

# Wind fact sheet – Austria

## 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.

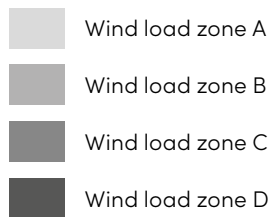
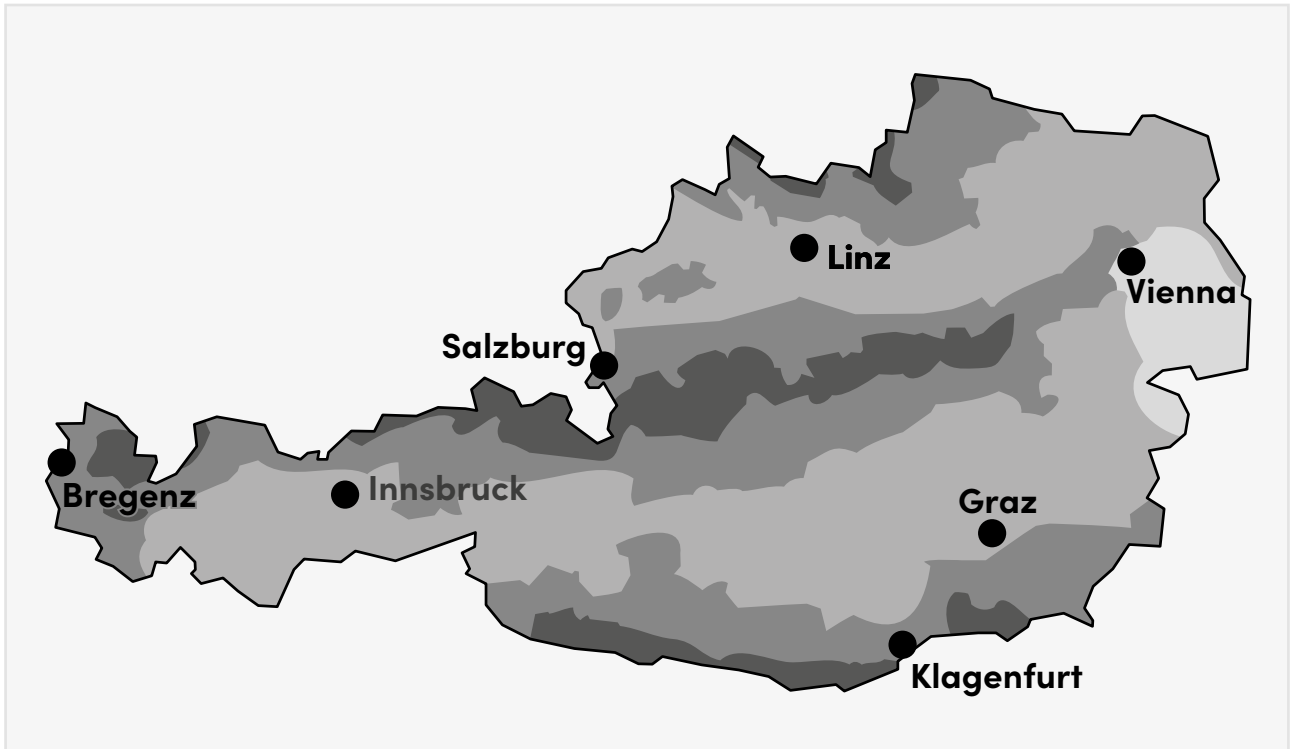
Class 0	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class [7]	Class [8]
<9.0 m/s	9.0 m/s	10.7 m/s	12.8 m/s	16.7 m/s	21.0 m/s	25.6 m/s	29.2 m/s	33.3 m/s
<28 km/h	32.5 km/h	38.5 km/h	46 km/h	60 km/h	76 km/h	92 km/h	105 km/h	120 km/h

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

## Planning Notes

### Wind load zones for selected locations

More detailed information on the wind load zones can be found in ÖNORM B 1991-1-4.



## Planning Notes

### Wind load zones (ÖNORM B 1991-1-4 / NA)

The wind load zones are location-dependent. The assignment of wind load zone to selected location is defined in the appendix. For locations not listed, the wind load zone of the next closest location can be used. If the sea level is more than 250m above the level of the next closest location, a separate calculation according to the standard is necessary.

