

# JURALCO KNIGHTGUARD® ROLLERGRILLE SYSTEM ISUE 5-24 v1



Juralco Aluminium Building Products Ltd designs and distributes specialist aluminium joinery systems through a national network of franchised fabricators and agents.

For more than 25 years we have been at the forefront of specialist aluminium door and window products suitable for New Zealand joinery and building methods. Our comprehensive product range includes security and insect screens, balustrades and gates, shutters and awnings, shower screens, wardrobe doors and organisers and internal doors.

The Knightguard<sup>®</sup> series of roller grilles are constructed from heavy duty aluminium side guides with strong interlocking curtain profiles or joining components which roll down to protect windows, doors or other types of commercial access ways to resist forced entry by intruders.

Knightguard<sup>®</sup> Rollergrilles are custom-made in a choice of four main designs - Econolink, Shutter grille, Visionline and Ultra-Security. All grilles are available with either manual spring balanced operation or with high quality tubular motors depending on their size. The standard colour finish is Satin anodised aluminium but some designs can be custom finished a variety of powder-coat colours.



#### **General Description**

Cover

- The Rollergrille system is designed to fit openings up to 5m wide (Ultra Security 5.5m)and up to 3.25m tall.

- Typical applications include Shopfronts, Light commercial, Bars and Serverys, Garages and Storage areas.
- Typical finishes Powdercoat or Natural Anodised.
  - The door is supplied pre assembled, consisting of the Rollergrille curtain package and two side guides.
- Axle Assembly 70mm Octagonal steel axle with 130mm adaptor wheels. Mounting brackets and axle holders.
- Rollergrille curtain Seven styles available see next page.
- Drive Motorised An inline tubular motor raises or lowers the curtain automatically. Manual override control available Switch or wireless controls.
- Side Guides A 76mm x 32mm full height extruded aluminium side guide is supplied for each side of the curtain.
- Bottom/ Mid Rail An 85mm x 17mm extruded bottom/mid rail with detachable back plate.

A keyed locking system fits within this rail which can be incorporated at the bottom or mid position of the curtain

Note: Knightguard Rollergrille, Plain and Punched Series have been tested for Impact Resistance by BRANZ. See test reports STR 340 and STR 343

Juralco Econolink Roller Grille	All pages ©	Copyright Juralco Aluminium Building Products Ltd, 2024
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## Juralco Knightguard<sup>®</sup> Rollergrille Systems

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Curtains	4	Shows the differing types of curtains				
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Door	9	ows typical Door components and layout				
Motors, controls	10 - 11	Shows Motors, Wiring Diagrams and Switch and Wireless controls				
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#### Important information - Powder Coating systems.

<u>Powdercoat Systems</u> The new standard Dulux powder coating system used by Juralco is Duralloy Plus<sup>®</sup>. Also Duralloy<sup>®</sup> and Duratec<sup>®</sup>. Juralco Powder coated prices are for Duralloy Plus<sup>®</sup> and Duralloy<sup>®</sup> (same pricing). Duratec<sup>®</sup> prices on application. The following specs apply to Building Exteriors.

- Dulux Duralloy Plus® powder coating systems are suitable for properties greater than 10m from high tide level.

Residential and Light commercial buildings, 3 levels max. Warranty 15 yrs

- Dulux Duratec® powder coating systems are suitable for properties greater than 10m from high tide level

All Residential and Commercial buildings. Warranty 25 yrs.

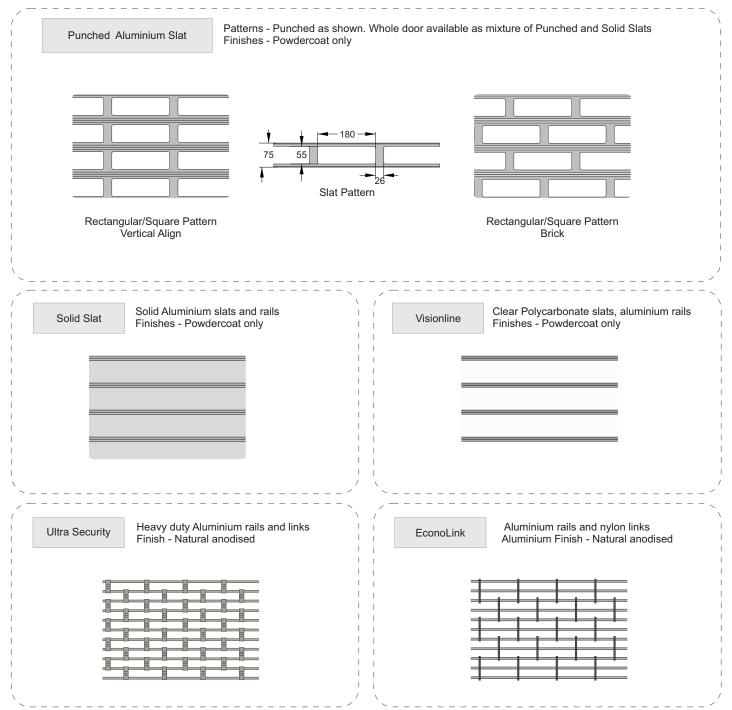
Attachment to structures A PVC Tape or similar material spacer must be used to separate powder coated aluminium items from all concrete and steel structures. Failure to do so can lead to the chemicals in the structure affecting the powder coating, leading to corrosion.

