

# Wind fact sheet – Germany

## 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 load zones (DIN EN 1991-1-4 / NA)



## Planning Notes

### Wind resistance classes depending on the terrain category and the installation height (DIN EN 1991-1-4/NA)

Wind load zone	Terrain category*	Installation height [m]				
		≤9	≤18	≤28	≤50	≤100
1	I Open sea	3	3	4	4	4
	II Agricultural areas	3	3	3	4	4
	III Urbanized or industrial zones	2	2	3	3	4
	IV Urban zones	1	1	2	3	3
2	I Open sea	4	4	4	4	5
	II Agricultural areas	3	4	4	4	4
	III Urbanized or industrial zones	2	3	3	4	4
	IV Urban zones	2	2	3	3	4
3	I Open sea	4	4	4	4	5
	II Agricultural areas	4	4	4	4	5
	III Urbanized or industrial zones	3	3	4	4	4
	IV Urban zones	2	3	3	4	4
4	I Open sea	4	5	5	5	5
	II Agricultural areas	4	4	4	5	5
	III Urbanized or industrial zones	3	4	4	4	5
	IV Urban zones	3	3	3	4	4

\* Terrain categories (DIN EN 1991-1-4/NA)

I Open sea | Lakes with at least 5km free area in wind direction | Smooth, flat terrain without obstacles

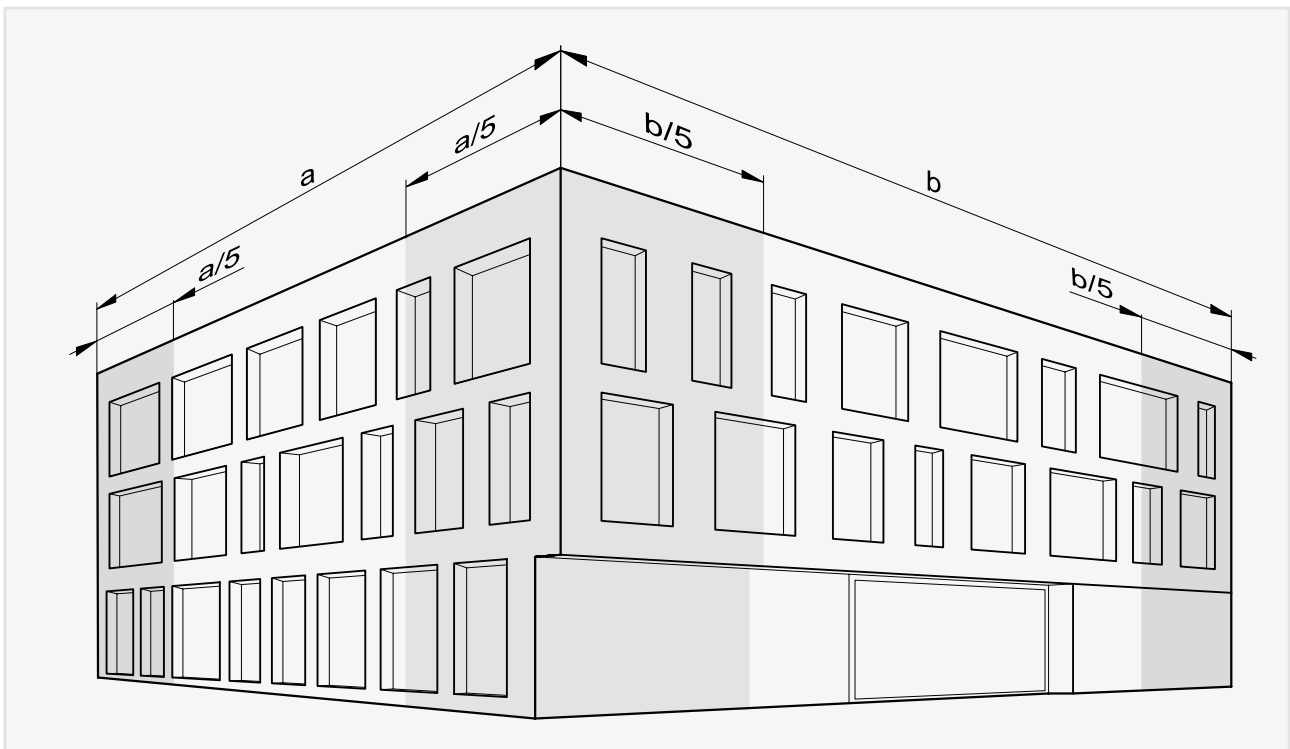
II Agricultural areas | Terrain with hedges, individual farmsteads, houses or trees

III Urbanized or industrial zones | Forests

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

### 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 800m above sea level, separate proof must be provided in accordance with the standard.



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