turn or if present by your choice of handle.

Designed to compliment a modern or traditional door, the product can be used with standard lever or lever on rose handles, contemporary long bar or curved pull handles and it especially dovetails well when used with the High Security Winkhaus Heritage Pull.

The security nickel plated steel hooks fully penetrate the heavy duty steel keeps and help prevent forcing apart of the door and frame. Trulock KTA is Police Secured By Design and PAS 24.

The high performance Key Turn Activated gearbox is tested to 100,000 cycles and offers the lowest possible operating forces.

Tested to PAS 24 the Trulock KTA hooks provide low operating forces and helps doors achieve a higher level of weather performance.

Winkhaus locks have a protective surface coating in excess of EN 1670 : 2007 Grade 4 which is designated as 'Very high corrosion resistance'.

Trulock KTA has been designed to harmonise with the Winkhaus XR6-51 Kitemark profile cylinder (KM531333) and in combination with a security escutcheon meets PAS 24 and the highest TS007 3I security requirements.

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Winkhaus Trulock KTA

Key Turn Activated Multi-Point Locking System



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Winkhaus STV EntryGuardTM

A purpose designed door locking system with integral guard bar.

- Far stronger than a flimsy door chain
- Not reliant on screws into door face or frame
- Can be left permanently engaged
- Deters unwelcome callers
- Provides peace of mind for those living alone
- Can be used for front or back door applications
- Innovative security and safety in one product
- 3mm thick integral heavy duty guard bar
- Unique disengagement by keyholder from outside
- Authorised keyholder can disengage EntryGuardTM from the outside by 45 degree turn of key
- Easy to use turn knob designed with the elderly and infirm in mind
- Securely locates into full length steel keep rail
- Extends the family of STV Security Locking Systems and is also available with the Automatic AV2 Locking System¹
- Meets the requirements for physical security in 'Secured by Design schemes'
- Patented design
- ¹ Not with disengagement from the outside

STV EntryGuardTM High Security

- Locking System specification
- EntryGuardTM available either as M2 or M3 version (2 or 3 hooks)
- Lever or key operated versions
- Can be fitted into the same sash and frame preparation as the popular STV CobraTM M4 lock
- Keyholder disengages by simply turning the key an additional 45 degrees
- Choices of internal knob design to match your door furniture
- EntryGuardTM is an option to our highly successful
- STV Door Locking System



EntryGuardTM illustrated in the open position



EntryGuardTM provides peace of mind for those home alone

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Winkhaus STV EntryGuard™

A purpose designed door locking system with integral guard bar.

For the security of external doors.

For timber, PVCu, Steel, Fibreglass and Composite doors.

STV-systems for all security requirements.

- Optimum Security
- 25mm throw steel hooks
- Compression adjustment in the keeps
- Continuous keep rail
- Secure locking mechanism
- Steel latch and dead bolt
- Easy key insertion

Winkhaus, in combination with the door manufacturer provide an STV system which considerably contributes to the security requirements of external doors. Winkhaus STV is a system comprising of a number of ideally matched components:

robust internal components and precision engineering combine to provide an intelligent construction with an easy to operate locking mechanism, together with the highest possible weatherseal compression.

The modular construction of Winkhaus STV system helps to ensure the simple adaptation and fitting to all types of external doors, independent of their material and construction.

The Security Door Locking system (STV) from Winkhaus, in all forms, acts as a formidable deterrent to forced entry attack.

Further information on the full range of STV Hook Locking Systems is available on request.



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TECHNICAL 1

Yale Locking System

Technical 1.4 Star Cylinders

Yale Anti-Snap (AS) Platinum Series Euro Profile Cylinders provide the maximum security against known cylinder attack methods. The cylinders are independently tested to BSI to be awarded the British Kite marked TS007: 2012 three star accreditation.



The AS Platinum Series cylinders have a snap-off front section which, if attacked, will sacrificially come away to give an intruder less of the cylinder to attack. The hardened, reinforced bar is designed not to snap, but to flex in a way that will defeat the vast majority of intruders. An interlocking cam with strengthening bar provides additional protection and strength to the cylinder.

The cylinders provide anti-drill, anti-bump, anti-drill and anti-screw protection. They are suitable as a replacement product on PVCu, wood and composite doors.

Three keys supplied.

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TECHNICAL 2

Door Glazing Styles

Traditional Door Styles and Glass Positions

The Yaledoor composite door collection consists of both traditional and contemporary designs with a wide variety of glazing positions available to suit every asthetic desire.

TRADITIONAL



Aprilla



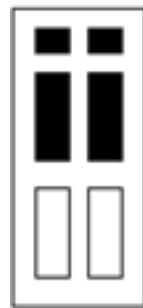
Arnage



Camarque



Camarque 2



Camarque 4



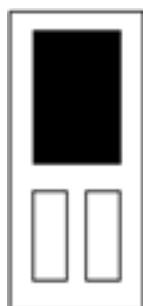
Esprit



Esprit 2



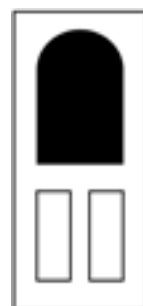
Impala



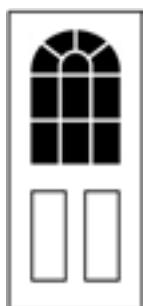
Mulsanne



Mulsanne Georgian



Snipe



Snipe Georgian



Tuscan 1



Tuscan 3



Tuscan 1 Georgian

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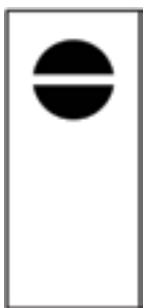
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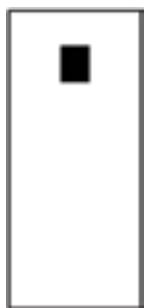
TECHNICAL 2

Door Glazing Styles

CONTEMPORARY



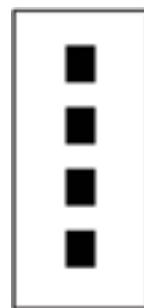
Alfetta 2
Centre



Aruba 1
Right, Left or Centre



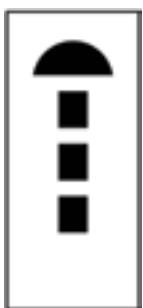
Aruba 3
Right, Left or Centre



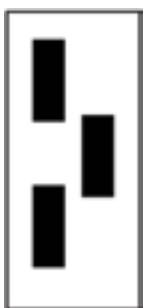
Aruba 4
Right, Left or Centre



Belize 2
Centre



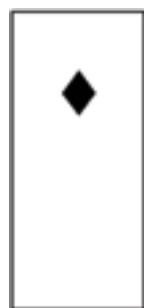
Belize 4
Centre



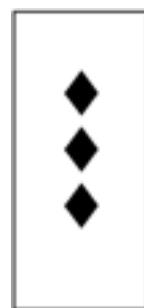
Cambridge 3
Right or Left



Catalina 1
Right, Left or Centre



Chimaera 1
Right, Left or Centre



Chimaera 3
Right, Left or Centre



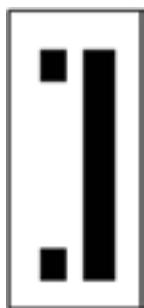
Debonaire 2
Right, Left or Centre



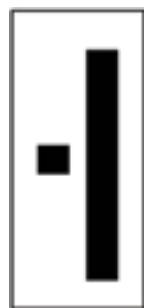
Doretti 4
Right or Left



Firenza 3
Right, Left or Centre



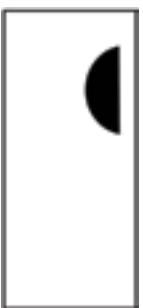
Hansa 3
Right or Left



Jowett 2
Right or Left



Seville 2
Right, Left or Centre



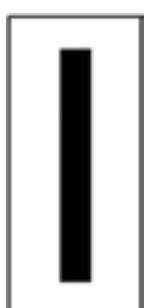
Shelby 1
Right or Left



Sonett 3
Right or Left



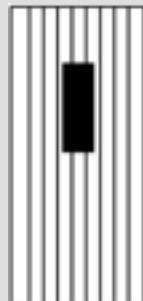
Tortola 1
Right, Left or Centre



Uracco 1
Right, Left or Centre

Cottage Slab Design

All contemporary door designs are available in either a smooth or cottage finish.



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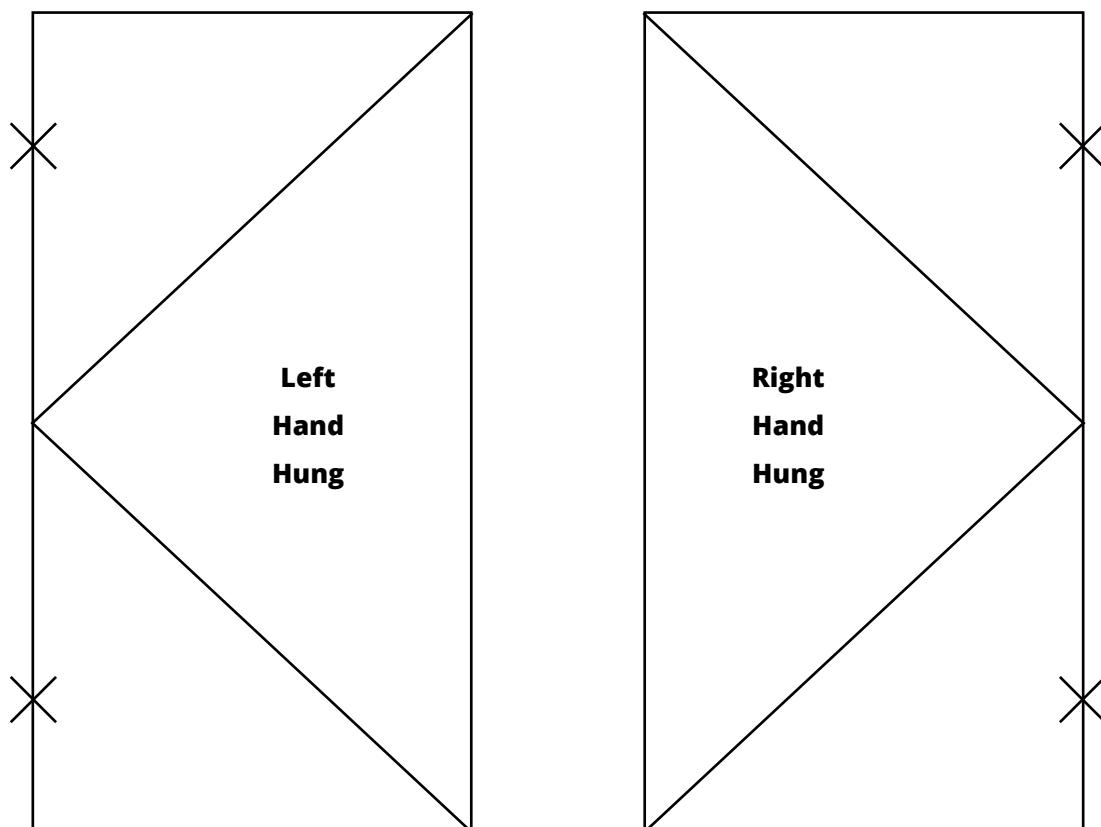
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GROUP PRODUCTS

