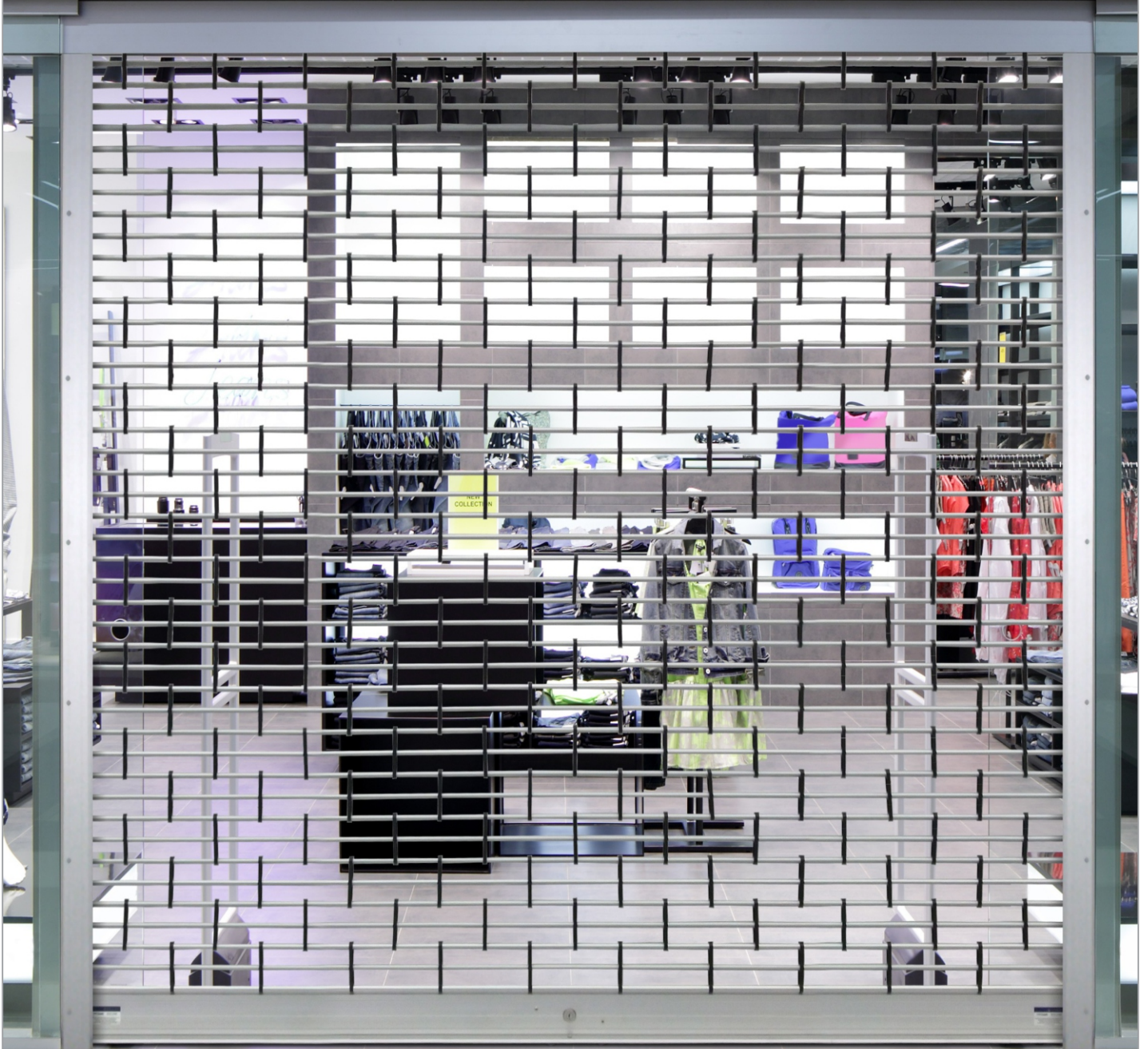


AGE



QUA



 JURALCO

JURALCO KNIGHTGUARD[®]
ROLLERGRILLE SYSTEM

ISSUE 1/16

Juralco Knightguard Rollergrille System

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 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 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.

This Guide is intended for use by Architects, Specifiers and Fabricators
Pages 2 - 3 cover areas of general interest. Pages 4 onwards are intended for Fabricators



General Description

- 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 Served areas, 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 - Manual** - A torsion spring fitted inside the axle assists the operator to raise/lower the curtain.
It is fitted and pre-tensioned before delivery.
- **Drive - Motorised** - An inline tubular motor raises or lowers the curtain automatically. Manual override control available.
- **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 Knightguard Rollergrille Systems

Index

Type	Pages	Description
Curtains	4	Shows the differing types of curtains
Materials	5 - 9	Shows all Extrusions and Components
Door	10 - 11	Shows typical Door components and layouts
Measuring	12 - 13	Shows measuring and Fixings for the Face and Reveal fix doors. Headbox weights and sizes.
Order Form	14 - 15	Door Order Forms
Installation	16 - 19	Machining, Installation hints and cutting tables
Powder coat	20	Instructions for the care of Powder coated surfaces

Important instructions for Powder Coatings near Salt Water

The standard Dulux powder coating system used by Juralco is Duralloy® and is suitable for installations greater than 100 metres from high tide level and for buildings up to 3 stories above ground. Use Duratec® for installations between 10 and 100 metres from high tide level and for prestigious residential and commercial developments. For all other applications contact Juralco for alternative systems.

Note - Powder coated prices listed in Juralco price books are for the standard Duralloy® system. If the Duratec® system is required it must be specified upon placement of the order and will incur a surcharge – Duratec® prices on application.

Important instructions for Powder Coating - Attachment to structures

An EPDM or similar material spacer must be used to separate powder coated aluminium items from all timber, concrete and steel structures. Failure to do so can lead to the chemicals in the structure affecting the powder coating layer on the aluminium.

Powder Coating Warranty

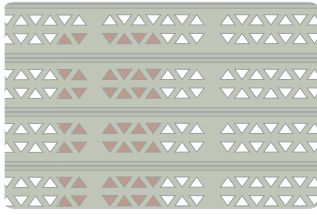
The Dulux powder coating warranty period is conditional upon being maintained in accordance with the Dulux 'Care and Maintenance Instructions'. Contact your installer for a copy (or download from Dulux) of the Care and Maintenance instructions or refer to the back page of this manual.



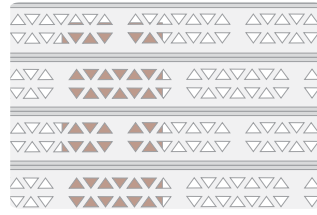
Juralco Knightguard Rollergrille Systems - Curtain Options

Punched Aluminium Slat

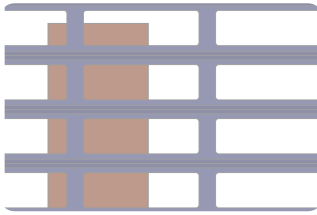
Finishes - Powdercoat to your specification or Natural Anodised -
Patterns - Punched as shown. Whole door available as mixture of Punched and Solid Slats



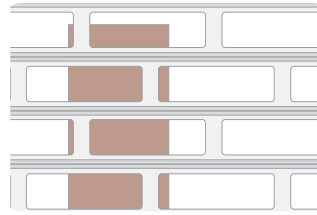
Twin Row Diamond Pattern
Vertical Align



Twin Row Diamond Pattern
Brick



Rectangular/Square Pattern
Vertical Align



Rectangular/Square Pattern
Brick

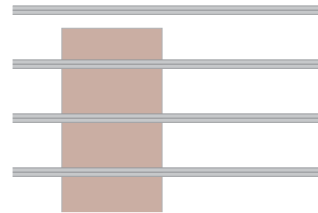
Solid Slat

Solid Aluminium slats and rails
Finishes - Powdercoat or Natural anodised



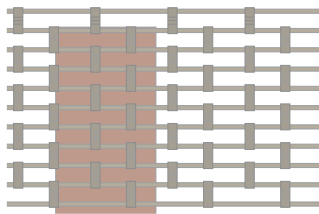
Visionline

Clear Polycarbonate slats, aluminium rails
Aluminium Finishes - Powdercoat
or Natural anodised



