

# ULTRA SAFE

+ SECURITY SCREENS



AN ULLRICH ALUMINIUM COMPANY

2017

FABRICATION  
REFERENCE



# WINTEC SYSTEMS

SINCE OUR BEGINNING IN 1997, WE HAVE DEVELOPED A RANGE OF WINDOW AND DOOR PRODUCTS THAT ARE INNOVATIVE, FUNCTIONAL AND STYLISH.

Wintec Systems windows and doors are an all Australian designed and manufactured product, with modern designs and quality finish at the forefront of the Wintec Systems philosophy.

An ongoing commitment to product development and service to our Australia wide fabricator base ensures that no matter where you are, you have access to the latest designs in the Window and door industry.

## ALUMINIUM WINDOWS AND DOORS

We have products to suit all areas in Australia - consisting of: Sliding Windows, Sliding Doors, Awning and Casement Windows, Double Hung Windows, Louvres, Sliding Multi Track Doors, Hinged Doors and Bi-folding Doors.

## WINDOW AND DOOR TESTING LABORATORY

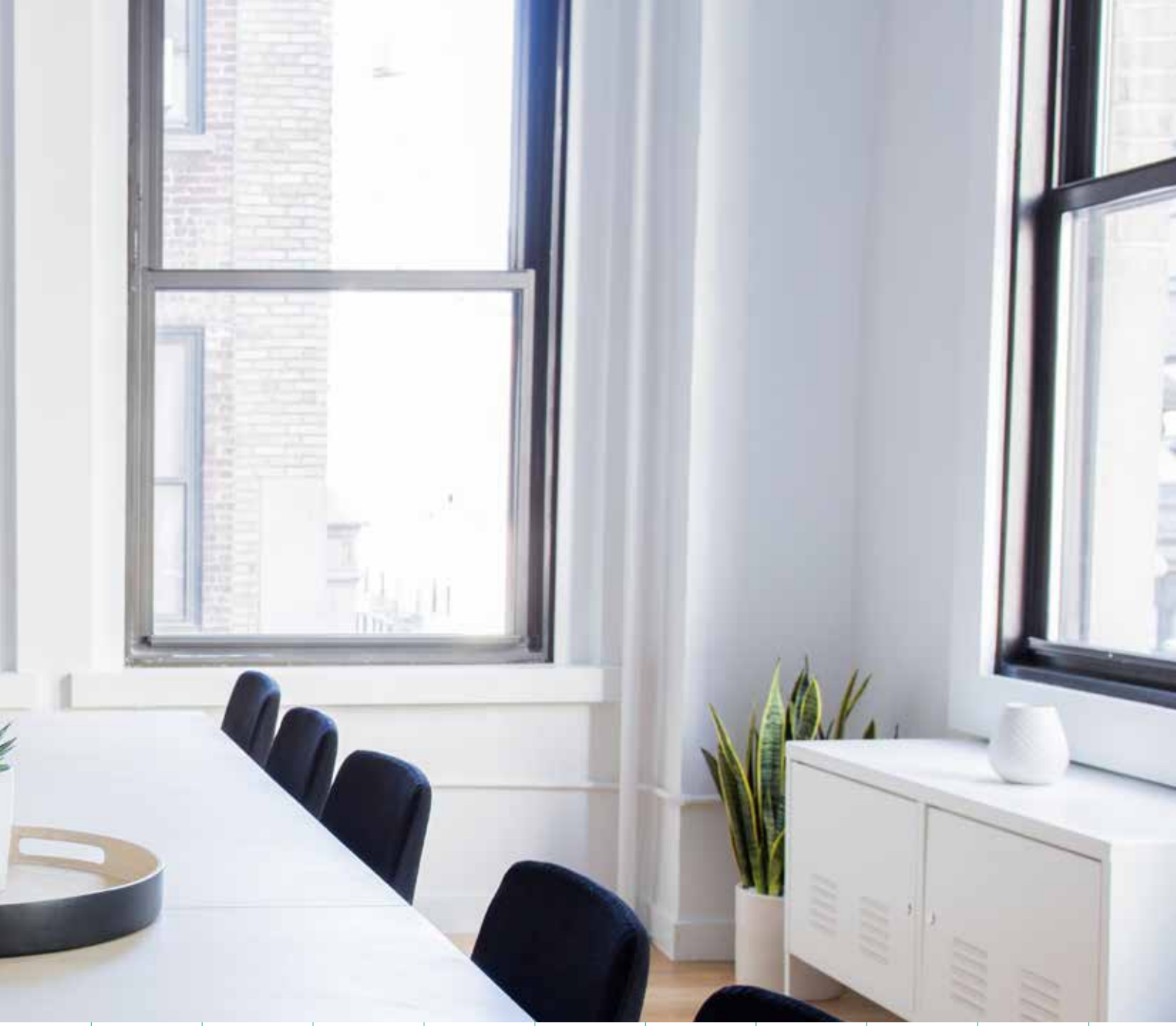
Our products are tested to Australian standard AS2047 in NATA accredited laboratory No 14093. This ensures your windows and doors comply with the building code of Australia [BCA] and are suited to your particular location. In line with the BCA requirements Wintec Systems windows and doors carry a 7 year guarantee.





