ULTRA SAFE

+ SECURITY SCREENS

FABRICATION REFERENCE

wintecsystems

CONTENTS

GENERAL INFO

+ VERSATILE & CREATIVE DESIGN

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.

MAINTENANCE

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

Regular cleaning (as advised in the table below) 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.

ULLTRASAFE MAINTENANCE/CLEANING CHART

ENVIRONMENT	MAINTENANCE/CLEANING	ENVIRONMENT DEFINITION
Extreme	2-4 Weeks	Up to 1km from saltwater/heavy industrial
Severe	1 Month	Between 1km-5km from saltwater/heavy industrial
Moderate	3 Months	Between 5km-10km from saltwater/heavy industrial
Mild	4 Months	Between 10km-50km from saltwater/heavy industrial
Low	6 Months	Over 50km from saltwater/heavy industrial

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 23rd 2016
FACE FIXED WINDOW SCREEN	1500 x 900	AZT0174.16	May 24th 2016
HINGED SCREEN DOOR - AUSTRAL LOCK*	2035 x 870	AZT0175.16	May 23rd 2016
SLIDING SCREEN DOOR - AUSTRAL LOCK*	2070 x 1250	AZT0176.16	May 23rd 2016
HINGED SCREEN DOOR - ASSA ABLOY LOCK*	2040 x 870	AZT0234.16	May 23rd 2016

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

SIMULATED WIND DRIVEN DEBRIS IMPACT TEST DETAILS

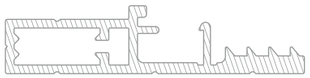
SCREEN	SIZE	TEST #	TEST DATE
FACE FIXED WINDOW SCREEN	1500 x 1800	AZT0268.16	June 15th 2016

CUTTING FORMULA
WINDOWS & DOORS

WINDOW SCREEN CUTTING FORMULA

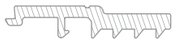
SECTION	PROFILE		FORMULA	
	9mm	11mm	9mm	11mm
VERTICAL EXTRUSION	USWF10514	USWF10063	Screen Height	Screen Height
HORIZONTAL EXTRUSION	USWF10514	USWF10063	Screen Width	Screen Width
VERTICAL BEAD*	USWB10064	USWB10064	SH - 97mm	SH - 89mm
HORIZONTAL BEAD*	USWB10064	USWB10064	SW - 97mm	SW - 89mm
SCREEN MESH HEIGHT	MESH PANEL	MESH PANEL	SH - 59mm	SH - 64mm
SCREEN MESH WIDTH	MESH PANEL	MESH PANEL	SW - 59mm	SW - 64mm