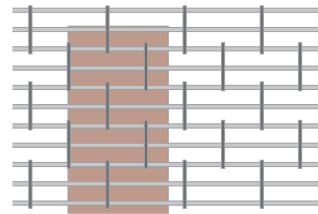
Ultra Security

Heavy duty Aluminium rails and links
Finish - Natural anodised



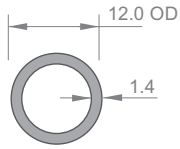
EconoLink

Aluminium rails and nylon links
Aluminium Finish - Natural anodised

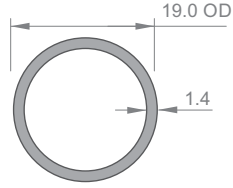


Juralco Knightguard Rollergrille Systems - Extrusions

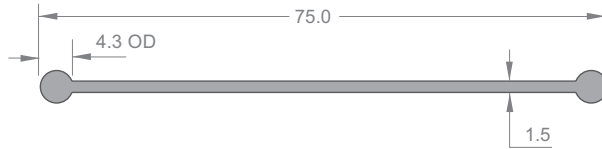
Curtain Extrusions



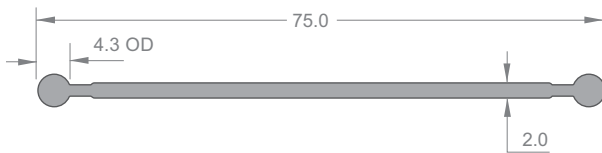
ECONOLINK TUBE
Part No KGS 2006



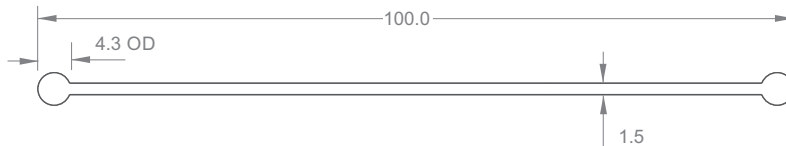
ULTRA SECURITY TUBE
Part No KGS 2013



PLAIN SLAT
Part No KGS 2007

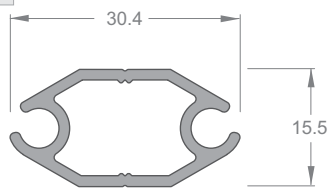


HEAVY DUTY SLAT
Part No KGS 2016

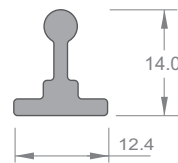


KGS CLEAR POLYCARBONATE SLAT
Part No KGV 4005

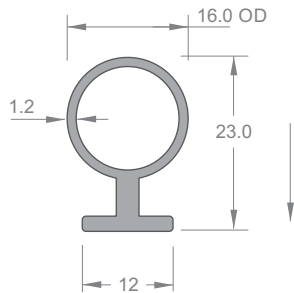
Curtain Connector Extrusions



HOLLOW SLAT CONNECTOR
Part No KGV 4002



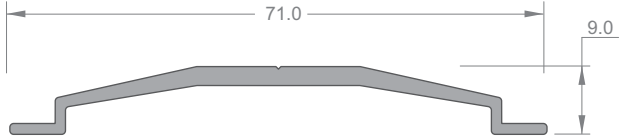
BOTTOM RAIL ADAPTOR
(Punched Slat and VisionLine)
Part No KGV 4001



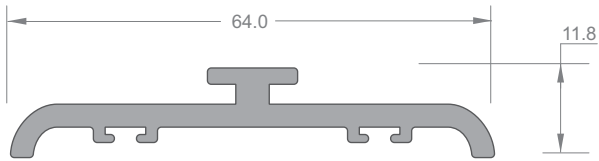
BOTTOM RAIL ADAPTER
(Ultra Security and Econolink)
Part No KG 1010

Juralco Knightguard Rollergrille Systems - Extrusions

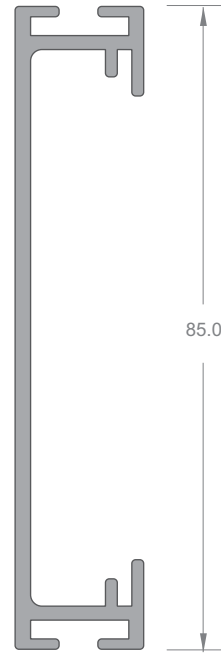
Curtain Bottom Extrusions



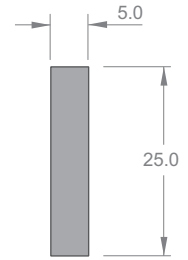
BOTTOM RAIL BACK PLATE
Part No KG 1009



BOTTOM RAIL FOOT PLATE
Part No KG 1007



BOTTOM RAIL
Part No KG 1008

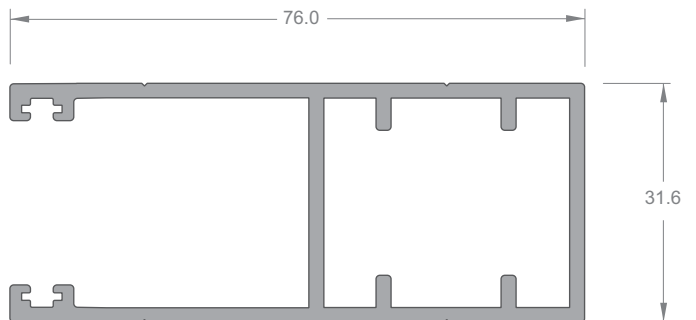


LOCK BAR
Part No KG 1016

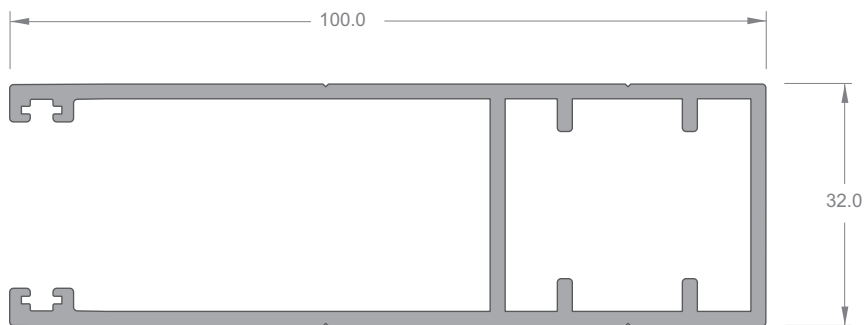
Side Guide Extrusions



54MM SIDE GUIDE (SPECIAL)
Part No KG 1005



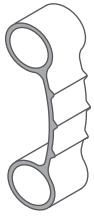
76MM SIDE GUIDE - STANDARD
Part No KG 1006



100MM SIDE GUIDE (SPECIAL)
Part No KG 1018

Juralco Knightguard Rollergrille Systems - Components

Ultra Security 35mm Link
Part No KGS 2009/35



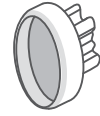
Econolink Link
Part No KGE 3004



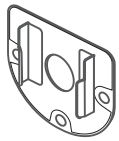
Base End Cap (LH and RH)
Part No KG 1017



Plastic End Plugs
Part No KGV 4003



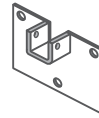
Bearing Holder
Part No KGL 2/02



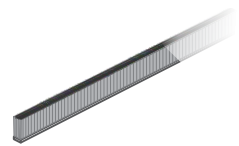
Bearing
Part No KG 635802



Spring Support Brkt
Part No KG 1003/SQ



Wool Pile
Part No JRF 98



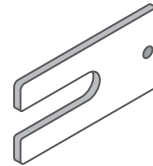
19mm Saddle Clamp
(Ultra Security)
Part No KGS 2015



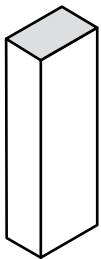
12mm Saddle Clamp
Part No KGE 125C



Spring Tension Key
(Removable)
Part No KG 765 KEY/AA



Centre Mullion,
Black Nylon
Part No KG 1004



Flush Pull Handle
Part No KGVS 4004

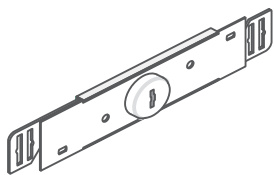


Patio Bolt
Part No JJH 22063

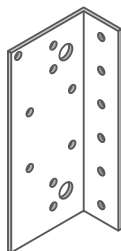


Juralco Knightguard Rollergrille Systems - Components

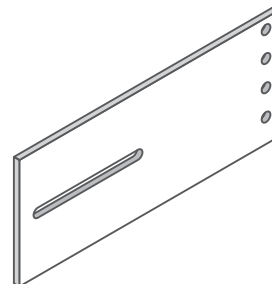
Lock
Part No SE 3/05



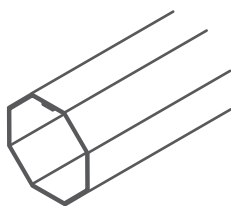
Steel Mounting Bracket
Part No KG 1001/A



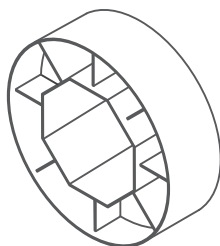
Steel Mounting Arm
Part No KG 1001/D



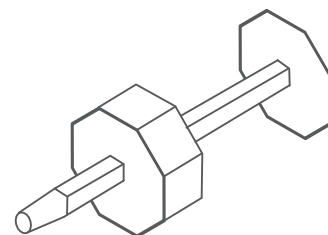
Octagonal Axle 70mm
Part No KGV 6B4 4470