TECHNICAL 3

Handing

Technical 3.1 Handing Diagrams

The drawing shown here are examples used by order processing and manufacturing staff to denote the handing of a door set. Orders will always be processed assuming door sets and order diagrams are viewed from the outside.



VIEWED FROM OUTSIDE

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TECHNICAL 4

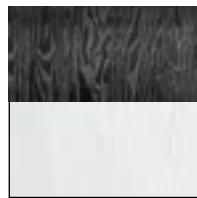
Door Colours

Technical 4.1 Standard Door Colours

Choose from nine standard colour combination slab options.



White / White



Black / White



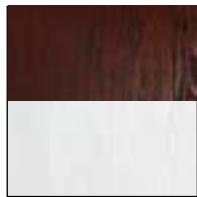
Red / White



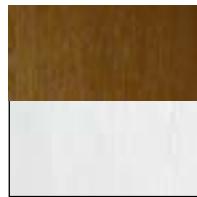
Green / White



Blue / White



Rosewood / White



Golden Oak / White



Rosewood / Rosewood



Golden Oak / Golden Oak

Colour Bonded Standard Colours

Where the internal door slab needs to match the selected external colour, customers can choose to have the white slab face colour bonded to match.

Rosewood and Golden Oak coloured slabs are available pre-coloured on both sides and do not require additional colour bonding.

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TECHNICAL 4

Door Colours

Technical 4.2 Bespoke Colour Paint Finishing - COLOURBOND

A collection of bespoke RAL specified colours are available to choose from. Slabs can be colour bonded on single or both sides as required. The following RAL colours are available.



RAL 1015
Soft Cream



RAL 1012
Olive



RAL 3003
Claret



RAL 4008
Violet



RAL 5015
Ocean



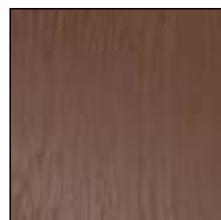
RAL 7016
Grey



RAL 7042
Graphite



RAL 7035
Platinum



RAL 8011
Acorn



RAL 1033
Sunrise



Duck Egg
BS4800 16C33



Chartwell
Custom

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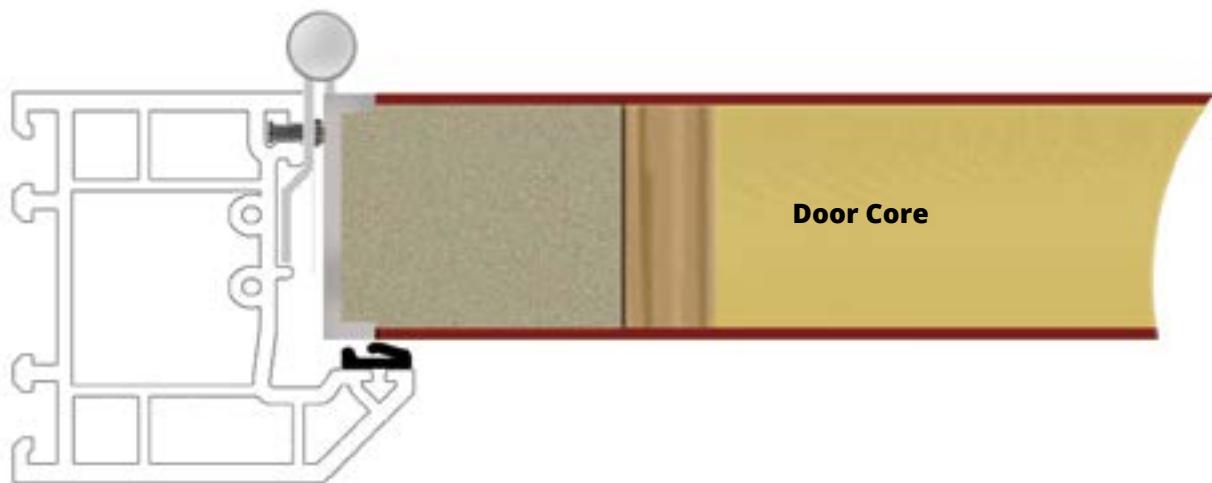
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TECHNICAL 5

Cross Sections

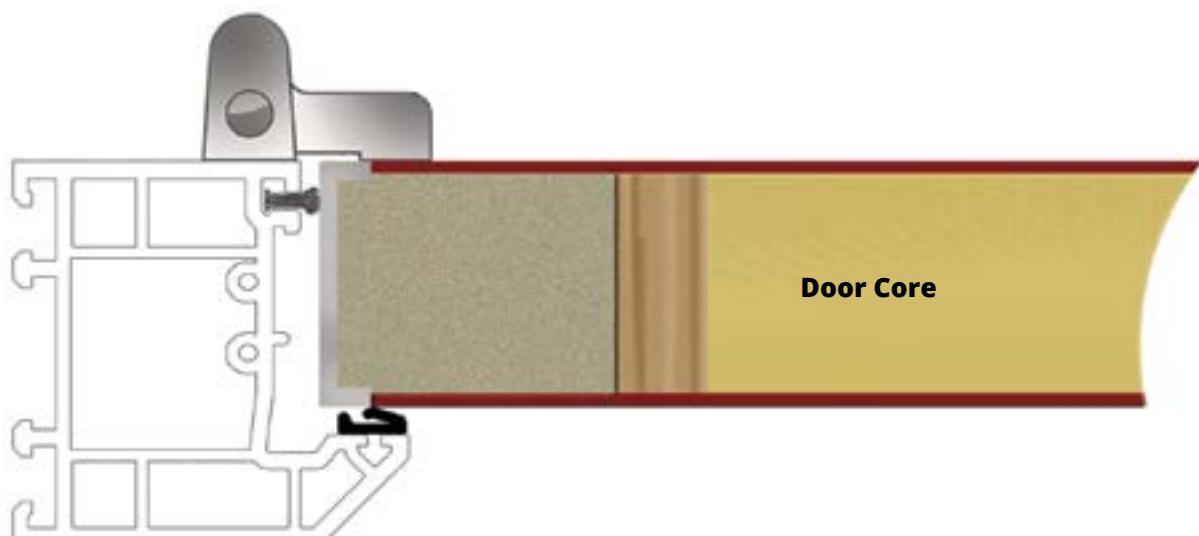
Technical 5.1 44mm Composite Door Butt Hinge Cross Section - outward opening

Illustration shows butt hinge, fitted to outward opening doors only.



Technical 5.2 44mm Composite Door 3D Adjustable Hinge Cross Section - inward opening

Illustration shows 3D Adjustable hinge, fitted to inward opening doors.



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TECHNICAL 6

Dimension Possibilities

COMPOSITE DOORS Min & Max Sizes

Arnage, Alfetta, Aruba, Aprila, Belize, Camarque, Cambridge, Catalina, Chimeara, Debonaire, Doretti, Esprit, Firenze, Hansa, Impala, Jowett, Seville, Shelby, Sonett, Tortola, Tuscan, Uracco.

WHS FRAME SIZES	No Cill				Including Cill			
	Minimum		Maximum		Minimum		Maximum	
	Width	Height	Width	Height	Width	Height	Width	Height
Mxa 15mm Low Thresh	825	1971	1012	2079	825	2001	1012	2109
MDS 25/80/150	825	1978	1012	2088	Not Compatable with Cill			
44mm Low Ali	825	1987	1012	2097	825	2017	1012	2127
56mm Low PVC	825	1999	1012	2109	825	2029	1012	2139
70mm Standard PVC	825	2015	1012	2125	825	2045	1012	2155

Mulsanne, Snipe

WHS FRAME SIZES	No Cill				Including Cill			
	Minimum		Maximum		Minimum		Maximum	
	Width	Height	Width	Height	Width	Height	Width	Height
Mxa 15mm Low Thresh	832	1971	1012	2079	832	2001	1012	2109
MDS 25/80/150	832	1978	1012	2088	Not Compatable with Cill			
44mm Low Ali	832	1987	1012	2097	832	2017	1012	2127
56mm Low PVC	832	1999	1012	2109	832			
70mm Standard PVC	832	2015	1012	2125	832	2045	1012	2155

Arnage, Aprilia, Esprit, Mulsanne Side Panels Inc 6mm Aluminium Coupler

72mm Standard PVC	450	2015	470	2125	450	2045	470	2155
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Volante