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# GENERAL INFO



+ VERSATILE &  
CREATIVE DESIGN

WINTEC SYSTEMS OFFERS A RANGE OF BUILDING PRODUCTS DESIGNED TO EXCEED ALL RELEVANT AUSTRALIAN STANDARDS. BE IT WEATHER OR ENERGY EFFICIENT DOOR & WINDOWS, LOW MAINTENANCE EXTERIOR CLADDING, OR OUR INNOVATIVE SECURITY SCREENS - WINTEC SYSTEMS HAS THE PRODUCT.

Introducing Ulltrasafe - now you and your family can feel ultra-safe knowing you are protected by one of the most innovative security window and door screen systems on the market.

Our Ulltrasafe design allows a clear unobstructed view of the outdoors, while protecting your family and home. Ulltrasafe integrates seamlessly within your home and works smarter to give you peace of mind, without sacrificing your lifestyle.

All Ulltrasafe Security window and door screens are manufactured using stainless steel woven mesh, high grade innovatively designed Aluminium framing and high security hardware. When all these elements are combined they exceed all Australian standards.

Wintec Systems Ulltrasafe security products are designed and tested to withstand the harshest of Australian conditions including cyclonic debris requirements allowing you to secure your home without losing the luxury of openness.

Ulltrasafe's unique design allows assembly without the need for screws, rivets or pins penetrating the stainless steel mesh eliminating any possible cause for corrosion.

#### MATERIALS & COMPLIANCE

Ulltrasafe framing is extruded from 6063 T6 premium grade aluminium alloy. The woven wire mesh is manufactured from 316 grade stainless steel to ensure corrosion resistance and strength. The system is tested to

exceed all Australian Standards. And is backed by an extensive warranty.

#### APPLICATIONS

Suitable for use in residential, commercial and industrial situations to protect you, your loved ones and your property.

#### COMPONENTS

Ulltrasafe is supplied as a complete system, which consists of aluminium framing, stainless steel woven wire mesh, corner infill's and foamed acrylic bonding tape. To comply with current security Standards, all hinged and sliding doors must be fitted with triple point locking.

#### PERFORMANCE

Ulltrasafe has been designed to perform year after year in Australia's harsh climate. Supplied throughout Australia, Wintec Systems has the sales and technical support to meet your security requirements.

#### MAINTENANCE

Building owners are responsible for the maintenance of Ulltrasafe security screens.

Regular cleaning (at least 6 monthly) of the powder coating with water and a mild detergent is required to remove grime, dirt and organic growth, to maximize the life and appearance of the surface finish. When cleaning powder coated surfaces, proceed as follows:

Carefully remove any loose deposits with a wet sponge. Use a soft, non-abrasive brush and a mild detergent solution to remove dirt, salt and other deposits. Rinse off with clean water.



