

*Rollashield*<sup>®</sup>

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## ROLLER SHUTTERS





The Rollashield manufacturing facility is the largest of its kind in the Southern Hemisphere. Located at Ozroll's head office, the site covers an area of 14,000m<sup>2</sup>, just 5km North of Adelaide's CBD. With offices located in Brisbane as well, we currently employ over 100 personnel within Australia and further expansion is on the horizon both nationally and internationally.

Our world class, state of the art manufacturing facility incorporates Dreistern roll formers, commonly known worldwide as 'The Ultimate in Roll Forming'. This is where we roll form not only our own slat but also boxing using aluminum that has either been sourced from within the country or from reputable global suppliers.

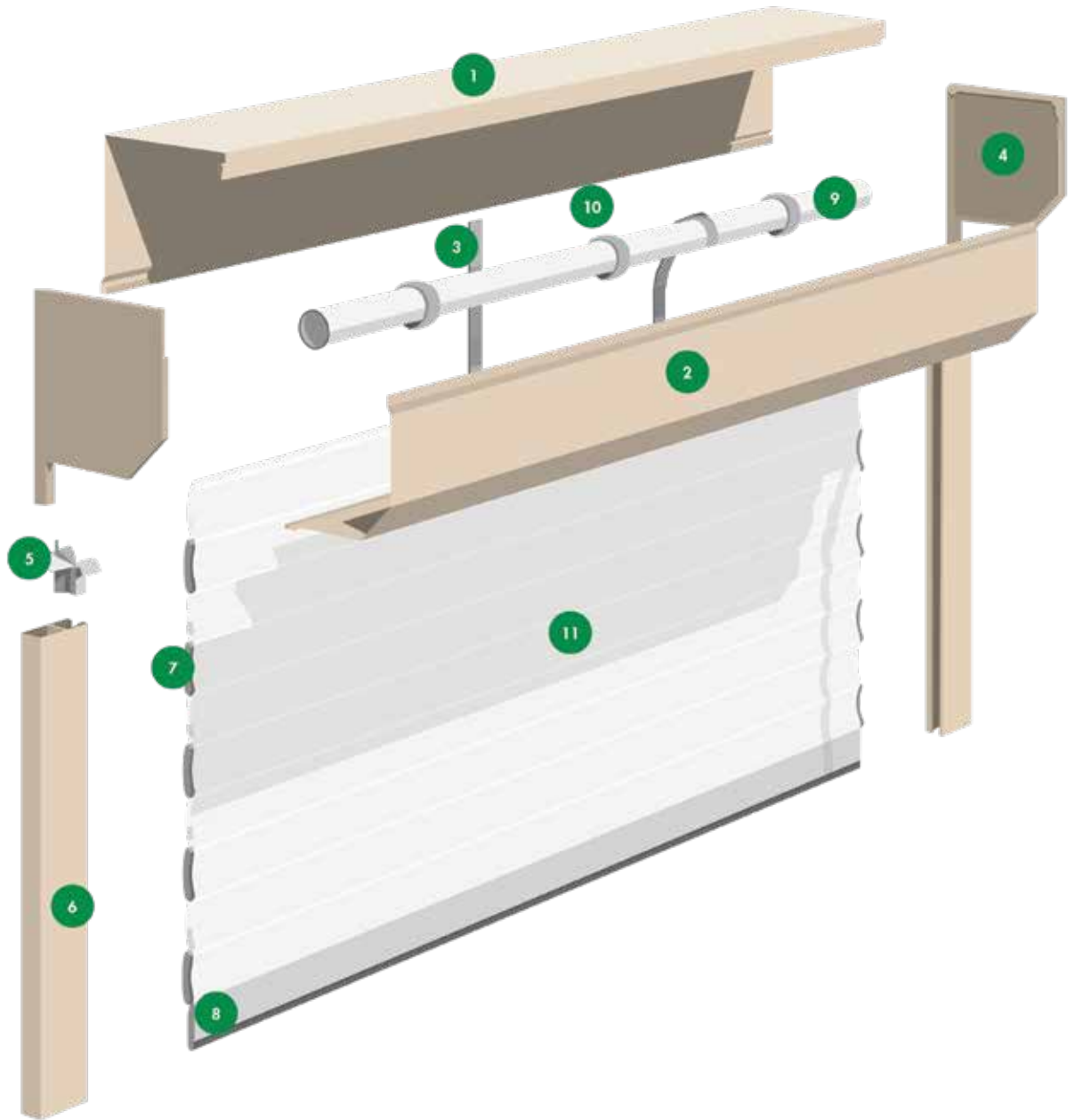
Roller Shutters provide consumers the ideal home improvement option with benefits that include energy savings and reduced greenhouse emissions through thermal insulation as well as dulling noise and offering light block out. In addition to this they also provide protection against the elements and add security to a home, all while increasing the value of the property. With this in mind Roller Shutters are the perfect choice for a business' diversification and Ozroll is committed to supporting distributors and helping make selling easy.

