

Alpha External Screen System



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Represents the latest in design,
styling and functionality.

Weathermaster®





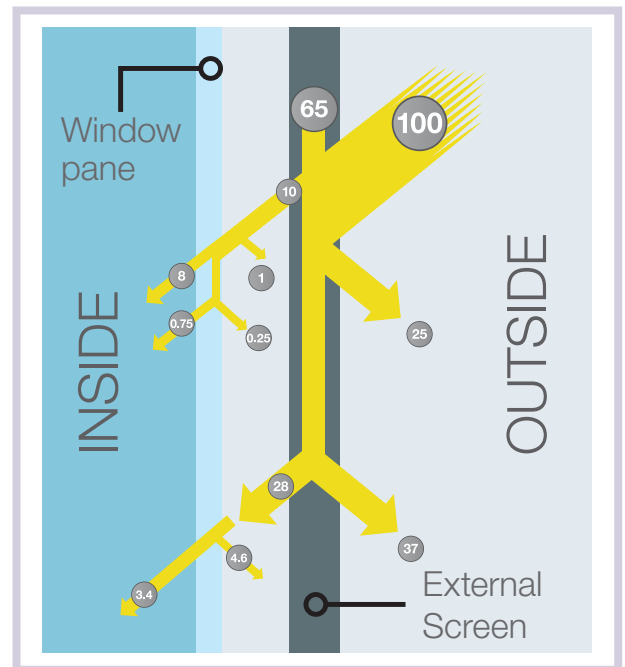
Your Environment

Impact of sun on your home

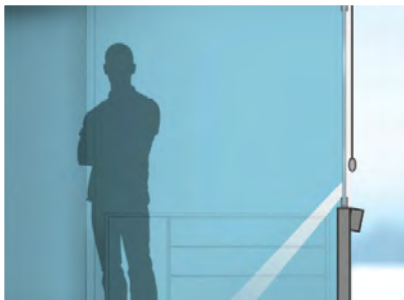
Throughout the day, the sun moves from sunrise in the east through the north sky and sets in the west. This means the amount of heat from the sun received by a window varies according to orientation and time of year. In summer, the sun travels higher through the sky with direct exposure to east and west windows, in winter the sun travels lower with a greater angle through north facing windows. Each home is different - window size, orientation, glazing treatment, shading and internal coverings can have a significant impact on energy efficiency and comfort.

An External Screen shading a window reduces the radiant energy passing through the glass into the room. When the radiant energy touches an object inside it gets hot, making the room hot. Windows are a big source of unwanted heat loss and heat gain in your home.

Choosing the right window coverings means you can improve the comfort of your home all-year-round, reduce your power bills and cut carbon pollution.



Keep your home cool in summer



During summer, about half of unwanted heat comes through exposed windows, especially those facing east and west. Shading your windows with Alpha External Screens can minimise heat in your home to create a comfortable cooler environment – and potentially save you hundreds on energy bills.



Keep your home warm in winter



You can control the temperature of your home in winter without relying on power-hungry heating appliances. To make the most of sunny days, open your External Screens on windows facing the sun – this will let in sunlight and warmth, and will help to minimise the need to use your heating system. Keep the warmth inside during winter using well-fitted insulating window coverings such as Weathermaster® Whisper® Cellular Shades.



Alpha External Screen System by Weathermaster®

Alpha External Screen System

The Weathermaster® Alpha External Screen System represents the latest in design, styling and functionality. Offering a full suite of External Screen systems including: Side Tension Channel (STC), Cable Guide, Straight Drop, and Pivot Arm the Weathermaster® Alpha External Screen Range offers a common, aesthetically appealing look across all products with a solution to meet every customer's need.

Selected Alpha External Screen products can span 5 metres wide in either an enclosed headbox, open headbox or open roller options. In addition, the Weathermaster® Alpha External Screen System has a unique bottom rail that offers consumers added functionality such as: Improved locking bolt, hold down straps, concealed spline inserts, insect brush and the ability to add additional weight bars for windy conditions.