# SECURITY SCREEN TESTING

Testing of UlltraSafe security screens was performed at Azuma Designs NATA accredited test Laboratory during May and June of 2016 to comply with the relevant Australian Standards. The tests undertaken were:

## FORCED ENTRY TESTING TO AS5039

- + **DYNAMIC IMPACT TEST:** Simulating a physical attack on the screen mesh to attempt to force the mesh out of the frame and gain entry
- + **LOCK ATTACK:** Consisting of a jemmy test on all locking points with a lever to attempt to break into or release the locking mechanism and gain entry

- + **HINGE ATTACK:** Consisting of a jemmy test on all hinge points with a lever to attempt to break into or release the hinge and gain entry
- + **KNIFE SHEAR TEST:** Simulating an attack on the mesh with a very sharp knife to attempt to cut the mesh and gain entry

## SIMULATED WIND DRIVEN DEBRIS IMPACT TEST

- + **IMPACT TEST:** A 4 kilogram piece of hardwood impacting the screen at a velocity of 29m/s (104.4km/h) followed by 8mm steel balls impacting the screen at the same velocity of 29m/s.

## FORCED ENTRY TEST DETAILS

SCREEN	SIZE	TEST #	TEST DATE
REBATED WINDOW SCREEN	1500 x 900	AZT0173.16	May 23 <sup>rd</sup> 2016
FACE FIXED WINDOW SCREEN	1500 x 900	AZT0174.16	May 24 <sup>th</sup> 2016
HINGED SCREEN DOOR - AUSTRAL LOCK*	2035 x 870	AZT0175.16	May 23 <sup>rd</sup> 2016
SLICING SCREEN DOOR - AUSTRAL LOCK*	2070 x 1250	AZT0176.16	May 23 <sup>rd</sup> 2016
HINGED SCREEN DOOR - ASSA ABLOY LOCK*	2040 x 870	AZT0234.16	May 23 <sup>rd</sup> 2016

\*Note: Test doors are fitted with triple point locks

## SIMULATED WIND DRIVEN DEBRIS IMPACT TEST DETAILS

SCREEN	SIZE	TEST #	TEST DATE
FACE FIXED WINDOW SCREEN	1500 x 1800	AZT0268.16	June 15 <sup>th</sup> 2016



# CUTTING FORMULA

## WINDOWS & DOORS

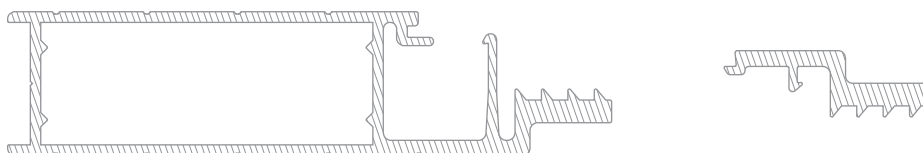
### WINDOW SCREEN CUTTING FORMULA

SECTION	PROFILE	FORMULA
VERTICAL EXTRUSION	USWF10063	Screen Height
HORIZONTAL EXTRUSION	USWF10063	Screen Width
VERTICAL BEAD*	USWB10064	Screen Height - 89mm
HORIZONTAL BEAD*	USWB10064	Screen Width - 89mm
SCREEN MESH HEIGHT	MESH PANEL	Screen Height - 64mm
SCREEN MESH WIDTH	MESH PANEL	Screen Width - 64mm



### DOOR SCREEN CUTTING FORMULA

SECTION	PROFILE	FORMULA
VERTICAL EXTRUSION	USDF10061	Door Frame Height
HORIZONTAL EXTRUSION	USDF10061	Door Frame Width
VERTICAL BEAD*	USDB10062	Door Frame height - 160mm
HORIZONTAL BEAD*	USDB10062	Door Frame Width - 160mm
SCREEN MESH HEIGHT	MESH PANEL	Door Frame Height - 136mm
SCREEN MESH WIDTH	MESH PANEL	Door Frame Width - 136mm



\*Note: Beads are Square Cut | Apply Acrylic Bonding Tape to both Frame and Bead

# FABRICATION GUIDE



Mitre cut frame to size



Square cut beads to size



Insert corner stakes



Assemble frame



Drill & rivet corner  
stakes to frame



Apply bonding tape  
to frame

**\*Note:** When fabricating doors, ensure that styles and rails are machined to accept locks and rollers before assembly. Fit locks and rollers as per manufacturers instructions.