**Swimming Pools** The chlorinated water in swimming pools can cause the deterioration of powder coated surfaces, leading to corrosion of the underlying surface. It is recommended that Powder coated surfaces be 1200mm min from a pool.

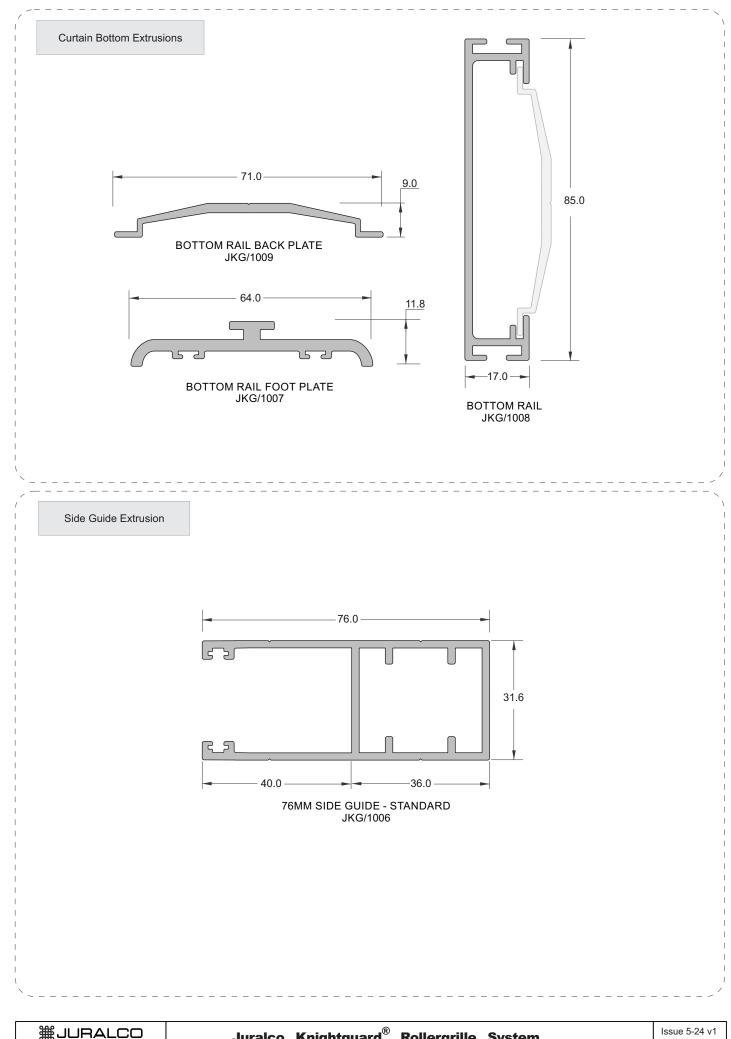
<u>Care</u> The Dulux powder coating warranty period is conditional upon the surface being maintained

in accordance with the Dulux 'Care and Maintenance Instructions'. Download from Dulux or refer to the back page of this manual.

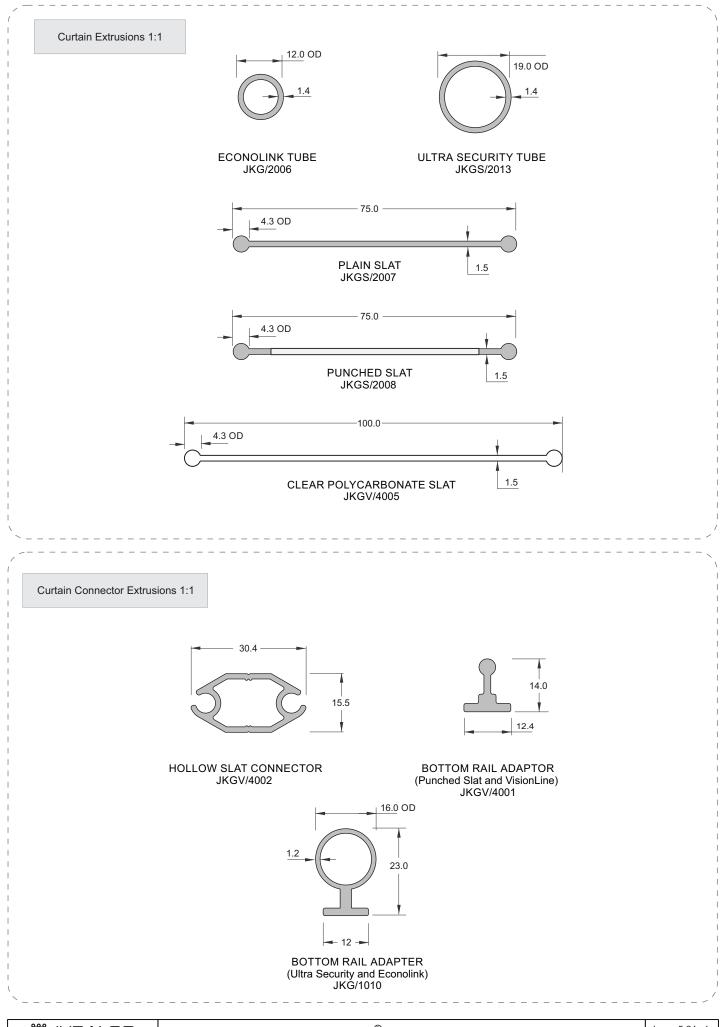
## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Curtain Options