WHS FRAME SIZES	No Cill				Including Cill			
	Minimum		Maximum		Minimum		Maximum	
	Width	Height	Width	Height	Width	Height	Width	Height
Mxa 15mm Low Thresh	860	1971	982	2079	860	2001	985	2109
MDS 25/80/150	860	1978	985	2088	Not Compatable with Cill			
44mm Low Ali	860	1987	985	2097	860	2017	985	2127
56mm Low PVC	860	1999	985	2109	860	2029	985	2139
70mm Standard PVC	860	2015	985	2125	860	2045	985	2155

Vanquish

WHS FRAME SIZES	No Cill				Including Cill			
	Minimum		Maximum		Minimum		Maximum	
	Width	Height	Width	Height	Width	Height	Width	Height
Mxa 15mm Low Thresh	900	1971	1012	2079	900	2001	1012	2109
MDS 25/80/150	900	1978	1012	2088	Not Compatable with Cill			
44mm Low Ali	900	1987	1012	2097	900	2017	1012	2127
56mm Low PVC	900	1999	1012	2109	900	2029	1012	2139
70mm Standard PVC	900	2015	1012	2125	900	2045	1012	2155

**SIZES CAN BE AFFECTED BY CERTAIN HARDWARE FITTED (eg night latch) AND NON STANDARD FRAME OPTIONS
PLEASE DISCUSS WITH YOUR REPRESENTATIVE IF YOU HAVE DOOR SIZE QUERIES**

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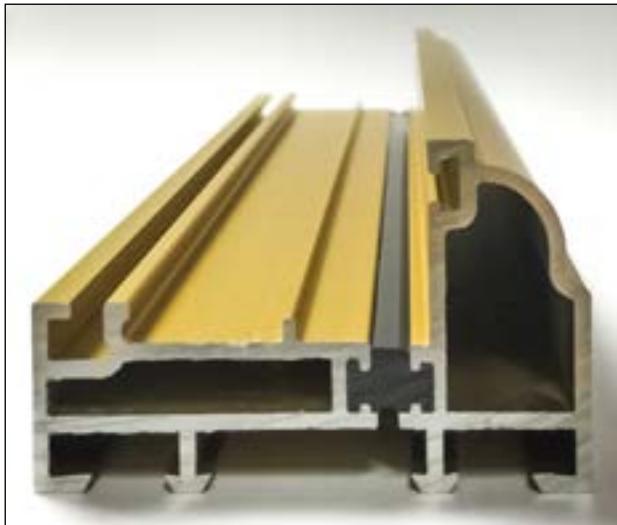
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GROUP PRODUCTS

TECHNICAL 7

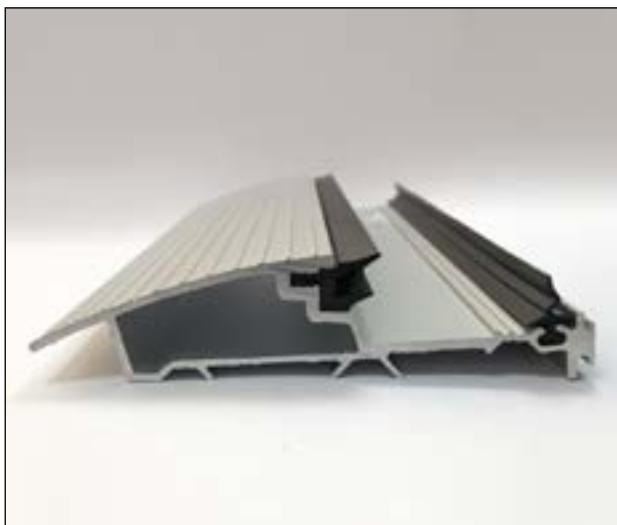
Threshold Options

Technical 6.2 Threshold Options

Customer have a choice of two threshold options. A 44mm high WHS Halo Aluminium threshold or Low MDS 25 Aluminium mobility threshold.



WHS Halo Aluminium Threshold



Low Mobility MDS 25 Threshold

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TECHNICAL 9

Secured By Design

Technical 9.1 Secured by Design

Secured by Design dates from 1988 as the Police flagship project for designing out crime and for crime prevention advice. Key to the initiative is the technical standards and evaluations that are nominated to indicate that specific products are effective in their claims and deserving of the Police Preferred Specification allowing them to carry the Secured by Design mark.



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Winkhaus Heritage Pull

High Security Cylinder Escutcheon / Pull

Winkhaus and Hoppe have combined to create an impeccably crafted and designed product. Created to complement both contemporary and period door designs, the Winkhaus security escutcheon pull is the perfect enhancement to the increasingly popular AV2 Deco and Heritage door lock range. Meeting the eclectic demands of modern architecture, whilst being sympathetic to listed buildings and conservation areas, the Winkhaus security escutcheon crosses over to meet a huge variety of door designs.

Finishes

- Polished Brass
- Polished Chrome
- Other colours on request



Key Features

- Compliments the door installation and enhances security
- TS007 31 when fitted with a 1* Cylinder
- Profile cylinder is protected behind steel security shield
- Reduced risk of cylinder attack, snapping and drilling
- Suits standard Euro profile cylinders
- 5mm bolt through fixings for increased security
- Integrated finger pull
- High strength zinc die cast construction
- 38mm fixing centres
- 58mm wide, suitable for 45mm backset locks
- Key Features

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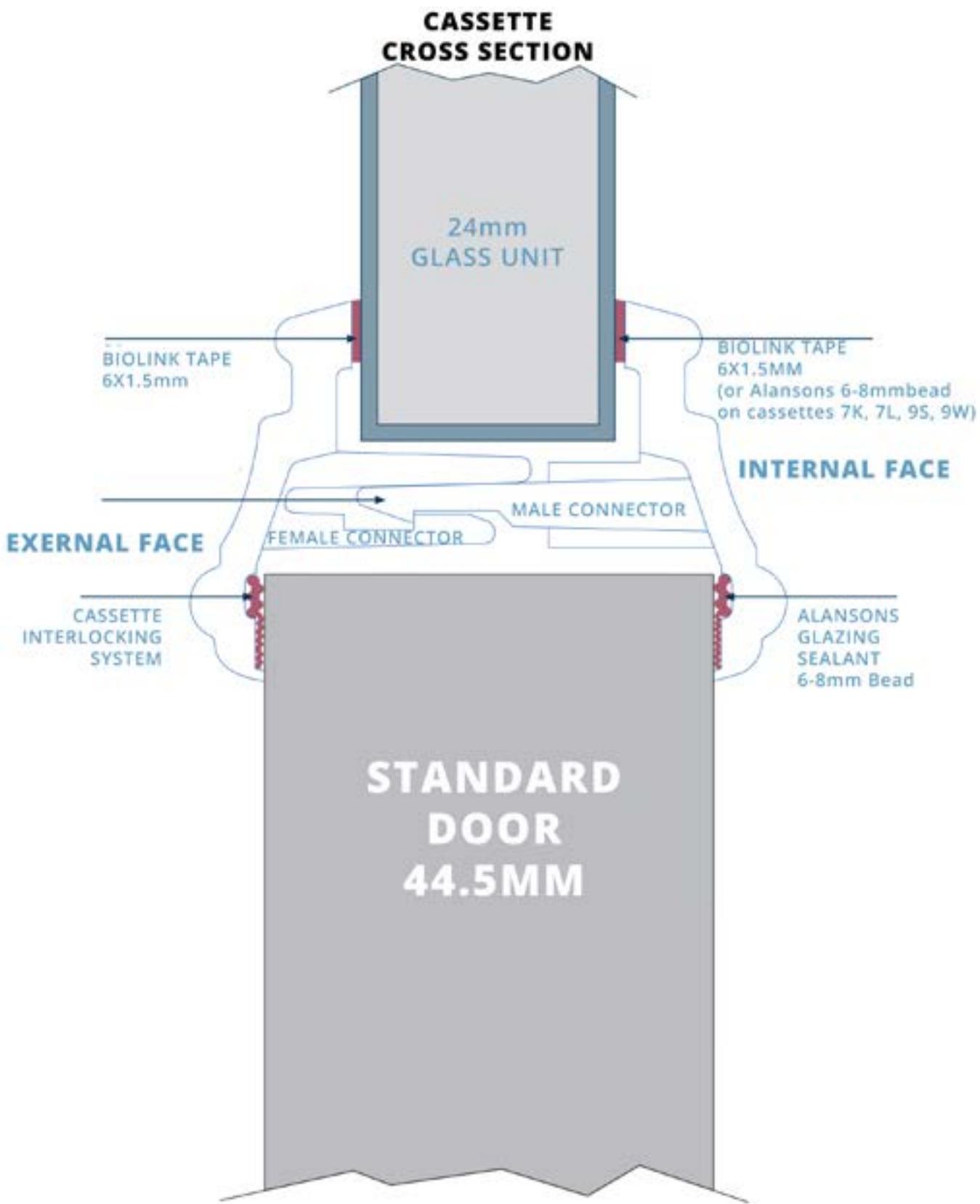
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Snap Fit Cassette Glazing Guide

Step By Step Guide To Glazing Standard Doors

STEP 1

Always have recommended tools and work surface ready. Ensure all surface contact points are thoroughly clean, dust/grease free and dry prior to applying adhesives. Use Distinction Wipes and dry off using industrial type paper roll. Ensure all glazing benches are protected and grit-free ready to glaze onto a flat solid bench.



STEP 2

Apply the 1.5mm x 6mm clear Acrylic adhesivetape to the inner channel of both internal and external cassettes where it meets the glass, always apply the horizontal channels first, ensuring all vertical joints are butted together tight gap free to create a weatherproof seal. Please refer to the Distinction Doors Cut Out Sheet for further guidance on adhesive tape to adhesive wet seal ratio.



STEP 3

Ensure Glass adhesive contact points are clean, dust/grease free and dry prior to applying a cassette. You could use a good quality Isopropanol cleaning fluid or wipes as this will evaporate leaving no residue.



