

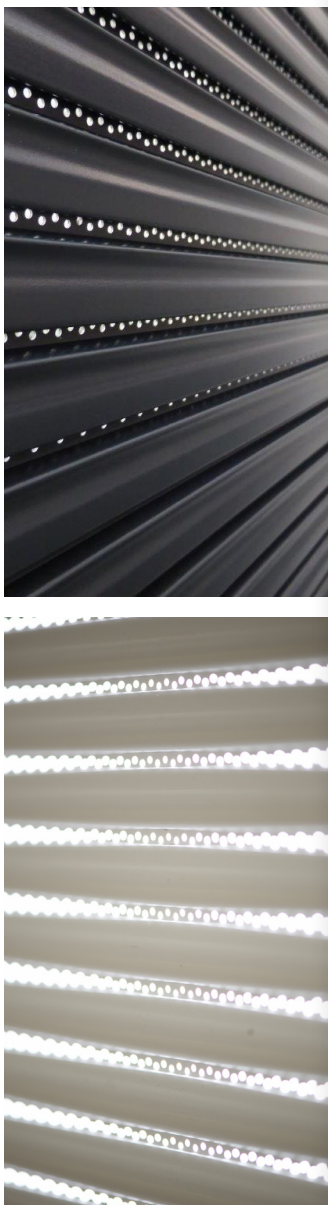


Lame Bioclimatique®

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

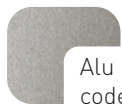
Please contact us to discover the other colors.

ALU

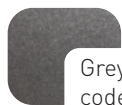
LAQUERED COLOURS



Umber grey | RAL 7022
code : VR040AJ_AL7022



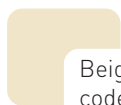
Alu natural | RAL 9006
code : VR040AJ_AL9006



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

PERFORMANCES



AERAULICS

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



THERMAL

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

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_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.

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

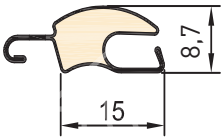
New, more corrosion-resistant ALU strip.
Salt spray test (PV CSTB).

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,
achevied 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

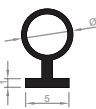


Satin anthracite 7016



Gross

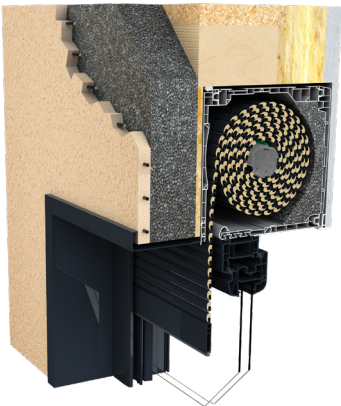
+ other colours available, similar to those of
Bioclimatic slat from 60ml upwards



AC120_N0004
Final slat seal
200mm roll

COLOR
Black

Installation



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

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

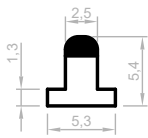
The heights under the box are given as an indication and must be
verified by tests in situ at the assembler's.

Rails and rubber seals

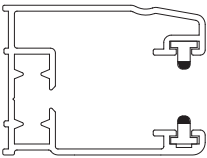
■ It is imperative to use the PVC/ALU guides, rubber seals and end slats
without which GEPLAST declines all responsibility.

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 :

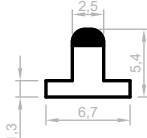


AC101_N0004
Black rubber seals
5,3 x 5,4 mm
50 bars of 6 ml / pack

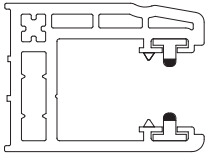


Mounting plan on
ALU runner

With Geplast PVC guide :

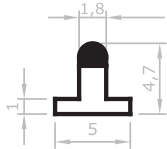


AC102_N0004
Black rubber seals
6,7 x 5,4 mm
50 bars of 6 ml / pack

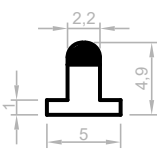


Mounting plan
on PVC runner

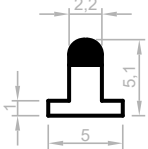
With traditional ALU guiderails and market renovations :



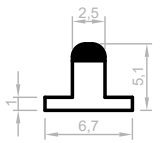
AC191_N0004
Black rubber seals
5 x 4,7 mm
50 bars of 6 ml / pack



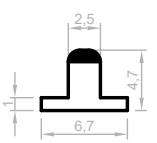
AC100_N0004
Black rubber seals
5 x 4,9 mm
50 bars of 6 ml / pack



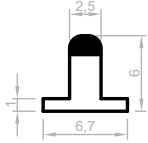
AC103_N0004
Black rubber seals
5 x 5,1 mm
50 bars of 6 ml / pack



AC117_N0004
Black rubber seals
6,7 x 5,1 mm
50 bars of 6 ml / pack



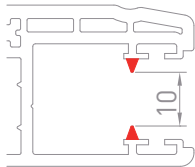
AC118_N0004
Black rubber seals
6,7 x 4,7 mm
50 bars of 6 ml / pack



AC119_N0004
Black rubber seals
6,7 x 6 mm
50 bars of 6 ml / pack



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 and 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 :

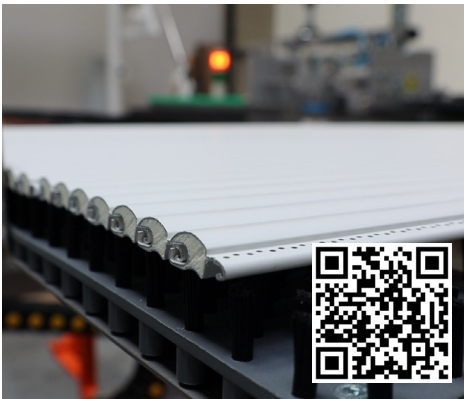
- ◆ Reduced manufacturing time
- ◆ Easier to roll up the apron
- ◆ Keeping the slats in place against translation
- ◆ Anti-noise and anti-friction clamping system



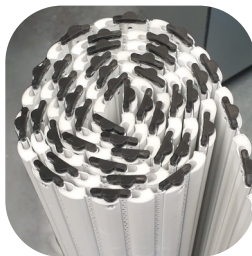
Machine for cutting and assembling aluminium roller shutter apron



Manual stapler



Automatic stapler



END CAP FOR 15 MM BIOCLIMATIC SLAT

AC079
10 000 pieces/box



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.

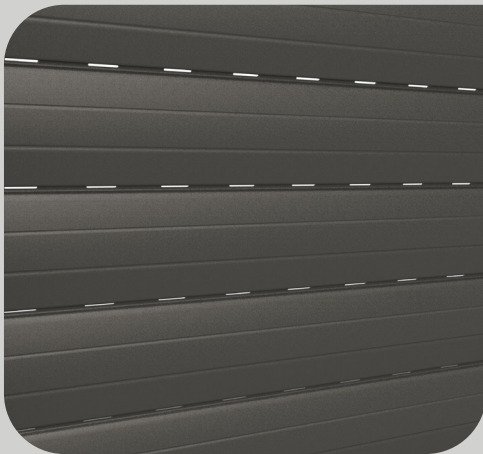
COMPARISON ROLLER SHUTTER SLATS

VIDÉO
BIOCLIMATIC SLAT



STRANDARD ROLLER
SHUTTER SLATS

LAME BIOCLIMATIQUE®



"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



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: $T_{vnh} = 3\%$ (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



GEPLAST SAS

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www.geplast.fr

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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