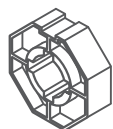
Nylon Adapter Wheel 70/130mm
Part No KGK 2/06



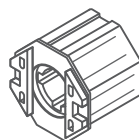
Adjustable End Cap 70mm
Part No KGK 1/19



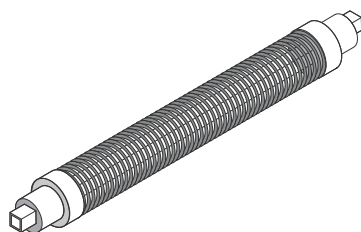
Inner Axle, Spring Drive Wheel, 70mm
Part No KG 756 E2270



End axle, Spring End cap, 70mm
Part No KG 756 E1270



Torsion Spring



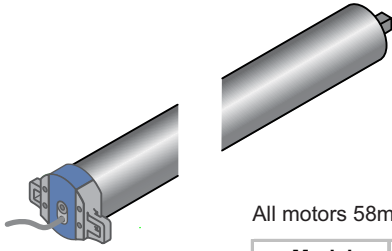
Juralco Propriety Torsion Spring
Manufactured from 12.5mm dia Chromed Steel Shaft,
Nylon drive wheels and Carbon Spring steel.
All to AS1472(2003) Range 2.
Finish - Phosphate coated

Part Numbers	Capacity
KG 31 - Light Blue	0 - 10kg
KG 31 - Red	0 - 10kg
KG 35 - Silver	0 - 10kg
KG 45 - Orange	10 - 20kg
KG 45 - White	10 - 20kg
KG 50 - Yellow	20 - 30kg
KG 56 - Green	30 - 40kg
KG 56 - Navy	40 - 55kg
KG 56 - Black	45 - 65kg

Juralco Knightguard Rollergrille Systems - In Line Motors and Controls

Tubular Motors
NICE Neo L

Easy set mechanical top,
bottom limits.



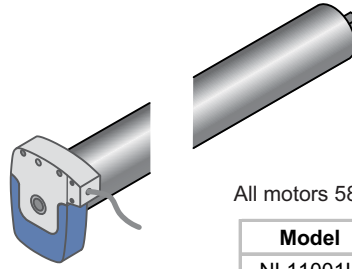
All motors 58mm dia x 618mm long

Model	Speed	Lifts
NL11000	12rpm	120kg
NL14000	12rpm	150kg
NL16000	12rpm	180kg

Wired switch Controls
as below

Tubular Motors
NICE Neo LH

Easy set mechanical top,
bottom limits and manual
override



All motors 58mm dia x 718mm long

Model	Speed	Lifts
NL11001H	12rpm	120kg
NL14001H	12rpm	150kg
NL16001H	12rpm	180kg

Wired switch Controls
as below

Wired Switch Controls

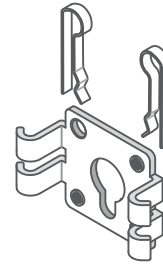
Wall Controls

3 position Rotary Wall Switch
Up - Off - Close
Cover Plate - Part No SSW 770 OCP5M
Switch - Part No SSW 770 RSB



Also Key Switch
- Part No JS Key Switch

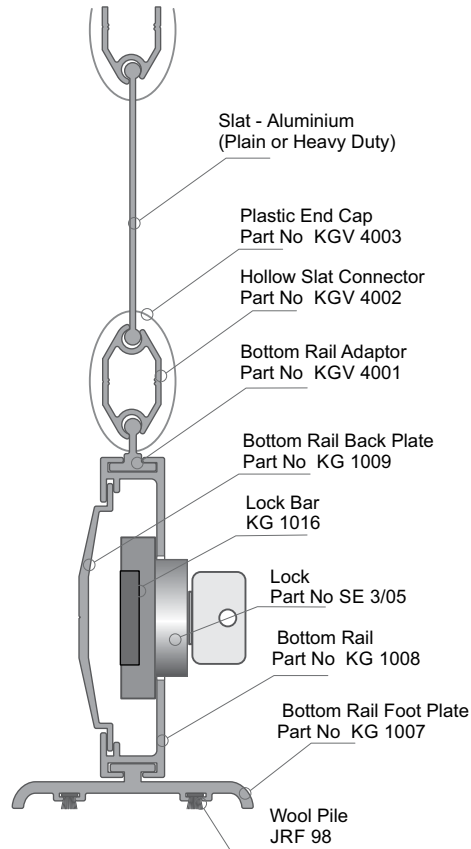
Bracket, Motor Attach to End Brackets
(both types)
Part No JNICE/STD/BKT



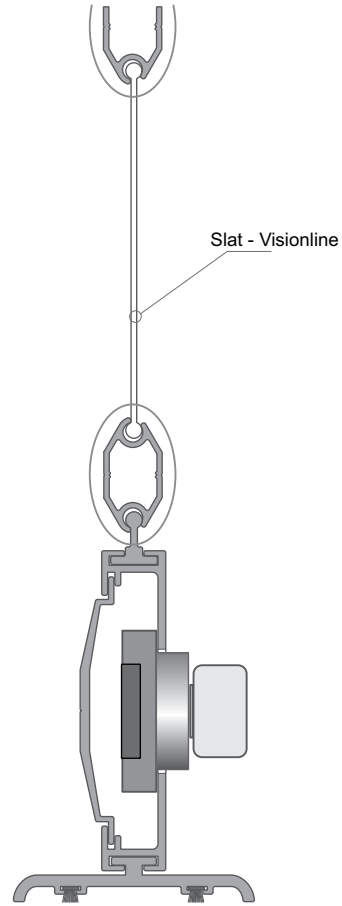
Note - Clips come with Motor

Juralco Knightguard Rollergrille Systems - Component Layouts

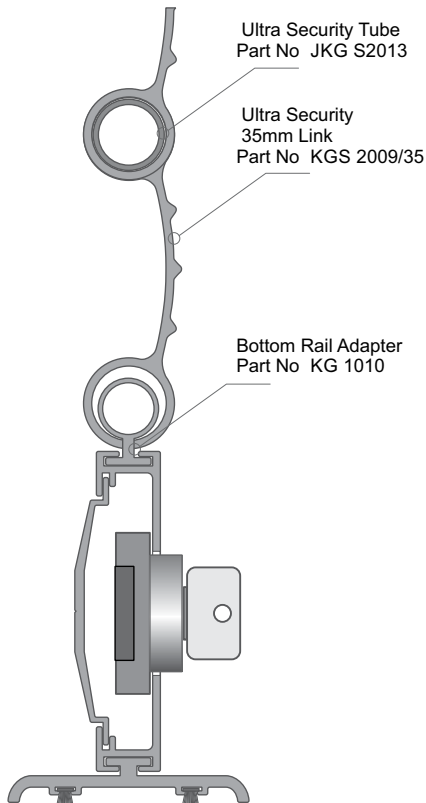
Bottom and Curtain Extrusions



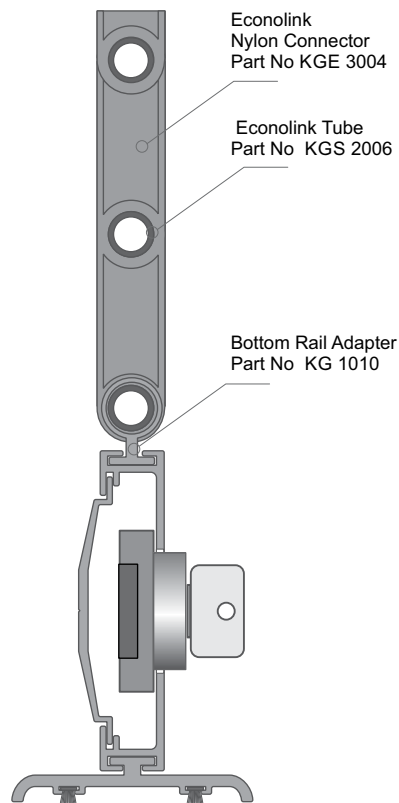
Slat Curtain Bottom Arrangement



Visionline Bottom Arrangement (all as per Slat curtain)



