



Key benefits

System operation:

- reduces thermal heat gain by up to 93%¹, minimizes air conditioning costs
- maximizes interior daylight, reducing the need for artificial lighting
- controls solar glare to reduce eye irritation and improve working conditions
- optimizes shading at varying sun angles
- prevents potential UV damage
- manages privacy
- allows easy access for cleaning of glazing
- contributes to obtaining a high environmental green building rating for high performance, sustainability and unprecedented environmental innovation
- improves human well-being and productivity of employees.

Aluminum's innate properties alone reduce thermal transfer (heat and cold).

Aluminum's effective energy performance reduces the amount of floor space required for mechanical cooling/heating plant.

High quality and durable components:

- withstand snow/ice and other extreme weather conditions
- provide years of reliable operation with minimal maintenance.

High wind resistance system:

- headrail, slats, stainless steel cable guides and extruded aluminum bottom rail are engineered to withstand extreme wind loads. ²

Recycled content contributes to less greenhouse gas emissions during manufacturing.

Large range of materials, colours and finishes increases scope for architectural design choices.

Optional perforated louvers allow various degrees of openness to maintain exterior views even while closed.

Integration with all building management systems for eg. using BACnet®, Lonworks® and KNX® protocols. This contributes to lower energy consumptions, reduction of buildings carbon footprint and increase longevity of system.

Systems can be manufactured to accommodate large openings in order to reduce overall costs.

Manufacturing and component options cater for construction flexibility.

Control options can include the integration of image facade technology and FIM (Facade Intelligence Modelling), a function of the Climate Ready® Operating System.

BIM (Building Information Modelling) 3D modelling library enables professionals to visualize, analyze and document the integration of Retractable Horizontal Louvers into project proposals. The results demonstrate performance levels - costs, scheduling and environmental impact.

¹ Subject to three variables:

- 1 Glazed facade - single, double, ventilated or gas filled
- 2 Slat - size, color, finish and angle
- 3 Control system choice.

² Capability depends on orientation, terrain, installation method, and control type.



Retractable Horizontal Louvers - double skin facade. Insurance company headquarters.

Optional daylight control

The optional daylight control proves more effective for smaller floor spaces where work stations are situated closer to the glazing. Reflection on display screens is prevented, while improving the amount of daylight through the upper portions of the louvers.

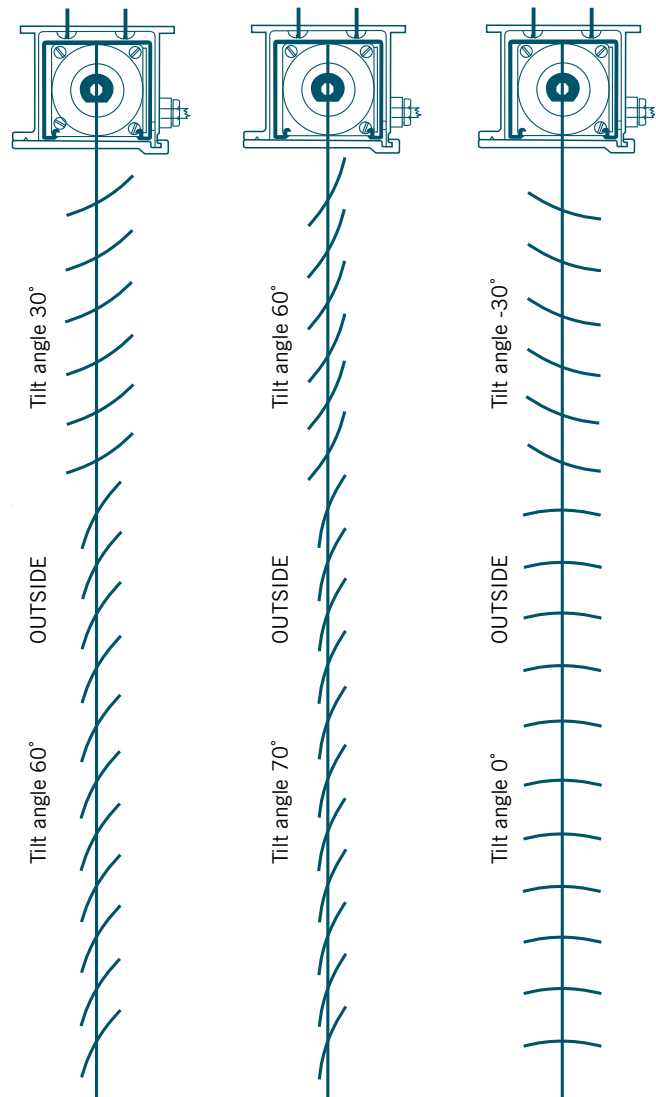
The ladder braid positioning allows upper slats to tilt at different angles to the bottom slats, resulting in an integrated 'light shelf' system that spreads natural light further into the building while still providing the solar performance of standard custom louvers.