Remove red backing from tape



Fit stainless steel mesh ensuring equal cover on the tape to all four sides



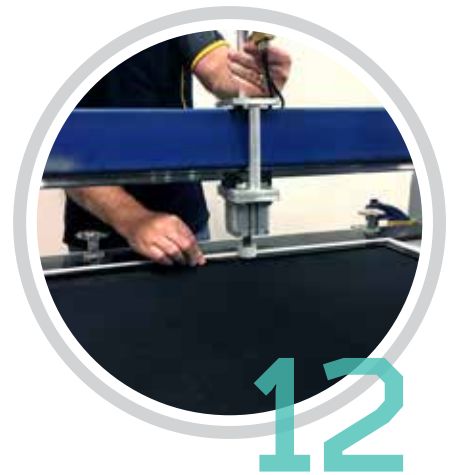
Fit plastic corner infill to frame corner



Apply tape to edge of mesh, alternatively tape can be applied to the bead



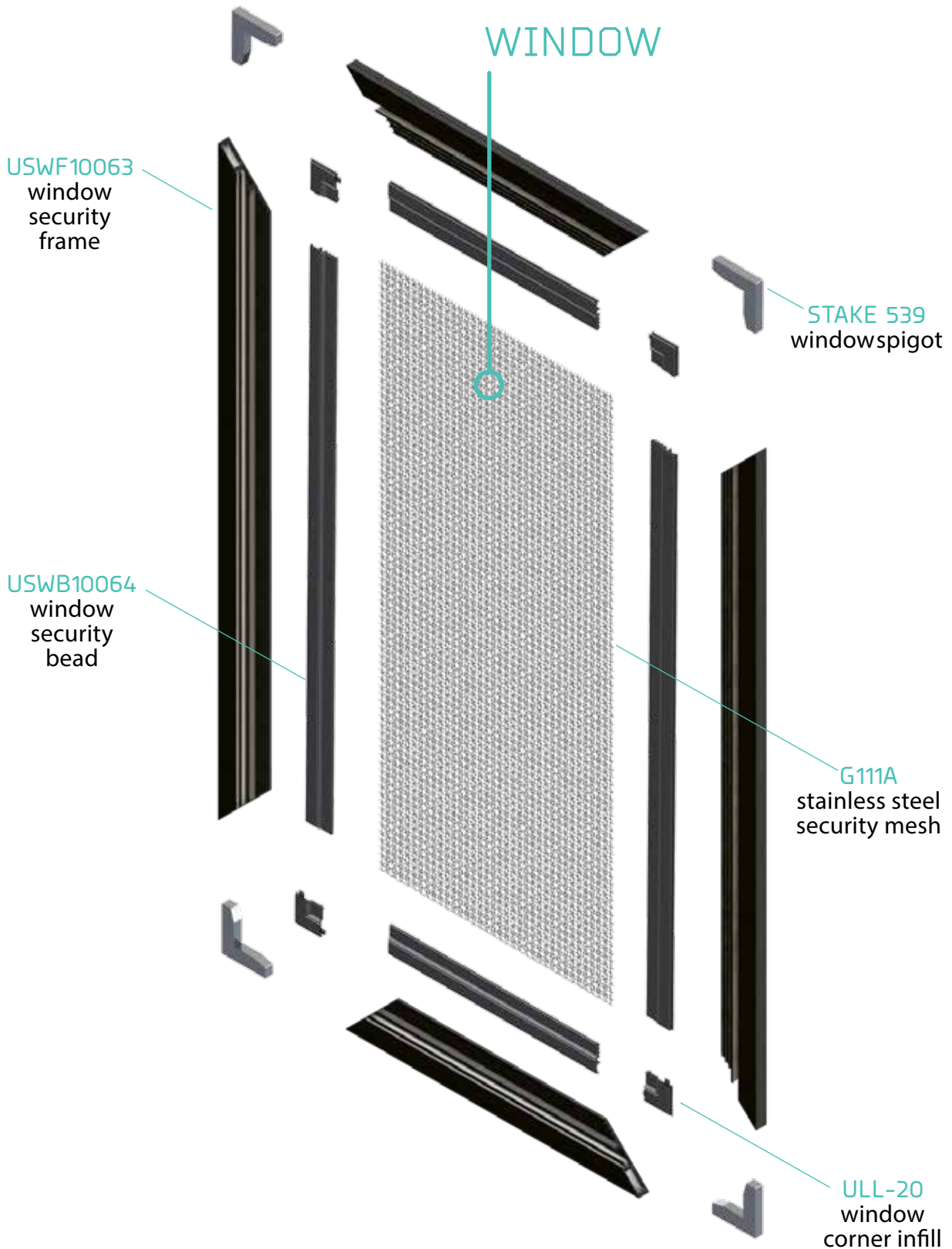
Remove red backing from tape

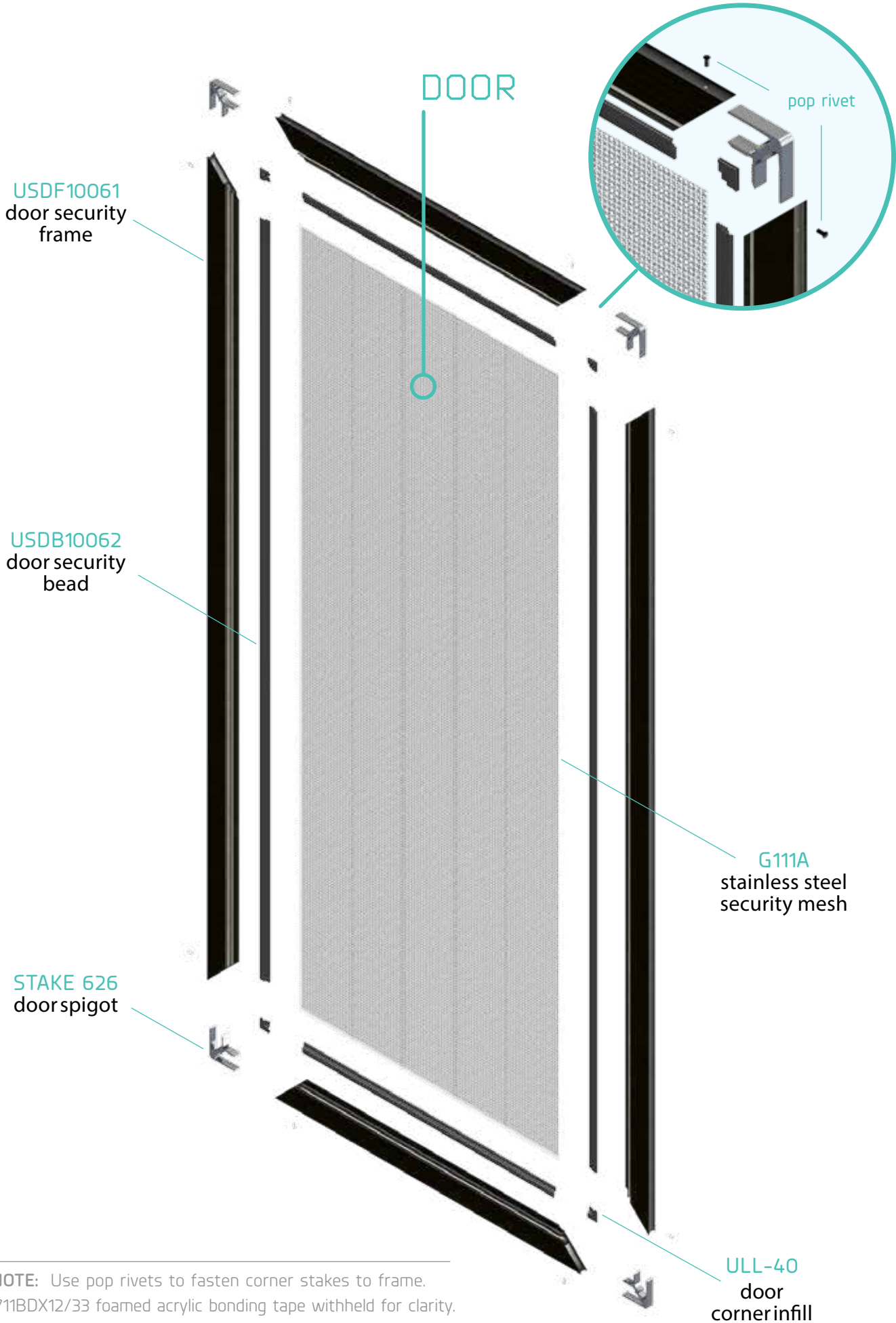


Engage beads to the groove in the frame. Compress the beads into the frame using the Ultrasafe Assembly Machine,

