



ADVANTGES

Solar gain management

Control of solar gain with 4 times more light and ventilation in the home than a standard slat for optimal comfort in summer.

Exceptional visibility toward outside in the open position.

Regular micro-punching diffusing a soft and soothing light within the living rooms.

New functionalities

Safety functions and total opacity in the closed position for optimum sleeping comfort thanks to the development of our rubber seals integrated into our sliders.

Improved acoustic comfort when raising / lowering the apron.

Integrated insect screen and blind functions.

Available in PVC or aluminium.

Easy to implement

Manufacture and installation identical to a standard slat. **Ideal for large widths bay.**

REGISTERED TRADEMARK AND MODEL



The shape and aesthetics of Lame Bioclimatique® are protected at European level by the European Union Intellectual Property Office (EUIPO).



Lame Bioclimatique® is a trademark of Geplast Building and is registered with the Institut National de la Propriété Industrielle (INPI).

AVAILABLE COLOURS Lame Bioclimatique® & final slat

Please contact us to discover the other colors.

ALU LAQUERED COLOURS



Alu natural | RAL 9006 code : VR040AJ_AL9006

Grey 2900 sanded code : VR040AJ_AL2900S

Black 9005 code : VR040AJ_AL9005 Beige | RAL 1015 code : **VR040AJ_AL1015**

White | RAL 9016 code : **VR040AJ_AL9016**

Dark brown | RAL 8019 code : VR040AJ_AL8019

Light grey | RAL 7035 code : **VR040AJ_AL7035**

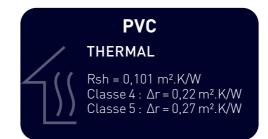
Black 2100 sanded code: VR040AJ AL2100S

Anthracite grey | RAL 7016 code : VR040AJ_AL7016

PVC COLORS MASS COLOURED

White | RAL 9016 code : VR040AJ_BL012

PERFORMANCES





Width Height	1000	1200	1400	1600
2250 mm	V*6	V*5	V*4	V*3
1400 mm	V*6	V*5	V*4	V*3





Width Height	0 to 2000	2100	2200	2300 to 2400	2500	2600 to 2800	2900	3000
2250 mm	V*6	V*5	V*5	V*5	V*4	V*4	V*3	V*3
1400 mm	V*6	V*6	V*6	V*5	V*5	V*4	V*4	V*4

LIGHT TRANSMISSION



Normal / hemispheric light transmission factor : $T_v^{nh} = 3\%$ (PV CSTB)

The bioclimatic slat, in the openwork position, is comparable to a awning fabric or ZIP blind in terms of light comfort and provides excellent glare control.

olar radiation transmittance inside the building, roller hutter closed				
ight colours (white, light grey)	(L* ≽82)	Sws = 0,05		
lark colours (brown black)	[[* <82]	Sws = 0.10		

AIR PERMEABILITY



The bioclimatic slat allows an airflow (overventilation that allows the air in the house to be cooled):

Qa = 939m³/h per m² of deck (PV CSTB)

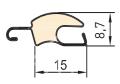
CORROSION RESISTANT

New, more corrosion-resistant ALU strip. Salt spray test (PV CSTB).

REFERENCES AND PACK SIZE

■ The apron must be tested vertically upwards and downwards before being installed on the customer's premises.

Lame Bioclimatique®



NEW -

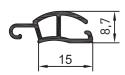
New 0.30mm strip, achevied with 99.5% recycled aluminium & more resistant to corrosion.

New high density foam 115Kg/m3 for exceptional rigidity

VR040AJ AL

Bioclimatic slat ALU openwork roller shutter 15 x8,7mm 65 bars of 6 ml / pack or 5 trays of 13 slides

Nominal thickness	8,7 mm
Working height	15 mm
Number of slats / m	67
Weight	5 Kg/m²
Max width	3 m
Max surface area	7 m^2
Standard length	6 m



VR040AJ

Bioclimatic slat ALU openwork roller shutter 15 x 8.7 mm 65 bars of 6 ml / pack or 5 trays of 13 slides 1950 bars of 6 ml/container or 150 trays of 13 slides

Nominal thickness	8,7 mm
Working height	15 mm
Number of slats / m	67
Weight	5 Kg/m²
Max width	1,6 m
Max surface area	3 m²
Standard length	6 m

Final slat

VR081F AL

Final slat 49 x 8,5 mm 10 bars of 6 ml / pack



LACQUERED COLORS IN STOCK





Satin anthracite 7016



+ other colours available, similar to those of Bioclimatic slat from 60ml upwards



AC120 NO004

Final slat seal 200mm roll

COLOR



Black

Installation



FoKus 235 box Timber frame assembly ALU bioclimatic slat nthracite grey 7016

WINDING DIAMETERS IN BOXES

	Maximum number of slats	Maximum height under box	Maximum winding Ø
IrYs	164	2450	Ø 200
FoKus 235	180	2700	Ø 200
FoKus 205	130	1950	Ø 180
FoKus 168	90	1350	Ø 145
GVR.e	150	2250	Ø 185
GVR.dL	150	2250	Ø 185
Reno City	100	1500	Ø 170
GVR.r	103	1550	Ø 160

The heights under the box are given as an indication and must be verified by tests in situ at the assembler's.

Rails and rubber seals

■ It is imperative to use the PVC/ALU guides, rubber seals and end slats without which GEPLAST declines all responsibility.

Designed and extruded in ABS and soft PVC for better resistance to heat and shrinkage, our rubber seals can be integrated with Geplast's PVC or ALU guiderails as well as with traditional and renovation guiderails on the market.