SH = Screen Height | SW = Screen Width



USWF10514

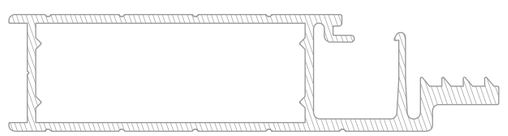
USWF10063



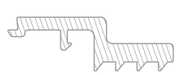
USWB10064

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



USDF10061



USDB10062

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

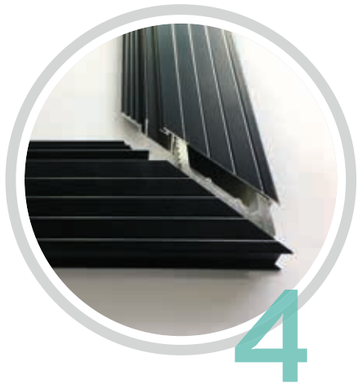
FABRICATION
GUIDE

***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.

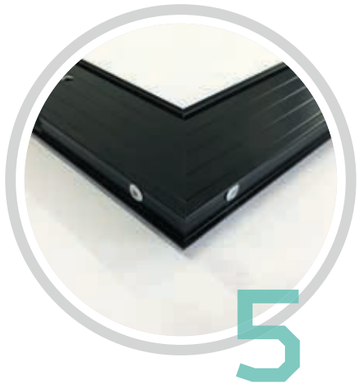
Mitre cut frame to size

Square cut beads to size

Insert corner stakes



Assemble frame



Drill & rivet corner stakes to frame

Apply bonding tape to frame

Remove red backing from tape

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

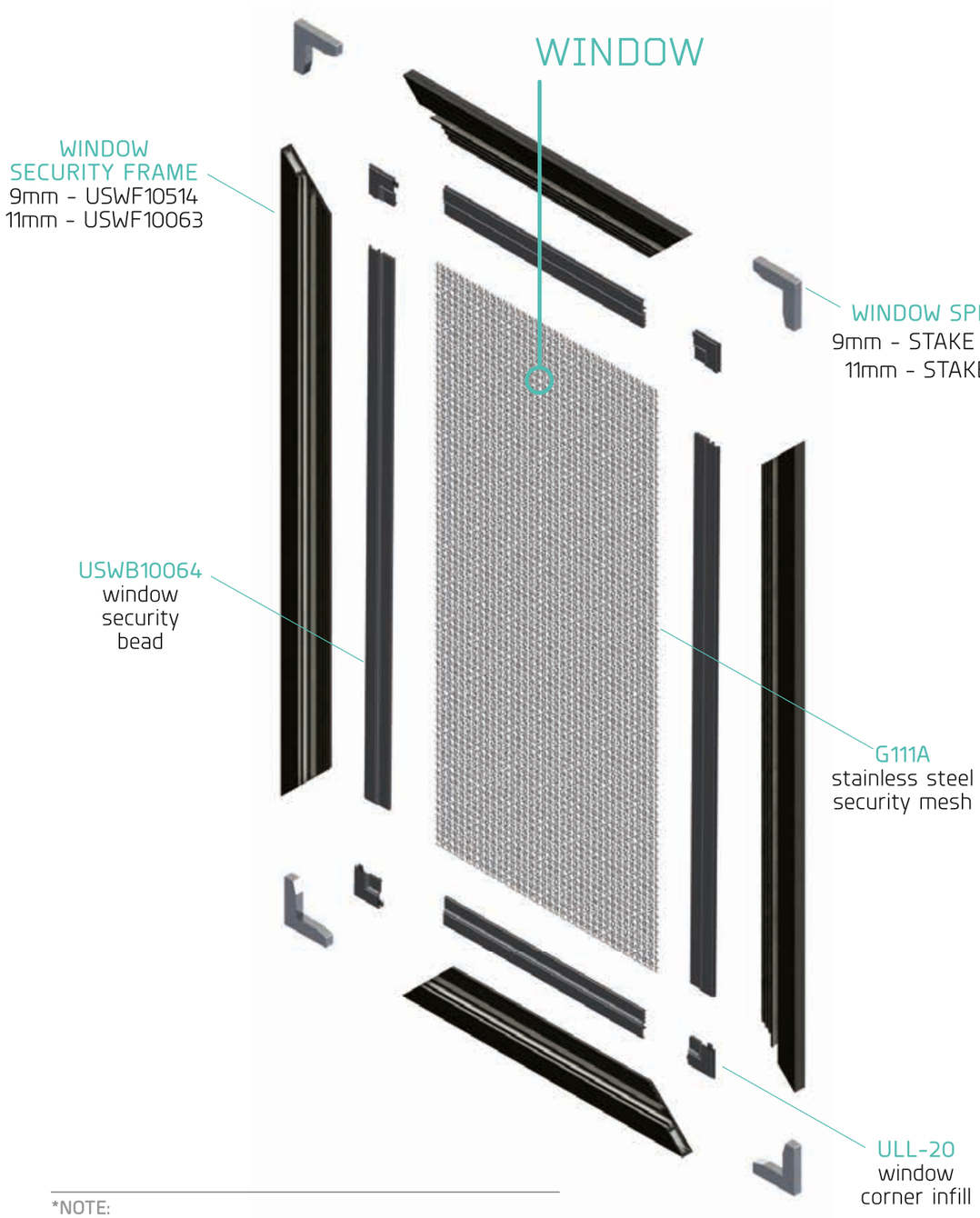
Fit plastic corner infill to frame corner