Our internationally renowned E-Series Ozroll Drive System was released into the market over a decade ago and has since been influential to the growth of the industry, not only locally, it has put Australia on the map worldwide with successful export into America, Asia, South Africa and even Europe, the Roller Shutter capital of the world. So much so that Ozroll now has an office based in Frankfurt, Germany. As an industry leader we remain committed to research and development, with great emphasis placed on continuous improvement of our products, as well as our customer service and internal operating systems. This provides us with the fundamentals required to generate and share success with our distributors.

## WHY CHOOSE ROLLASHIELD?

- Quality is our priority. From procurement and manufacture through to our before and after sales support.
- Fastest turnaround time in the country! Standard shutters can be dispatched within 48 hours of order.
- 100% Australian family owned, employing over 100 personnel within Australia.
- Experienced sales, marketing and technical support network.
- All guides, axle, bottom bar, trim angles and Sentry Extruded profile are sourced from quality accredited suppliers.
- Bona fide aluminium used to manufacture all boxing and slat with coils sourced from Premium Quality Australian and European suppliers.
- Our aluminum boxing is roll formed, not folded, allowing a more precise fit.
- We are the largest Roller Shutter manufacturer in the Southern Hemisphere.
- Exclusivity to the internationally renowned E-Series Ozroll Drive System.
- Warehouse and distribution center in Germany exporting Australian product back into the European market.
- We have invested in stringent testing with independent university organisations and also the use of NatHERS (National Housing Energy Rating Software), enabling us to provide our customers with results specific to our products.
- Ozroll is thrilled to be actively involved in the WincovER initiative, which measures and promotes the energy efficiency of window coverings.

# ASSEMBLY DIAGRAM



- |                   |                  |                                      |
|-------------------|------------------|--------------------------------------|
| 1 Head box back   | 5 Box end insert | 9 Axle                               |
| 2 Head box front  | 6 Guide          | 10 O ring                            |
| 3 Spring fastener | 7 Slat insert    | 11 Curtain <i>(made up of slats)</i> |
| 4 End plate       | 8 Bottom bar     |                                      |

Ozroll Industries utilises a purpose built machine to roll form our very own Aluminum Square boxing (SQ45).

Due to the strength of the shape and the light weight aluminum, the box will not bend over itself. Unlike steel boxing, the cut edges are protected by the corrosion resistant properties of the aluminum. The cast aluminum end plates are fitted using aluminum rivets, therefore offering the best resistance to galvanic corrosion or electrolysis, caused by using dissimilar metals.

The coated aluminum is tested using various devices such as a Spectrophotometer and a Specular Gloss Meter, according to ISO 6270 standards. The standard periodic tests on this material are Colour Test, Gloss Test, Pencil Hardness, Erichsen (indentation test), Impact Resistance and Bending, Salt Spray, Humidity Resistance, Weather-O-Meter and the Natural Weathering Resistance test.

## SQUARE SQ45

### 150mm

BACK PLATE	11.150.301	11.150.308	11.150.311	11.150.303
FRONT PLATE	11.151.301	11.151.308	11.151.311	11.151.303

BACK PLATE	11.150.320	11.150.315	11.1xx.xxx
FRONT PLATE	11.151.320	11.151.315	11.1xx.xxx

### 205mm

BACK PLATE	11.190.301	11.190.302	11.190.308	11.190.311	11.190.303
FRONT PLATE	11.191.301	11.191.302	11.191.308	11.191.311	11.191.303

BACK PLATE	11.190.315	11.190.318	11.190.319	11.190.320
FRONT PLATE	11.191.315	11.191.318	11.191.319	11.191.320

### 165mm

BACK PLATE	11.165.301	11.165.302	11.165.308	11.165.311	11.165.303
FRONT PLATE	11.166.301	11.166.302	11.166.308	11.166.311	11.166.303

BACK PLATE	11.165.315	11.165.318	11.165.319	11.165.320
FRONT PLATE	11.166.315	11.166.318	11.165.319	11.165.320

### 230mm

BACK PLATE	11.192.301	11.192.308	11.192.311	11.192.319
FRONT PLATE	11.193.301	11.193.308	11.193.311	11.193.319

BACK PLATE	11.192.315	11.192.320
FRONT PLATE	11.193.315	11.193.320

### 180mm

BACK PLATE	11.180.301	11.180.302	11.180.308	11.180.311	11.180.303
FRONT PLATE	11.181.301	11.181.302	11.181.308	11.181.311	11.181.303

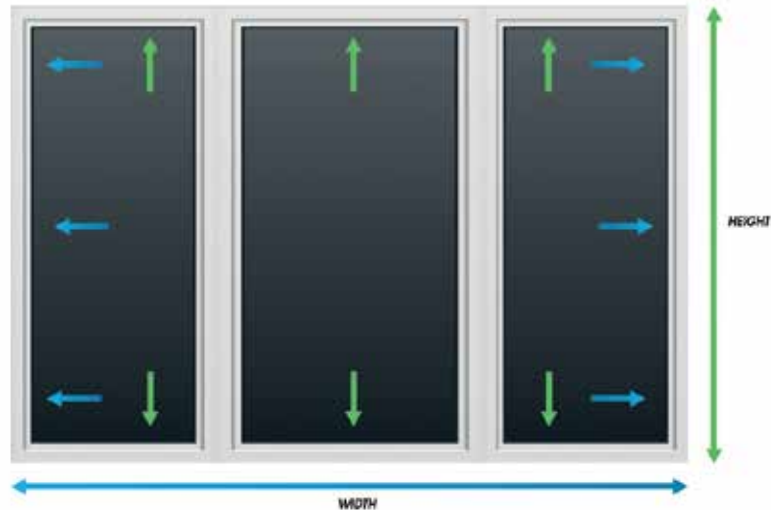
BACK PLATE	11.180.315	11.180.318	11.180.319	11.180.320
FRONT PLATE	11.181.315	11.181.318	11.181.319	11.181.320