Side
Tension
Channel



Cable
Guide



Straight
Drop



Pivot
Arm

Environmental Testing

Quality testing for durability and strength

The Weathermaster® Alpha External Screen System is designed for New Zealand conditions, engineered and independently tested to withstand the harsh New Zealand climate including sun, wind and rain.

Salt spray testing

Testing for corrosion resistance for wet weather.



Cycle testing

Weathermaster® products are cycle tested to replicate daily use for a minimum of 7 years.



Weight load testing

To ensure strength of all parts.



Wind load pressure testing

Weathermaster® Alpha External Screens have been tested by an authorised and respected independent organisation to determine the maximum loads the External Screens can withstand before signs of distress and ultimate failure. This table (below) provides a guide for the wind pressure that these External Screens can withstand. We recommend External Screens are retracted in windy conditions to avoid the potential for damage.



UV testing

Testing to ensure the colour's fastness when exposed to the damaging UV rays from the sun.

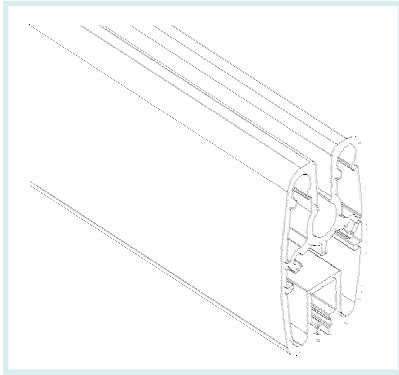


Screen System	Pressure (Pascal)	Equivalent Wind Speed	Equivalent Weight (Kg)
Alpha Straight Drop	225	67 km/h	185
Alpha Cable Guide	225	67 km/h	185
Alpha STC	550	90 km/h	453
Alpha Pivot Arm	50		41

These results are based on an External Screen size 3300 x 2450mm

Features & Benefits

Bottom rail



The multi-functional bottom rail offers a variety of features whilst maintaining a subtle modern design curve to seamlessly blend with the headbox aesthetics.

Bottom rail weight bar

The bottom rail has been designed with a weight of 1.2kg per metre effectively reducing bottom rail flex. With the option to increase the bottom rail weight to 2.2kg per metre, the Weathermaster® Alpha External Screen Range keeps fabric taut and assists in minimising bottom rail “bounce” in windy conditions.

Locking bolt and hold down strap

With the ability to add locking bolts and hold down straps, the Weathermaster® Alpha External Screen System offers versatility for holding the fabric secure between the channels and minimising any bottom rail movement in windy situations.

The locking bolt also allows the bottom rail to get close to the ground in order to minimise light gaps.

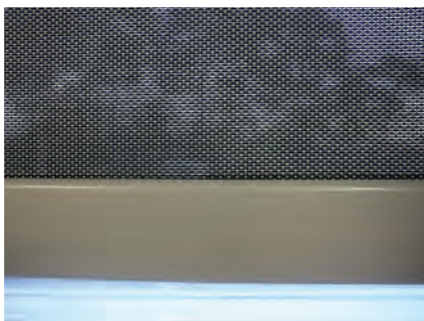
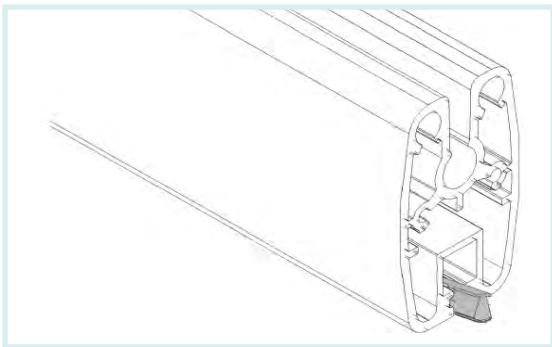
Hold down straps can be secured at points that best suit the customer’s needs and the application. The straps can be placed anywhere across the width of the bottom rail allowing the External Screen to be locked into place.