# EXPLODED VIEWS

## WINDOWS & DOORS

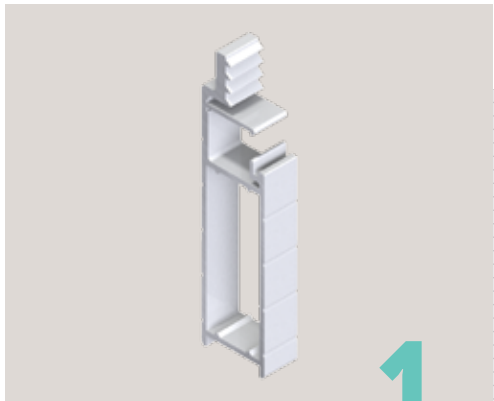




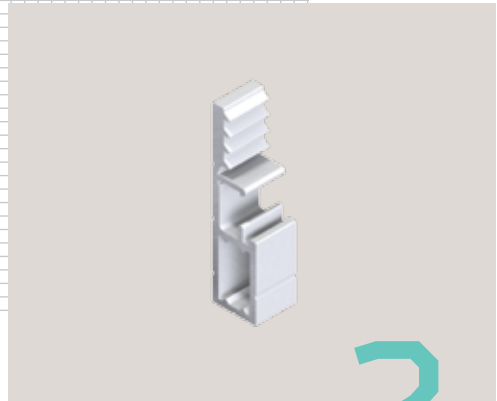


# PROFILES & COMPONENTS





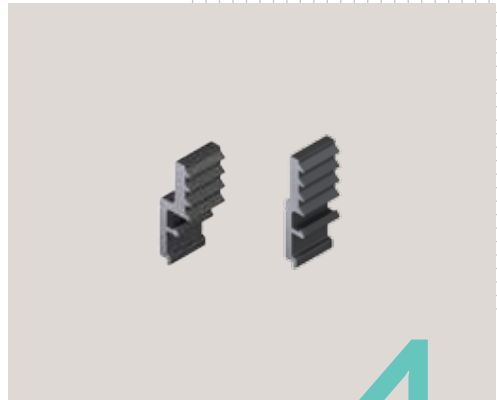
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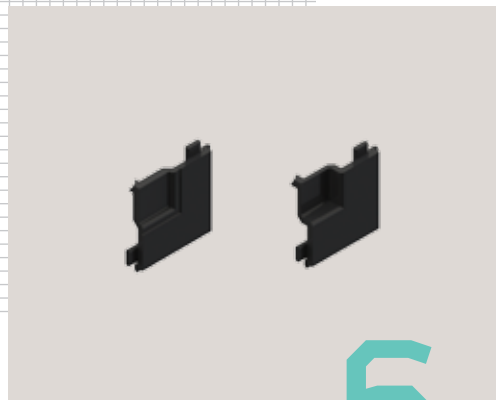
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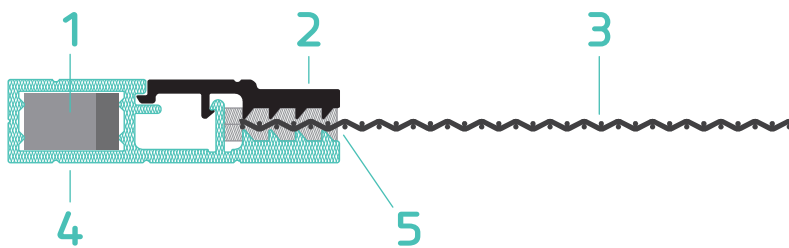
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**INDEX:** 1. USDF10061 Security Screen Door Frame 2. USWF10063 Security Screen Window Frame  
3. T711BDX12/33 Black Acrylic 12mm x 33mm Double Sided Bonding Tape 4. USDB10062 Security Screen Door Bead (LEFT), USWB10064 Security Screen Window Bead (RIGHT) 5. STAKE 539 Security Screen Window Spigot (LEFT), STAKE 626 Security Screen Door Spigot (RIGHT) 6. ULL-20 Security Screen Window Black Corner Infill (LEFT), ULL-40 Security Screen Door Black Corner Infill in (RIGHT)

