

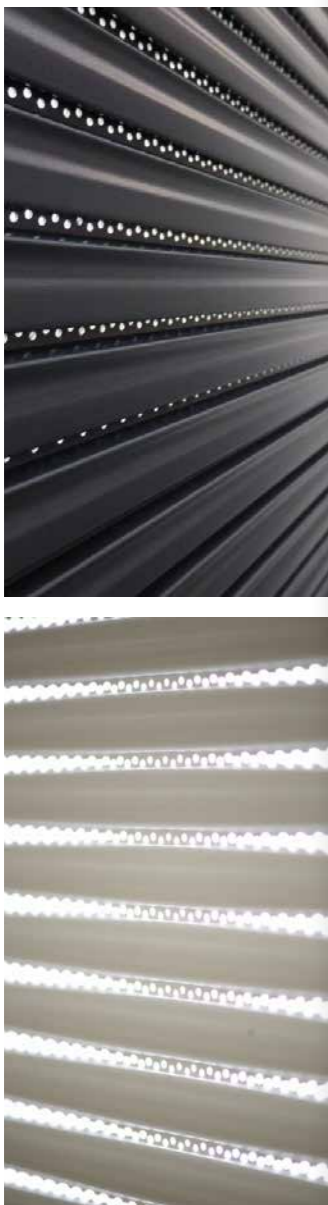


Lame Bioclimatique®

TRADEMARK & DESIGN REGISTERED

*A Geplast Building innovation*





### 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.

◆ *Easy to implement*


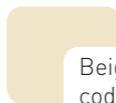
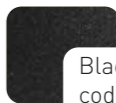





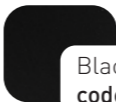
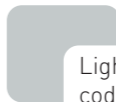
Manufacture and installation identical to a standard slat.  
**Ideal for large widths bay.**

### AVAILABLE COLOURS


#### Lame Bioclimatique® & final slat

Please contact us to discover the other colors.

#### ALU LAQUERED COLOURS

 Umber grey   RAL 7022 code : VR040AJ_AL7022	 Beige   RAL 1015 code : VR040AJ_AL1015	 Black 2100 sanded code : VR040AJ_AL2100S
 Alu natural   RAL 9006 code : VR040AJ_AL9006	 White   RAL 9016 code : VR040AJ_AL9016	 Anthracite grey   RAL 7016 code : VR040AJ_AL7016
 Grey 2900 sanded code : VR040AJ_AL2900S	 Dark brown   RAL 8019 code : VR040AJ_AL8019	
 Black 9005 code : VR040AJ_AL9005	 Light grey   RAL 7035 code : VR040AJ_AL7035	

### PERFORMANCES



#### THERMAL

Rsh = 0,01 m².K/W  
 Classe 4 : ΔR = 0,15 m².K/W  
 Classe 5 : ΔR = 0,18 m².K/W



#### AERAULICS

Safety pressure classes 1.5p (N/m²)  
 Tests as an indication

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

### 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).

#### LIGHT TRANSMISSION



Normal / hemispheric light transmission factor :  
**T<sub>v</sub><sup>nh</sup> = 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.

Solar radiation transmittance inside the building, roller shutter closed		
Light colours (white, light grey...)	(L* ≥82)	Sws = 0,05
Dark colours (brown, black, ...)	(L* ≤82)	Sws = 0,10

#### AIR PERMEABILITY



The bioclimatic slat allows an airflow (over-ventilation that allows the air in the house to be cooled):  
**Qa = 939m³/h per m² of deck** (PV CSTB)

#### CORROSION RESISTANT

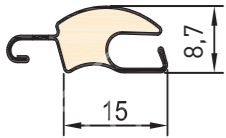
New, more corrosion-resistant ALU strip.  
 Salt spray test (PV CSTB).

REFERENCES AND PACK SIZE

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

Lame Bioclimatique®

ALU



**NEW**  
New 0.30mm strip, achieved with 99.5% recycled aluminium & more resistant to corrosion.  
New high density foam 115Kg/m3 for exceptional rigidity

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 m²
Standard length	6 m

VR040AJ\_AL

Bioclimatic slat ALU openwork roller shutter 15 x 8,7mm  
65 bars of 6 ml / pack or 5 trays of 13 slides

Final slat

VR081F\_AL  
Final slat 49 x 8,5 mm  
10 bars of 6 ml / pack



LACQUERED COLORS IN STOCK

Gloss white 9016

Satin anthracite 7016

Gloss

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

AC120\_N0004  
Final slat seal  
200mm roll

COLOR

Black

Installation



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

	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

Mounting plan on ALU runner

With Geplast PVC guide :

AC102\_N0004  
Black rubber seals  
6,7 x 5,4 mm  
50 bars of 6 ml / pack

Mounting plan on PVC runner

With traditional ALU guiderails and market renovations :

AC191\_N0004  
Black rubber seals  
5 x 4,7 mm  
50 bars of 6 ml / pack

AC100\_N0004  
Black rubber seals  
5 x 4,9 mm  
50 bars of 6 ml / pack

AC103\_N0004  
Black rubber seals  
5 x 5,1 mm  
50 bars of 6 ml / pack

AC117\_N0004  
Black rubber seals  
6,7 x 5,1 mm  
50 bars of 6 ml / pack

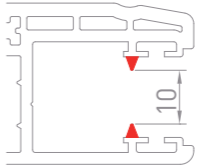
AC118\_N0004  
Black rubber seals  
6,7 x 4,7 mm  
50 bars of 6 ml / pack