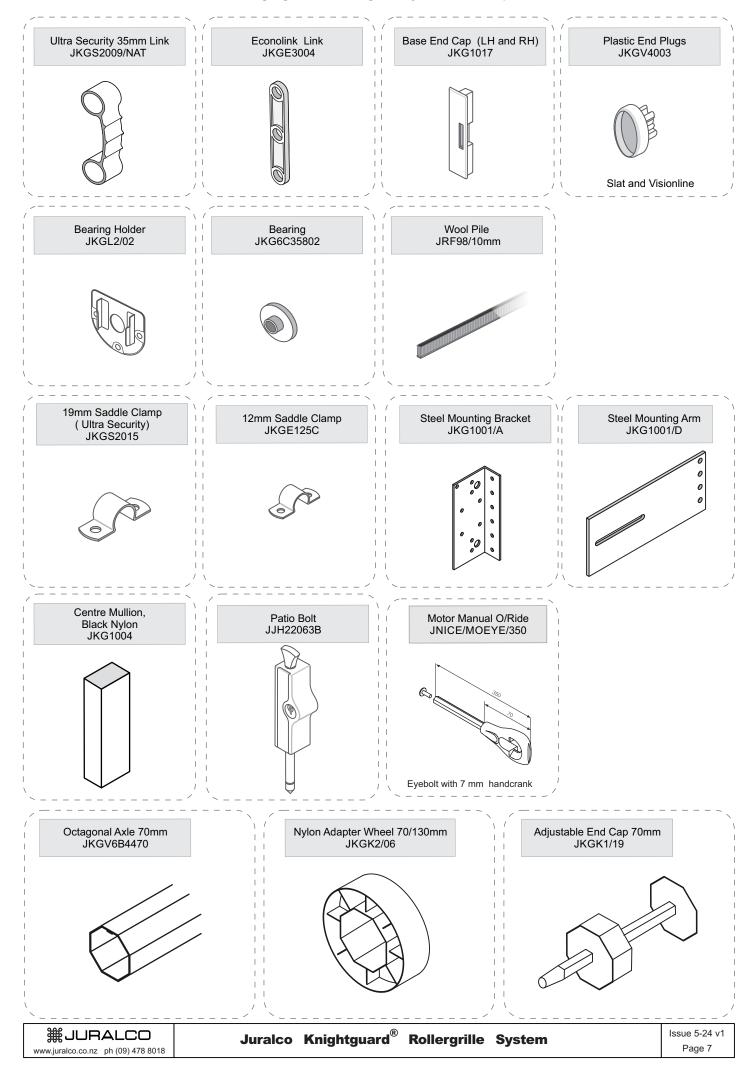




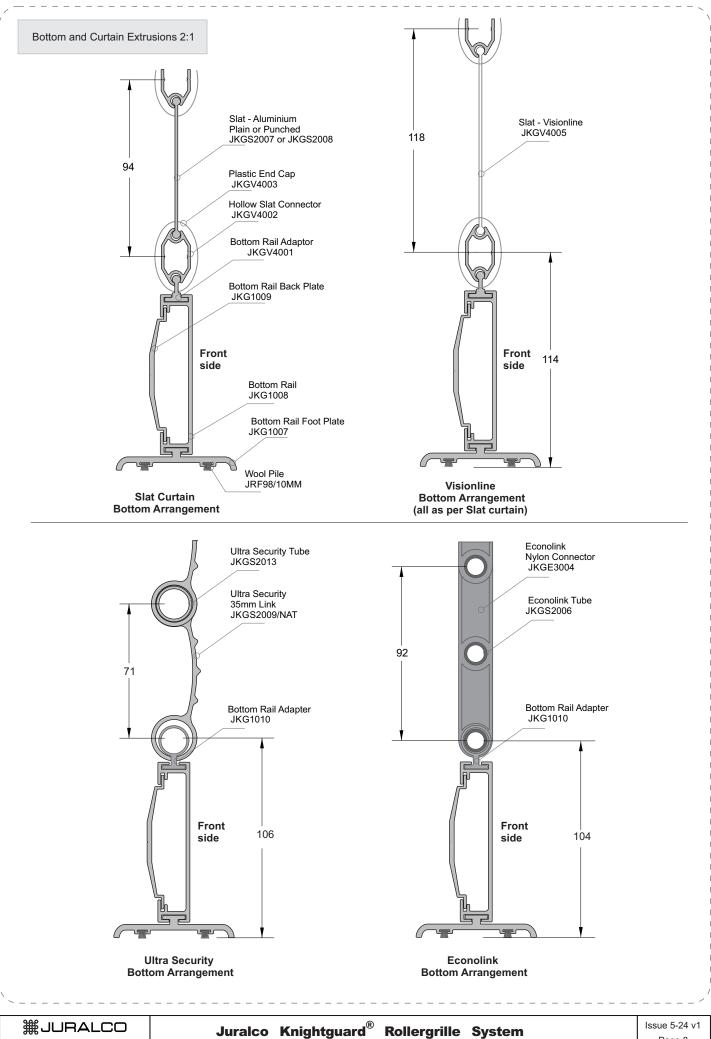
## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Extrusions