Features

- ▶ Suitable for internal and external applications.
- ▶ Concave / convex combination - portion of the slats tilt in an open position turned downwards, and the other portion is open turned inwards.
- ▶ Full automation and sun-tracking capabilities via Climate Ready® Operating Systems or compatible systems.

Benefits

- ▶ Improved control of daylight and solar glare.
- ▶ Reduction in the use of artificial lighting.
- ▶ Can reduce energy consumption.





Floor fix standard termination.



Quick Release Mechanism (QRM) termination.



L-shaped face fix termination bracket.

Cable guides and termination brackets

Cable guides run through punched holes at both ends of the slat length, guiding the position of the slats. In addition, the cable guides limit the movement of the blinds in windy weather conditions, without causing excessive noise.

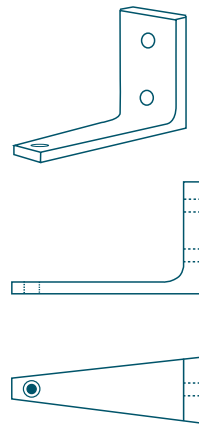
The cable guide is fastened to the top headrail by a double spring tension device and bottom fixed using a termination bracket via a m8 swage.

Additional intermediate cable guides are recommended for high wind areas and when blinds are wider than 118 1/9" (3,000 mm).

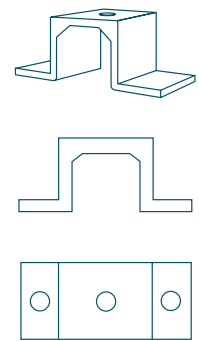
- Stainless steel cable with stainless steel mushroom head (316 marine grade). Diameter of cable 1/8" (3 mm).

Termination bracket fixing

- Fixed into standard aluminum termination bracket, finish 25 micron anodized size 4" (100 mm) or 6" (150 mm) using a m8 swage for bottom termination.
- Fixed into wood using threaded swage.
- Fixed into concrete or similar material using swage with a M8 bolt - 2" (50 mm) or 4" (100 mm) long.
- Custom fixings available.



L-shaped termination bracket x 2 sizes
4 1/3" long (110 mm)
6 3/7" in long (163 mm).

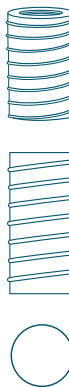


Top hat - Bottom termination bracket
1/8" (3 mm) wall thickness.



Stainless steel cable with stainless steel mushroom head.

m8 drop in anchor for bottom fix termination for concrete - 1 1/8" (30 mm).



S/S rampa screws for bottom fix termination for timber 5/7" & 1 1/16" (18 & 30 mm).



m8 swage for bottom termination 2" & 4" (50 & 100 mm).