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STEP 4

Ensure the external face of the glass unit is facing up on the bench, present the external cassette to the outside face of the glass unit, check sight lines are OK and that the glass unit is square and sitting close to the female connectors, thus allowing room for the female connectors to locate over the male connectors on the opposing internal cassette. Then remove the adhesive tape protective release liners, start at the base and work round checking sight lines as you go, once complete apply an even amount of pressure to ensure adhesives have keyed well to both cassette and glass.



STEP 5

Turn the cassette and glass unit over, again checking that all adhesive contact points are clean and dry, then apply a full 6 to 8mm bead of Alanson's 1101 clear adhesive to the outer channel of the external cassette. Apply a small amount of Alanson's to the female connector, below the strap where the male connector locates behind.



STEP 6

Ensure door internal and external adhesive contact points are clean and dry ready to glaze. Then lay the door (two man lift) over the external glazed cassette, ensuring that the cassette is square and in line with all depression moulds.



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STEP 7

Repeat cleaning process for the internal adhesive contact points, as per step 1 & 3. Good housekeeping will ensure optimum performance from the adhesives and create an excellent long term weather seal.



STEP 8

Remove the adhesive tape protective release liners from the internal cassette. Apply a full 6 – 8mm bead of Alanson's 1101 Clear adhesive to the outer channel of the internal cassette; again apply a small amount of Alanson's to the female connector, below the strap where the male connector locates behind.



STEP 9

Offer the internal cassette over the external cassette, ensuring the correct male and female connectors are aligned. Then apply pressure using the heel of your hand and working around the perimeter of the internal cassette to locate fully into the external cassette, so that the male parts of both cassettes fully engage with the female receivers.



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STEP 10

With care and using a rubber head mallet, apply additional pressure to ensure all connectors have fully mated, and the cassette sits nice and flush with door face. Then remove any excess Alanson's using a non-abrasive tool and clean using Distinction Universal Wipes.

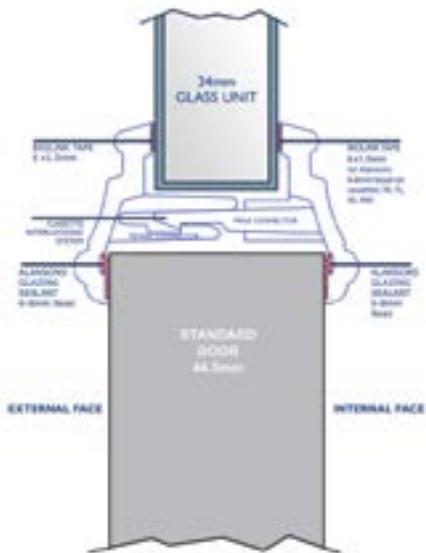


STEP 11

Turn the door over (two man lift) and check that the external cassette has mated firmly, then repeat step 10 in its entirety. Once the door/cassette and glass has been fully cleaned and is completely dry, apply a fine neat bead of Alanson's 1101 clear sealant to the bottom of the external cassette meeting the glass and 10mm up verticals at corners.



CASSETTE CROSS SECTION



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Application of Prolink dry adhesive tape

The correct method of applying Prolink tape to a glazing cassette.

STEP 1

Always refer to full glazing guide.
We can see that the red circle is showing a tiny gap between horizontal and vertical sealing tape which can result in water ingress, this joint is incorrect.
The green circle shows correct way to joint (however there is a visible small gap between connections) this joint needs to meet, see below image.



STEP 2

The correct way to apply sealing tape is to always start applying tapes to all horizontal edges, then apply the vertical tapes as shown on picture below, ensuring that the edges of the tape meet, this way when pressure is applied the adhesive will wet into itself and create an excellent long term weather seal. Always refer to our recommended glazing instructions.



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Snap Fit Cassette Glazing Guide

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STEP 1

Always have recommended tools and work surface ready. Ensure all surface contact points are thoroughly clean, dust/grease free and dry prior to applying all adhesives. Use Distinction Wipes and dry off using industrial type paper roll. Ensure all glazing benches are protected and grit-free ready to glaze onto a flat, solid bench.



STEP 2

Apply the 1.5mm x 6mm clear acrylic adhesive tape to the inner channel of both internal and external cassettes, always apply horizontal channels first, ensuring all vertical joints are butted together tight gap free to create a weatherproof seal.



STEP 3

Ensure door internal and external adhesive contact points are clean and dry ready to glaze. Ensure Glass contact points are clean, dust, grease free and dry prior to applying cassette, you could use a good quality Isoproponol cleaning fluid or wipes as this will evaporate leaving no residue.



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STEP 4

Ensure the external face of the glass unit is facing up on the bench, apply the external cassette to the outside face of the unit, check sight lines and remove the adhesive tape protective release liners, start at base and work round checking sight lines as you go, once complete apply an even amount of pressure to ensure adhesives have keyed well to both cassette and glass.



STEP 5

Turn the cassette and glass unit over, again checking that all contact points are clean and dry, then apply a full 6 to 8mm bead of Alanson's 1101 clear adhesive to the outer channel of the external cassette. Then lay the door (two man lift) over the external glazed cassette, ensuring that the cassette is square and in line with all depression moulds.



STEP 6

Ensure door internal and external adhesive contact points are clean and dry ready to glaze. Then lay the door (two man lift) over the external glazed cassette, ensuring that the cassette is square and in line with all depression moulds.



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STEP 7

Repeat cleaning process for the internal adhesive contact points, as per step 1 & 3. Good housekeeping will ensure optimum performance from the adhesives and create an excellent long term weather seal.



STEP 8

Remove the adhesive tape protective release liners from the internal cassette. Apply a full 6 – 8mm bead of Alanson's 1101 Clear adhesive to the outer channel of the internal cassette; again apply a small amount of Alanson's to the female connector, below the strap where the male connector locates behind.



STEP 9

Offer the internal cassette over the external cassette, ensuring the correct male and female connectors are aligned. Then apply pressure using the heel of your hand and working around the perimeter of the internal cassette to locate fully into the external cassette, so that the male parts of both cassettes fully engage with the female receivers.



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STEP 10

With care and using a rubber head mallet, apply additional pressure to ensure all connectors have fully mated, and the cassette sits nice and flush with door face. Then remove any excess Alanson's using a non-abrasive tool and clean using Distinction Universal Wipes.

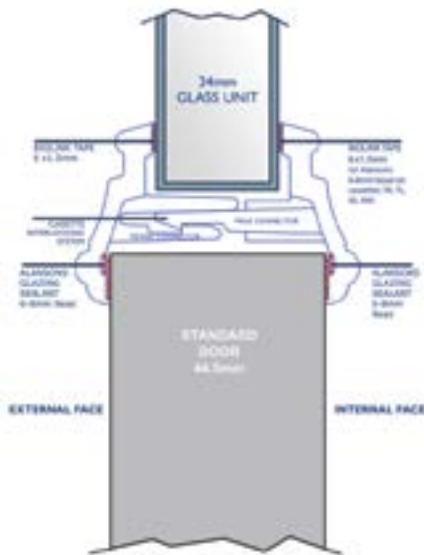


STEP 11

Turn the door over (two man lift) and check that the external cassette has mated firmly, then repeat step 10 in its entirety. Once the door/cassette and glass has been fully cleaned and is completely dry, apply a fine neat bead of Alanson's 1101 clear sealant to the bottom of the external cassette meeting the glass and 10mm up verticals at corners.



CASSETTE CROSS SECTION



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How To

Customer Care & Maintenance

How to look after your product

To prolong the life of the door surface finish, it is recommended that the GRP composite door is cleaned regularly. This should be completed at least once per month but will depend upon the doors location and exposure to contaminants such as dirt and salt etc.

- It is recommended that the door is cleaned with specially formulated door wipes which are available from Distinction Door Solutions. Alternatively, the door surface can be washed with warm soapy water (washing up liquid is suitable) and wipe dry with a soft cloth.
- When the door is closed always ensure top and bottom locking points are engaged to assist in the reduction of thermal movement.
- To sustain the gloss finish, apply 2 - 3 coats of Konig Maintenance Lacquer every 6 - 12 months.



Do Not

- Use aggressive cleaning methods, abrasive cleaners or scouring pads on the surface of the door.
- Use high pressure of steam cleaners.
- Use any type of bleach, solvent (eg white spirit, methylated spirit, cellulose thinners or acetone/nail varnish remover).
- Use adhesives of any type or tack for providing temporary protection, for the temporary fixing of seasonal or other decorations etc.
- Use excessive length key chains, please try and avoid contact with these and any other sharp objects you may be carrying.

A repair system is available to deal with accidental damage such as dents or scratches. For details please contact Distinction Door Solutions.



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How To

Thermal Movement

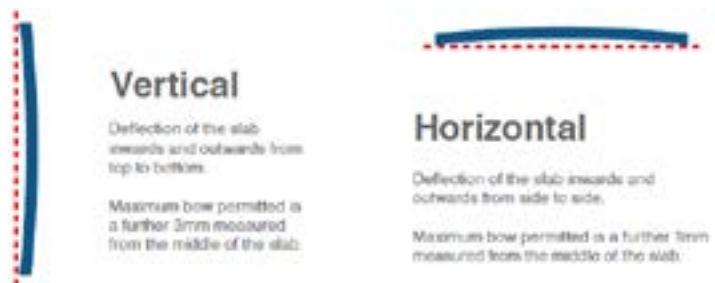
Thermal Movement Definition & Tolerances

All composite slabs, as do uPVC and timber, experience thermal movement.

The slab will recover to its original status, to a maximum of 1mm side to side and 3mm top to bottom, when the installation recommendations are applied.

Slackening off the lock keeps will compensate for the movement of the slab within these tolerances. The hooks of the multipoint lock must be in compression with the inner edge of the pocket keep. If this does not happen the door may move to the inside of the property (towards the cold side) and give the impression the door is bowed.

It is important to ensure the centre keep for the latch only allows the door to become flush with the inner face of the outer frame and not any tighter as this could also cause the door to appear bowed.



