

# ULTRASYSTEMS

RELIABLE | ALUMINIUM | SOLUTIONS



ULTRASLAT



UltraSlat is the ultimate means of creating a long-lasting slatted screen, fence, gate or balustrade where longevity and low maintenance are the priority. The aluminium replacements for regular timber deck planks provide a stable pleasing alternative while maintaining colour, rigidity and strength. UltraSlats are a cost-effective alternative to high maintenance timber products.

Extruded from 6063 T6 aluminium and powder coated in a colour to suit your needs, the slats can be fixed in place using traditional methods or our unique channel fixing system which allows for pre-calculated spacing and hidden fixings. Use a multitude of slat sizes and different spacing in your product to create a one-off design.

## ULTRASLAT WILL NOT ROT OR DEFORM LIKE REGULAR TIMBER PLANKS

Slats are 20mm thick and available in 140mm, 90mm and 45mm, and can be fitted with the spacing of your choice. They can even be fitted without spacing to create a tongue and groove look.

Slats are extruded in 7250mm lengths and can be provided in mill finish or powder coated to the colour of your choice.

Making use of the channel fixing system for the slats one can create a 24mm thick, complete slatted screen that can be inserted into another product, such as glazing it into an aluminium door system, fitting it into a steel gate, or between fence posts.

Cut them to size with ease, assemble quickly without complicated tools and create a low maintenance product.

Technical drawings and installation diagrams are available on request.

Refer to the Care & Maintenance Guidelines for maximum longevity and optimal performance.

### ADVANTAGES OF THE ULTRASLAT SYSTEM:

- 7250mm long stable lengths
- Long lasting powder coated finishes
- Corrosion resistant (no rotting or warping)
- 140mm, 90mm and 45mm slat sizes
- Competitively priced
- Easy to assemble
- Easy to install



### SLATS:

Fitted into the outer frame channel, they are 20mm thick and available in 45mm, 90mm and 140mm. Available in a maximum length of 7250mm and standard powder colours can be ordered.



### OUTER FRAME CHANNEL:

The channel extrusion is used as the outer frame for mounting slats. The channel is provided in a maximum length of 7250mm and can be powder coated to standard colours.



### INSERT COVER:

Cut according to gap sizes and insert into the outer frame channel to determine gap size and keep slats in place. Available in a maximum of 7250mm lengths and can be powder coated to standard colours.



### POSTS:

Universal frame used as perimeter frame for a sliding gate, mullions, supporting structure and upright posts (such as gate keeps or fence posts). Open sides accommodate channel filler and flat filler. Ends can be capped with frame end cap. Extruded in 7250mm lengths, and powder coated in standard colours.



### DRIVEWAY CHANNEL FILLER:

Used to fill open sides of driveway frame. Channel filler accommodates aluminium, timber slats or an infill panel of 20mm thick. Extruded in 7250mm lengths, and powder coated in standard colours.



### DRIVEWAY FLAT FILLER:

Used to cap open sides of driveway frame, hiding any fixings and leaving a neat, flat appearance. Extruded in 7250mm lengths, and powder coated in standard colours.



### SLAT END CAP:

Custom made to perfectly fit each different size slat. Available in black, grey and white.



### FRAME END CAP:

Used for capping the end of universal driveway frame. Used in conjunction with 5.5x19 CSK screw. Made of aluminium and powder coated.



### OUTER FRAME CHANNEL END CAP:

Finish off the outer frame channel with an end cap. Available in black, grey and white.



**OUTER FRAME CORNER CONNECTOR:** Fitted into the outer frame channel to stabilize and align the mitre corners.



### ULTRASLAT TOOL:

Use the UltraSlat tool as a template to predrill holes in exactly the correct spot. Available in 140mm, 90mm and 45mm.



### ASSEMBLY OF ULTRASLAT PANEL WITH FRAMES ON FOUR SIDES (GENERALLY FOR INSTALLATION INTO A DOOR PANEL, GARDEN GATE OR FOUR-SIDED OPENING)

1. Use the UltraSlat Calculator to compile your cutting list. Fill in all appropriate fields. Use outer manufacturing size, quantity and size of slats, etc. Check that the gap sizes between slats are acceptable. Cut all materials according to the cutting sheet.
2. Use the mitre cut outer frame to assemble a frame with two sides and a bottom.
3. 6X19 dome head stainless steel self-tapping screws are used to join the outer frame corners.
4. Insert the plastic corner supports into the two bottom corners.
5. Use one of the long Ultra Slat insert covers cut from the cutting list. Insert it into the bottom of the Ultra Slat outer frame and move to centre.