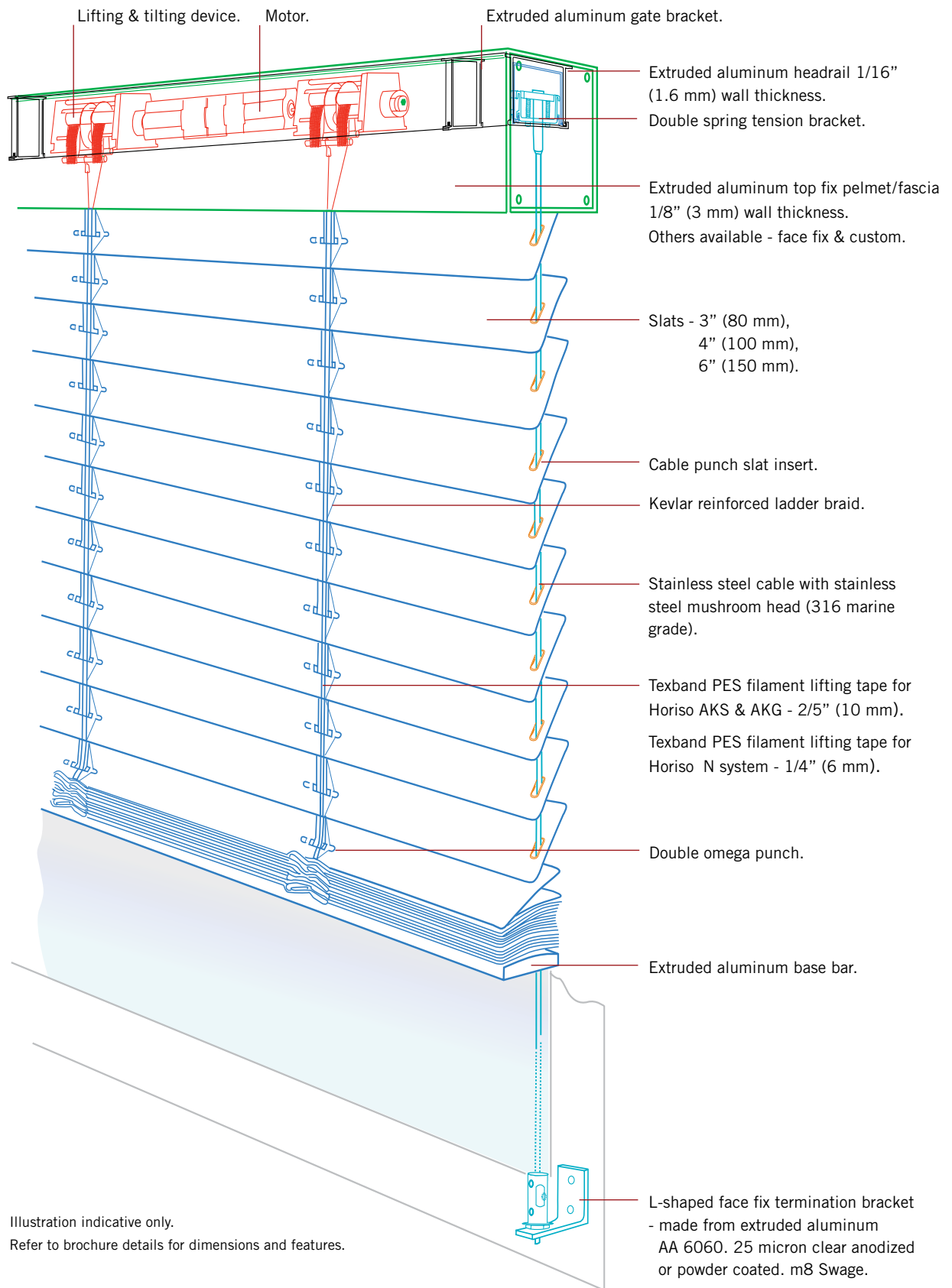
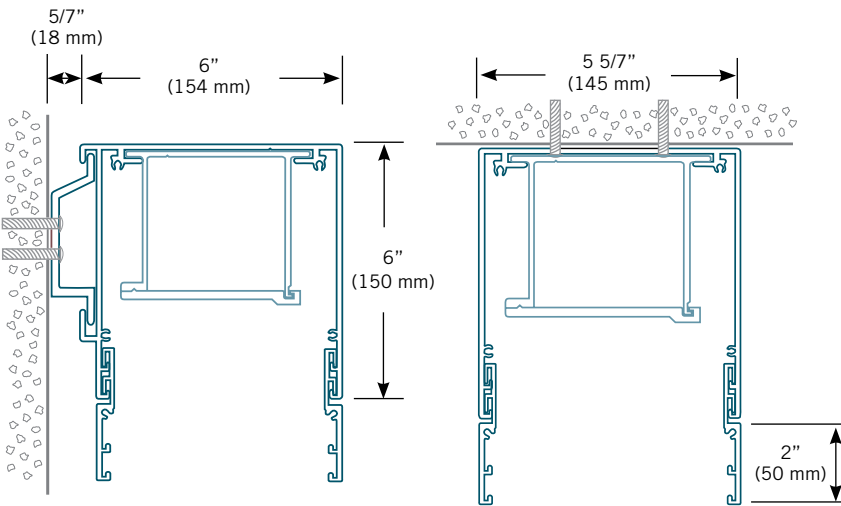