If the hooks on the multipoint are not thrown throughout the day and the centre keep setting is too tight, the top and bottom of the door will be in unsupported tension and will eventually stand proud of the inner face of the profile. This will make the hooks on the lock become stiff, as they cannot draw themselves into the hook keep.

Protect your door from natural thermal distortion. Make sure the top and bottom locking points are engaged pulling the handle up every time you shut the door.



Please note; If these points are not observed the warranties on the functionality and operation of the door will be affected.

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How To

Bowed Door

Recommended procedure of measuring a bowed door

The recommended method of measuring a bow on a composite door when checking against the accept/reject tolerance is described below.

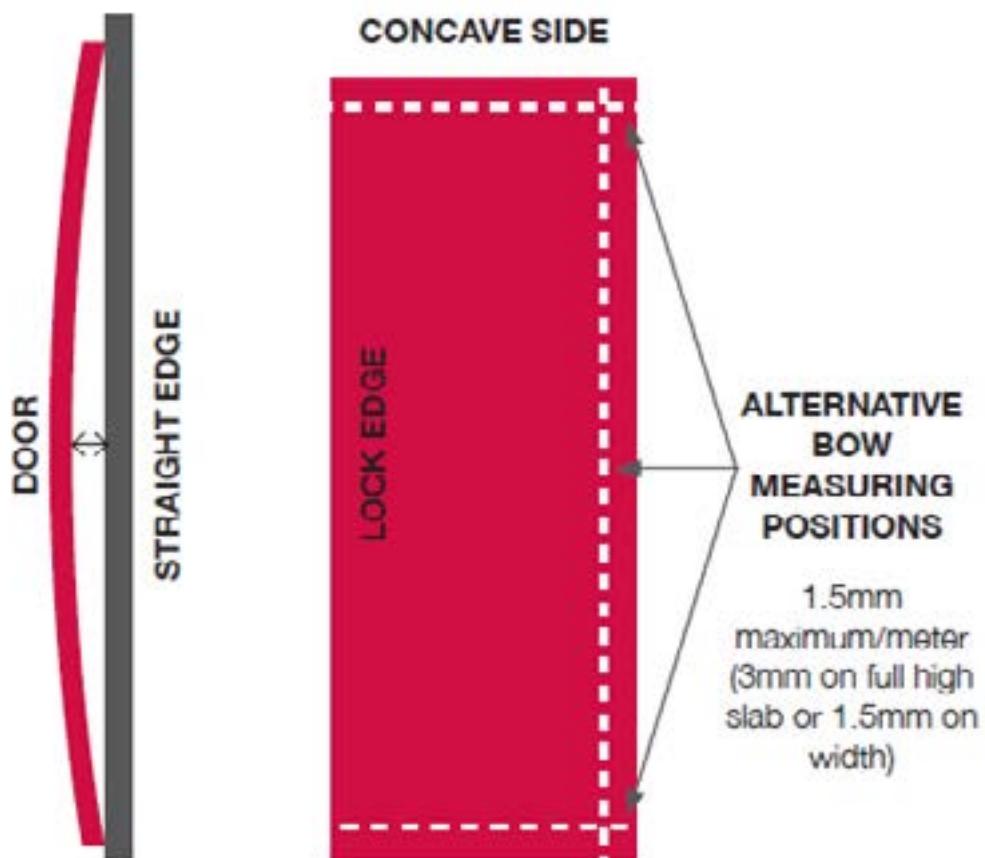
If a door slab is showing a degree of bow this will be exhibited as concave on one side and convex on the opposite side.

The bow measurement should always be taken on the concave side by placing a full length straight edge against the door and measuring the deviation at the central point on the straight edge.

Measurements are not to be taken on the convex side as this does not give a true reflection of bow as defined.

The diagram is exaggerated to illustrate the above.

When the door is closed to help avoid bowing ensure top and bottom locking points are engaged to assist in the reduction of thermal movement.



How To

Bowed Door

Recommended procedure of measuring a bowed door

If the door blank is fitted, you must ensure the frame is plumb and square. Replacing a door blank will not resolve a poor installation, Frame checks must be completed.

Three images similar to the below must be supplied per reported door blank.



Full External Face



Straight Edge on concave Face



Measurement between door & straight edge

Please Note; it is recommended that fabricators pass this information to their customers. This is to ensure that they do not invalidate the warranty by poor installations that will affect the performance of the door-set once installed.

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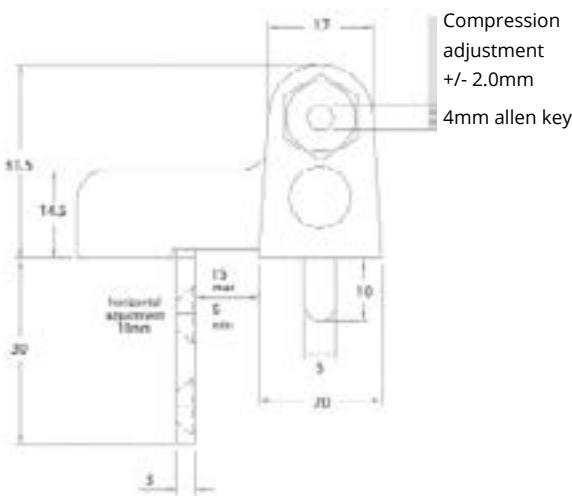
COMPOSITE DOOR

INSTALLATION GUIDE

8. Bring the door leaf to an 'almost closed' position so that you can view and check for an equal gap all the way around the perimeter of the weatherseal and door leaf. The gap between the door leaf and the jamb should be equal all the way down the full height of the door.

9. Re-pack the frame as necessary and open and close the door to ensure correct fitting and alignment and that the lock mechanism is engaging correctly.

10. 2D adjustable hinges are fitted to composite doors (unless non-adjustable butt hinges have been specified), which allow for cam adjustment (see below). Use the adjustment available to ensure the door leaf compression and alignment settings.



11. If all of the above alignments are satisfactory, continue to fix the lock jamb to the substrate using the same methodology as described in points 4 & 5 above.

12. Unless the installer feels it is necessary and depending on individual installation situations, fixings are not usually required through the frame head.

13. Cills and thresholds will experience considerable force during their life with constant traffic use. Ensure that the cill / threshold is adequately packed to prevent excess movement. We recommend that you DO NOT use frame fixings through the threshold as this will compromise the profile allowing possible water egress. Instead, thresholds and cills should be secured using foam and mastic / sealant.

14. With the door fully fixed in position, check the operation of the door, paying particular attention to the locking mechanism fitted. You should notice that the lock 'pulls' the door leaf against the weatherseal for a tight, draft-free seal.

15. Make any necessary adjustments to the lock centre latch and hook keep plates to ensure a suitable and adequate compression seal is achieved.

16. Finally complete the installation by sealing all perimeter gaps by means of sealant strips, pastes or mastic as required, ensuring that no water or air leakage is present between the outer frame and substrate.

COMPOSITE DOOR

INSTALLATION GUIDE

Before starting any installation work including removing old doors, you should check carefully that the sizes of the doorsets supplied are correct and in accordance with the site survey and order documentation. Check also the actual aperture sizes into which the doorset is being fitted. Ensure that fitting tolerances have been allowed for.

1. The condition of the doorset supplied, including any specific hardware and glazing, must be checked before any installation commences. Marks, scratches, warping or other defects must **always be reported within 72 hours** of taking delivery.
2. You should also refer to our standard terms and conditions of supply issued with all Composite Door products.
3. Suitable add-on profiles for plasterline clearance should have been determined by the site surveyor prior to the door being manufactured.

Installation Guide

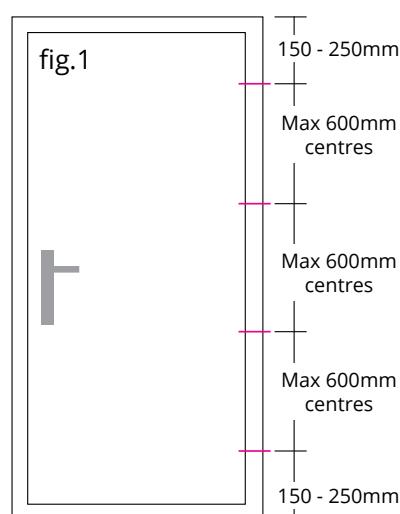
1. Remove the old door taking care not to disturb the surrounding brickwork or substrate and internal decoration.
2. Carefully place the new door into the aperture and use plastic or wooden wedges to temporarily hold the door in position.
3. On the hinge side of the door, pack under the cill or door threshold using appropriate packers, so as to ensure correct flooring clearance and to allow for subsequent door adjustment.

4. Before fixing, ensure the hinge side door jamb is true and plumb then fix the jamb in position using suitable (depending on the substrate) plastic sheathed fixings, positioned not less than 150mm from the inside welded corners or threshold joint and then at centres of no more than 600mm (see fig.1)

5. Each fixing should have adequate packing between the door jamb and substrate so that any possible bowing or frame distortion is eliminated. On average, you should aim to use at least 4 fixings on the door jamb.

6. With the hinge jamb outerframe securely fixed, close the door leaf to engage the lock. With the door in this locked position, pack the frame, cills / threshold gaps to ensure that the door is square and in the correct position all around.