AC119\_N0004  
Black rubber seals  
6,7 x 6 mm  
50 bars of 6 ml / pack

ALU



Assembly of the rubber seal on PVC guiderail



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.geplast.fr](http://www.geplast.fr) and [www.groupeement-actibaie.org](http://www.groupeement-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

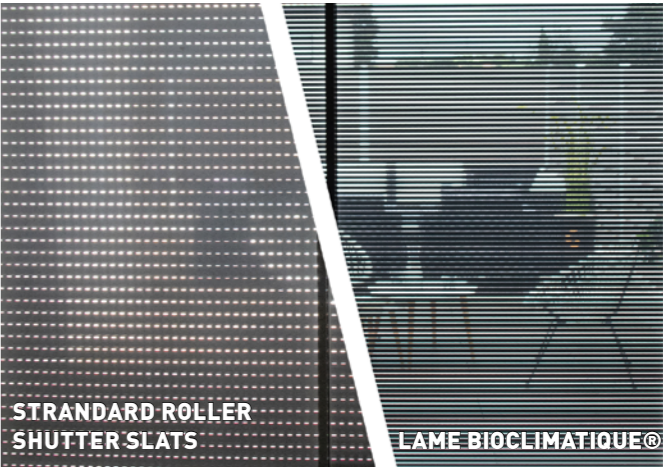


END CAP FOR 15 MM BIOCLIMATIC SLAT



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

COMPARISON  
ROLLER  
SHUTTER  
SLATS



"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: T<sub>vn</sub>h = 3% (PV CSTB)

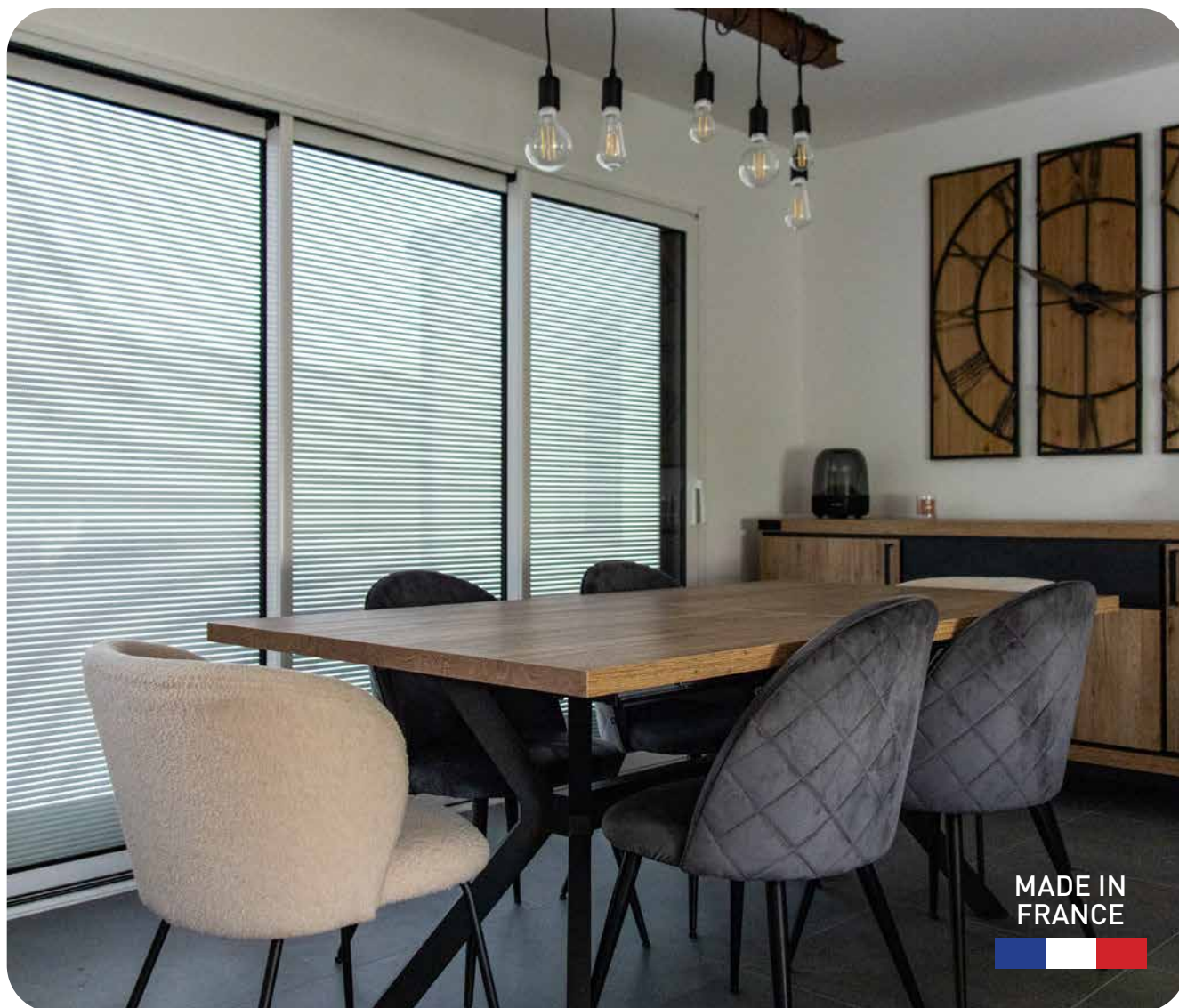


ALU SLAT FORMING MACHINE

"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



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*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.*

Non-binding document. We reserve the right to make any changes we deem necessary at any time in order to improve our profiles.

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