# HOW TO MEASURE

Please note: Ozroll requires finished measurements in millimeters. No deductions or additions will be made by Ozroll once an order has been placed.

## STANDARD OPENING

Firstly establish the type of fit your shutter will be, Face Fit/On Wall (OW) or Reveal Fit/In Reveal (IR).



### On Wall (OW)

#### Calculations for Finished Width

Opening Width + 2 x Guide Width

- To determine the Opening Width take 3 measurements down the sides of the opening and use the largest measurement.
- The size of the shutter and the Slat Type will determine the size of the guides required. Standard Guide width is 53mm, however please refer to 'Slat Profiles' to find the correct measurement for your application.

#### Calculations for Finished Height

Opening Height + Head Box Height

- To determine your Opening Height take 3 measurements across the top and bottom of the opening and use the largest measurement.
- The Opening Height and Slat Type will determine the minimum Head Box size. Please refer to 'Slat Profiles' to find the correct measurement for your application.

### In Reveal (IR)

#### Calculations for Finished Width

Opening Width - 3mm

- To determine the Opening Width take 3 measurements down the sides of the opening and use the smallest measurement.
- Subtract 3mm from the Opening Width to allow room for the shutter to slide inside the reveal.

#### Calculations for Finished Height

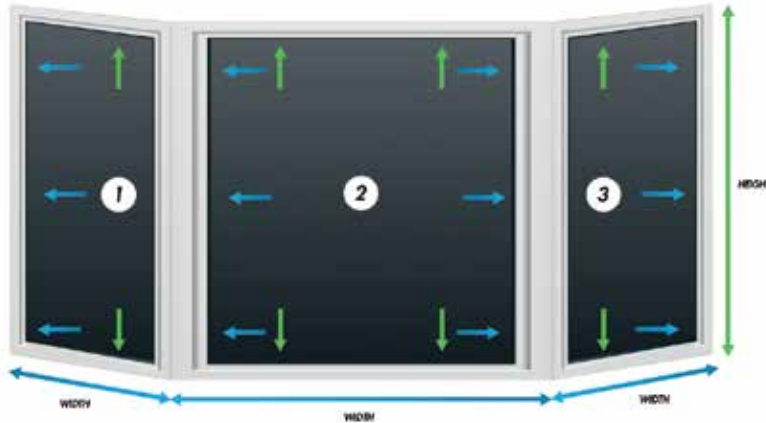
Opening Height

- To determine your Opening Height take 3 measurements across the top and bottom of the opening and use the smallest measurement.
- Any deductions that need to be made can be done on site by trimming down the guides.

Please note: Ozroll requires finished measurements in millimeters. No deductions or additions will be made by Ozroll once an order has been placed.

## BAY WINDOW

A bay window must be ordered as 3 separate shutters. Firstly establish the type of fit your shutters will be, Face Fit/On Wall (OW) or Reveal Fit/In Reveal (IR).



### On Wall (OW)

#### Calculations for Finished Widths

Shutter 1 = Opening Width +1 x Guide Width  
Shutter 2 = Opening Width.  
Shutter 3 = Opening Width +1 x Guide Width

- To determine the Opening Width take 3 measurements down the sides of all 3 openings & use the largest measurements.
- The size of the shutter and the Slat Type will determine the size of the guides required. Standard Guide width is 53mm, however please refer to 'Slat Profiles' to find the correct measurement for your application.

#### Calculations for Finished Height

Shutter 1 = Opening Height + Head Box Height  
Shutter 2 = Opening Height + Head Box Height  
Shutter 3 = Opening Height + Head Box Height

- To determine your Opening Height take 3 measurements across the top and bottom of all 3 openings & use the largest measurements.
- The Opening Height and Slat Type will determine the minimum Head Box size. Please refer to 'Slat Profiles' to find the correct measurement for your application.

### In Reveal (IR)

#### Calculations for Finished Width

Shutter 1 = Opening Width -3mm  
Shutter 2 = Opening Width  
Shutter 3 = Opening Width -3mm

- To determine the Opening Width take 3 measurements down the sides of all 3 openings & use the smallest measurements.
- Subtract 3mm from the Opening Width on the 2 outside openings to allow room for the shutters to slide inside the reveal.

#### Calculations for Finished Height

Shutter 1 = Opening Height  
Shutter 2 = Opening Height  
Shutter 3 = Opening Height

- To determine your Opening Height take 3 measurements across the top & bottom of the opening & use the smallest measurement.

- Any deductions that need to be made can be done on site by trimming down the guides.