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

Wind load zone	Terrain category*	Installation height [m]				
		≤9	≤18	≤28	≤50	≤100
A	II	2	2	3	3	3
	III	1	2	2	3	3
	IV	1	1	1	2	3
B	II	3	3	3	4	4
	III	2	3	3	3	4
	IV	1	2	2	3	4
C	II	3	4	4	4	4
	III	3	3	4	4	4
	IV	2	3	3	3	4
D	II	4	4	4	4	5
	III	3	4	4	4	5
	IV	3	3	3	4	4

\* Terrain categories (ÖNORM B 1991-1-4 / NA)

– Terrain category "I" not available in Austria

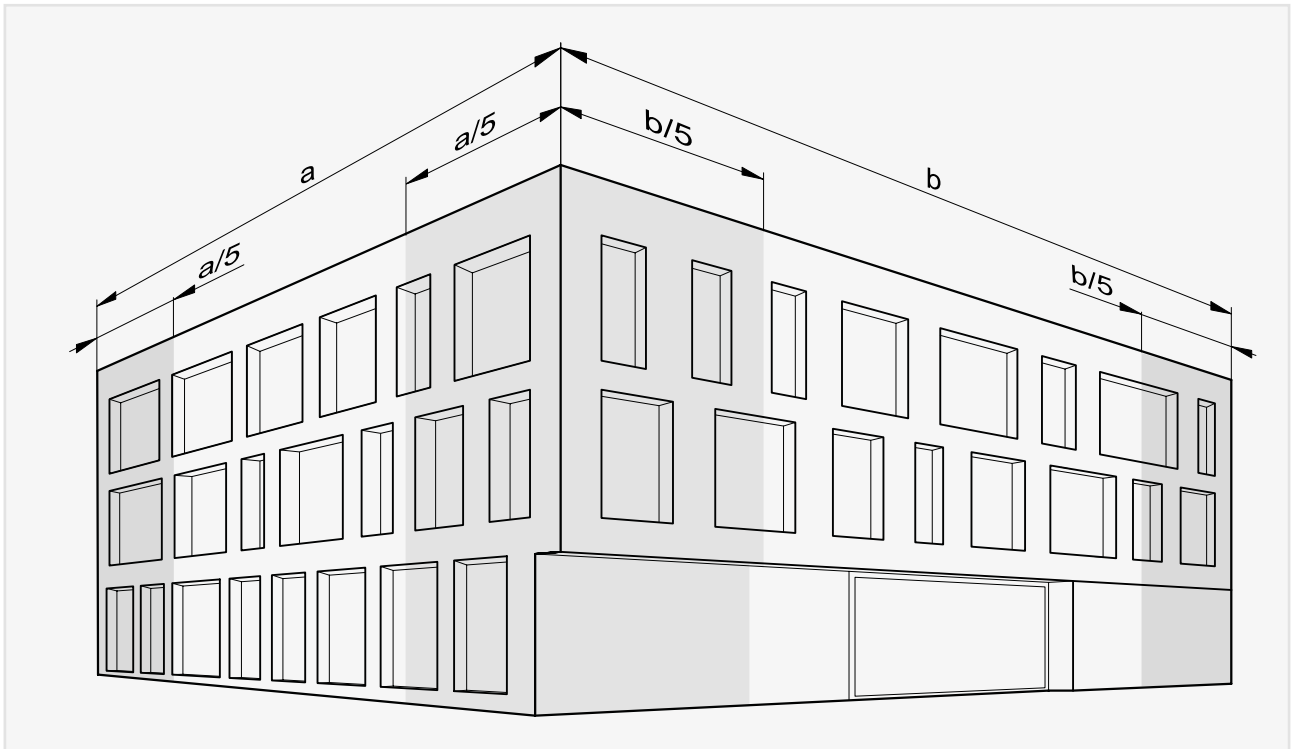
II Areas with low vegetation such as grass and individual obstacles (trees, buildings) with distances of at least 20 times the obstacle height

III Areas with uniform vegetation or building development or with individual objects with distances of less than 20 times the obstacle height (e.g. villages, suburban development, forest areas)

IV Areas in which at least 15 % of the surface area is covered by buildings with an average height greater than