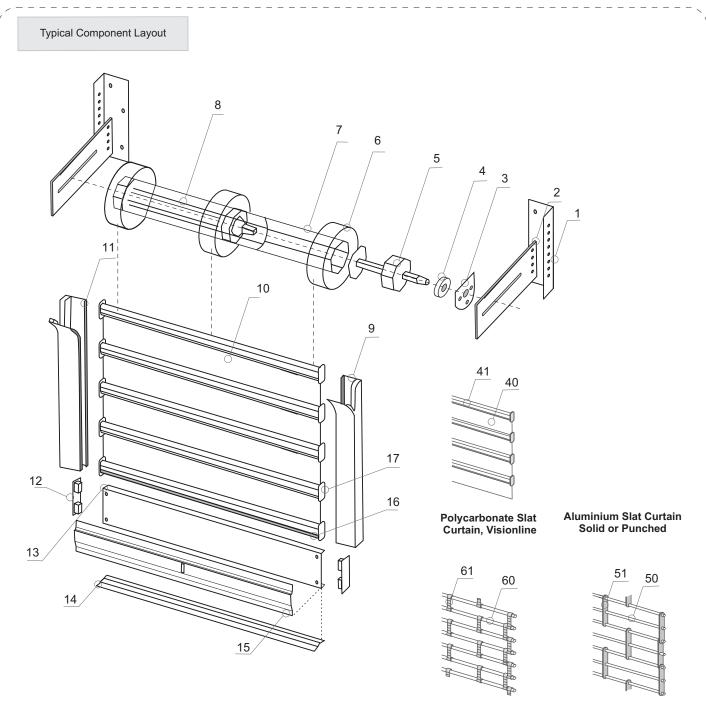
## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Components



## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Component Layouts



## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Component Layouts



**Ultra Security Curtain** 

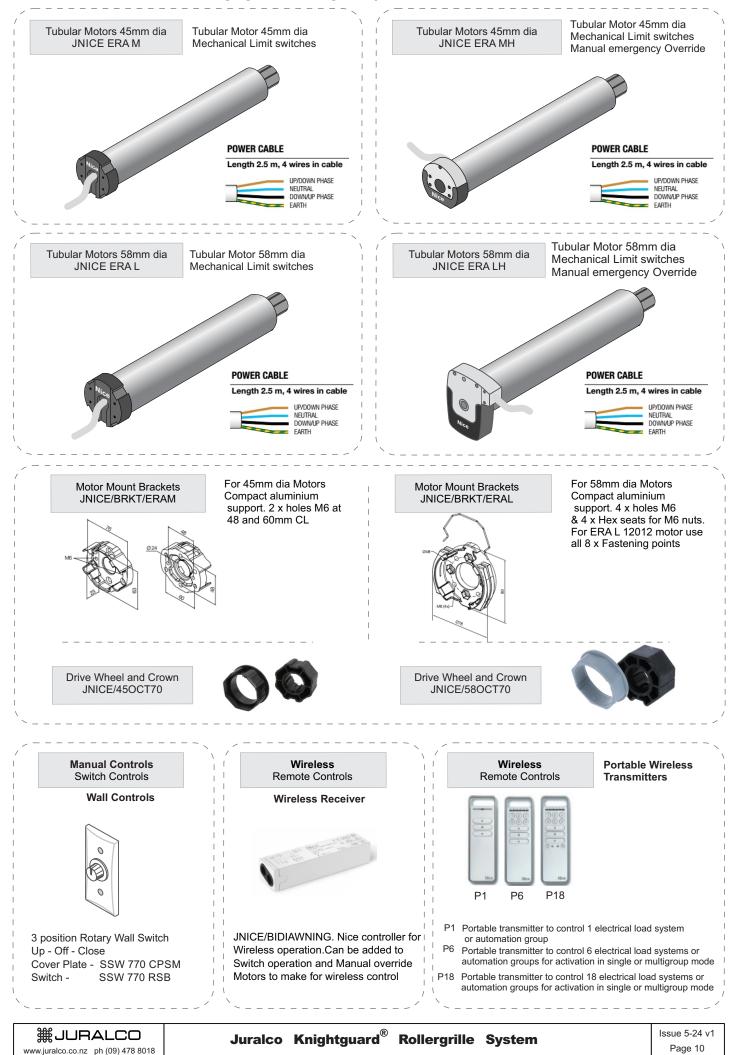
Econolink Curtain

	ROLLEI	RGRILL	E
	ITEM		ITEM
1	Steel Angle Mounting Bracket	10	Selected Curtain
2	Steel Mounting Arm	11	Wool Pile
3	Bearing Holder	12	Base End Caps
4	Bearing, 42mm	13	Bottom Rail 85mm x 17mm
5	Octagonal Adjustable End Caps	14	Bottom Rail Footplate
6	Nylon Adaptor Wheel, 130mm dia	15	Front Cover Plate for Bottom Rail
7	Octagonal Hollow Steel Axle, 70mm dia	16	Bottom Rail Adaptor
8	Selected Tubular Motor	17	Nylon Plug, Fits into Slat Connecting Bar
9	Side Guide, 76 x 32mm		
		50	Aluminium Tube 12mm dia
31	Aluminium Slat Connecting Bar	51	Nylon Reinforced Links , 3 x hole
40	Polycarbonate Clear Slat 100mm x 1.6mm	60	Aluminium Tube 19mm dia
41	Aluminium Slat Connecting Bar	61	Aluminium Link 35mm x 2mm

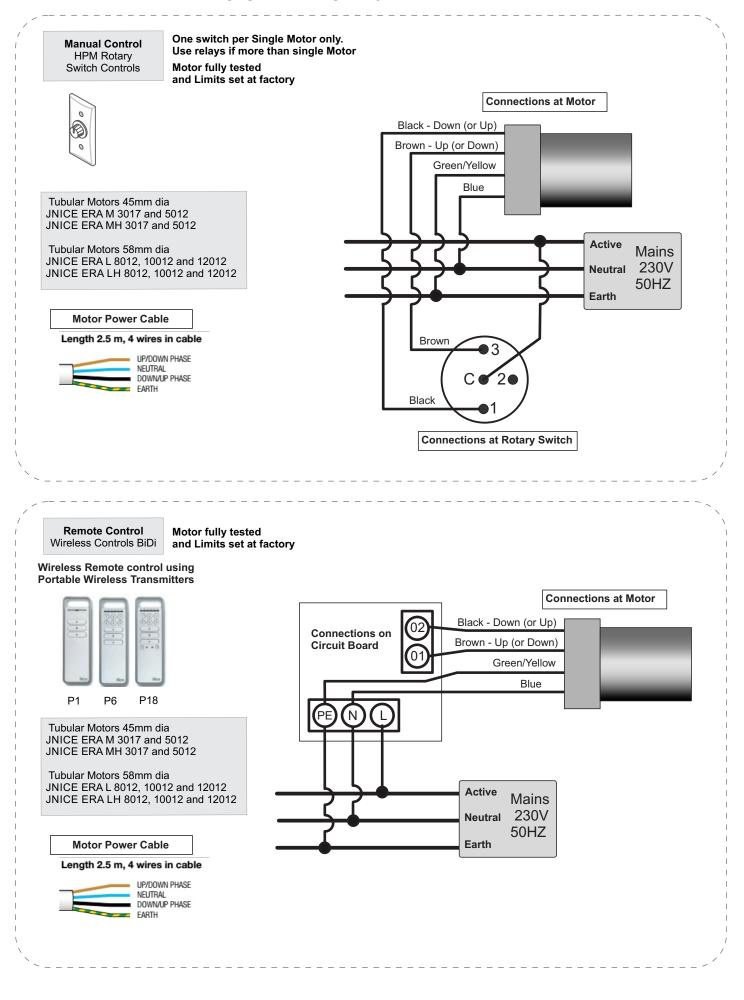
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Juralco Knightguard<sup>®</sup> Rollergrille System

## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Motors and Controls

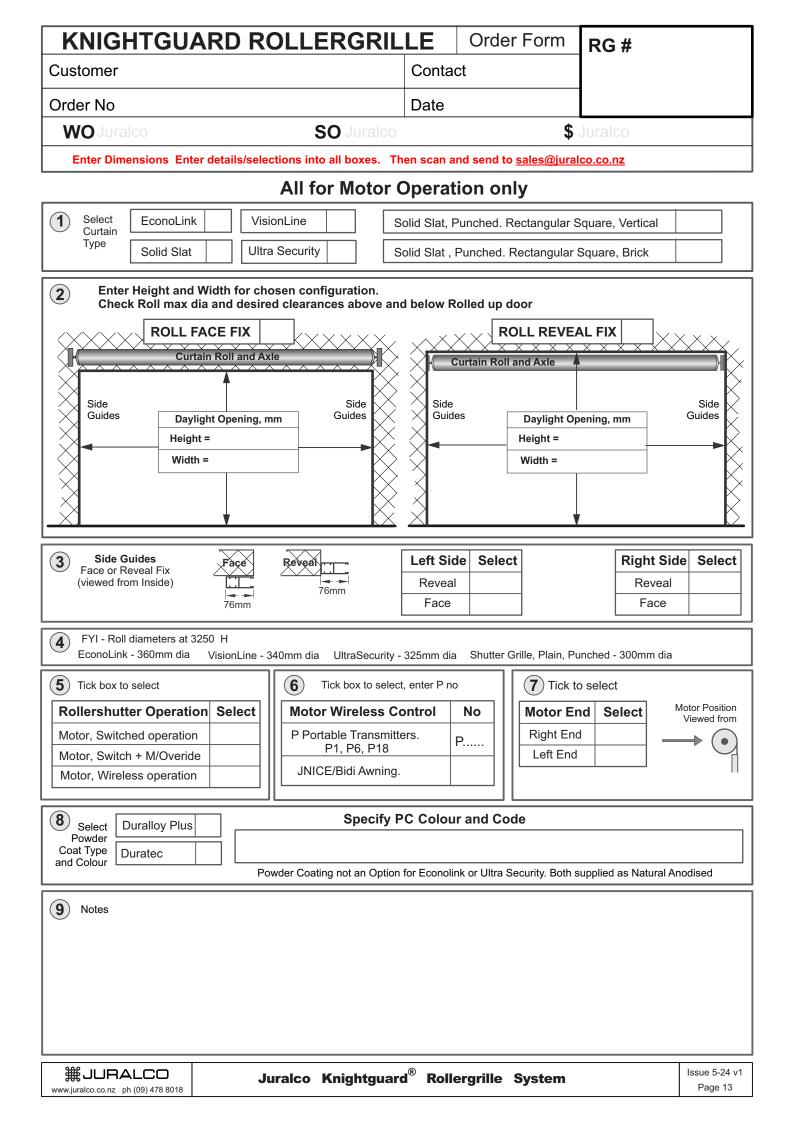


## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Motors and Controls

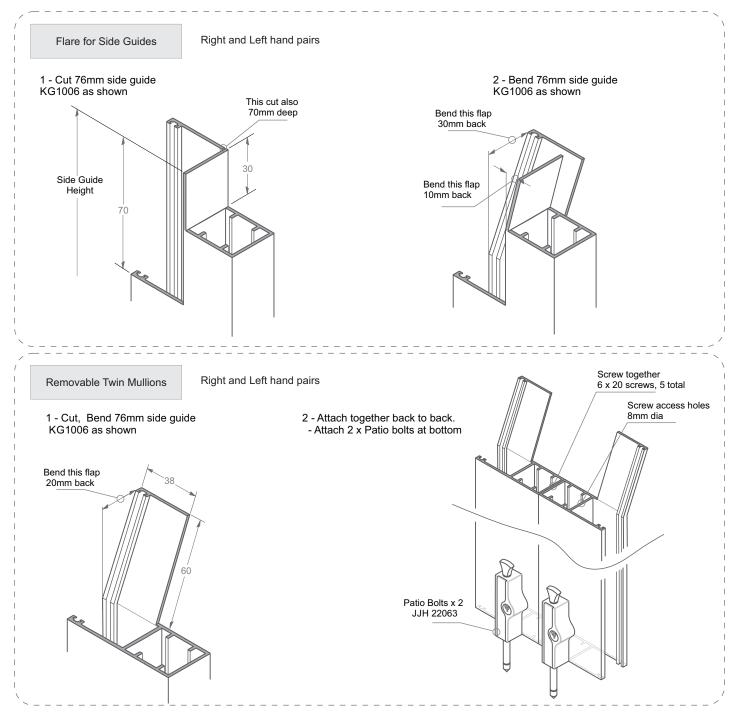


## These all for Motor Operation only. Switch or Remote control

	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia	
	Heights	kg										
Econolink	1000	10	13	18	23	26	30	35	39	41	240	
Curtain Weights	1500	12	16	21	27	32	37	43	48	53	290	
kg	2000	13	19	25	32	37	43	50	56	61	320	]
	2500	15	21	28	36	42	49	56	63	70	335	]
	3000	17	24	31	40	47	55	63	71	78	350	]
	3250	18	25	33	42	50	58	67	75	83	360	]
												1
	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia	
Visionline Clear	Heights	kg		-								
Polycarbonate	1000	12	17	22	28	33	38	44	49	54	200	-
See Through	1500	15	21	28	35	42	48	65	62	69	240	-
Curtain Weights	2000	17	25	33	41	49	57	66	71	81	270	
kg	2500	20	29	38	48	57	66	76	85	94	295	
	3000	22	32	43	54	64	74	86	96	106	325	
	3250	24	35	46	58	69	80	92	103	114	340	
	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	Roll D
												ROILD
	Heights 1000	kg 11	kg 16	kg 21	kg 27	kg 31	kg 36	kg 42	kg 47	kg 52	kg 57	240
Ultra Security	1500	14	20	26	34	40	46	53	60	62	72	240
Curtain Weights kg	2000	14	20	31	40	40	54	63	70	78	85	233
	2500	10	24	36	40	54	63	72	81	89	98	300
	3000	21	31	41	51	61	71	81	91	101	111	315
	3250	23	33	41	55	65	76	87	98	101	119	325
	5250	25		40		00	10	07	30	100	113	525
	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia	1
	Heights	kg	Kon Dia									
Shuttergrille	1000	14	21	27	34	41	47	55	61	67	185	
Solid Slat	1500	14	27	36	45	54	62	72	81	89	225	
<b>Curtain Weights</b>	2000	22	33	43	54	65	75	87	97	107	225	
kg	2500	26	38	50	64	76	88	101	113	126	230	
	3000	30	44	58	73	87	101	116	130	144	285	
	3250	32	47	62	78	93	101	125	140	155	300	-
	5250	52	1	02	10		100	120	140	100	500	1
	Widths	1000	4500	2000	2500	2000	2500	4000	4500	5000	Roll Dia	1
01 //		1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia	-
Shutter grille	Heights	kg	405	-								
Punched	1000	11	14	20	26	31	35	41	46	51	185	-
Rectangular or	1500	14	18	26	33	39	45	52	58	64	225	-
Brick Pattern	2000	16	21	30	38	46	53	61	68	75	250	-
Curtain Weights	2500	18	24	35	44	52	61	70	78	87	270	-
kg	3000	20	28	39	50	59	68	79	88	98	285	-
	3250	22	30	42	53	63	73	84	94	105	300	1



## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Machining



### Juralco Knightguard<sup>®</sup> Rollergrille Systems - Installation

#### Note: Prior to delivering to site, unpack and check all items

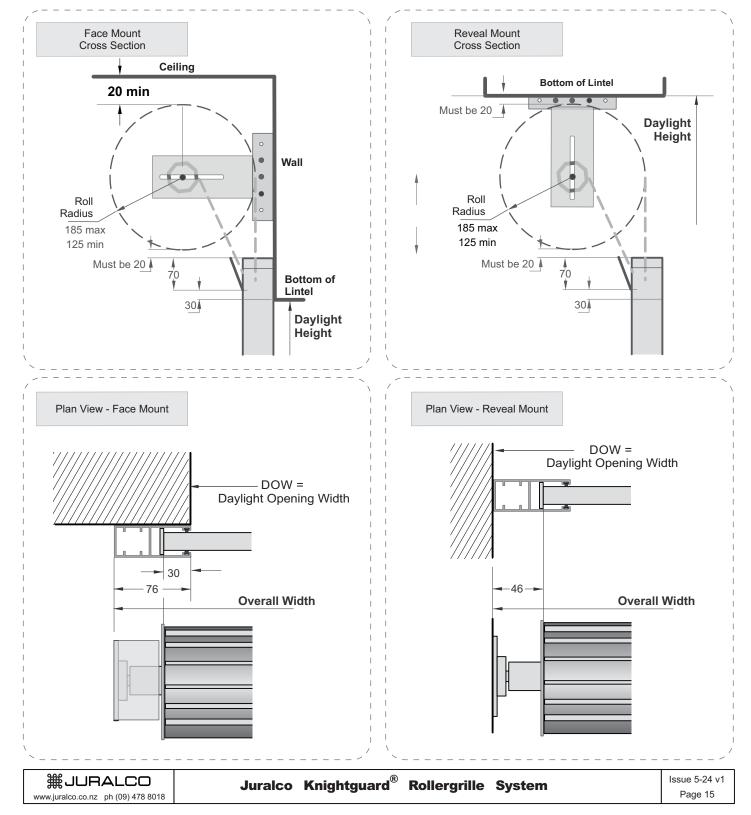
### INSTALLATION HINTS

1 - RULE NO 1 - THINK, carefully before commencing the work. Carefully plan your work before commencing.

