

Wind fact sheet – Spain

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 ¹								
	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 ³	6	4	4	4	(3)	(3)	(3)	-	
Solomatic® II System	6	6	5	5	4	4	2	-	
Aluflex® 60 with guide rail ²	4	4	3	(3)	(3)	(3)	(3)	(3)	
Aluflex® 80 with guide rail ²	4	4	3	(3)	(3)	(3)	(3)	(3)	
Aluflex® 60 with guide cable ³	4	4	4	3	(3)	(3)	(3)	(3)	
Aluflex® 80 with guide cable ³	5	4	4	4	(3)	(3)	(3)	(3)	

¹ Tests in accordance with product standard EN 13659. Product limit dimensions in accordance with data sheet.

² from 2500 with additional cable

³ 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

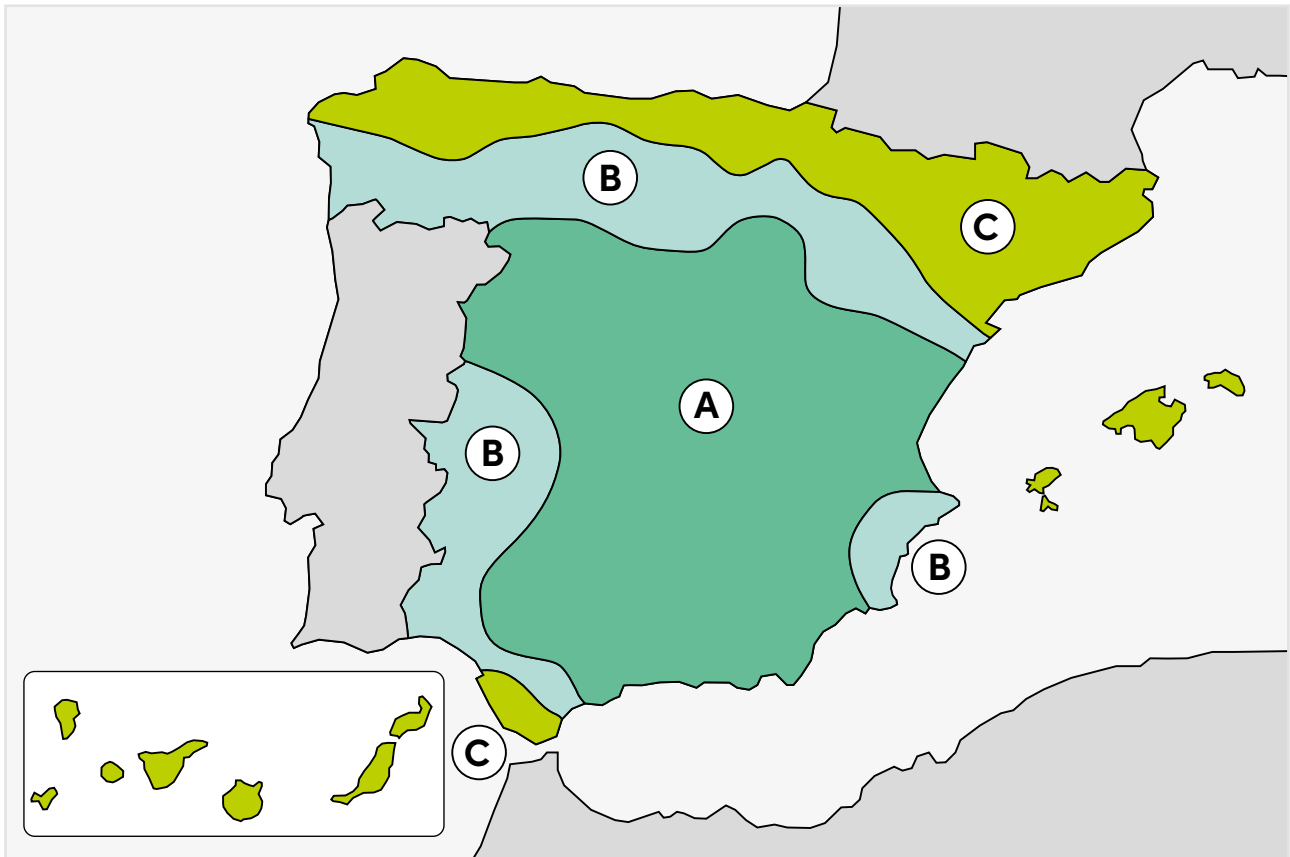
Sensors fitted next to product.