You are now ready to start installing slats.

6. Install an UltraSlat insert cover cut at your gap size into each side frame and slide to the bottom against the long cover. This produces your first gap from the underside of the frame to the first slat.
7. Take a slat cut to size according to the cutting list and slide it into the side frames from the top of the frame, pushing down until the slat pushes tightly against the first frame cover which produced the gap.
8. Now repeat the process, installing an insert cover at gap size on either side and again sliding in a slat from the top, up against the cover until all the slats are in place.
9. Push an outer frame connecting block into each top corner of the frame.
10. Fit the remaining long UltraSlat insert cover into the top of the Ultra Slat outer frame and centre.

11. Secure the remaining top frame into position with 6X19 dome head stainless steel self-tapping screws on either side.
12. Your UltraSlat unit should now be fully assembled. The slats now need to be secured into position and this can be done in 2 methods as follows:

#### 1) Riveting through the face of the outer frame channel:

Rivets can be fitted through the face of the channel directly into the slat to secure the slat into position. Note that the rivets may be visible after installation.

#### 2) Screw fixing from the back of the outer frame channel into the screw ports of the slat:

Use the UltraSlat fixing tool which fits and hooks over a slat onto the outer frame channel as a jig to indicate hole position to be drilled with a 3.2mm drill bit. These holes will align with the screw ports in the slat.

Fit 6X19 dome head stainless steel self-tapping screws through the drilled outer frame holes into the screw ports in the slat. These screws should not be visible after installation.

Your UltraSlat panel is now ready to be fitted into the product of your choice.



#### DISCLAIMER:

The UltraSlat Calculator is a tool to assist clients of UltraSystems with the quick generation of quotations and cutting lists on UltraSystems products. As the User it remains your responsibility to use this tool as intended and to make the correct choices for profiles, hardware and all other items. It is the responsibility of the User to ensure that the outcome and results of the UltraSlat Calculator calculations are in line with their requirements. UltraSystems will not be held liable in any way. By using the UltraSlat Calculator, you automatically accept this Disclaimer and agree to comply with UltraSystems' Standard Terms and Conditions (available on request).

### ASSEMBLY OF ULTRASYSTEMS ULTRASLAT PANEL WITH FRAMES ON TWO SIDES (GENERALLY FOR FENCING & SCREENING PURPOSES)

1. **FOR FENCING:** Use the universal frame post for uprights, cut to the required height.
2. If fitting to pickable ground, the post will be fitted at an appropriate depth using premix concrete or post fix foam filler to ensure that the post is secure.
3. Side channels are cut to the required height and fixed to the post on site using 8X16 dome head stainless steel self-tapping screws.
4. Ensure that channels are the same height on either side of each individual channel.
5. Use the UltraSlat Calculator with the option where top and bottom frames are excluded. Use the tight width between each fence post and the height of the outer frame side channels as the manufacturing height.
6. Enter the appropriate slat quantity and size and ensure that the gap size is acceptable.
7. Cut your materials according to the cutting list, excluding the channels which are already fixed to the posts.
8. Take your first slat which will form the bottom slat of your fence and slide it into the top of the outer frame channels and drop all the way down to the bottom level.
9. Now ensure that the bottom slat is level. Fix the bottom slat in place by drilling through the face of the side channel into the slat and secure into position with two 8X16 dome head stainless steel self-tapping screws on either side.
10. Fit in insert cover on either side and drop down. This will form the height of your first gap.
11. Now repeat the process, installing an insert cover at gap size on either side and again sliding in a slat from the top, up against the cover until all the slats are in place.
12. Secure the top slat into position with 8X16 dome head stainless steel self-tapping screws on either side.
13. Secure the balance of the slats on either side through the face of the outer frame channel into the slat as deemed necessary.
14. Fit the outer frame channel end cap on top of the channels and a frame end cap on top of the posts to finish.