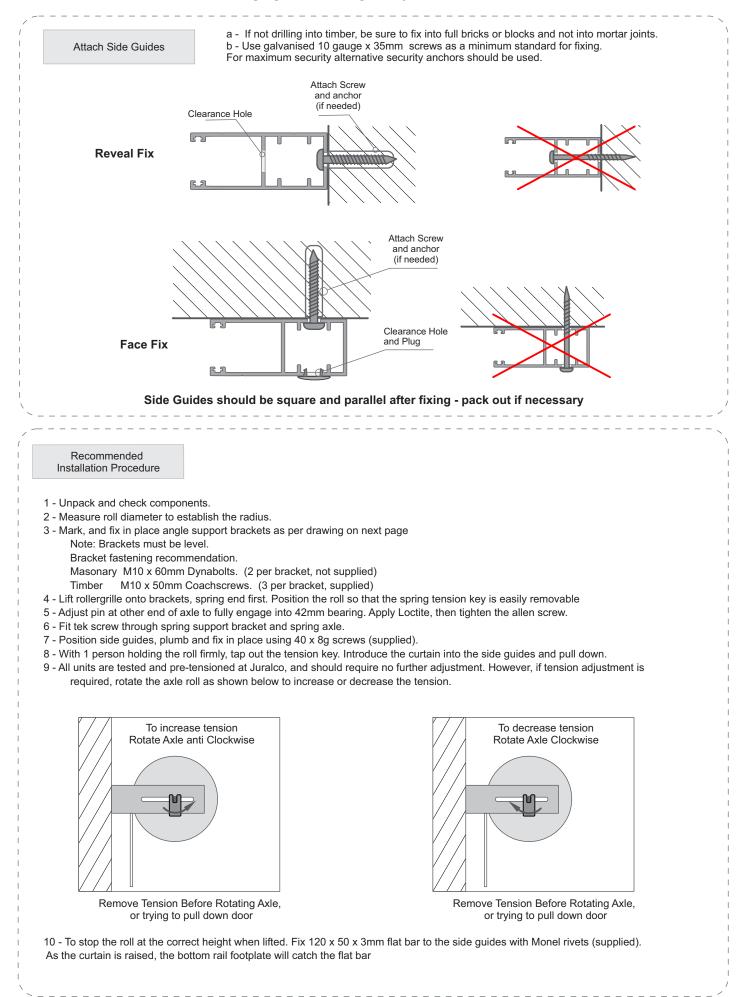
- The installer should carefully inspect each opening and make certain where and how the shutter is to be fixed.
- 2 RULE NO 2 THINK, safety first.
- 3 HANDY HINTS
  - a Always keep some spare drill bits.
  - b Have all drill bits ready sharpened before commencing work.
  - c Have some touch-up paint with you.
  - d Have a piece of flat aluminium sheet of 2mm to 3mm thickness. You may need to improvise on site.
  - e Have a piece of side guide handy to help you space out and mark where to drill fixing holes.
  - f Upon arrival at the work site, assign all the numbered componentry to each shutter and to each opening.

g - After installing, test the Rollergrille to your satisfaction, adjust top and bottom limits, silicone spray inside the side guides. Test all controls and locks, that they work cleanly and smoothly.

- h Attach company labels and maintenance phone contacts in an obvious place.
- i Hand the customer any operating Manuals.
- j Always leave the installation (and site) in a clean and tidy condition.



## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Installation



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## Juralco Knightguard<sup>®</sup> Rollergrille Systems - Powder Coating Care and Maintenance

### Powder Coating Installation Care

#### Warning re use of solvents:

- In some cases strong solvents are recommended for thinning various types of paints and also for cleaning up mastics and sealants.
- These can be harmful to the extended life of the powder coated surface, and must not be used for cleaning purposes.
- It is important to note that the damage will not be visible immediately and may take up to I2 months to develop.

If paint splashes or sealants and mastics need to be removed then the following may be safely used: Methylated Spirits, Ethyl Alcohol, Isopropanol or preferably a mild detergent in warm water.

#### Joinery Protection during Installation:

All the activity on a construction site means that your powder coated items may get knocked or scratched, splattered with mortar, plaster, textured coating or paint during the later stages of construction.

Please ensure that all powder coated articles are <u>masked or covered</u> at this time. It is far easier to prevent accidents than to try and correct them. Should your joinery receive mortar or paint splashes see that these are removed before cure and follow the instructions contained in this brochure.

Typical sticker used to warn other trades of the need to protect and mask off powder coated joinery (applies to anodised joinery also) "IMPORTANT ALL TRADES" This valuable aluminium joinery will suffer permanent damage from: plaster, mortar and paint splashes - Protect if splashes occur - Immediately wash down joinery with water or meths - Do not allow splashes to harden! ~ Do not use solvents! - Do not remove this label until final clean completed.

This photograph display damage that has occurred on site, post installation. The photo of the masked joinery displays clear signs of damage that could have occurred were it not masked. Please ensure that your joinery is protected right through the entire construction process.

### Powder Coating Maintenance

#### External - Maintenance Program:

To extend the life of external powder coated articles and to comply with warranty requirements for powder coated aluminium joinery, a <u>simple, regular</u> maintenance program must be implemented.

The effects of ultra violet light, atmospheric pollution, dirt, grime and airborne salt deposits will all accumulate over time and must be removed or surface staining and weathering will occur, leading to an unsightly appearance.

For external coatings, cleaning should take place every six months. In areas where pollutants are more prevalent, such as beachfront houses and industrial or geothermal areas, then a cleaning program should be carried out on a more frequent basis ie. every one to three months.

#### Cleaning your powder coating:

Carefully remove any loose surface deposits with a wet sponge.
Use a soft brush (non abrasive) and a mild household detergent (do not use solvents) in warm water, remove dust, salt and other deposits.
Rinse off with clean fresh water.

#### Restoring weathered or scratched surfaces:

Repair of Scuffed or Scratched surfaces Dulux Spray Cans are available in all colour card colours.

Repair of Small Scratches or Chips. Dulux Dabsticks are ideally suited for the repair of small scratches. Dabsticks may not be available in all colour card colours.

Repair of Weathered areas . Dulux Gloss Up is a light to medium cutting cream ideally suited for gloss restoration and has been specifically designed for this purpose. Gloss Up contains no waxes or silicone and is a one step system.





#### Contact Dulux Powder Coatings , ph 0064 9 441 8244

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