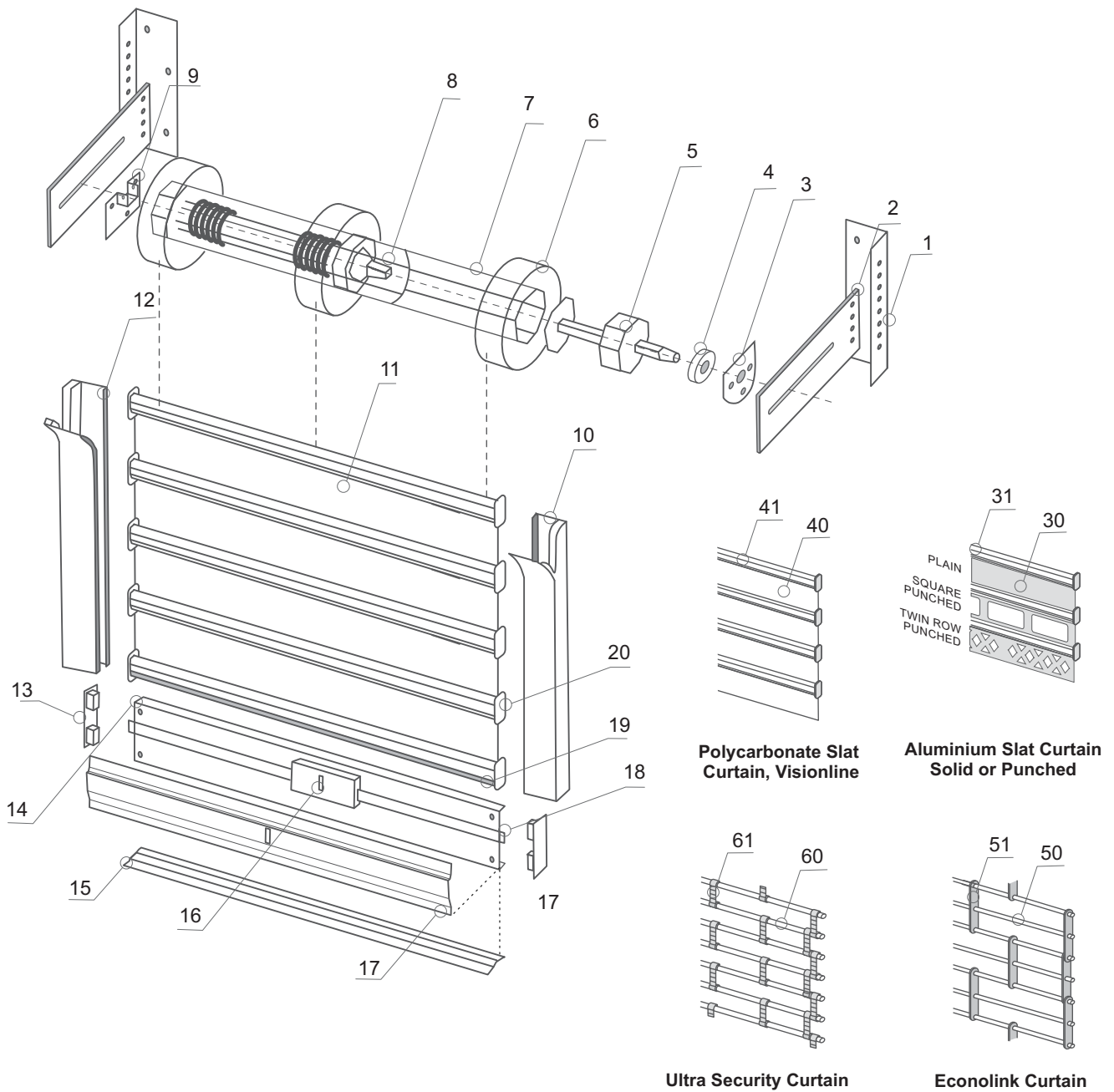
Ultra Security Bottom Arrangement



Econolink Bottom Arrangement

Juralco Knightguard Rollergrille Systems - Component Layouts

Typical Component Layout



ITEM		ITEM	
1	Steel Angle Mounting Bracket	11	Selected Curtain
2	Steel Mounting Arm	12	Wool Pile
3	Bearing Holder	13	Base End Caps
4	Bearing, 42mm	14	Bottom Rail 85mm x 17mm
5	Octagonal Adjustable End Caps	15	Bottom Rail Footplate
6	Nylon Adaptor Wheel, 130mm dia	16	Bottom/Mid Rail Key Lock
7	Octagonal Hollow Steel Axle, 70mm dia	17	Front Cover Plate for Bottom Rail
8	Torsion Spring (or In Line Motor)	18	Aluminium Lock Bar 25mm x 5mm
9	Spring Support Bracket	19	Bottom Rail Adaptor
10	Side Guide, 54, 76 or 100mm x 32mm	20	Nylon Plug, Fits into Slat Connecting Bar
30	Aluminium Slat 75mm x 1.6 or 2mm Plain or Punched	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

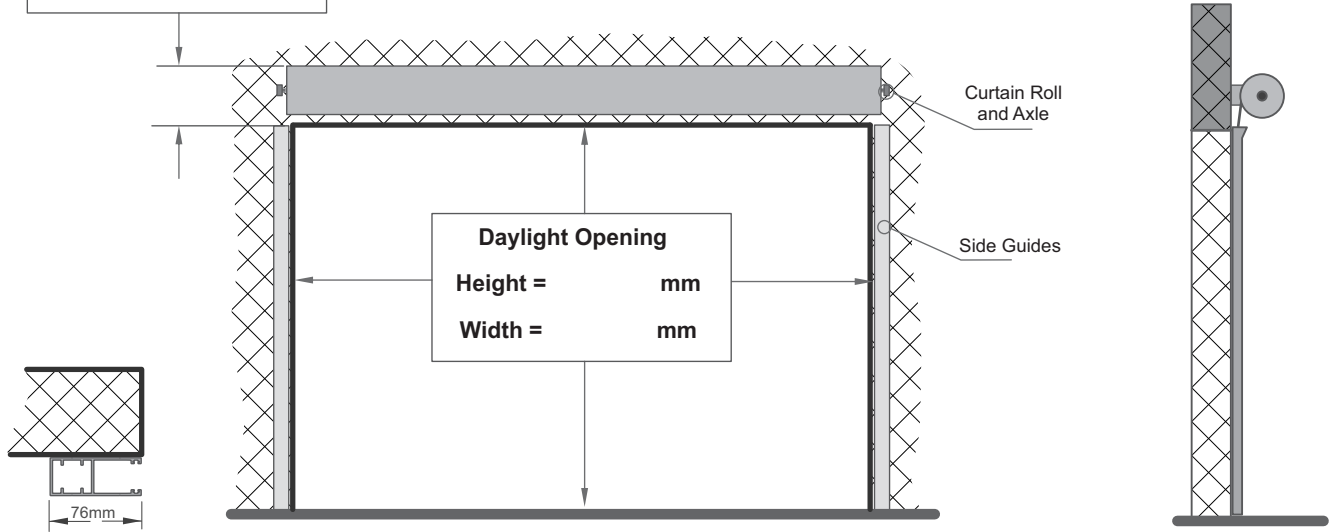
Juralco Knightguard Rollergrille Systems - Fixing Options, Measuring

Face Fix Configuration

The Curtain Roll/ Axle is mounted above the opening, and the Side Guides face fixed to either side of the opening

Headroom needed above Daylight Opening (at Door full up)

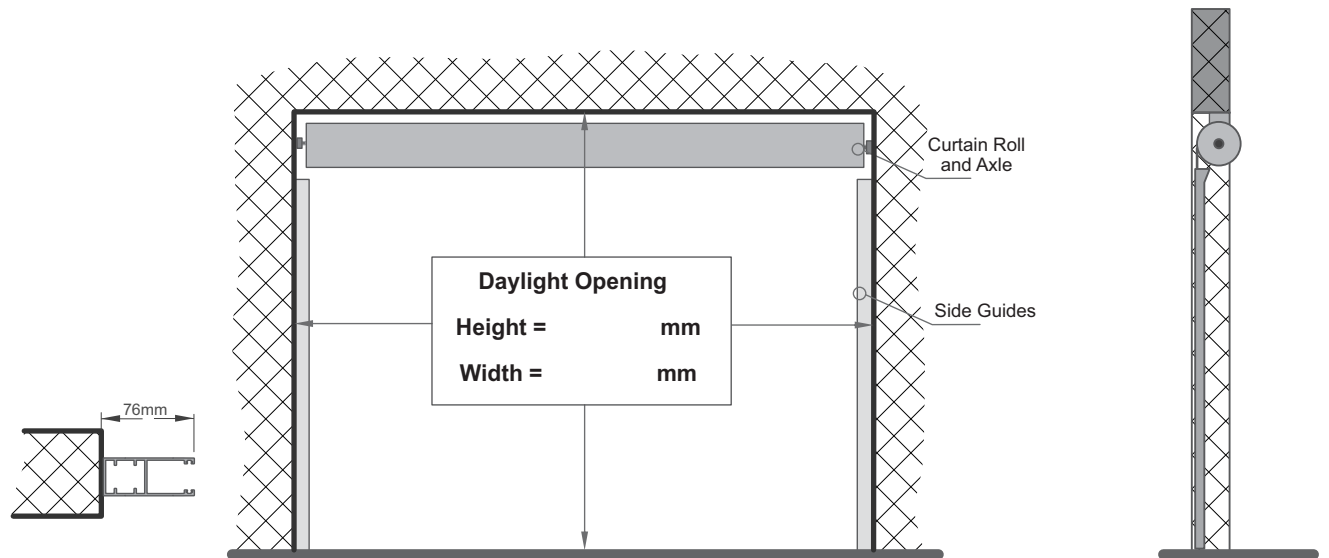
Height = mm



Reveal Fix Configuration

The Curtain Roll / Axle is mounted within the opening, and the Side Guides fixed to the insides of the opening.