Insect brush

With the ability to add the pile brush to the bottom rail, the opportunity for light gaps, insects, debris, wind and rain are significantly reduced from entering your protected area. The brush also protects the bottom rail from chipping if dropped to the ground quickly.

Concealed spline insert

The new bottom rail is designed to cover any welds or stitching required to secure the fabric to the blind. The concealed spline maintains the clean look of the Weathermaster® Alpha External Screen System meaning an External Screen of 5m (W) x 2.9m (D) with Smart Shade External Screen fabric will have no visible welds or joins.



Features & Benefits

Headbox and open roller options

Weathermaster® Alpha External Screen Systems offer two designer headbox options for increased functionality and a modern contemporary look. There is also an open roller option for a cost effective alternative.



Closed headbox

The closed headbox protects the fabric from external elements such as rain, UV and debris. This assists in keeping the fabric clean and enhances longevity.

Open headbox

The open headbox also allows more air to circulate around the roller thereby minimising heat build up. The open headbox is also ideal for installations where there are obstructions preventing back rolled products, and is ideal for front rolled Drop and Cable Guide External Screens. (Standard option for PVC Screens).



Open roller

A cost effective option , the open roller system offers a modern industrial look by exposing the operation componentry. By eliminating the aluminium headbox profiles, the price is reduced making it the ideal choice for the cost conscious consumer.



Spring Lift System

The Weathermaster® Alpha Spring Lift System is an all new control option that allows you to operate your External Screen without the need for a motor or crank.

The Spring Lift System now gives you another control option for quick and easy operation of your Alpha External Screens.

Rather than having to turn the crank or wait for a motor, simply pull the bottom rail to the desired height and gently release to lock the External Screen in position. To raise the External Screen pull the Bottom Rail down slightly to unlock then raise and gently lock at the new position; a simple and quick operation.

The new Spring Lift System has been designed with simplicity in mind and features:

- Secure lock points which prevent the External Screen from creeping up in the wind.
- Spring Lift operation allows up to a width of 3500mm and drop of 2500mm.



Image depicts Straight Drop Alpha External Screens

Operating Options

The Weathermaster® Alpha External Screen System has been developed to offer maximum flexibility and ease of use for consumer operation.

Manual crank

The 9:1 ratio gear ensures easy operation that is not dependent on the user's strength. Specifically designed for Straight Drop applications the 9:1 ratio gear can withstand high wind situations and is available in a selection of Black, Grey and White for improved colour co-ordination with most fabrics.

There is a great range of crank handles available in: 800mm, 1200mm, 1600mm and 2000mm lengths.

Automation

A range of external motor solutions including the latest Solar technology, allow the Weathermaster® Alpha External Screen Range to be operated at the touch of a button or via a wall switch control. Also available is the latest Automatic Tensioning Motor that permits the External Screen to be locked in position (with strap or locking bolt) and tensioned. Optional accessories include sun and wind sensors, integration into home automation systems providing intelligent External Screen control).

Spring operation

Allows the External Screen to be manually pulled down to the required height and locked off using either the Locking Bolt or Hold Down Clip option. (only available up to 3500mm wide x 2500mm drop).

Installation

The Weathermaster® Alpha External Screen System can be installed in different applications, including face, top, or side fixing.

By using the same universal bracket in both headbox and open roller configurations, installation is kept simple and consistent. To improve installation flexibility, an additional mounting plate (spreader) is available that can alter the fixing position by up to 250mm.