With Geplast ALU guide:



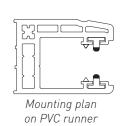
AC101 N0004 Black rubber seals 5.3 x 5.4 mm 50 bars of 6 ml / pack



With Geplast PVC guide:



AC102_N0004 Black rubber seals 6,7 x 5,4 mm 50 bars of 6 ml / pack



With traditional ALU guiderails and market renovations:

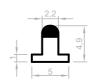


AC191 N0004

Black rubber seals 5 x 4.7 mm 50 bars of 6 ml / pack



AC117 N0004 Black rubber seals 6.7 x 5.1 mm 50 bars of 6 ml / pack



AC100 N0004

Black rubber seals 5 x 4.9 mm 50 bars of 6 ml / pack



AC118 N0004

Black rubber seals 6,7 x 4,7 mm 50 bars of 6 ml / pack



AC103 N0004

Black rubber seals 5 x5.1 mm 50 bars of 6 ml / pack



AC119 N0004

Black rubber seals 6,7 x 6 mm 50 bars of 6 ml / pack





NB: the bioclimatic slat is used with the PVC guide and the coextruded joint : JC10

In accordance with FFB guidelines, roller shutters, when deployed, can sometimes present a wavy appearance. This phenomenon is accentuated for large products. Find out more about the Quality Assessment Guide for roller shutters, available and downloadable from the websites: www.qeplast.fr and www. groupement-actibaie.org.

SPECIFIC MACHINES

Geplast has set up a partnership with manufacturers of machines and roller shutter end caps. These end caps, to be placed at the edges of the slats, offer many advantages:

- ◆ Reduced manufacturing time
- ◆ Easier to roll up the apron
- ◆ Keeping the slats in place against translation
- ◆ Anti-noise and anti-friction clamping system



Machine for cutting and assembling aluminium roller shutter apron



Manual stapler



Automatic stapler

RE2020



END CAP FOR 15 MM BIOCLIMATIC SLAT



The end cap is attached to the left and right ends of the PVC and ALU slats. Its role is to stop the horizontal translation of the slats in order to quarantee an optimal operation of the bioclimatic roller shutter.



ALU SLAT FORMING MACHINE

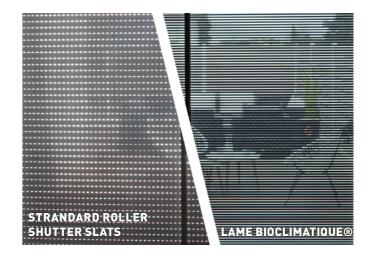
"This integration will enabled us to acquire new technical skills in-house and to fully control the production of our bioclimatic slat.

Made from 99.5% recycled aluminium strip, the Lame Bioclimatique® is part of a "responsible" approach. It enables us to meet the challenges of the RE2020, which now requires the control of ventilation and solar gain within homes".

> Maxime Grimault Sales & Marketing Director









"Classic" blade 43 mm

0.8 x 12mm openings 312mm² for 1m of slats 22 openwork slats for 1m height

> 6,900mm² for 1m², 0.7 % of openings



"Micro-perforated" blade

43 mm

Holes 1.5mm diameter 588mm² for 1m slats 22 openwork slats for 1m height

> 12 900mm² for 1m², 1.3 % of openings



Lame Bioclimatique®

15 mm

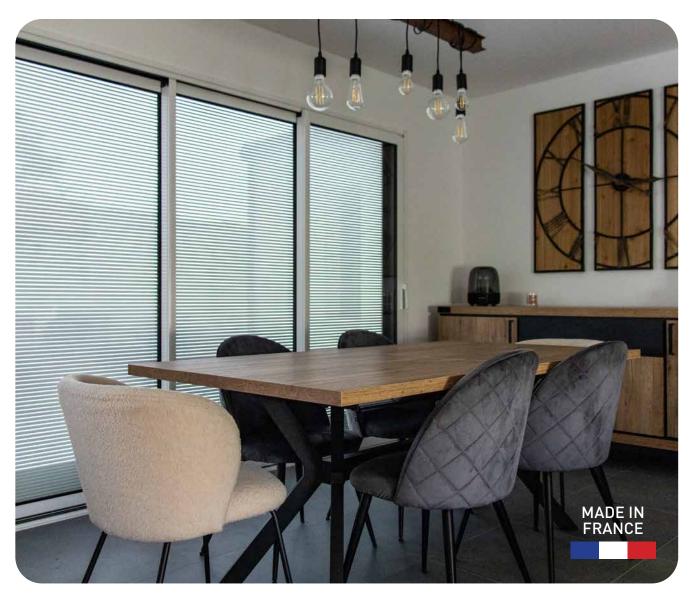
Holes 1.5mm diameter 588mm² for 1m of slats 52 openwork slats for 1m height

> 30 600mm² for 1m², 3% openings

> > 3/0,7 = 4,3

Bioclimatique slat therefore has 4x more light and air than a «conventional» blade.

Normal/hemispherical light transmission factor hemispherical: Tvnh = 3% (PV CSTB)







The data contained in this documentation is for information purposes only and only takes into account the wind resistance of the slats manufactured by Geplast in accordance with the test procedures on this subject in the European standard NF EN 13659:2004. Geplast can in no way be held responsible for the manufacture or installation of its products and/or their inappropriate use. Geplast cannot be held responsible for any interpretation of these results without verification by the assembler, taking into account his own manufacturing and/or the imposed installation context. It is the assembler's responsibility to check the compatibility of the boards with DTU 34-2 FD P 25-202 and EN 13659:2004 available from AFNOR and CSTB. The present information does not release the assembler from the duty to carry out the tests requested in the NF EN 1369 standard on his products in order to affix the CE mark.