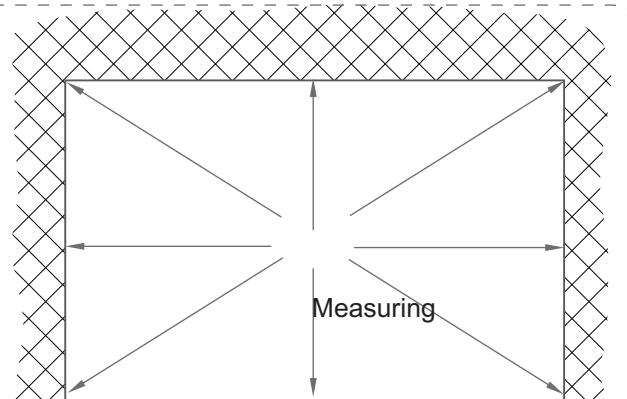
Daylight Opening
Height = mm
Width = mm



Measuring

Check list for measuring up a Rollergrille Door

- 1 - **Door frame opening width** to be measured at 2 points
Record smallest measurement as the opening width .
Check for any bad bow.
- 2 - **Door frame opening height** to be measured at 3 points
Record smallest measurement as the opening height.
Check for any bad bow.
- 3 - **Door Frame Diagonals** To be measured to assess squareness of frame. Less critical for Face Mounting.
Side Guides must be parallel and square.



Juralco Knightguard Rollergrille Systems - Curtain Weights, Roll Dia

Twin Row Diamond Pattern Vertical or Brick align	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia
	Heights	kg	kg	kg	kg	kg	kg	kg	kg	kg	
	1000	13	19	24	31	37	43	49	55	61	185
	1500	17	24	32	40	48	56	64	72	79	225
	2000	20	29	38	48	57	66	77	86	95	250
Note - Shaded areas are for Motorised operation only	2500	23	34	44	56	67	77	89	100	110	270
	3000	26	38	50	64	76	88	101	114	126	285
	3250	28	41	54	68	81	95	109	122	135	300

Rectangular/Square Pattern Vertical or Brick align	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia
	Heights	kg	kg	kg	kg	kg	kg	kg	kg	kg	
	1000	11	14	20	26	31	35	41	46	51	185
	1500	14	18	26	33	39	45	52	58	64	225
	2000	16	21	30	38	46	53	61	68	75	250
Note - Shaded areas are for Motorised operation only	2500	18	24	35	44	52	61	70	78	87	270
	3000	20	28	39	50	59	68	79	88	98	285
	3250	22	30	42	53	63	73	84	94	105	300

Solid Slat	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia
	Heights	kg	kg	kg	kg	kg	kg	kg	kg	kg	
	1000	14	21	27	34	41	47	55	61	67	185
	1500	19	27	36	45	54	62	72	81	89	225
	2000	22	33	43	54	65	75	87	97	107	250
Note - Shaded areas are for Motorised operation only	2500	26	38	50	64	76	88	101	113	126	270
	3000	30	44	58	73	87	101	116	130	144	285
	3250	32	47	62	78	93	108	125	140	155	300

Visionline Clear Polycarbonate See Through	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia
	Heights	kg	kg	kg	kg	kg	kg	kg	kg	kg	
	1000	12	17	22	28	33	38	44	49	54	200
	1500	15	21	28	35	42	48	65	62	69	240
	2000	17	25	33	41	49	57	66	71	81	270
Note - Shaded areas are for Motorised operation only	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

Ultra Security	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	Roll Dia
	Heights	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
	1000	11	16	21	27	31	36	42	47	52	57	240
	1500	14	20	26	34	40	46	53	60	62	72	255
	2000	16	24	31	40	47	54	63	70	78	85	270
Note - Shaded areas are for Motorised operation only	2500	19	27	36	45	54	63	72	81	89	98	300
	3000	21	31	41	51	61	71	81	91	101	111	315
	3250	23	33	43	55	65	76	87	98	108	119	325

EconoLink	Widths	1000	1500	2000	2500	3000	3500	4000	4500	5000	Roll Dia
	Heights	kg	kg	kg	kg	kg	kg	kg	kg	kg	
	1000	10	13	18	23	26	30	35	39	41	240
	1500	12	16	21	27	32	37	43	48	53	290
	2000	13	19	25	32	37	43	50	56	61	320
Note - Shaded areas are for Motorised operation only	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

Use one order form per each Rollergrille order. Check all information carefully before sending this order.
Juralco will not commence production until a signed order has been received .
Remember , this is a one off custom unit made to your measurements and specifications.

Customer Name.....Date.....
Address.....
Delivery Address.....
Phone No..... Order No Rollergrille No..... Of Total.....

This confirmation box to be completed by Juralco Rollergrille No.....
Total unit Price(packed for despatch) \$..... + GST Proposed Delivery Date

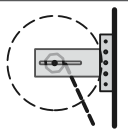
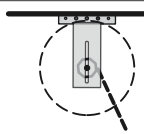
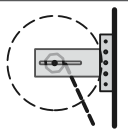
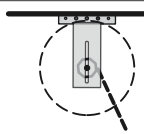
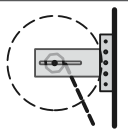
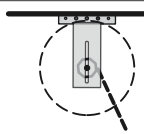
1 Tick one only box to select	<table border="1"> <thead> <tr> <th>Rollergrille Curtain</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>Twin Row Diamond Pattern - Vertical</td> <td></td> </tr> <tr> <td>Twin Row Diamond Pattern - Brick</td> <td></td> </tr> <tr> <td>Rectangular/Square Pattern - Vertical</td> <td></td> </tr> <tr> <td>Rectangular/Square Pattern - Brick</td> <td></td> </tr> </tbody> </table>	Rollergrille Curtain	Select	Twin Row Diamond Pattern - Vertical		Twin Row Diamond Pattern - Brick		Rectangular/Square Pattern - Vertical		Rectangular/Square Pattern - Brick		<table border="1"> <thead> <tr> <th>Rollergrille Curtain</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>Solid Slat</td> <td></td> </tr> <tr> <td>Visionline</td> <td></td> </tr> <tr> <td>Ultra Security</td> <td></td> </tr> <tr> <td>Econolink</td> <td></td> </tr> </tbody> </table>	Rollergrille Curtain	Select	Solid Slat		Visionline		Ultra Security		Econolink	
	Rollergrille Curtain	Select																				
	Twin Row Diamond Pattern - Vertical																					
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Rollergrille Curtain	Select																					
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2 Select from chart	<table border="1"> <thead> <tr> <th>Colour</th> <th>Specify Colour</th> </tr> </thead> <tbody> <tr> <td>Curtain</td> <td></td> </tr> <tr> <td>Side Guides</td> <td></td> </tr> </tbody> </table>	Colour	Specify Colour	Curtain		Side Guides	
	Colour	Specify Colour					
	Curtain						
Side Guides							




Note 1 - Powdercoating not available for Ultra Security and Econolink curtains

3	<table border="1"> <thead> <tr> <th>Mount Position</th> <th>Select one</th> </tr> </thead> <tbody> <tr> <td>Face Mount</td> <td></td> </tr> <tr> <td>Reveal Mount</td> <td></td> </tr> </tbody> </table>	Mount Position	Select one	Face Mount		Reveal Mount	
	Mount Position	Select one					
	Face Mount						
Reveal Mount							

4 Tick box to select one only	<table border="1"> <thead> <tr> <th>Roller Shutter Operation</th> <th>Select one</th> </tr> </thead> <tbody> <tr> <td>Spring</td> <td></td> </tr> <tr> <td>Motor, Wired switch operation</td> <td></td> </tr> <tr> <td>Motor, as above + manual override</td> <td></td> </tr> </tbody> </table>	Roller Shutter Operation	Select one	Spring		Motor, Wired switch operation		Motor, as above + manual override	
	Roller Shutter Operation	Select one							
	Spring								
	Motor, Wired switch operation								
Motor, as above + manual override									

5 Tick box to select one only	<table border="1"> <thead> <tr> <th colspan="2">Bracket Fixing</th> </tr> </thead> <tbody> <tr> <td>  </td> <td>Wall Fix</td> </tr> <tr> <td>  </td> <td>Ceiling Fix</td> </tr> </tbody> </table>	Bracket Fixing			Wall Fix		Ceiling Fix
	Bracket Fixing						
	Wall Fix						
	Ceiling Fix						