Installation applications

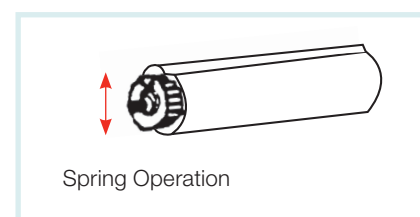
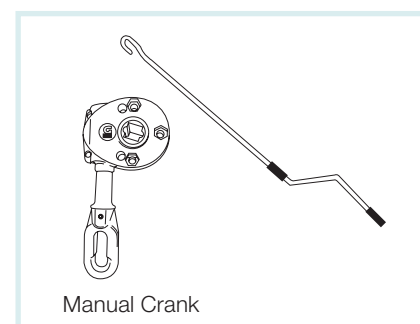
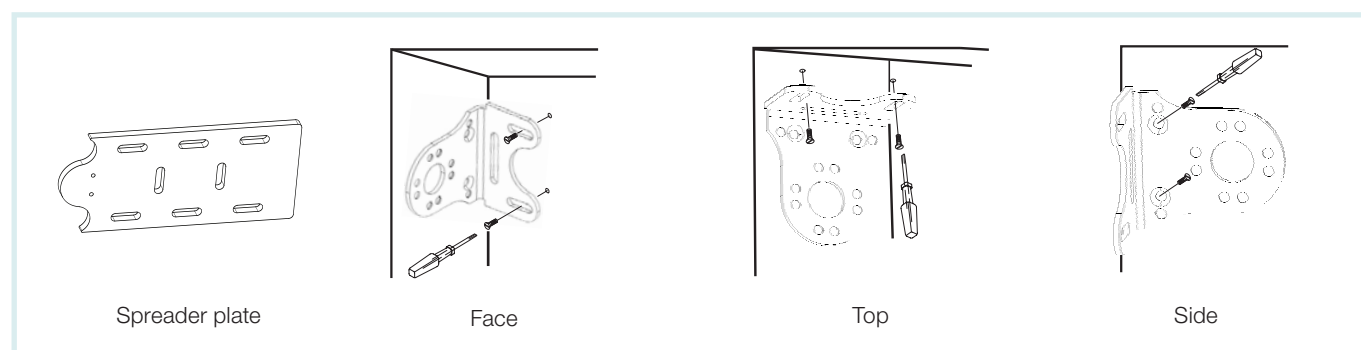


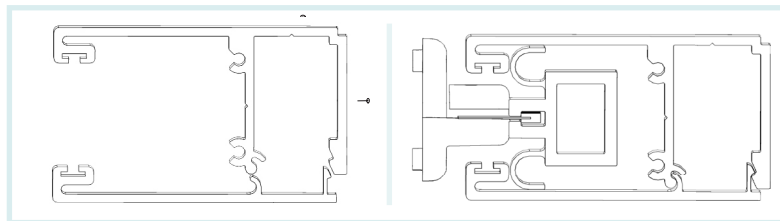


Image depicts Alpha External Screen System with Side Tension Channel

Side Tension Channel (STC)

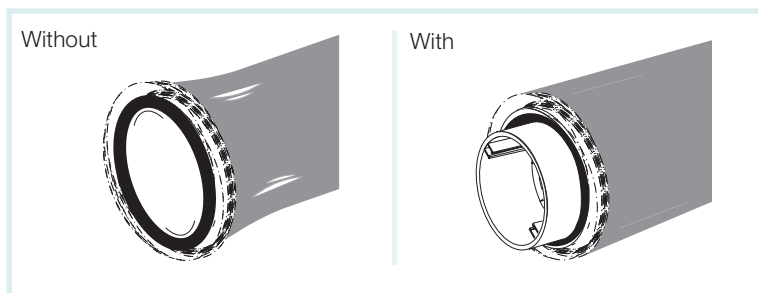
The Weathermaster® Alpha STC External Screen is a premium and versatile Straight Drop option ideal for sun/UV protection, insect resistance, windy applications, enclosing a balcony, as well as light and heat control.

The fabric is tensioned by utilising a floating channel and is ideal for enclosing courtyards, patios or balconies, essentially adding an extra room to the home as well as eliminating fabric blowouts. Two Piece Side Channel – By utilising a common installation channel the front channel simply snaps over the installation channel to provide a neat, clean finish meaning no screws and rivets are visible.