*\*Ozroll can supply telescopic brackets to assist with mounting the shutters onto a bay window.*

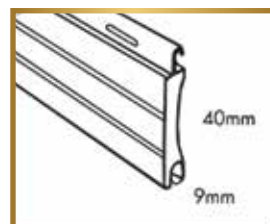
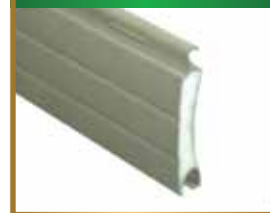
# CURVED SERIES

AR400, AR401, AR402

**Rollashield**<sup>®</sup>  
PREMIUM ROLLER SHUTTERS by **ZROLL**



## SLAT PROFILES



## FEATURES & BENEFITS

- Insulation
- Added security
- Wide range of colours
- Minimum roll up size
  - Style choices
- Reduced greenhouse emissions
- Protection from the elements
  - Light control
  - Sound dampening

## TECHNICAL SPECIFICATIONS

Weight (per m <sup>2</sup> )	4kg
Maximum Curtain Width	3.6m
Maximum Area (m <sup>2</sup> )	8.0
Gauge of Aluminum	0.32mm
Profile Slat Height	40mm
Profile Slat Thickness	9mm
Standard Guide Dimensions	53mm
Standard Bottom Bar Dimensions	50mm
Standard Axle	50mm circular

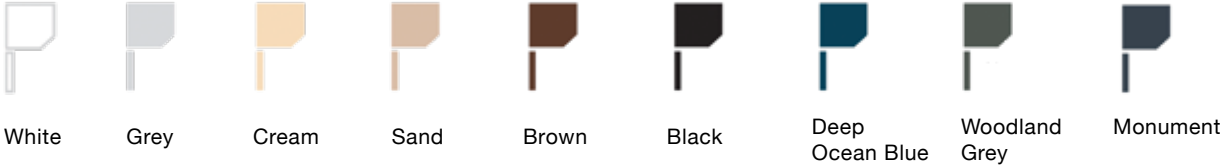
The Rollashield Residential Curved Series profiles have been designed specifically to suit the domestic roller shutter market in Australia but are also ideal with many commercial applications. The slat is roll formed in our Adelaide manufacturing facility to the highest of world standards using German built roll forming machines which are the most advanced of their type in the world.

The Rollashield Residential Curved Series slat is a double walled cavity with PU foam injected during the roll forming process. This process provides economical strength and insulation qualities while maintaining exceptional working performance of the slat. The curved shape of the slat provides optimal lateral strength and minimal roll sizes, offering a much smaller head box size.

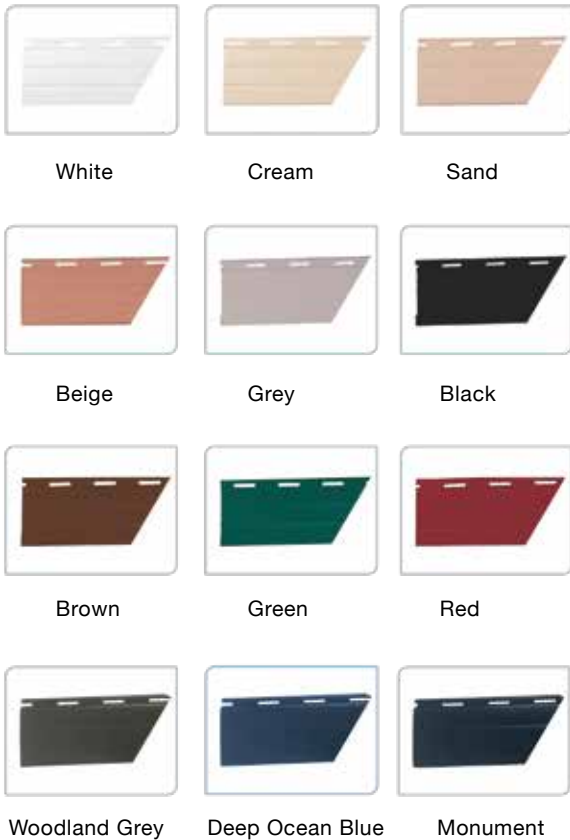
The Rollashield curved series is available in three different styles, the 400 with profile lines on the convex side and a smooth finish on the concave, the 401 with a smooth finish on both sides and the 402 with profile lines on both sides.

**BOX COLOUR OPTIONS**

Full colour options are only available for 165mm - 205mm.  
Please see page 3 to confirm colours for 150mm & 230mm sizes.



**ROLLER SHUTTER COLOUR**



**CONTROL OPTIONS**

**MANUAL**



**MOTORISED**



Please note: Colours displayed are a guide only and have been matched as closely as possible. Due to the nature of the printing process, some degree of colour variation may occur. We recommend that you use production line prepared samples for final colour selection or approval.

**SQUARE BOXING (SQ45)**

Sizes Available      Maximum Overall Height

150mm	1300mm
165mm	1700mm
180mm	2135mm
205mm	3000mm
230mm	3800mm

Please note: Only when using Ozroll's 50mm circular axle.



Scan for more information on our Wincover results.