7. Open the door leaf, checking carefully that the door frame position has not moved out of position. Fix the lock jamb at the bottom only using a suitable fixing as before - not less than 150mm from the bottom frame corner weld or threshold joint. *Cont over...*



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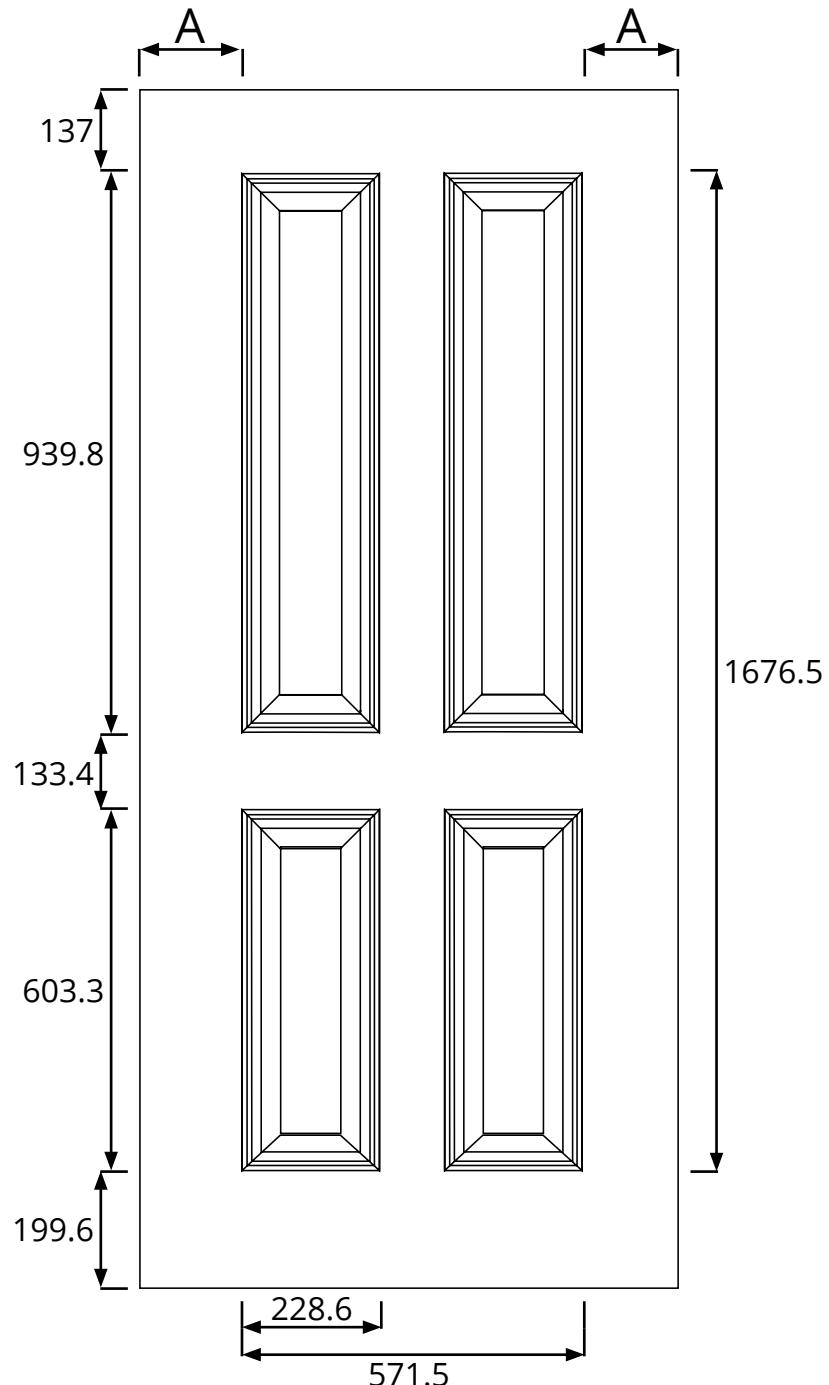
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ESPRIT SOLID

DOOR SPECIFICATIONS



DOOR SIZE	A
762 X 2013 mm	95.3 mm
838 X 2013 mm	133.4 mm
914 X 2013 mm	171.5 mm

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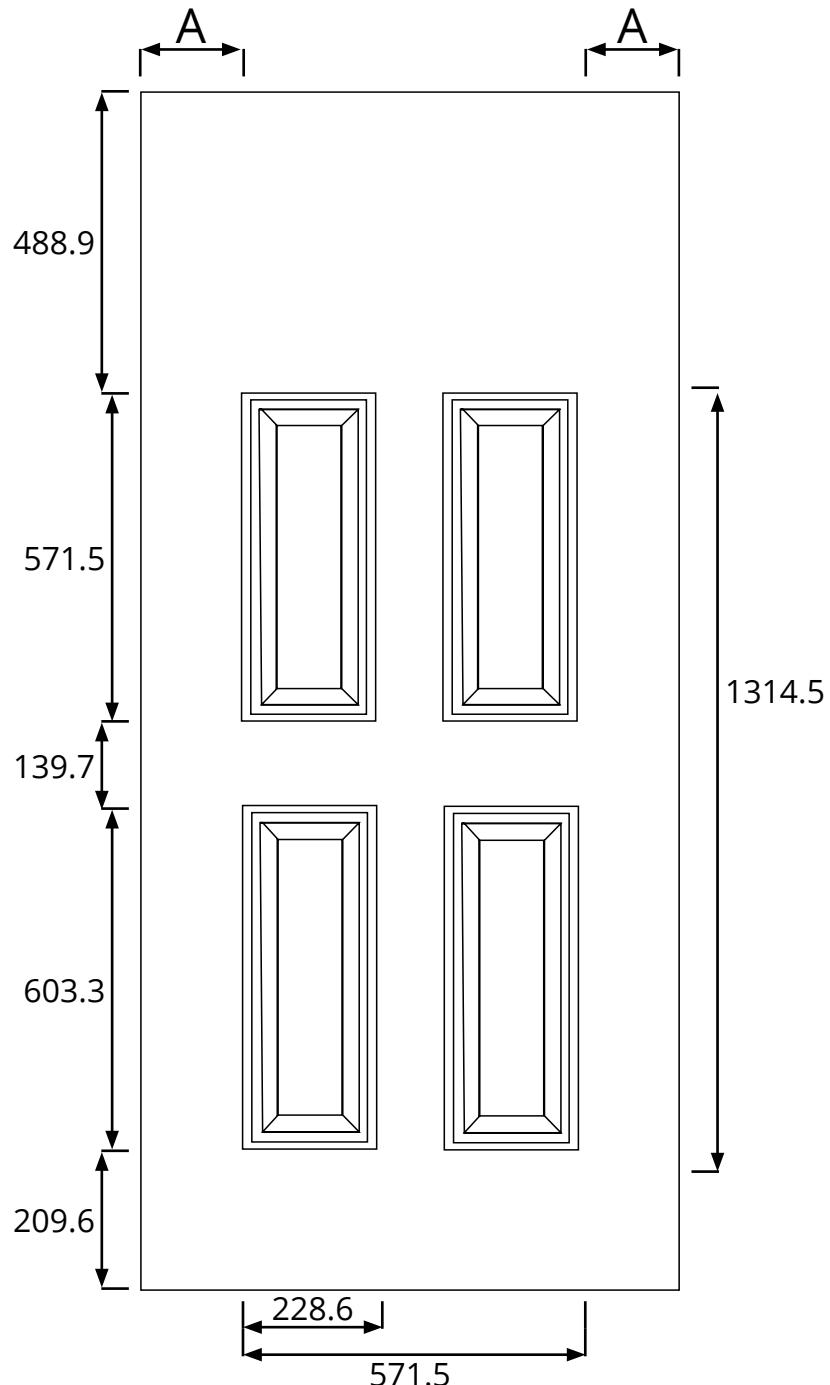
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TUSCAN SOLID

DOOR SPECIFICATIONS



DOOR SIZE	A
762 X 2013 mm	95.3 mm
838 X 2013 mm	133.4 mm
914 X 2013 mm	171.5 mm

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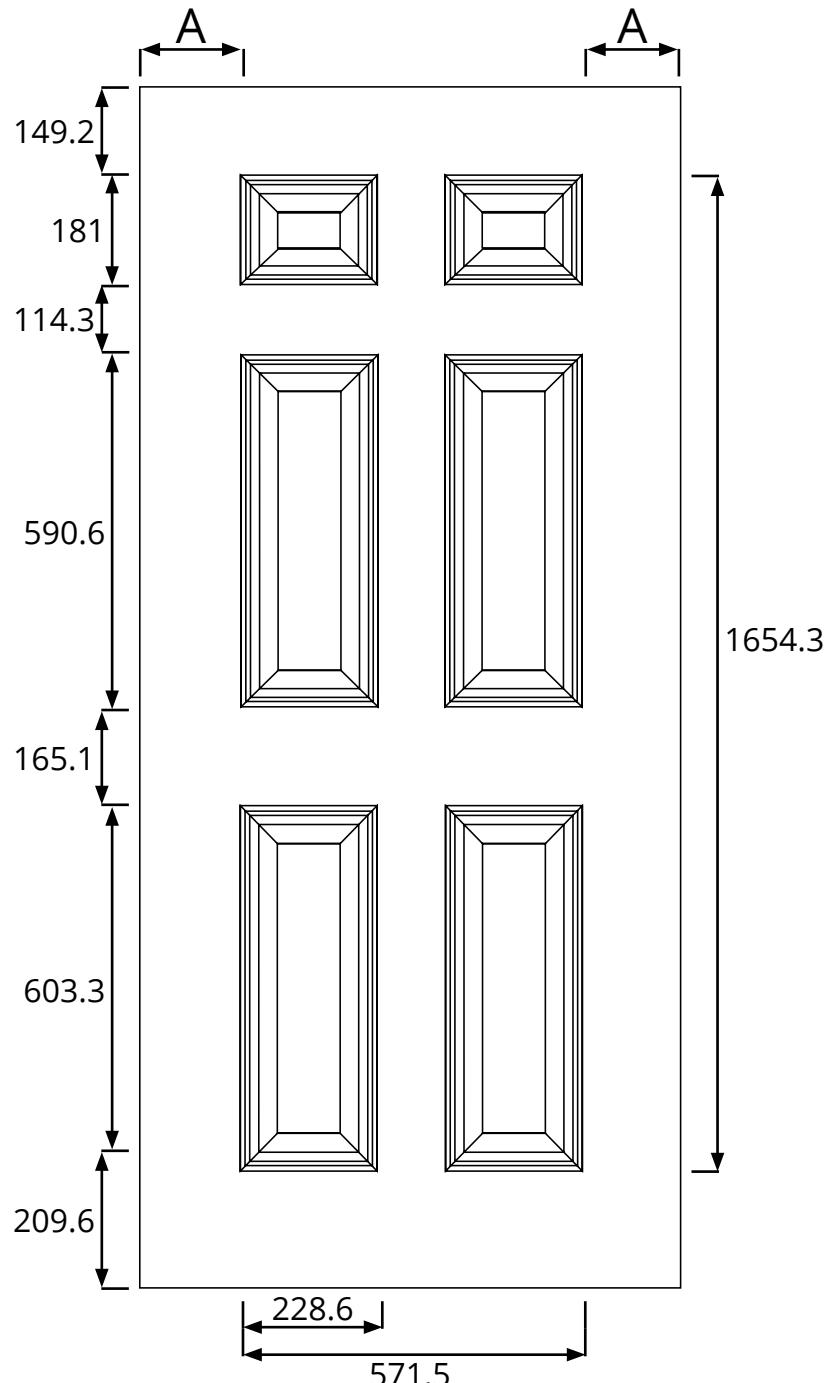
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HALLMARK
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CAMARQUE SOLID