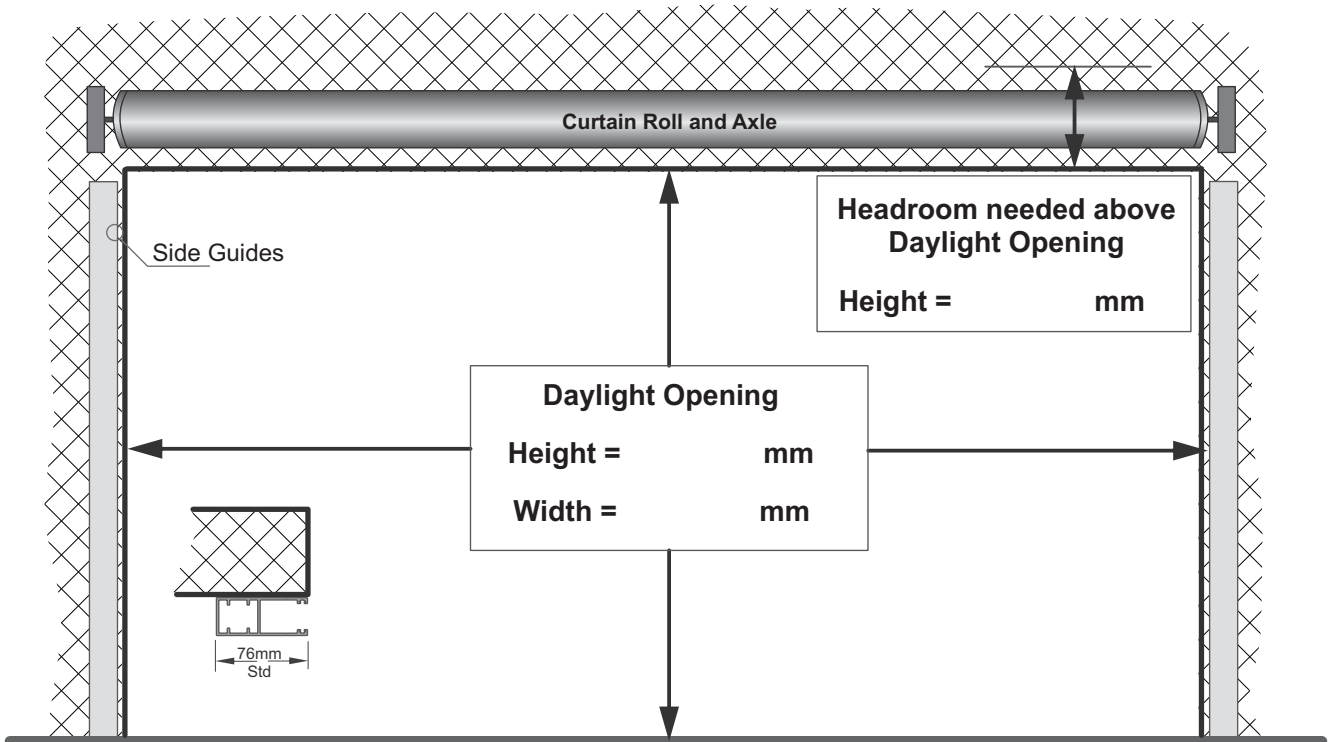
6 Tick box to select one only	<table border="1"> <thead> <tr> <th>Motor Position</th> <th>Select one</th> </tr> </thead> <tbody> <tr> <td>Motor at Right End</td> <td></td> </tr> <tr> <td>Motor at Left End</td> <td></td> </tr> </tbody> </table>	Motor Position	Select one	Motor at Right End		Motor at Left End		Motor Position Viewed from this side 
	Motor Position	Select one						
	Motor at Right End							
Motor at Left End								

7 Tick box to select - one only each	<table border="1"> <thead> <tr> <th>Keyed Side</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>Side A</td> <td></td> </tr> <tr> <td>Side B</td> <td></td> </tr> <tr> <td>Both Sides</td> <td></td> </tr> </tbody> </table>	Keyed Side	Select	Side A		Side B		Both Sides		<table border="1"> <thead> <tr> <th>Handle Side</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>Side A</td> <td></td> </tr> <tr> <td>Side B</td> <td></td> </tr> <tr> <td>Both Sides</td> <td></td> </tr> </tbody> </table>	Handle Side	Select	Side A		Side B		Both Sides		<table border="1"> <thead> <tr> <th>Lock Type</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>Manual Slide</td> <td></td> </tr> <tr> <td>Keyed Lock</td> <td></td> </tr> </tbody> </table>	Lock Type	Select	Manual Slide		Keyed Lock		<table border="1"> <thead> <tr> <th>Lock Location</th> <th>Enter, mm</th> </tr> </thead> <tbody> <tr> <td>Right of centre</td> <td></td> </tr> <tr> <td>Centre</td> <td></td> </tr> <tr> <td>Left of centre</td> <td></td> </tr> </tbody> </table>	Lock Location	Enter, mm	Right of centre		Centre		Left of centre	
	Keyed Side	Select																																
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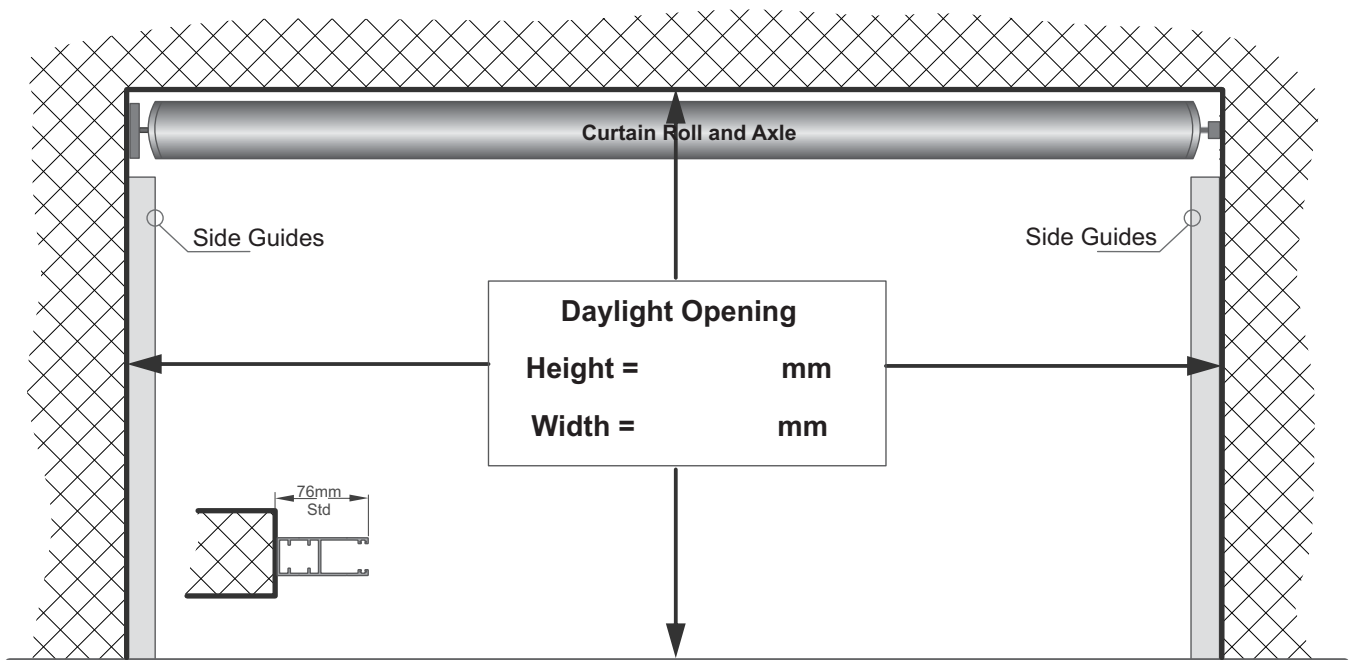
8 Comments

Use one order form per each Rollergrille order. Check all information carefully before sending this order.
Juralco will not commence production until a signed order has been received .
Remember , this is a one off custom unit made to your measurements and specifications.