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

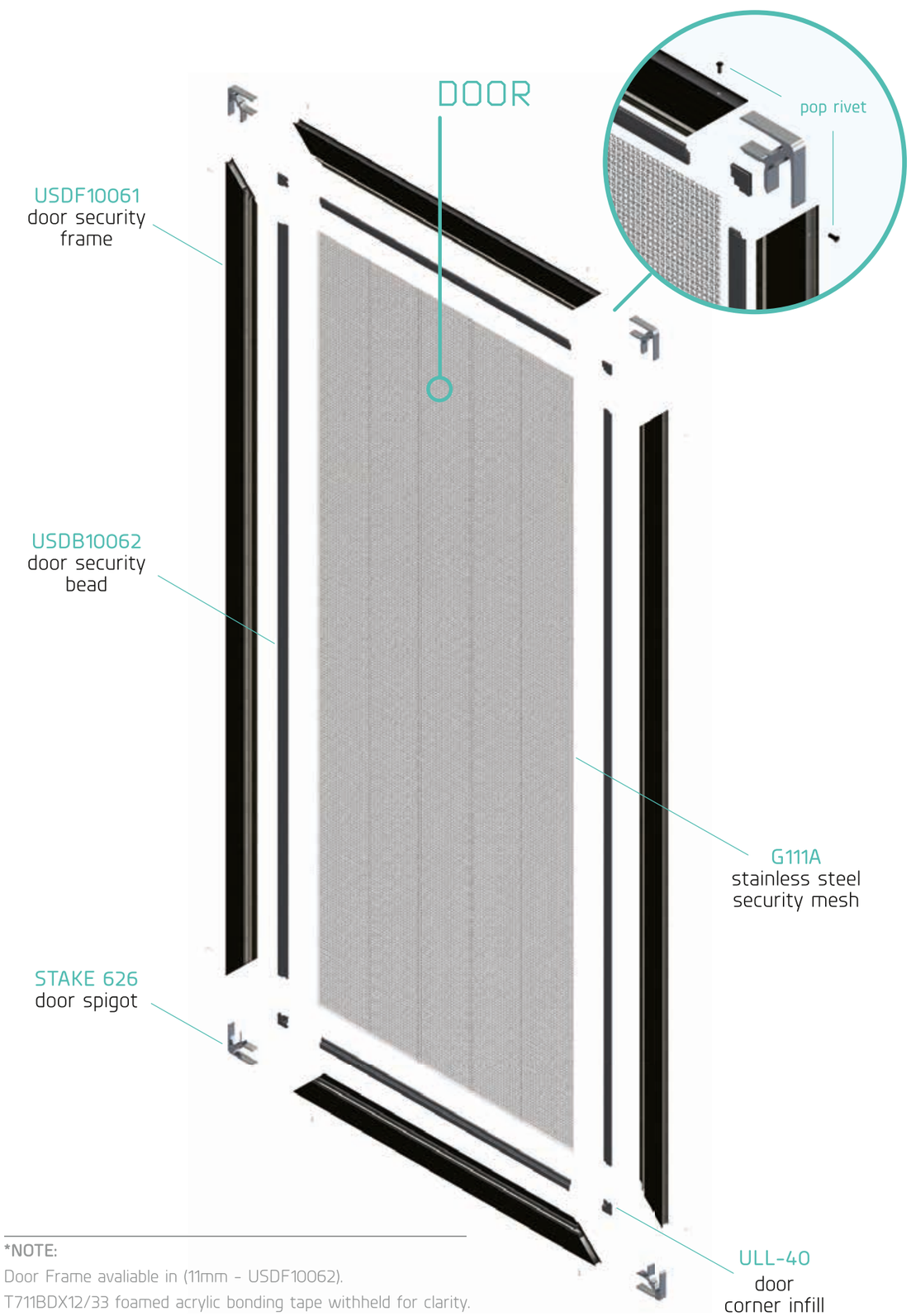
Remove red backing from tape

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

EXPLODED VIEWS
WINDOWS & DOORS

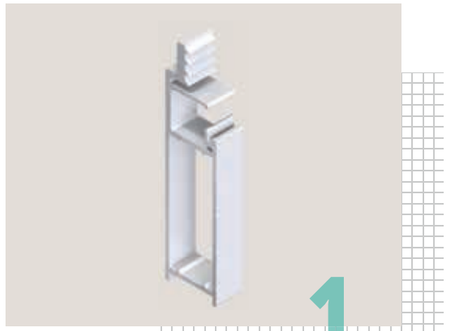


*NOTE:
Window Frame avaliable in (9mm - USWF10514) & (11mm - USWF10063).
T711BDX12/33 foamed acrylic bonding tape withheld for clarity.



*NOTE:
Door Frame avaliable in (11mm - USDF10062).
T711BDX12/33 foamed acrylic bonding tape withheld for clarity.
Use pop rivets to fasten corner stakes to frame.