Product	Material	Colour	Manual Operation	Timer Automated	Sensor Automated
Residential Curved Slat	Roller Shutters	White	★★★★☆ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	50%    8%
			★★★★★ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	67%    17%
			★★★★★ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	74%    25%
Residential Curved Slat	Roller Shutters	Grey	★★★★☆ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	51%    11%
			★★★★★ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	58%    16%
			★★★★★ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	64%    26%
Residential Curved Slat	Roller Shutters	Black	★★★★☆ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	70%    16%
			★★★★★ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	80%    20%
			★★★★★ ☆☆☆☆☆	★★★★★ ☆☆☆☆☆	89%    28%

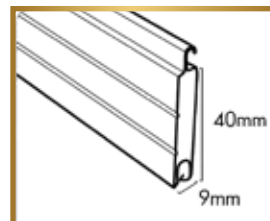
# FLAT SLAT

AR405

**Rollashield®**  
PREMIUM ROLLER SHUTTERS by **ROLL**



## SLAT PROFILES



## FEATURES & BENEFITS

- Insulation
- Added security
- Wide range of colours
- Aesthetically pleasing
- Reduced greenhouse emissions
- Protection from the elements
  - Light control
  - Sound dampening

## TECHNICAL SPECIFICATIONS

Weight (per m <sup>2</sup> )	4kg
Maximum Curtain Width	3.6m
Maximum Area (m <sup>2</sup> )	8.0
Gauge of Aluminum	0.32mm
Profile Slat Height	40mm
Profile Slat Thickness	9mm
Standard Guide Dimensions	53mm
Standard Bottom Bar Dimensions	40mm
Standard Axle	50mm circular

The Rollashield Residential Flat Slat has been designed specifically to suit the domestic roller shutter market in Australia but is also ideal with many commercial applications.

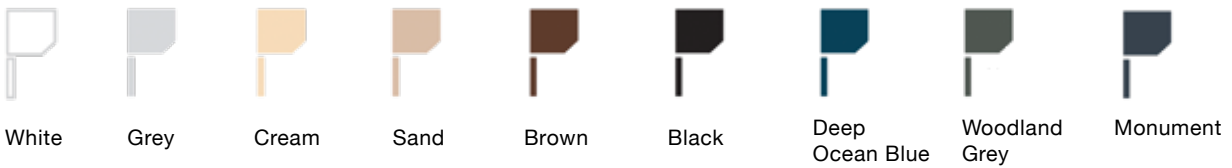
The slat is roll formed in our Adelaide manufacturing facility to the highest of world standards using a German built roll forming machine which is the most advanced of its type in the world.

The Rollashield Residential Flat slat is a double walled cavity with PU foam injected during the roll forming process. This process provides economical strength and insulation qualities while maintaining exceptional working performance of the slat.

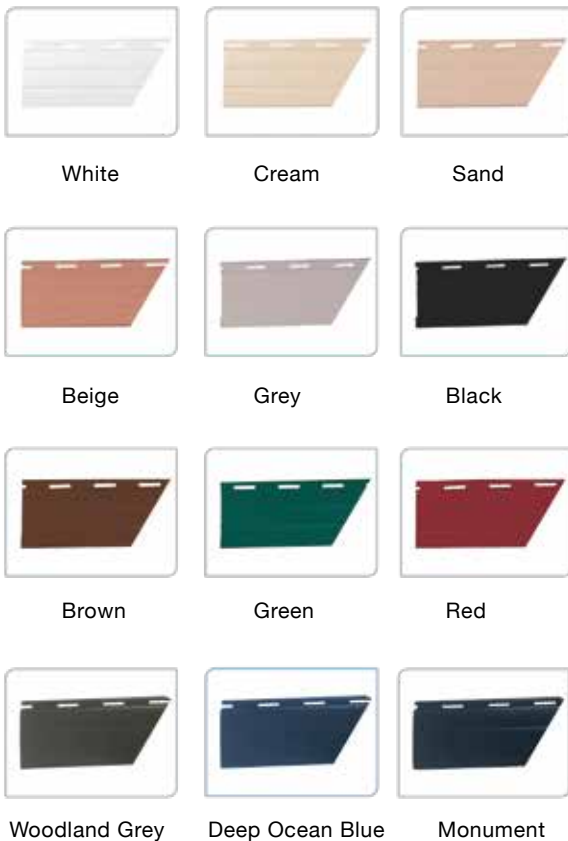
The flat profile is available in a wide range of colours, with profile lines on both sides offering an attractive finish from both the interior and exterior of the application.

**BOX COLOUR OPTIONS**

Full colour options are available for 165mm - 205mm.  
Please see page 3 to confirm colours for 150mm & 230mm sizes.