Illustration indicative only.
 Refer to brochure details for dimensions and features.



Face fix pelmet/fascia with 2" (50 mm) extension. Suitable for 3 1/7" and 4" slats only (80 and 100 mm).

Top fix pelmet/fascia with 2" (50 mm) extension. Suitable for 3 1/7" and 4" in slats only (80 and 100 mm).



Custom pelmet/fascia on a curved facade.

Pelmets / fascias

The aluminum extruded pelmet / fascia accommodates the headrail, slats and bottom bar. Pelmet/fascia is top or face fixed and supplied with end plates.

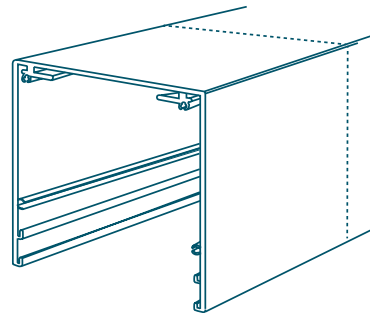
- Extruded aluminum 1/8" (3 mm) 25 micron clear anodized.
- Powder coated in standard or custom colors.
- Pelmet/fascia extensions are available in 2" (50 mm) increments (end plates are available up to 3 extensions. More than 3 are available on request).
- Pelmet/fascia fixing spacing is subject to site structure and cannot exceed 23 5/8 in (600 mm).
- Custom pelmet/fascia solutions available.

Pelmet/fascia weight in Lbs

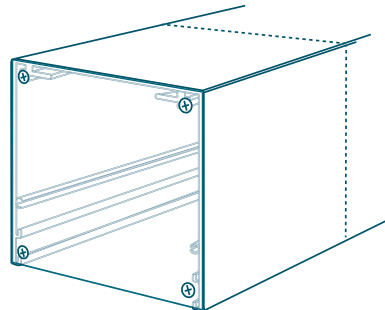
Extension Qty	Weight / feet
0	3.02 Lbs
1	4.10 Lbs
2	5.18 Lbs
3	6.23 Lbs

Pelmet/fascia weight in kgs

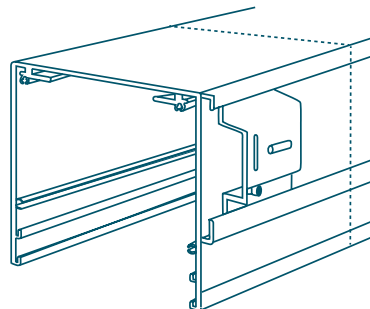
Extension Qty	Weight / metre
0	4.5 Kgs
1	6.1 Kgs
2	7.7 Kgs
3	9.3 Kgs



Top fix pelmet/fascia.



Top fix pelmet/fascia with end plate.



Face fix pelmet/fascia.



