

# Wind fact sheet – France

## External venetian blinds

**Metalunic® V | Metalunic® V Sinus | Grinotex® III | Grinotex® III Sinus | Aluflex® | Lamisol® III | Lamisol® III Vento | Lamisol® III System | Solomatic® II | Solomatic® II System**

Product	Permissible wind resistance class limit values <sup>1</sup>								
	Width (mm)	1500	2000	2500	3000	3500	4000	4500	5000
Metalunic® V / Metalunic® V Sinus	[7]	[7]	[7]	[7]	[7]	6	-	-	-
Grinotex® III / Grinotex® III Sinus	6	6	5	4	3	3	2	2	
Lamisol® III 70	6	6	5	4	4	4	3	-	
Lamisol® III 90	6	6	6	5	5	5	3	-	
Lamisol® III Vento	[8]	[7]	[7]	6	-	-	-	-	
Lamisol® III System 70	6	6	5	4	4	4	3	-	
Lamisol® III System 90	6	6	6	5	5	5	3	-	
Solomatic® II with guide rail	6	6	5	5	4	4	2	-	
Solomatic® II with guide cable <sup>3</sup>	6	4	4	4	(3)	(3)	(3)	-	
Solomatic® II System	6	6	5	5	4	4	2	-	
Aluflex® 60 with guide rail <sup>2</sup>	4	4	3	(3)	(3)	(3)	(3)	(3)	
Aluflex® 80 with guide rail <sup>2</sup>	4	4	3	(3)	(3)	(3)	(3)	(3)	
Aluflex® 60 with guide cable <sup>3</sup>	4	4	4	3	(3)	(3)	(3)	(3)	
Aluflex® 80 with guide cable <sup>3</sup>	5	4	4	4	(3)	(3)	(3)	(3)	

<sup>1</sup> Tests in accordance with product standard EN 13659. Product limit dimensions in accordance with data sheet.

<sup>2</sup> from 2500 with additional cable

<sup>3</sup> from 3000 with additional cable

[ ] No wind resistance class in accordance with product standard, see below for significance.

( ) Tests not possible in accordance with product standard. Values from own tests / practical experience.

### The values in the table apply with the following reservations:

- Product dimensions and use comply with the Griesser technical data sheet.
- Installation, fastening and operation are carried out in accordance with installation and operating instructions.
- The products should be installed in the soffit / directly on the facade, with the curtain <100mm away from the facade.
- If the distance from the facade is between 100 and 300mm, the value in the table must be reduced by 1 class.
- If the distance from the facade is between 300 and 500mm, the value in the table must be reduced by 2 classes. Furthermore, the table cannot be applied.



### Instructions for automatic solar shading

The external venetian blinds cannot be protected with wind sensors against sudden gusts of wind. Make sure that the external venetian blinds remain retracted if a storm is imminent. Updrafts or fallwinds at facades could lead to the destruction of the external venetian blinds. Wind sensors cannot detect these as a rule.

### Setting values for sensors according to producer

Sensors fitted next to product.

Class 0	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class [7]	Class [8]
<9.0 m/s	9.0 m/s	10.7 m/s	12.8 m/s	16.7 m/s	21.0 m/s	25.6 m/s	29.2 m/s	33.3 m/s
<28 km/h	32.5 km/h	38.5 km/h	46 km/h	60 km/h	76 km/h	92 km/h	105 km/h	120 km/h

[ ] No wind resistance class in accordance with product standard.



## Planning Notes

### Wind speed limit values [km/h] depending on the terrain category and the installation height (DTU 34.4 P3)

Wind load zone	Terrain category*	Installation height [m]					Wind load zone	Terrain category*	Installation height [m]				
		≤9	≤18	≤28	≤50	≤100			≤9	≤18	≤28	≤50	≤100
1	0	45	49	51	53	56	Guadeloupe	0	74	79	83	87	92
	II	41	44	47	50	54		II	67	73	77	82	88
	IIIa	36	40	43	46	51		IIIa	59	66	70	76	83
	IIIb	31	36	39	43	47		IIIb	51	59	64	70	78
	IV	31	32	35	39	44		IV	50	52	57	64	72
2	0	50	53	55	58	61	French Guiana	0	35	38	39	41	44
	II	44	49	51	55	59		II	31	34	36	39	42
	IIIa	39	44	47	51	55		IIIa	28	31	33	36	39
	IIIb	34	39	43	47	52		IIIb	24	28	30	33	37
	IV	33	35	38	43	48		IV	24	25	27	30	34
3	0	58	62	64	68	72	Martinique	0	66	71	74	77	82
	II	48	53	55	59	64		II	59	65	68	73	78
	IIIa	42	48	51	55	60		IIIa	52	58	62	68	74
	IIIb	37	43	46	51	56		IIIb	46	52	57	62	69
	IV	36	38	41	46	52		IV	44	47	51	57	64
4	0	58	62	64	68	72	Mayotte	0	62	66	69	73	77
	II	52	57	60	64	69		II	55	61	64	68	73
	IIIa	46	51	55	59	64		IIIa	49	55	59	63	69
	IIIb	40	46	50	55	60		IIIb	43	49	53	59	65
	IV	39	41	45	50	56		IV	42	44	48	53	60
							Réunion	0	70	75	78	82	87
								II	63	69	73	77	83
								IIIa	55	62	66	72	78
								IIIb	48	56	60	66	73
								IV	47	49	54	61	68

\* Terrain categories

0 Sea or coastal area exposed to onshore winds, lakes and water bodies exposed to winds across a distance of at least 5km.

II Plain countryside with or without isolated obstacles (trees, buildings, etc.) which are separated from each other by more than 40 times their height.

IIIa Countryside with hedgerows, vineyards, hedges, dispersed housing.

IIIb Urbanized or industrial zones, dense hedges, groves.

IV Urban zones with at least 15% of the surface covered with buildings with an average height of more than 15m, forests.

### Note

This clause is based on common types of buildings and can only provide general recommendations. The contractors must verify that, on the one hand, local climate conditions (in cases of construction in the mountains, above different levels of altitude, etc.) and, on the other hand, the shape of the building (in cases of non-planar facades, significant recesses, etc.) and its location in relation to other buildings (in particular in the case of heights greater than 50m), do not necessitate the use of performance closures other than those indicated below across the entire facade or on parts of the facade.

Facade awnings are not designed to withstand strong winds. The wind speeds indicated in the table above allow for a service rate of approximately 90% to be reached. If the project manager wishes to increase this service rate, a product from a higher category must be chosen.



### Important!

The decision-maker must choose a product with a permissible wind speed (see p. 1) equal to or higher than the wind speed indicated in the table above and that has been adjusted to any potential characteristics of the installation site. This document is a reference sheet; please refer to DTU 34.4 for detailed instructions on the rules of application.

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