DOOR SPECIFICATIONS



DOOR SIZE	A
762 X 2013 mm	95.3 mm
838 X 2013 mm	133.4 mm
914 X 2013 mm	171.5 mm

HALLMARK Panels & Doors

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Hull, East Yorkshire

Tel: +44 (0)1482 703 222

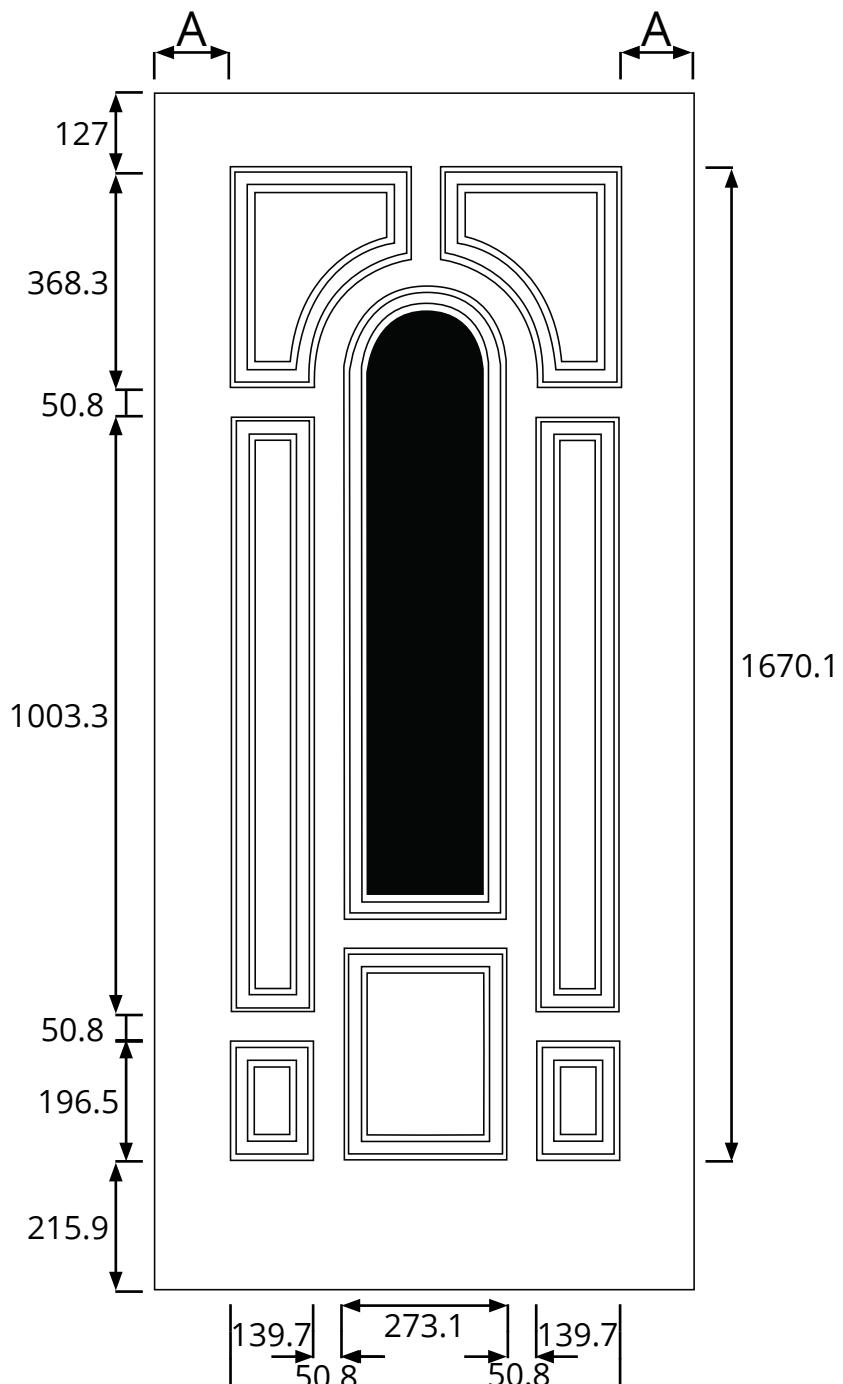
Email: composite@hallmarkpanels.com

Fax: +44 (0)1483 701 185

HALLMARK GROUP PRODUCTS

VANQUISH SOLID

DOOR SPECIFICATIONS



DOOR SIZE	A
838 X 203 mm	92 mm
914 X 203 mm	130.2 mm

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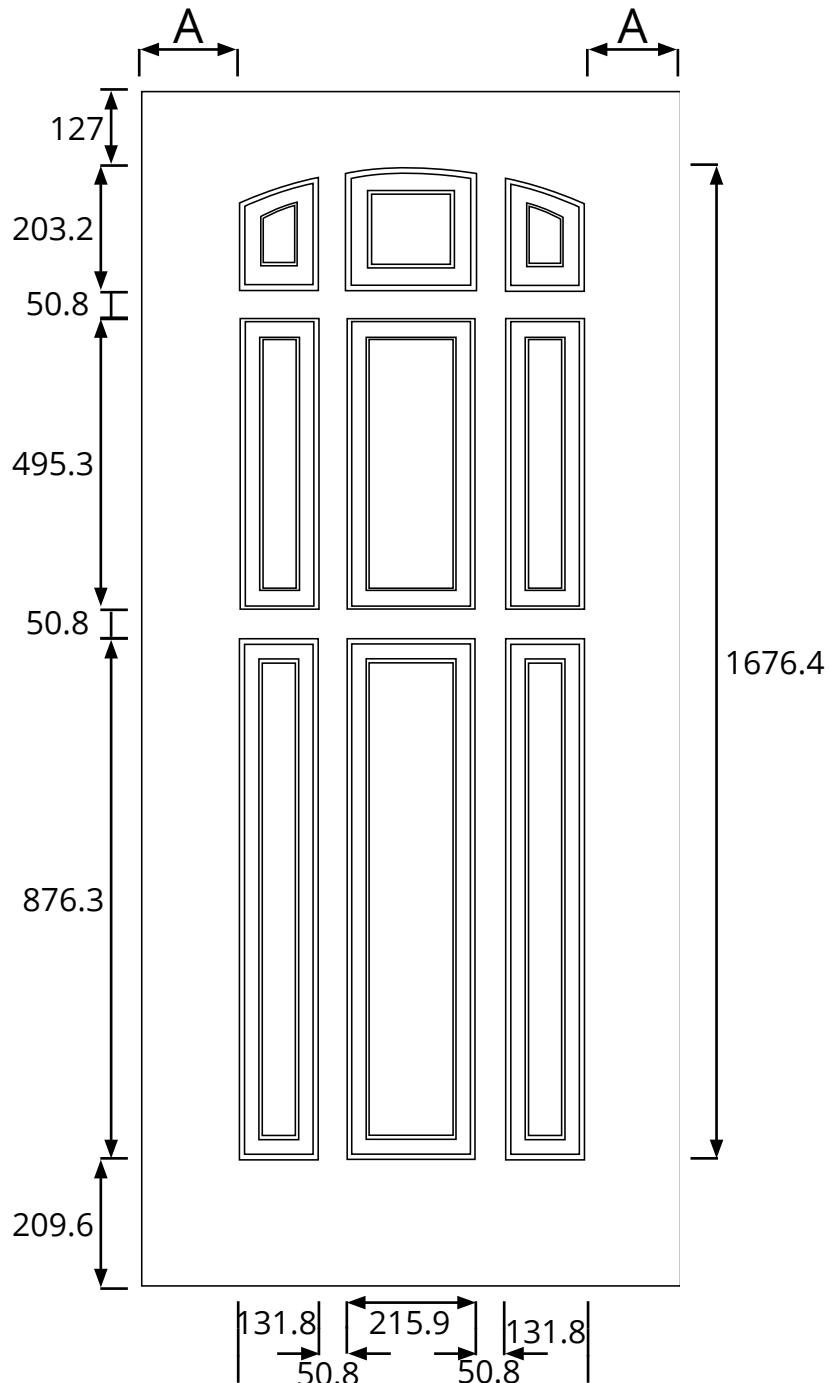
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Web: www.hallmarkpanels.com