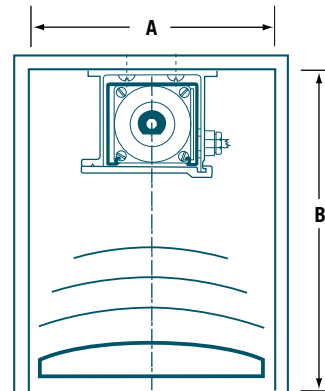
Retractable Horizontal Louvers - internal. University building.

System installation requirements

The recess requirements to accommodate the head-rail, retracted slats and base bar.*

A - Recess widths in / mm

Slat width	Minimum recess widths
3 1/7" / 80 mm	4 5/7" / 120 mm
4" / 100 mm	5 1/2" / 140 mm
6" / 150 mm	7 1/2" / 190 mm



B - Packing/Stacking heights in / mm

Total height of blind		Stacking height for different slat widths with AKS/ N and AKG systems							
		80 AK-S/N		80 AK-G		100 AK-S/N		100 AK-G	
in	mm	in	mm	in	mm	in	mm	in	mm
59	1,500	7	180	7 2/7	185	6 2/3	170	6 8/9	175
78 2/5	2,000	7 7/8	200	8	205	7 1/3	187	7 5/9	192
98 2/5	2,500	8 2/3	220	8 6/7	225	8	203	8 1/5	208
118	3,000	9 4/9	240	9 2/3	245	8 6/7	220	8 6/7	225
130	3,300	10	252	10 1/8	257	9	230	9 1/7	235
157 1/2	4,000	-	-	11 2/9	285	-	-	10 1/7	258
197	5,000	-	-	12 4/5	325	-	-	11 1/2	292
236 1/5	6,000	-	-	14 3/8	365	-	-	12 4/5	325
275 3/5	7,000	-	-	16	405	-	-	14	358
317 2/3	8,000	-	-	17 1/2	445	-	-	15 3/7	392
354 1/3	9,000	-	-	19	485	-	-	16 3/4	425

*Tables are indicative only

6 Standard colors



White - RAL 9016.



Light Silver - RAL 9006.



Dark Brown - RAL 8019.



Bronze - HOR 7140.



Silver Pearl - RAL 9007.



Storm Pearl - HOR 7043.

Aluminum slats

Crowned aluminum slats are made from a highly elastic alloy, making them flexible, scratch-proof and shock-proof. Metal slat gauge size of 1/56" (0.45 mm). Cable punch slat inserts are at both ends of every slat.

The double omega punch, (standard on external and double skin facade installations) in combination with the ladder braid ensures smooth closing of the louvers. They also retain slat alignment and stability in most weather conditions and minimize excessive movement. No additional plastic components are necessary to stabilise the louvers.

Pre-treatment

- ▶ AA 5050 marine grade with chromate conversion undercoat.

Standard finish

- ▶ PE3 - Polyester 3 layer coil coating.
- ▶ Double oven baked edge coating.

Optional finish

- ▶ "DecoWood" type finish.
- ▶ Other custom finishes available on request.

Colours

- ▶ 6 standard colors.
- ▶ Custom colors available on request.*

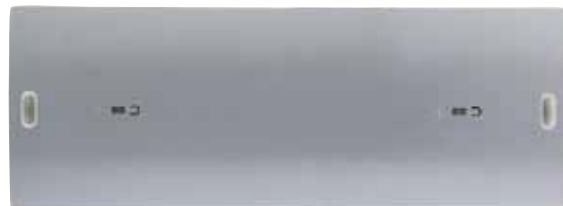
*Minimum quantity order may apply. Color sample reproduction is a guide only. Please consult your representative.



3" (80 mm) slat.



4" (100 mm) slat.



6" (150 mm) slat.

Standard slat widths

- ▶ 3", 4", & 6" (80 mm, 100 mm & 150 mm)
Solid or perforated are available in all louver widths.
- ▶ Custom louver widths available on request.