**ROLLER SHUTTER COLOUR**



**CONTROL OPTIONS**

**MANUAL**



**MOTORISED**



*Please note: Colours displayed are a guide only and have been matched as closely as possible. Due to the nature of the printing process, some degree of colour variation may occur. We recommend that you use production line prepared samples for final colour selection or approval.*

**SQUARE BOXING (SQ45)**

Sizes Available      Maximum Overall Height

150mm	900mm
165mm	1400mm
180mm	1700mm
205mm	2300mm
230mm	3000mm

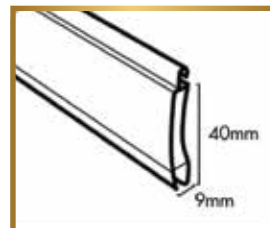
*Please note: Only when using Ozroll's 50mm circular axle.*

# SENTRY FIRESHIELD

BAL 40 AE401



## SLAT PROFILES



## FEATURES & BENEFITS

- Bushfire Attack Level (BAL) 40
- Increased strength & security
  - Available with heavy duty axle and bearing
  - Optional powder coating
- Ideal for commercial applications
  - Available with restrained inserts and guides
    - Light control
    - Minimal flex

## TECHNICAL SPECIFICATIONS

Weight (per m <sup>2</sup> )	8kg
Maximum Curtain Width (with standard guide)	4m
Maximum Curtain Width (with extended guide)	4.6m
Maximum Curtain Width (with restrained guide)	5m
Maximum Area (m <sup>2</sup> )	12
Gauge of Aluminum	1mm
Profile Slat Height	40mm
Profile Slat Thickness	9mm
Standard Guide Dimensions	53mm
Standard Bottom Bar Dimensions	50mm
Standard Axle	50mm circular

Rollashield Sentry Fireshield is ideal for residential or commercial use, particularly in areas prone to fire hazards. Manufactured to the highest standards with state-of-the-art equipment, the Sentry Fireshield profile is available in a 40mm curved profile.

The Sentry Fireshield has superior strength offering increased security and performance. The overall profile appearance is clean and stylish with only a slight "V" groove line on the convex side. Available in several long lasting and fade resistant Interpon coatings or a natural anodized finish, the Sentry Fireshield Profile can also be powder coated in a colour of your choice.

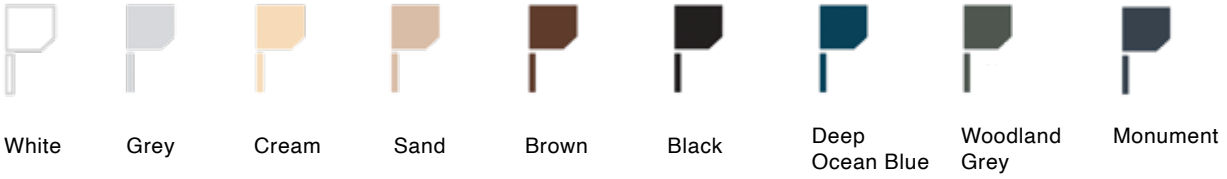
It is common knowledge that hot or burning embers entering the home during a bushfire is a major factor in the ignition of the building itself. Rollashield Sentry Fireshield Roller Shutters have been credited with saving homes from burning to the ground when other surrounding properties were not so fortunate.

TESTING RESULTS	Performance Criteria	Time to failure (min)	Position of Failure
	Formation of through gaps greater than 3mm	No Failure	-
	Sustained flaming for 10 seconds on the non-fire side	No Failure	-
	Flaming on the fire-exposed side at the end of the 60 minutes test period	No Failure	-
	Radiant heat flux 365mm from the non-fire side exceeding 15kW/m <sup>2</sup>	No Failure	-
	Mean and maximum temperature rises greater than 140K and 180K	n/a	-
	Radiant heat flux 250mm from the specimen, greater than 3kW/m <sup>2</sup> between 20 minutes and 60 minutes	No Failure	-
	Mean and maximum temperature of internal faces exceeding 250°C & 300°C respectively between 20 minutes and 60 minutes after commencement of test	n/a	-
<b>Crib Class B</b>		<b>Peak Heat Flux</b>	<b>40 kW/m<sup>2</sup></b>

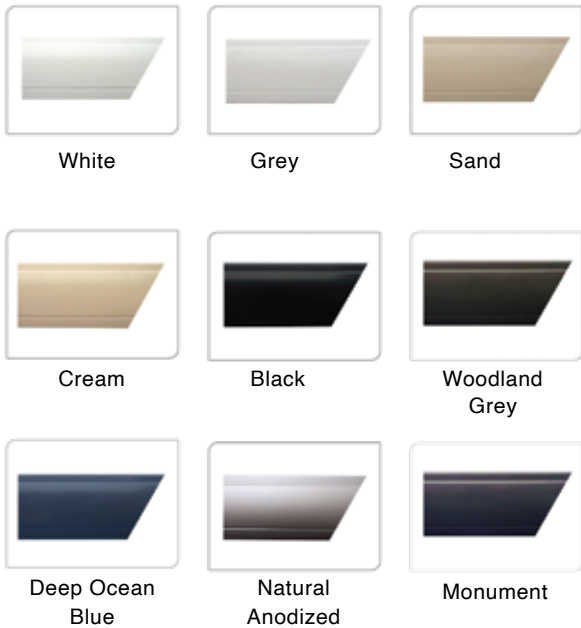
NOTE: Performance observed in respect of Clause 14.4 of AS1530.8:1-2007 criteria. Report number: FSZ 1444 / Job Number: SZ3303 / Date of issue: 5th November 2010. For the purpose of building regulations in Australia, the test specimen achieved a Bushfire Attack level [BAL] of B40. This report details methods of construction, the test conditions and the results obtained when the specific element of construction described herein was tested in accordance with AS 1530.8:1-2007.