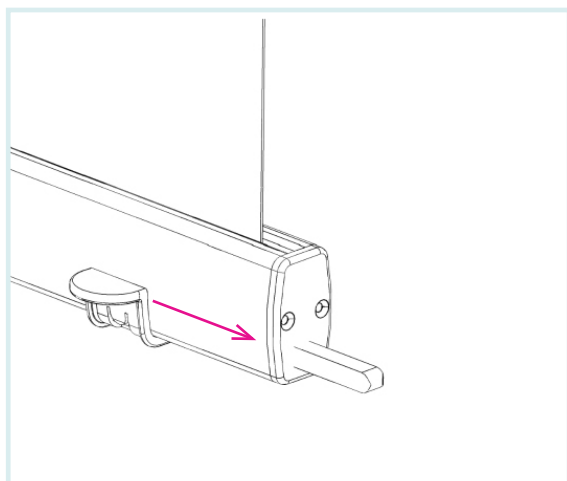
Flexible installation

The floating channel creates installation flexibility as the fabric can “float” within the side channel and accommodate some out of square mounting surfaces and fabric shrinkages. The floating channel feature will also move with the wind and take strain off the welds and joins in the fabric. Clever sound bumpers have been incorporated into the floating channel to minimise noise when operating or in windy conditions.



Tube reducers

There is potential for fabric thickness build up at the end of the roller as the External Screen is raised. The use of custom designed tube reducers minimises this build up, thereby ensuring the fabric rolls as symmetrically as possible, whilst the External Screen is in operation. This keeps the fabric flat and reduces the rippling effect.



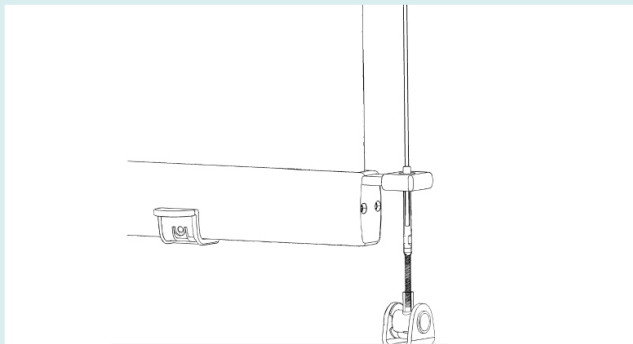
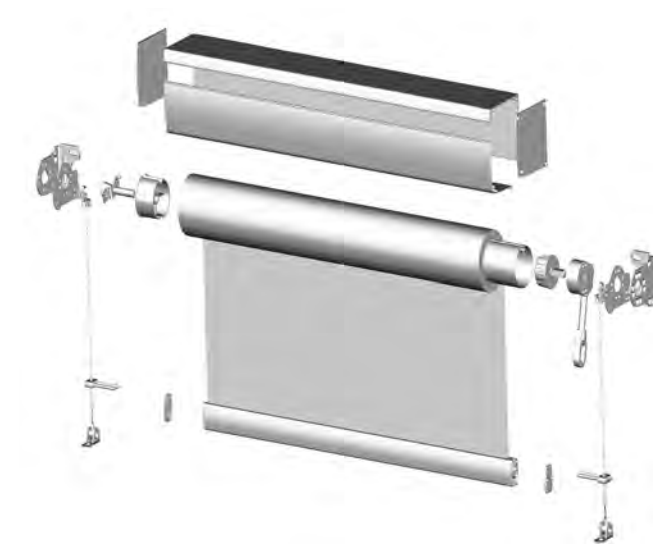
Locking bolt

The locking bolt can be used with all Weathermaster® Alpha External Screen Systems. The locking bolt allows you to secure the bottom rail by simply sliding the bolt into the selected hole position in the side channel or post. This feature holds the fabric taut and minimises bottom rail movement.