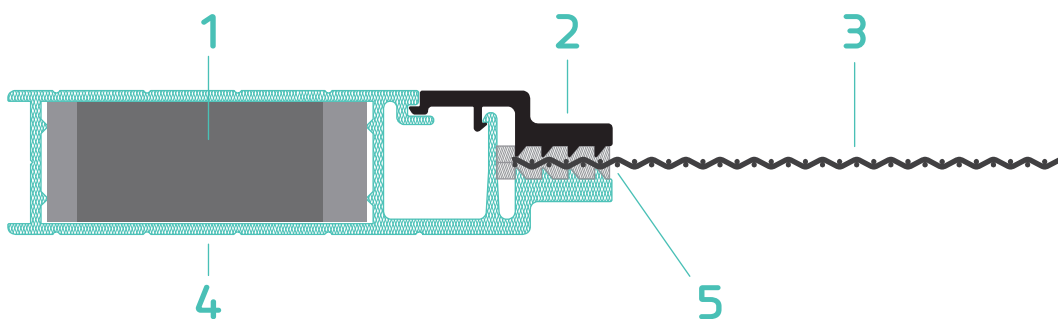


# CROSS SECTIONS

## WINDOW & DOOR



INDEX: 1. STAKE 539 2. USWB10064 window security bead 3. Woven 316 stainless steel mesh 0.86mm thickness 4. USWF10063 window security frame 5. T711BDX12/33 foamed acrylic bonding tape between mesh, frame & bead



INDEX: 1. STAKE 626 2. USDB10062 door security bead 3. Woven 316 stainless steel mesh 0.86mm thickness 4. USDF10061 door security frame 5. T711BDX12/33 foamed acrylic bonding tape between mesh, frame & bead

\*NOTE: Please refer to your local Ullrich branch for the range of interlocks, tracks, and other ancillary screen products available.



# MAC- HINE

NOT ONLY DOES IT ASSEMBLE THE BEAD INTO THE FRAME UNDER HIGH PRESSURE, THE DESIGN ALLEVIATES ANY POTENTIAL PROBLEMS WITH REPETITIVE STRAIN INJURY AND MAKES THE OVER ALL FABRICATION PROCESS FASTER, EASIER, SAFER AND MORE EFFICIENT.

The Ulltrasafe Assembly Machine is used for fitting the beads to the window and door frame. Correct positioning of the frame is achieved by repositioning the frame stop (see black strip with arrows).

- + Forward position = window frame
- + Rear position = door frame

To use the machine, position the pneumatic piston over the end of the bead and press the thumb activated button. This will activate the piston to compress the bead into the frame. Reposition the pneumatic piston along the length of the frame and repeat this process until the end of the bead is reached and it is completely engaged.