PROFILES
& COMPONENTS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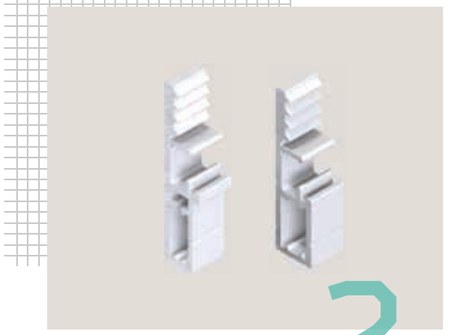
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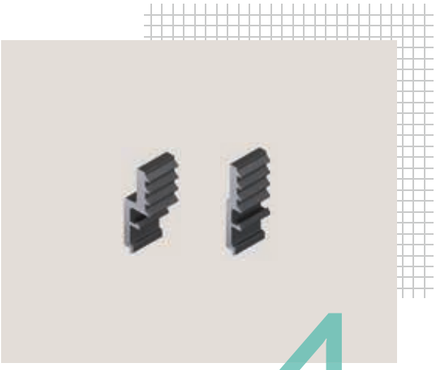
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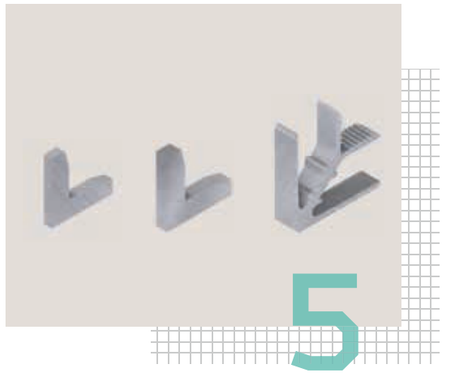
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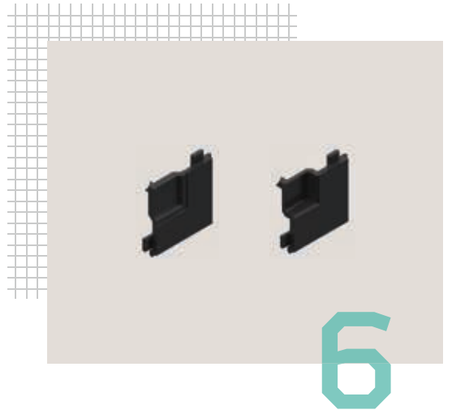
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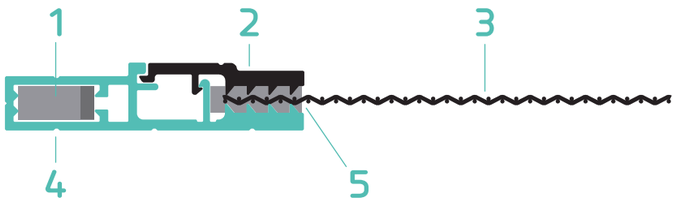
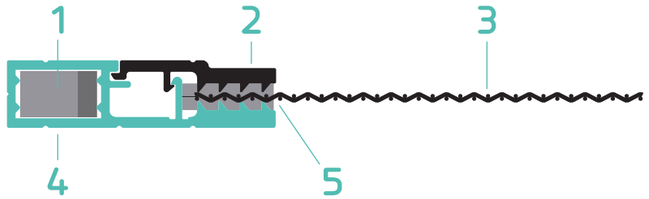
INDEX: 1. USDF10061 11mm Security Screen Door Frame 2. USWF10514 9mm Security Screen Window Frame (LEFT) USWF10063 11mm Security Screen Window Frame (RIGHT), 3. T711BDX12/33 Black Acrylic 12mm x 33m Double Sided Bonding Tape 4. USDB10062 Security Screen Door Bead (LEFT), USWB10064 Security Screen Window Bead (RIGHT) 5. STAKE 50324 9mm Security Screen Window Spigot (LEFT), STAKE 539 11mm Security Screen Window Spigot (MIDDLE), STAKE 626 11mm 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



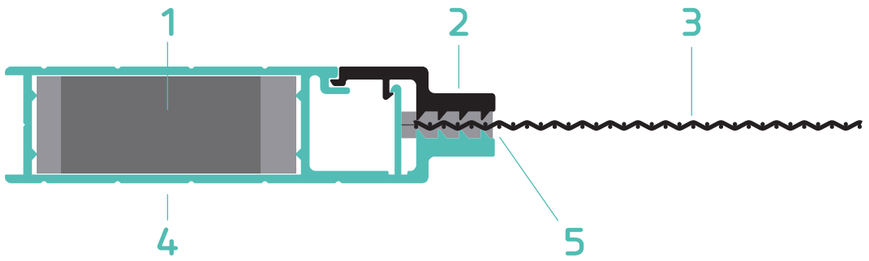
9mm window frame

INDEX: 1. STAKE 50324 2. USWB10064 window security bead 3. Woven 316 stainless steel mesh 0.8mm thickness, 11x11 strands per sq. inch 4. USWF10514 window security frame 5. T711BDX12/33 foamed acrylic bonding tape between mesh, frame & bead



11mm window frame

INDEX: 1. STAKE 539 2. USWB10064 window security bead 3. Woven 316 stainless steel mesh 0.8mm thickness, 11x11 strands per sq. inch 4. USWF10063 window security frame 5. T711BDX12/33 foamed acrylic bonding tape between mesh, frame & bead



door frame

INDEX: 1. STAKE 626 2. USDB10062 door security bead 3. Woven 316 stainless steel mesh 0.8mm thickness, 11x11 strands per sq. inch 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.

*Note: Safety guard not shown for clarity

DIRE-CTORY

Ulltrasafe is certified to the Australian Standard AS5039

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