Cable Guide System

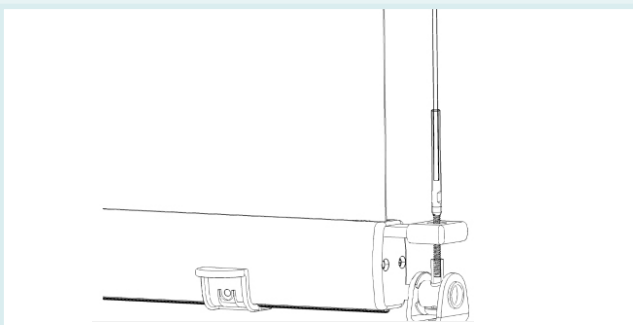
The Weathermaster® Alpha Cable Guide External Screen is a great contemporary Straight Drop option ideal for: sun/UV protection, air flow and where channels are not suitable. The cables are made of high tensile 2.5mm 316 grade marine stainless steel, making them perfect for coastal applications.

The Weathermaster® Alpha Cable Tensioner set has been designed for adjusting at the bottom of the External Screen thereby reducing the need to be up a ladder. Simply install the universal bracket to the floor or parallel to the top cable bracket. Loosely attach the cable swage at the bottom, carry the cable to the top cable bracket and lock off. Return to the bottom of the External Screen and tighten the swage to add additional tension.



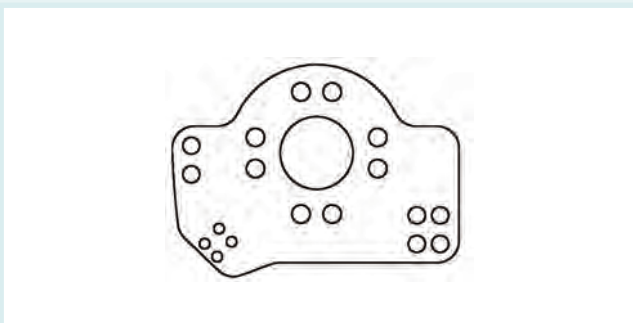
Bottom rail end caps

Have been designed to “float” to accommodate instances where the cable is not straight creating a smooth operation without putting pressure on the cable.



Locking bolts

Locking bolts can be used with the Cable Guide System when the External Screen is fully lowered. The locking bolt simply inserts into the universal floor and wall mount bracket to hold the fabric taut and minimises bottom rail movement.

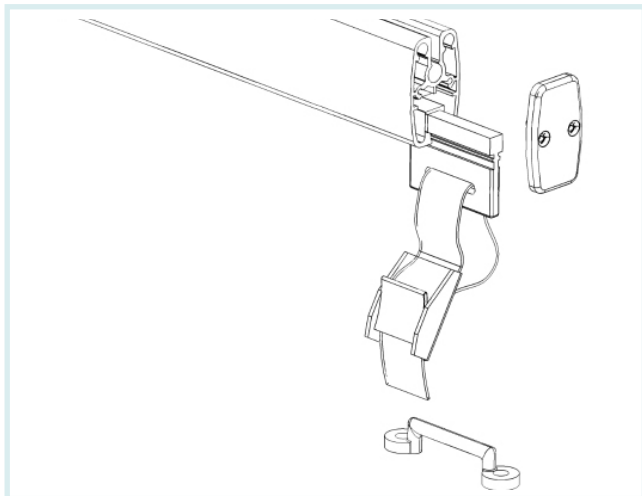
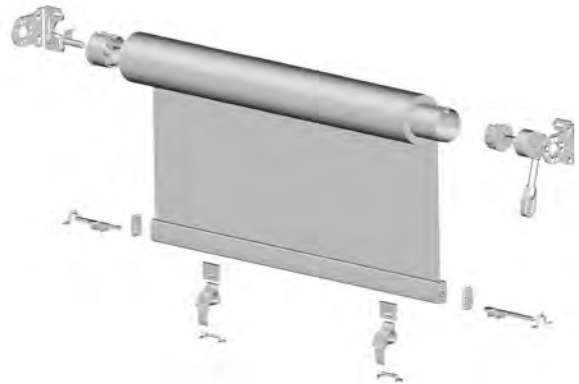


Extension plate / Front roll

The extension plate combined with the open headbox can be used with the cable guide External Screen for front roll applications. It can also assist with top and reveal fit installations by making the top cable bracket more accessible.