**BOX COLOUR OPTIONS**

Full colour options are available for 165mm - 205mm.  
Please see page 3 to confirm colours for 150mm, 230mm and 250mm sizes.



**ROLLER SHUTTER COLOUR**



**CONTROL OPTIONS**

**MANUAL**



**MOTORISED**



**SQUARE BOXING (SQ45)**

Sizes Available	Maximum Overall Height
150mm	1100mm
165mm	1600mm
180mm	2000mm
205mm	2800mm
230mm	3400mm

Please note: Only when using Ozroll's 50mm circular axle.

**GUIDE OPTIONS**



Restrained Guide / Unrestrained with Extended Guide



Scan for more information on our Wincover results.



# STORMSHIELD

HDF Cyclone Rated

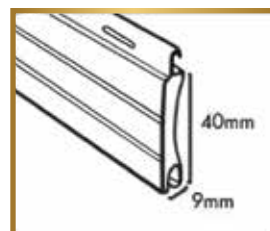
**Rollashield**<sup>®</sup>  
PREMIUM ROLLER SHUTTERS by **ZROLL**



## FEATURES & BENEFITS

- Wind rated for wind speeds up to Cat 3
  - Light control
  - Minimal flex
  - Premium insulation
- Increased strength and security
  - Available in restrained and unrestrained
  - Idea for closing in outdoor areas

## SLAT PROFILES



## TECHNICAL SPECIFICATIONS

Weight (per m <sup>2</sup> )	6kg
Maximum Curtain Width (with standard guide)	4m
Maximum Curtain Width (with extended guide)	4.2m
Maximum Curtain Width (with restrained guide)	4.6m
Maximum Area (m <sup>2</sup> )	10
Gauge of Aluminum	0.32mm
Profile Slat Height	40mm
Profile Slat Thickness	9mm
Standard Guide Dimensions	53mm
Restrained Guide Dimensions	70mm
Standard Bottom Bar Dimensions	50mm
Standard Axle	50mm circular

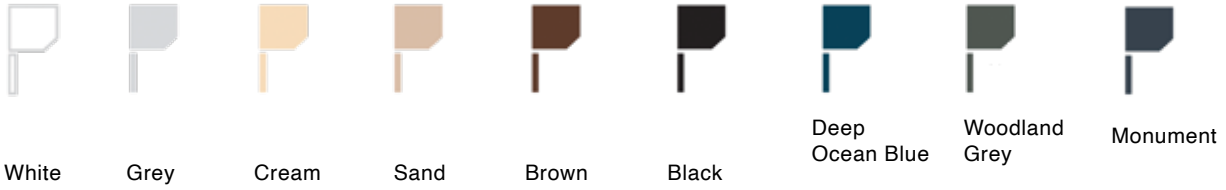
Since its inception our Residential Slat has consistently proved to be a high quality, robust and well accepted profile so therein provided the perfect solid platform on which to develop the “Stormshield” profile.

The development & introduction of the High Density Foam (HDF) offers remarkable advantages where there is high wind or high risk. The HDF is injected into the slat profile under controlled conditions during the manufacturing roll-forming process.

Stormshield is available in both restrained and non restrained options. HDF unrestrained provides an option with standard materials where extra strength and security is required.

**BOX COLOUR OPTIONS**

Full colour options are available for 165mm - 205mm.  
Please see page 3 to confirm colours for 150mm and 230mm sizes.  
250mm available in White, Cream & Sand only.



**ROLLER SHUTTER COLOUR**



**CONTROL OPTIONS**

**MANUAL**



**MOTORISED**

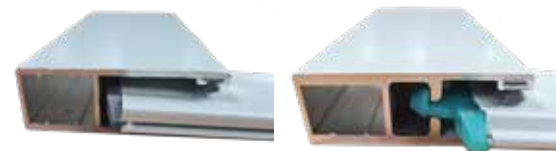


**SQUARE BOXING (SQ45)**

Sizes Available	Maximum Overall Height
150mm	1300mm
165mm	1700mm
180mm	2135mm
205mm	3000mm
230mm	3400mm

Please note: Only when using Ozroll's 50mm circular axle.

**GUIDE OPTIONS**



Unrestrained with Extended Guide / Restrained Guide



Scan for more information on our Wincover results.



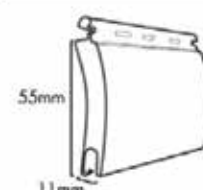
# ULTRASHIELD

AR551

**Rollashield**<sup>®</sup>  
PREMIUM ROLLER SHUTTERS by **ZROLL**



## SLAT PROFILES



## FEATURES & BENEFITS

- Insulation
- Security
- Available for wider spans
- Reduced greenhouse emissions
- Protection from the elements
- Light control

## TECHNICAL SPECIFICATIONS

Weight (per m <sup>2</sup> )	3.4kg
Maximum Curtain Width	4.2m
Maximum Area (m <sup>2</sup> )	11.8
Gauge of Aluminum	0.32mm
Profile Slat Height	55mm
Profile Slat Thickness	11mm
Standard Guide Dimensions	77mm
Standard Bottom Bar Dimensions	50mm
Standard Axle	50mm circular

The Ultrashield profile is a double walled cavity with PU foam injected during the roll forming process. This profile is available for use on openings up to 50% larger than our standard domestic profiles while maintaining the same level of strength and insulation qualities.