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 load zones



-  Wind load zone A: 26
-  Wind load zone B: 27
-  Wind load zone C: 29

Planning Notes

Wind resistance classes depending on the category of terrain and the installation height

Wind load zone	Terrain category*	Installation height [m]				
		≤9	≤18	≤28	≤50	≤100
A	I	4	4	4	4	5
	II	4	4	4	5	5
	III	4	4	4	4	5
	IV	3	3	4	4	4
	V	2	3	3	4	4
B	I	4	4	4	5	5
	II	4	4	4	5	5
	III	4	4	4	5	5
	IV	3	4	4	4	5
	V	2	3	3	4	4
C	I	4	5	5	5	5
	II	4	5	5	5	5
	III	4	4	5	5	5
	IV	3	4	4	5	5
	V	2	3	4	4	5

* Terrain category

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

II Plain countryside with or without isolated obstacles (trees, buildings, etc.).

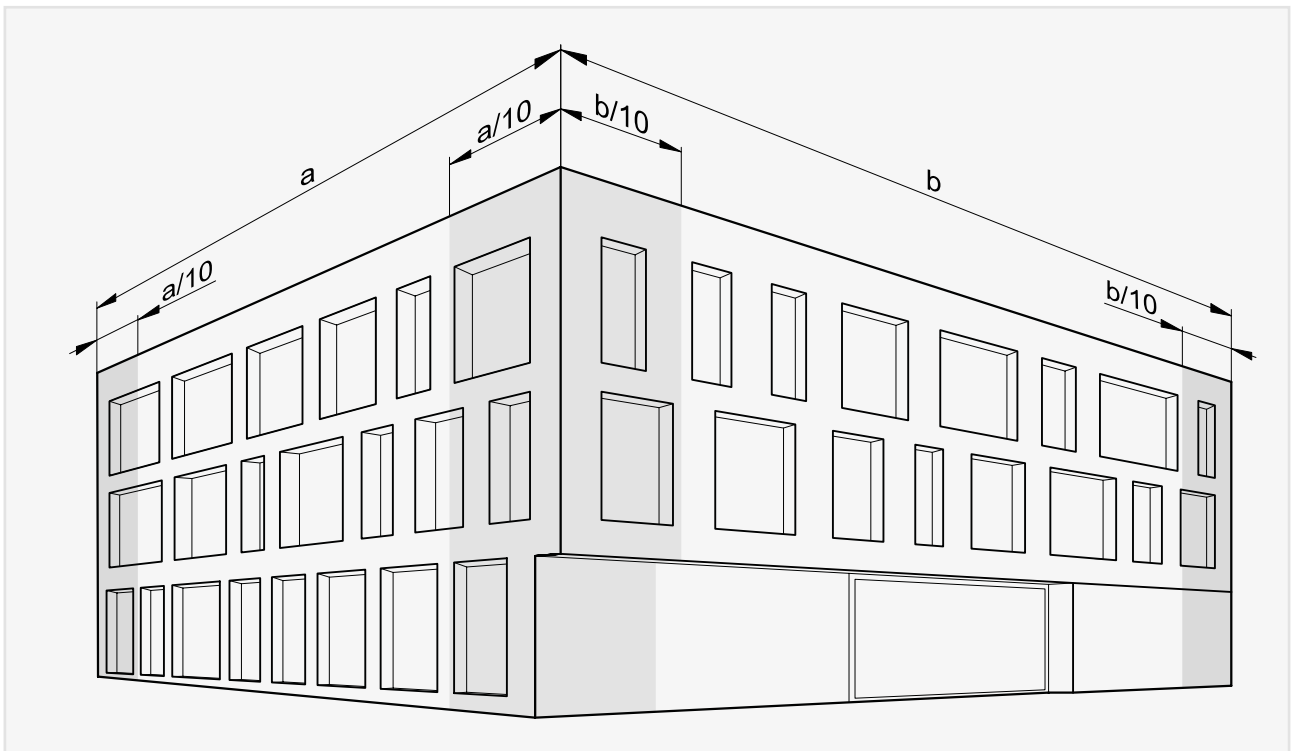
III Rugged or flat rural area with some isolated obstacles, such as trees or small buildings.

IV Urban area in general, industrial or forest.

V The business centre of large cities, with a profusion of high-rise buildings.

Higher wind resistance class

Wind speeds can be considerably higher at building corners and should be taken into consideration. Separate proof must be submitted for buildings without a square floor plan or buildings above 1100 m ground level.



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