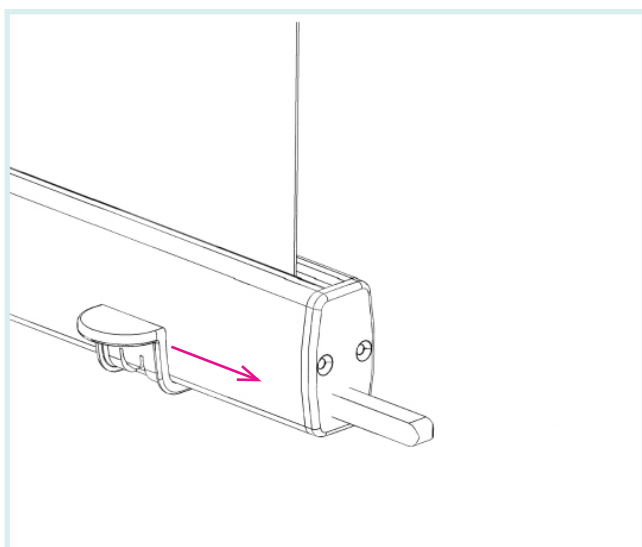
Straight Drop System

The Weathermaster® Alpha Straight Drop External Screen is a traditional External Screen style that uses no guides making it ideal for: sun/UV protection, air flow and where channels are not suitable. The External Screen is strapped down to a railing or floor. The absence of side channels or cable guides means it is priced as an entry level product for the Weathermaster® Alpha External Screen System.



Hold down strap

Hold down straps can be used to hold the External Screen down to a railing or floor at various points across the width of the Screen giving maximum flexibility for installation.



Locking bolts

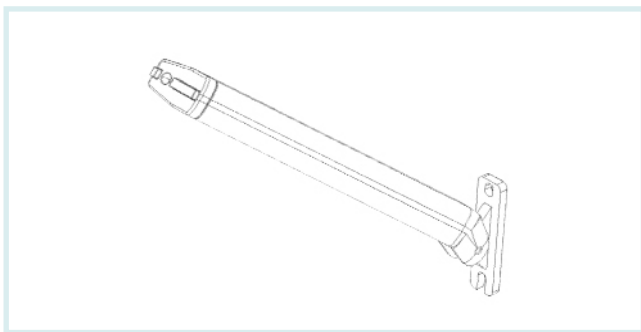
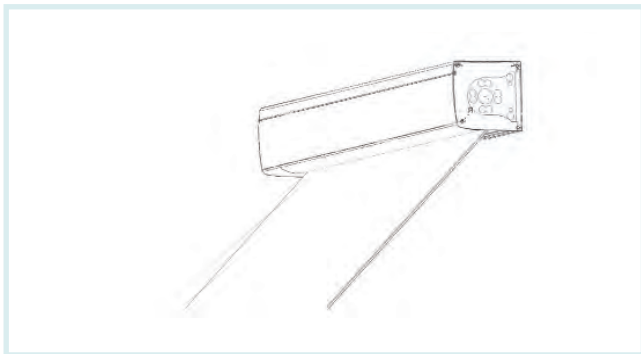
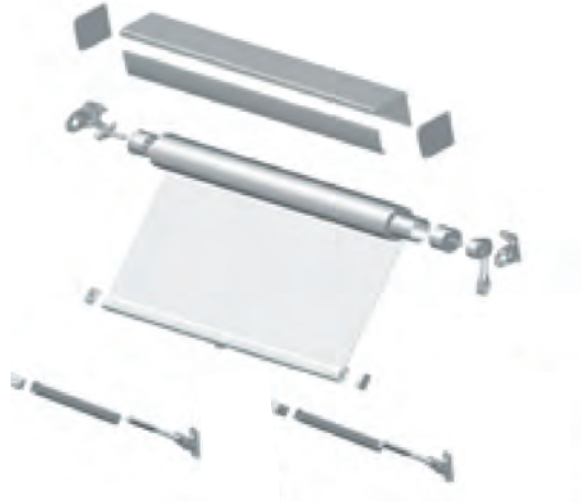
Locking bolts can be used to secure the External Screen at the ends of the bottom rail. With the Straight Drop External Screen, you can use locking bolts to either insert into a reveal / post situation or alternatively use a breeching staple on the ground or balcony for the bolt to slide under.