Face Fix Configuration

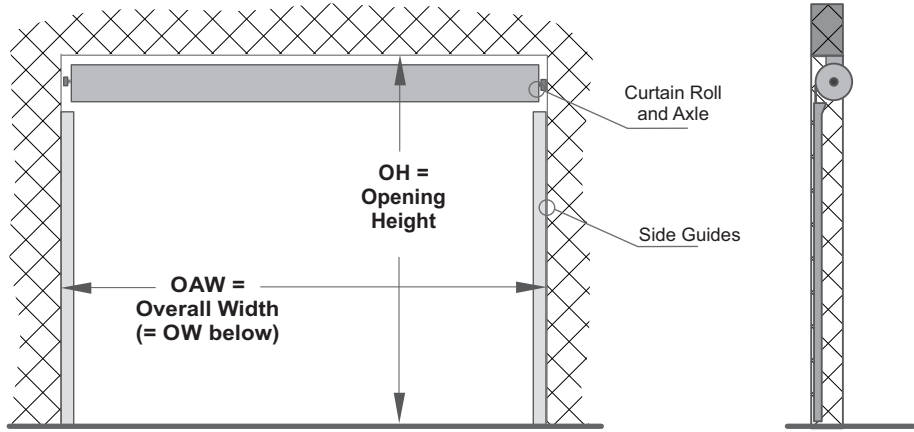


Reveal Fix Configuration



Juralco Knightguard Rollergrille Systems - Cutting Information

Cutting Allowances Reveal Fixing

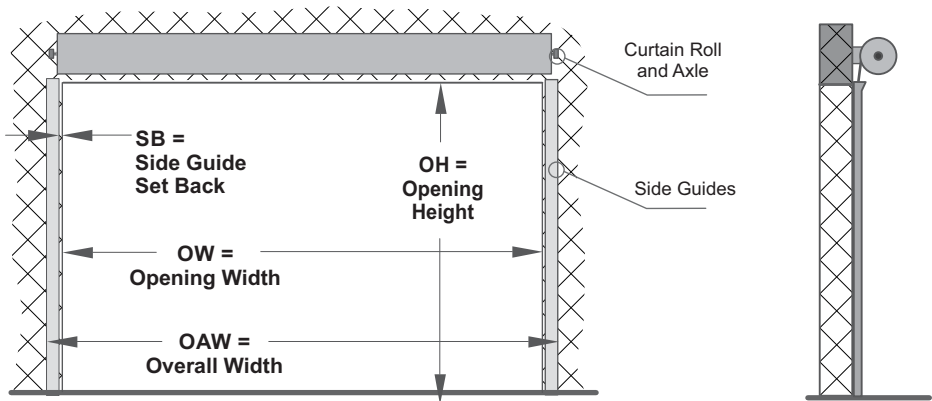


These calculations only for
76mm Side Guide KG 1006

WIDTHS			
	ITEM	PART	Formula in mm
1	Curtain Slat	Selected	OAW - 112
2	Bottom Rail	KG 1008	OAW - 92
3	Bottom Rail Back Plate	KG 1009	OAW - 162
4	Bottom Rail Foot	KG 1007	OAW - 172
5	Axle	KGV 6B4 4470	OAW - 112

HEIGHTS			
	ITEM	PART	Formula in mm
1	Side Guide	KG 1006	OH - 40 - RD max
			RD max = Roll dia max at full up

Cutting Allowances Face Fixing



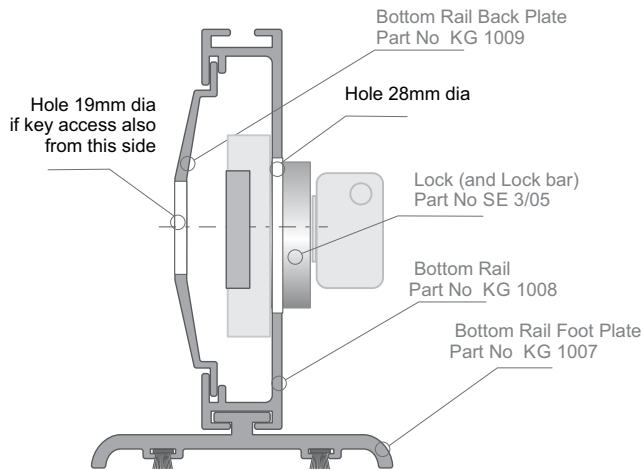
These calculations only for
76mm Side Guide KG 1006

WIDTHS			
	ITEM	PART	Formula in mm
1	Overall width = OAW		OW + 152 + 2 x SB
2	Curtain Slat	Selected	OAW - 112
3	Bottom Rail	KG 1008	OAW - 92
4	Bottom Rail Back Plate	KG 1009	OAW - 162
5	Bottom Rail Foot	KG 1007	OAW - 172
6	Axle	KGV 6B4 4470	OAW - 112

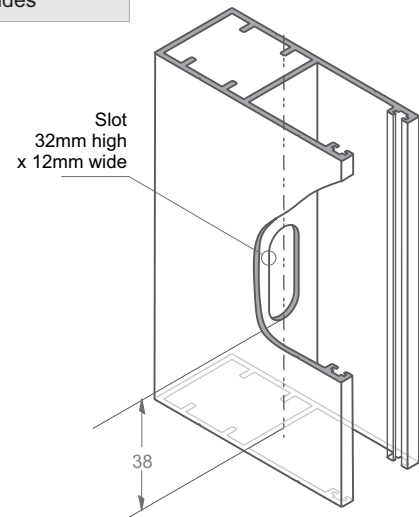
HEIGHTS			
	ITEM	PART	Formula in mm
1	Side Guide	KG 1006	OH + 40
2	Ceiling Height, min	NA	OH + 80 + RD max
			RD max = Roll dia max at full up

Juralco Knightguard Rollergrille Systems - Machining

Lock Machining Bottom Rail



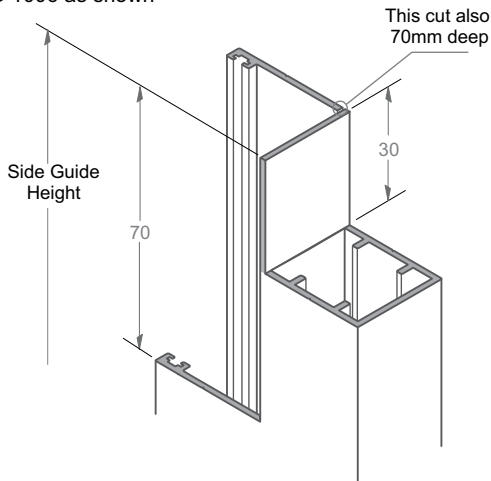
Lock Bar Slots Side Guides



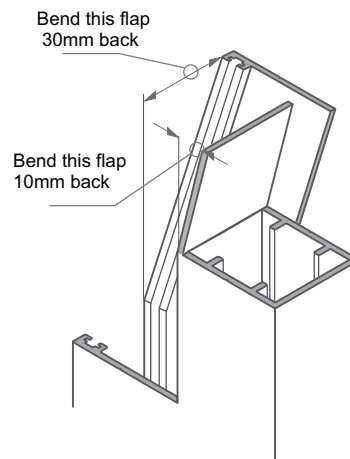
Flare for Side Guides

Right and Left hand pairs

1 - Cut 76mm side guide
KG 1006 as shown



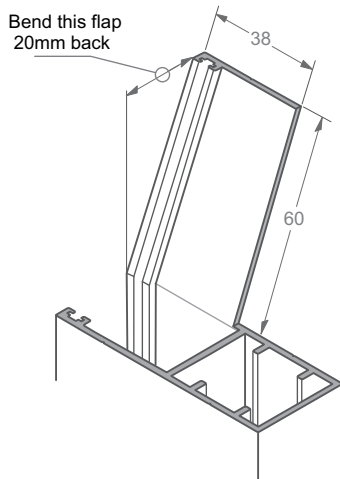
2 - Bend 76mm side guide
KG 1006 as shown