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UltraSystems products are made with high-quality aluminium, stainless steel and corrosion-resistant components which provide maximum longevity and weather protection.

Follow our care and maintenance guidelines to achieve maximum lifespan of your products.

## ULTRASLAT REQUIRES PERIODIC CLEANING AND MAINTENANCE AFTER INSTALLATION AND THROUGHOUT THE LIFETIME OF THE PRODUCT

### GENERAL INSTRUCTIONS AND CLEANING GUIDELINES:

- Clean the UltraSlat system regularly with a mild detergent and water solution to remove dirt, debris, and grime. Use a soft cloth or sponge to gently wash the surfaces, then rinse thoroughly with clean water. For best results follow the instructions on our “Coastal Homes Guidelines”.
- Apply ACF-50 to cut and exposed joints and mill finish hardware to suppress corrosion.
- Inspect the aluminium components for signs of corrosion. If any corrosion is detected, clean the affected area with a non-abrasive cleaner and apply Corrosion Block or ACF-50 as per manufacturer's instructions.
- Check the powder coating for any chips or scratches. Touch up any damaged areas to maintain the integrity and appearance of the finish.
- Ensure that the gate and fencing system is securely fixed to the supporting structure using appropriate fixing points.
- Apply lubricant to any moving parts, such as hinges or locks, to ensure smooth operation. Use a silicone-based lubricant to prevent corrosion and avoid attracting dirt and debris.

- DO NOT USE ANY CHEMICALS, SOLVENTS, CAUSTIC OR ABRASIVE CLEANERS
- DO NOT USE A METAL SCRAPER OR ABRASIVE PAD ON THE POWDER COATED FINISHES
- DO NOT USE A HIGH-PRESSURE SPRAY NOZZLE WHEN CLEANING
- DO NOT PLACE OUTDOOR SPRINKLER HEAD CLOSE TO THE BALUSTRADE

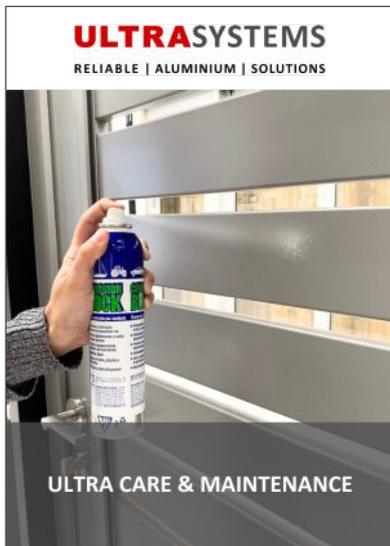
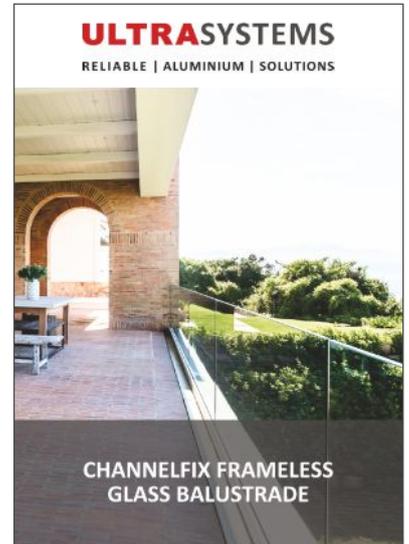
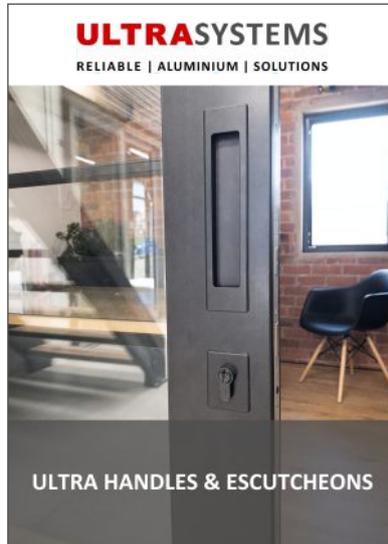


### NOTE:

Avoid subjecting the slats to excessive force as this can cause damage. Do not overload the gate or fencing beyond its weight capacity, as this can compromise its structural integrity.

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