HALLMARK
GROUP PRODUCTS

IMPALA SOLID

DOOR SPECIFICATIONS



DOOR SIZE	A
762 X 2013 mm	90.5 mm
838 X 2013 mm	128.5 mm
914 X 2013 mm	166.5 mm

HALLMARK Panels & Doors

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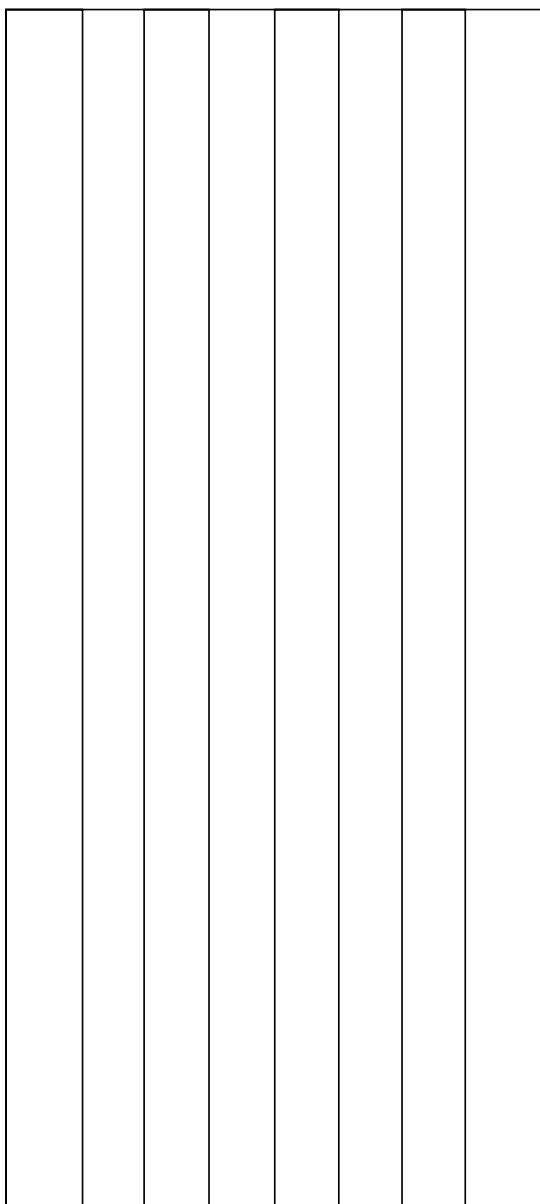
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HALLMARK
GROUP PRODUCTS

COTTAGE SOLID

DOOR SPECIFICATIONS



DOOR SIZE	A	B
762 X 2013 mm	94 mm	99 mm
838 X 2013 mm	103 mm	110 mm
914 X 2013 mm	113 mm	118 mm

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Hull, East Yorkshire

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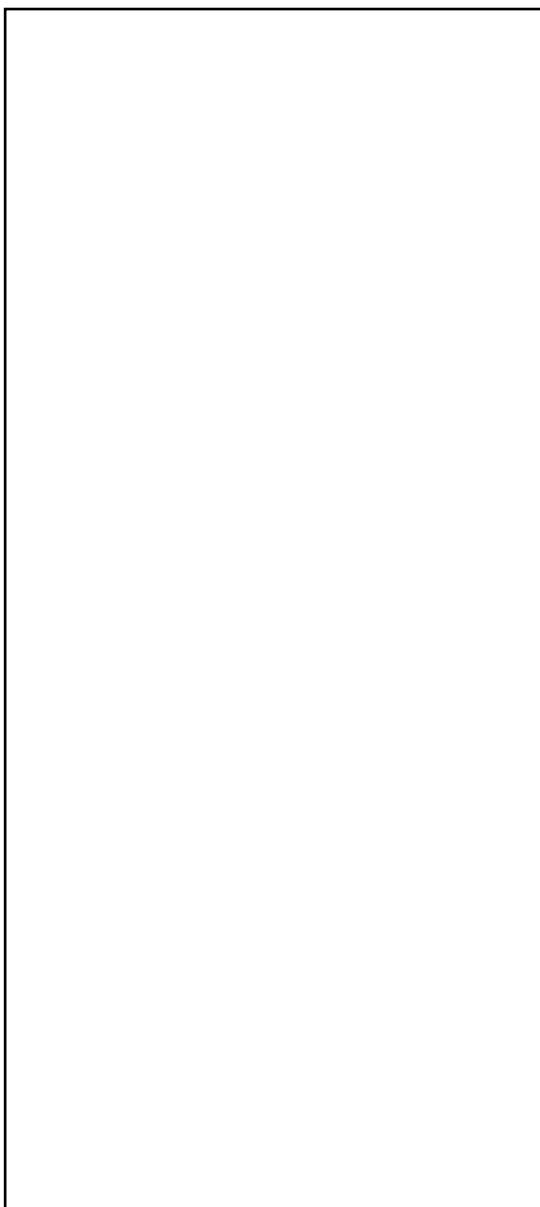
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HALLMARK
GROUP PRODUCTS

FLUSH SOLID

DOOR SPECIFICATIONS



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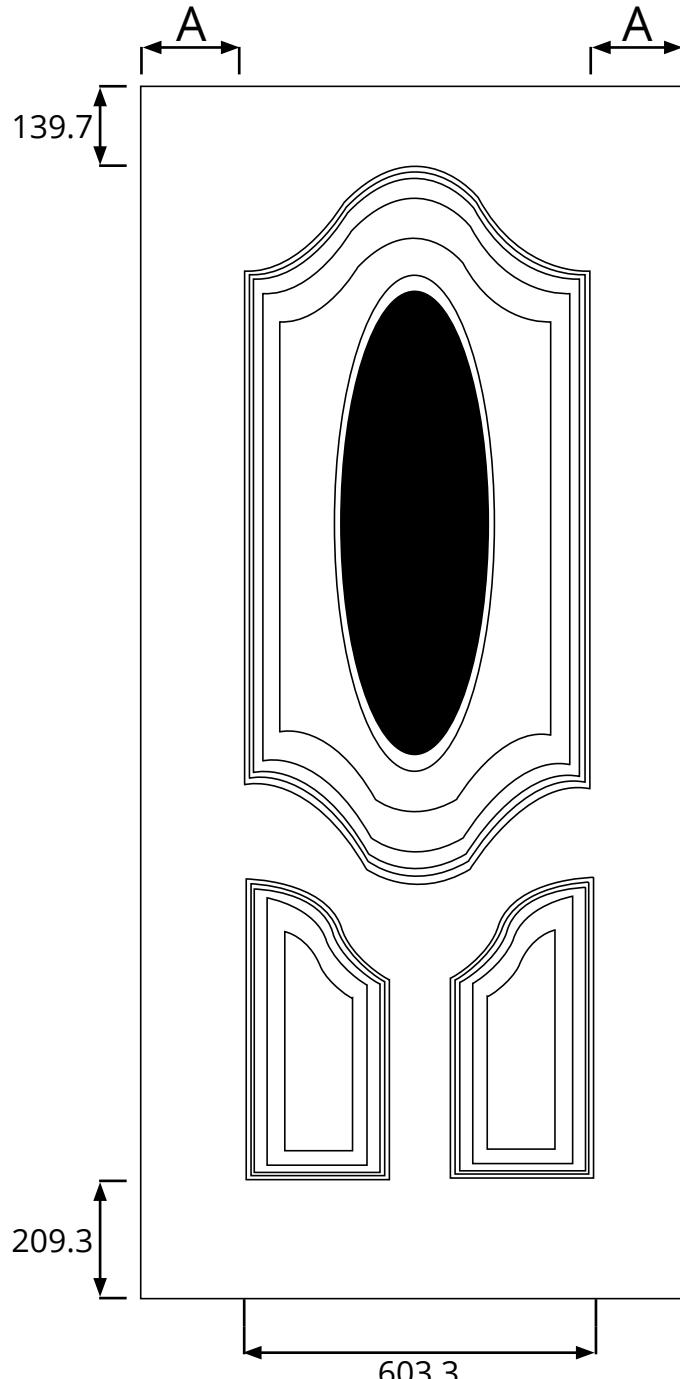
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HALLMARK
GROUP PRODUCTS

VOLANTE SOLID

DOOR SPECIFICATIONS



DOOR SIZE	A
807 X 2013 mm	101.85 mm
887 X 2013 mm	141.85 mm

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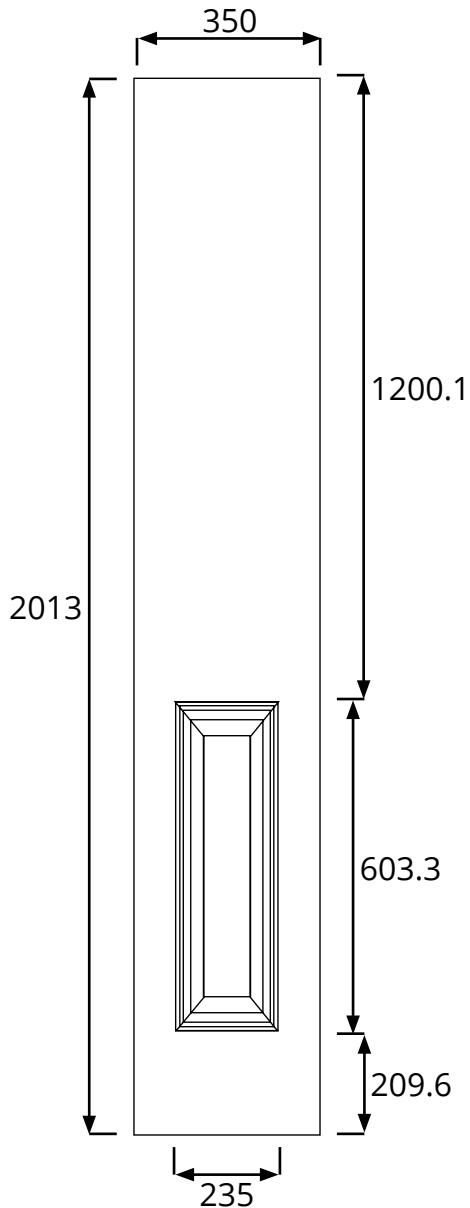
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HALLMARK
GROUP PRODUCTS

SIDE PANEL

DOOR SPECIFICATIONS



TRIMABILITY		
TOP	SIDES	BOTTOM
40 mm	10 mm	70mm

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