### 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.



# Appendix

## Wind load zones for selected locations

Location	Zone	Location	Zone	Location	Zone
<b>Vienna</b>		Velden	A	Tulln	D
Districts 10, 11, 21, 22	D	Villach	A	Waidhofen an der Thaya	C
all other districts	C	Völkermarkt	A	Waidhofen an der Ybbs	B
<b>Burgenland</b>		Wolfsberg	A	Wilhelmsburg	D
Andau	C	<b>Lower Austria</b>		Wolkersdorf	C
Bad Tatzmannsdorf	C	Amstetten	C	Wr. Neustadt	D
Eisenstadt	C	Bad Vöslau	C	Zistersdorf	C
Güssing	C	Baden bei Wien	C	Zwettl	C
Jennersdorf	B	Deutsch-Wagram	D	<b>Upper Austria</b>	
Mattersburg	B	Fischamend	D	Aigen im Mühlkreis	B
Neusiedl am See	C	Gänserndorf	D	Bad Goisern	A
Oberpullendorf	B	Gmünd in Niederösterreich	C	Bad Ischl	B
Oberwart	B	Gross-Enzersdorf	D	Bad Leonfelden	B
Pinkafeld	B	Gumpoldskirchen	C	Braunau am Inn	C
Rust am Neusiedler See	C	Hainburg	C	Ebensee	C
St. Michael im Burgenland	C	Höllabrunn	C	Eferding	C
<b>Carinthia</b>		Horn	C	Enns	C
Arnoldstein	A	Klosterneuburg	C	Freistadt	B
Bad Kleinkirchheim	B	Korneuburg	C	Gmunden	C
Bleiburg	A	Krems an der Donau	C	Gosau	B
Eisenkappel	A	Langenlois	C	Grein	C
Feldkirchen in Kärnten	A	Lilienfeld	C	Grieskirchen	C
Ferlach	A	Marchegg	D	Grünau im Almtal	B
Friesach	A	Melk an der Donau	C	Hallstatt	A
Gmünd an der Lieser	B	Mistelbach	C	Hinterstoder	B
Gurk	A	Mödling	C	Kremsmünster	D
Heiligenblut	C	Mönichkirchen	D	Linz	D
Hermagor	A	Neunkirchen	D	Mattighofen	C
Klagenfurt	A	Perchtoldsdorf	C	Mondsee	C
Kötschach	A	Pottenstein	C	Obertraun	B
Lavamünd	A	Poysdorf	C	Reichersberg am Inn	C
Mallnitz	C	Puchberg am Schneeberg	C	Ried im Innkreis	C
Millstatt	A	Purkersdorf	C	Rohrbach im Mühlviertel	B
Naßfeld	D	Reichenau an der Rax	C	St.Wolfgang am Wolfgangsee	C
Oberdrauburg	A	Retz	C	Schärding	C
Obervellach	B	Scheibbs	C	Schwanenstadt	D
Radenthein	A	Schwechat	D	Spital am Pyhrn	B
Rennweg	C	Semmering	D	Steyr	C
St. Andrä im Lavanttal	A	Sollenau	D	Traun	D
St. Lorenzen im Lesachtal	B	St.Pölten	C	Vöcklabruck	C
St. Veit an der Glan	A	Stockerau	C	Wels	C
Spittal an der Drau	A	Ternitz	C	Weyer	B
		Traiskirchen	C	Windischgarsten	C

Location	Zone	Location	Zone	Location	Zone
<b>Salzburg</b>		Friedberg	B	Matrei in Osttirol	B
Abtenau	B	Frohnleiten	B	Mayrhofen	C
Bad Gastein	C	Fürstenfeld	B	Obergurgl	D
Bad Hofgastein	C	Gleisdorf	B	Pertisau	C
Bischofshofen	C	Graz	B	Reutte in Tirol	C
Fuschl am See	C	Gröbming	B	St. Anton am Arlberg	C
Golling	C	Hartberg	B	St. Christoph am Arlberg	D
Hallein	C	Hieflau	A	St. Jakob in Deferegggen	C
Kaprun	C	Judenburg	B	St. Johann in Tirol	C
Krimml	C	Kapfenberg	B	St. Leonhard im Pitztal	C
Lofer	C	Knittelfeld	B	Schwaz in Tirol	C
Mattsee	C	Köflach	B	Seefeld in Tirol	C
Mauterndorf	B	Leibnitz	B	Serfaus	D
Mittersill	B	Leoben	B	Sillian	B
Mühlbach am Hochkönig	C	Liezen	C	Sölden	D
Oberndorf bei Salzburg	C	Mariazell	B	Steinach am Brenner	C
Obertauern	D	Murau	B	Tannheim	C
Radstadt	B	Mureck	B	Telfs	C
Rauris	B	Mürzzuschlag	B	Virgen	C
Saalbach	C	Schladming	B	Wörgl	C
Saalfelden	B	Seckau	A	Zell am Ziller	C
Salzburg	C	St. Nikolai im Sölketal	C		
St. Johann im Pongau	C	Stainz	B	<b>Vorarlberg</b>	
St. Michael im Lungau	B	Trieben	B	Bezau	C
Strobl	C	Voitsberg	B	Bludenz	C
Tamsweg	B	Wald am Schoberpass	C	Bregenz	C
Unken	B	Weiz	B	Dornbirn	C
Wagrain	B	Wildon	B	Egg bei Andelsbuch	B
Werfen	C	Zeltweg	C	Feldkirch	C
Zell am See	B			Gargellen	C
		<b>Tyrol</b>		Götzis	C
<b>Styria</b>		Ehrwald	C	Hohenems	C
Admont	B	Fulpmes	C	Langen am Arlberg	C
Bad Aussee	B	Hall in Tirol	D	Lech	C
Bad Gleichenberg	B	Hintertux	C	Lustenau	C
Bad Mitterndorf	B	Holzgau	C	Mittelberg	C
Bad Radkersburg	C	Imst	C	Partenen	C
Birkfeld	A	Innsbruck	D	Schruns	B
Bruck an der Mur	B	Ischgl	D	Warth	C
Deutschlandsberg	B	Jenbach	C	Zürs	C
Eibiswald	A	Kitzbühel	C		
Eisenerz	A	Kufstein	C		
Feldbach	B	Landeck	C		
Fohnsdorf	B	Lienz	B		

Inspired by the **Sun.**

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