Image depicts Alpha External Screen System with Pivot Arm

Pivot Arm System

The Weathermaster® Alpha Pivot Arm Awning projects the fabric off the window, with the arms and fabric forming a canopy that allows air to flow behind the Awning and for windows to be open whilst the Awning is projected. This system is a heavy duty contemporary design ideal for larger windows.



Headbox

The open headbox is required for this awning to allow for the angle of the fabric. With the same design curve as the closed headbox, aesthetics are consistent across all Weathermaster® Alpha Awning products.

Front rail

The front rail has been designed to have the same design curve as the Straight Drop bottom rail to create consistency across the Weathermaster® Alpha Awning range.

Heavy duty pivot arm

The heavy duty spring incorporated in the Pivot Arms provides excellent fabric tension even with Awning widths up to 5 metres. Complete with a modern anodised finish the pivot arm complements our standard Silver Pearl hardware.

Installation Overview

A key focus for the Weathermaster® Alpha External Screen System is easy installation. All systems share the same headbox / open roller installation procedure making it quick and easy regardless of the product type being installed. Each individual system then has its own unique process for installing the guiding method:

Straight Drop External Screens

Especially easy to install – for the strap down and locking bolt options, secure breeching staples in appropriate location to ensure the locking mechanism can engage.

Cable Guide External Screens

Developed for cable tension to be adjusted from the bottom of the External Screen thereby reducing the need to be up a ladder. Simply install the universal bracket to the

floor or wall, attach the cable swage lightly at the bottom, secure cable in the top bracket, then return to the bottom swage and adjust the cable tension.

Can be installed in face or side fit situations. The installation centres have been marked on the extrusions and installers need to determine the appropriate position for securing to the installation surface. Once secured and the fabric is within the channel, simply snap on the channel cover extrusion.

STC External Screens


Follow a similar method to the channel system with the addition of 'ZIPS' attached to the sides of the fabric. They slide into an additional floating channel that is secured inside, before snapping on the front channel cover extrusion (not available with clear PVC).



Image depicts Straight Drop Alpha External Awnings above a Lateral Arm External Awning

Options & Specifications

Standard hardware powdercoat colours



Silver Pearl



White



MATTE GRAVEL

NOTE: Colours are as close as printing process will allow.
* Custom Powdercoat options available, refer to price list for pricing.

External Screen fabric options and specifications

FABRIC	ROLL WIDTH	COMPOSITION	NO. OF COLOURS
DICKSON	1200mm (Selected colours at 3000mm wide)	100% SOLUTION DYED ACRYLIC	95
SMART SHADE	3200mm	PVC COATED POLYESTER	26
PVC*	1500mm	100% PVC	1 (Clear)

* Not available with STC option.



QUALITY

Alpha componentry is designed and engineered for the New Zealand market, making it ideal for our unique climate conditions. The system is manufactured using strict quality control and inspection processes to ensure the product exceeds consumers’ expectations. Backed by a Weathermaster® 5 year warranty*, customers can have peace of mind on the longevity of their external shading solution.

* Conditions Apply



Call **0800 10 27 10** for a free consultation
or visit **Weathermaster.co.nz**

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