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\*Note: Safety guard not shown for clarity

# ULLTRASAFE

## WARRANTY

Wintec Systems warrants to the original purchaser of the Ulltrasafe Security Screens that the product will be free from defects in materials supplied by Wintec Systems under conditions of normal use for a period of fifteen years from the date of installation.

Under the normal conditions of use in a residential - non commercial application, Wintec Systems warrants the Aluminium Framing, Stainless Steel Mesh components and all other components supplied by Ullrich Aluminium in accordance with our 2017 Wintec Systems Ulltrasafe Fabrication reference, to be free of defects in manufacturing and workmanship, when fabricated and installed in accordance with the Ulltrasafe Fabrication Reference. The fifteen year warranty is effective for all new installations from 1st July 2017.

This warranty does not apply to any accessory products that are fitted to the Ulltrasafe Security Screens, including (without limitation) any locks, handles, rollers, hinges and door closures. These accessory products may be covered by warranties supplied by the relevant manufacturer or supplier.

The obligation under this warranty is limited to repair or replacement of the product or components found to be defective by Wintec Systems or their duly appointed representatives.

Our product comes with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to have the product repaired or replaced if the product fails to be of acceptable quality.

This warranty does not cover defects or damage caused by matters outside of the control of Wintec Systems, including (without limitation) accident, alteration of the product in any way, fire, abuse, misuse, general wear and tear or failure to follow our instructions with respect to cleaning or maintenance. Under this warranty Wintec Systems shall not be liable or responsible for incidental or consequential damages or for any other direct or indirect damage, loss, cost, expense or fee.

The benefits conferred by this warranty are in addition to all other rights and remedies which the purchaser has under a law in relation to the goods to which this warranty relates.

All claims under this warranty should be made in the first instance to the original Ulltrasafe Licensee that supplied and installed the Ulltrasafe products. Your original invoice

as proof of purchase is required in order to process a claim. In the event that the original Ulltrasafe fabricator cannot be contacted, the purchaser must then contact Wintec Systems for further assistance on: 07 5535 4477 during business hours (8am - 4.30pm Monday to Thursday, 8am - 2pm Friday). The Purchaser must pay all expenses related to making a claim under this Warranty.

### CARE + MAINTENANCE

Your new Ulltrasafe Stainless Steel Security Screens have been manufactured using the highest quality materials available to the security industry. Ulltrasafe is constructed from Architectural Grade Aluminium and 316 Stainless Steel Mesh, both of which are highly resistant to corrosion and are exceptionally strong. With a moderate\* amount of maintenance, your Ulltrasafe Stainless Steel Security Screens will retain their good looks, and resist the elements for years to come.

As with any valued purchase, effective maintenance is essential to prolonging the life of your products. To maintain your rights as stated in this Warranty, the following care and maintenance instructions must be followed:

Your Ulltrasafe Stainless Steel Security Screens should only ever need to be washed down with a soft bristled brush using warm water and a mild detergent. Ensure to rinse well with mains water so that ALL residue is flushed from the mesh retaining areas of the frame. Only mains water is to be used as recycled, bore or tank water may lead to corrosion. Special care should be taken to avoid excessive amounts of water entering the main lock and auxiliary 3 point locks.

Strong detergents and abrasive cleaners must NEVER be used to clean your Ulltrasafe Stainless Steel Security Screens as these may scratch or damage the surface finish and increase the likelihood of corrosion.

Periodic lubrication of the main lock and auxiliary lock components should only ever be done using graphite powder. Liquid or aerosol lubricants can cause corrosion and damage the locking mechanism.

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\*Frequency of cleaning is largely dependent on the location of the building. In most circumstances cleaning may be carried out every 3-4 months. Products installed close to more severe conditions such as marine or industrial environments should be cleaned every 2-4 weeks.



# DIRE- CTORY

## NEW SOUTH WALES

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Smithfield, NSW, 2164  
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Sydney Fabrication:  
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Harbour, NSW, 2450  
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Kurri Kurri:  
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HEZ Industrial Estate  
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