The Ultrashield is a curved profile which uses a minimal head box size, making it an ideal substitute for garage doors or commercial door applications where room for roll up is limited. Available in multiple colours, the Ultrashield has two profile lines on the convex side with a smooth finish on the concave.

**A large majority of home break ins are accessed through unprotected windows.**

Based on insurer statistics

**BOX COLOUR OPTIONS**

Full colour options are available for 180mm - 205mm.  
Please see page 3 to confirm colours for 230mm.  
250mm available in White, Cream & Sand only.



White



Grey



Cream



Sand



Brown



Black



Deep Ocean Blue



Woodland Grey



Monument

**ROLLER SHUTTER COLOUR**



White



Cream



Sand

**CONTROL OPTIONS**

**MANUAL**



Strap



Winder

**MOTORISED**



ODS with E-Port



E-Trans



Smoove Uno  
WT FPP



SOMFY 240V  
with CSI override



SOMFY 240V  
Hand Held RTS  
Remote

**SQUARE BOXING (SQ45)**

Sizes Available      Maximum Overall Height

250mm	3100mm
180mm	1100mm
205mm	1800mm
230mm	2500mm

Please note: Only when using Ozroll's 50mm circular axle.



# MANUAL CONTROLS

## SPRING ASSIST WITH BOTTOM BAR KEY LOCK

Ozroll's spring operated roller shutters offer a practical solution to commercial applications such as shop fronts, bars and canteens where added security is required. Assembled orders are supplied with a spring inside the axle which is specifically tensioned to the weight of the shutter, allowing simple and easy installation and operation.

This design provides a smooth, effortless motion in opening and to close it is as simple as pulling the curtain down using the handles provided, then locking it in place with Ozroll's Bottom Bar Key Lock. The key lock can be custom ordered to face outside the shutter towards the head box (standard) or inside the shutter (reverse).

We are also able to supply an Intermittent Flat Locking Slat for applications where it is necessary for the lock to be accessible at a point in the curtain which is above the Bottom Bar.

ASSIST SPRING WEIGHT TOLERANCES	
Assist Spring 650mm #500	15kg
Assist Spring 860mm #501	18kg
Assist Spring 940mm #502	34kg
Assist Spring 940mm #503	62kg

## TENSION ROTATIONS

When replacing or adjusting springs

SHUTTER HEIGHT	AMOUNT OF TURNS REQUIRED
1200mm	6
1700mm	7
2300mm	8
3000mm	9
3700mm	10

## TENSIONING ASSIST SPRINGS

The U shape tool provided in the kit box is used for stabilizing the axle and assist spring when the amount of turns on the spring must be adjusted. Re-tensioning the springs to the correct amount of turns is simple:

1. Disconnect the spring fasteners from the Octagonal steel axle (Ensure the U shape tool provided is placed into the crown position of the assist spring when doing so) This will allow no movement. The curtain can be left sitting in the window and guides; there is no need to remove the curtain.
2. Depending on the tension required remove the U shape tool and hold onto the Octagonal axle when performing this.
3. Proceed to turn the axle either forward or backwards one or however many required complete rotations depending on whether more or less turns are required.
4. Once the assist spring is tensioned correctly place the U shape tool into the crown position of the assist spring to ensure no movement when connecting the spring fasteners.
5. Proceed to connect the spring fasteners to the octagonal axle.
6. Once connected remove the U shape tool whilst holding the octagonal axle and slowly release the axle and allow the curtain to roll up to the top position of the guides (where the V stoppers hit the box end inserts). The assist spring should now have the correct amount of tension/turns required.
7. If the curtain is still not tensioned correctly repeat the instructions accordingly until the desired tension is found.

## ELIPSO STRAP CONTROLS

This modern day take on a conventional design is mainly used on smaller openings where there is a lack of wall space.

The Elipso Strap Control offers a smooth appearance, incorporating a contemporary curved design that suits today's home improvement trends.

High quality materials are used on both the casing and the internal mechanism, which means quick and reliable operation with an attractive finish.

ELIPSO STRAP CONTROL	
Maximum Lifting Capacity	7.2kg
Size	123mm (w)
	165mm (h)
	22mm (d)



Elipso Strap Control  
#13.151.401

## SERIES 2 MULTI-FIT WINDER

This unit is available for use with either a cord or tape running through the wall cavity and down the internal face of the wall to the Winder Kit which can be fixed next to the opening.

This winder box offers the diversity of both vertical and horizontal installation by simple exchange of the roller and hole cap provided.

SERIES 2 MULTI-FIT WINDER	
Maximum Lifting Capacity	20kg
Size	151mm (w)
	120mm (h)
	32mm (d)



Winder Handle  
#13.140.000



Multi-Fit Winder with 4m Tape  
#13.113.401