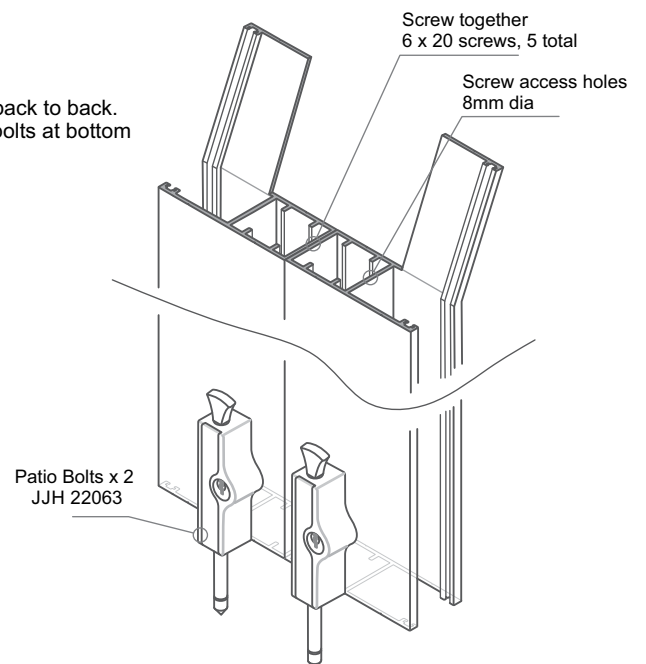
Removable Twin Mullions

Right and Left hand pairs

1 - Cut, Bend 76mm side guide
KG 1006 as shown



2 - Attach together back to back.
- Attach 2 x Patio bolts at bottom



Juralco Knightguard 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

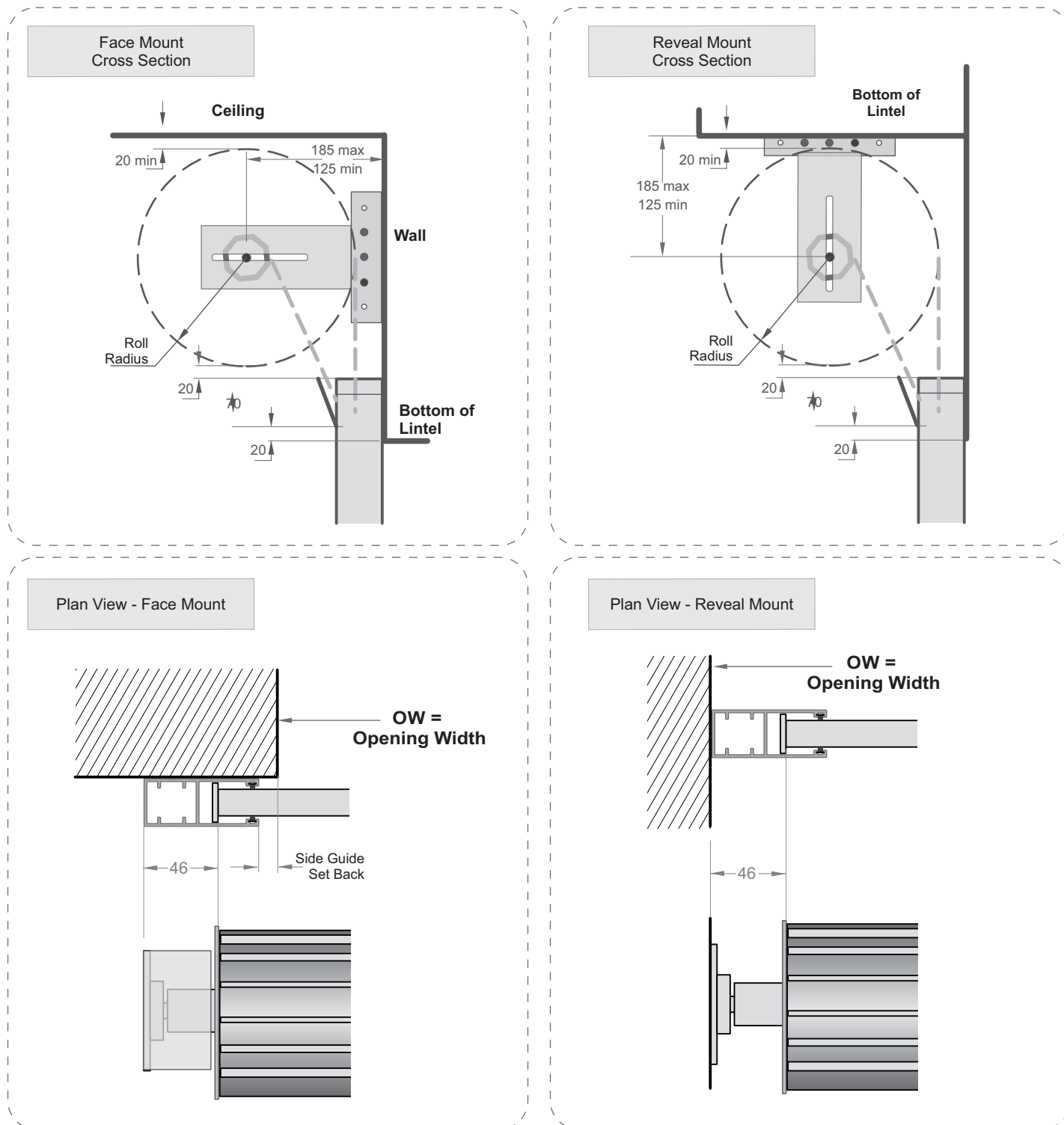
- a - Always keep some spare drill bits.
- b - Have all drill bits ready sharpened before commencing work.
- c - Have some touch-up paint with you.
- d - Have a piece of flat aluminium sheet of 2mm to 3mm thickness. You may need to improvise on site.
- e - Have a piece of side guide handy to help you 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.

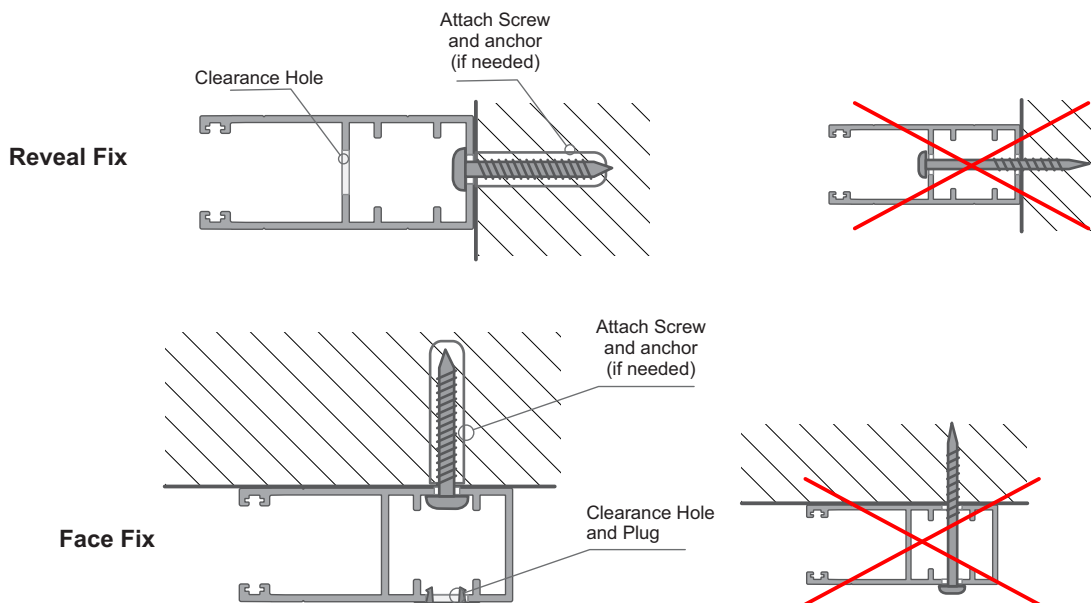
j - Always leave the installation (and site) in a clean and tidy condition.



Juralco Knightguard Rollergrille Systems - Installation

Attach Side Guides

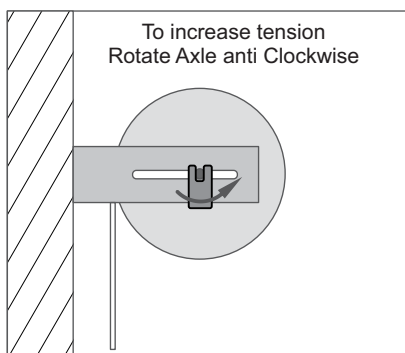
- a - If not drilling into timber, be sure to fix into full bricks or blocks and not into mortar joints.
 b - Use galvanised 10 gauge x 35mm screws as a minimum standard for fixing.
 For maximum security alternative security anchors should be used.



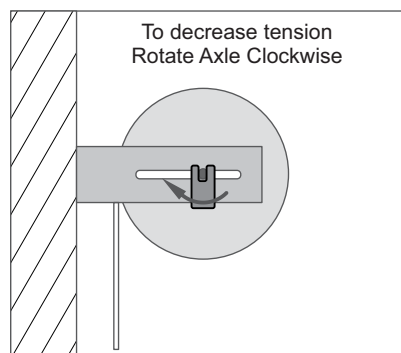
Side Guides should be square and parallel after fixing - pack out if necessary

Recommended Installation Procedure

- 1 - Unpack and check components.
- 2 - Measure roll diameter to establish the radius.
- 3 - Mark, and fix in place angle support brackets as per drawing on next page
 Note: Brackets must be level.
 Bracket fastening recommendation.
 Masonary M10 x 60mm Dynabolts. (2 per bracket, not supplied)
 Timber M10 x 50mm Coachscrews. (3 per bracket, supplied)
- 4 - Lift rollergrille onto brackets, spring end first. Position the roll so that the spring tension key is easily removable
- 5 - Adjust pin at other end of axle to fully engage into 42mm bearing. Apply Loctite, then tighten the allen screw.
- 6 - Fit tek screw through spring support bracket and spring axle.
- 7 - Position side guides, plumb and fix in place using 40 x 8g screws (supplied).
- 8 - With 1 person holding the roll firmly, tap out the tension key. Introduce the curtain into the side guides and pull down.
- 9 - All units are tested and pre-tensioned at Juralco, and should require no further adjustment. However, if tension adjustment is required, rotate the axle roll as shown below to increase or decrease the tension.



Remove Tension Before Rotating Axle, or trying to pull down door



Remove Tension Before Rotating Axle, or trying to pull down door

- 10 - To stop the roll at the correct height when lifted. Fix 120 x 50 x 3mm flat bar to the side guides with Monel rivets (supplied). As the curtain is raised, the bottom rail footplate will catch the flat bar

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 12 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 masked or covered 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 simple, regular 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:

1. Carefully remove any loose surface deposits with a wet sponge.
2. Use a soft brush (non abrasive) and a mild household detergent (do not use solvents) in warm water, remove dust, salt and other deposits.
3. 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