

## Wind resistance classes for STOMA slat blinds

The following table shows the wind resistance classes depending on the product and the size of the blind. It should be noted that the maximum permissible wind speeds apply only with closed windows and the conditions mentioned below.

Wind resistance classes according to SIA 342						
0	1	2	3	4	5	6
< 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
< 32.5 km/h	32.5 km/h	38.5 km/h	46 km/h	60 km/h	76 km/h	92 km/h

Permissible wind resistance classes of STOMA slat blinds according to product standard SN EN 13659										
Products (observe maximum dimensions)	Construction widths in mm (bk)									
	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
AV-940/AS-940 wind stable	6+	6+	6+	6	6	6	5	4	2	2
AV-740 wind stable	6+	6+	6+	6	6	6	5	4	2	2
VANTA	6	6	6	6	5	5	4	4	2	2
VANTA +	6	6	6	6						
AV-950 / AS-950	6	6	6	5						
AV-900 / AS-900	6	6	6	5	5	5	4	3	2	2
AV-700	6	6	6	5	5	5	4	3	2	2
AC-800 / AC-600	6	6	5	5	4	4	3	2	1	1
AF-830 rope-guided	5	4	4	4	3	3	2	1	1	1
AF-800	5	4	3	3	2	2	1	1	1	1

The table values apply under the following conditions:

- The use and dimensions correspond to the technical data sheet and the brochure.
- Installation, including fastening specifications, is carried out in accordance with the installation instructions.
- The operation and maintenance of the blinds are carried out according to the operating instructions.
- The blinds are mounted in the soffit or on the facade with a distance of up to 100 mm.

The table values are to be reduced for the following designs:

- For facade installation with distance from 101 to 300 mm, reduce value by one wind class.
- For facade installation with greater distance, the table cannot be applied.

### Remarks:

If it is ensured that the wind effectively acting on the blinds is measured, the values given in the table can be set directly at the wind sensor. It should be noted, however, that gusts of wind or updrafts and downdrafts on facades are generally not detected in time by the wind sensors. Therefore, the maximum permissible wind speed should not be set at the wind sensor in exposed locations. In addition, it must be ensured that the slat blinds can be retracted or remain retracted in the event of storms.

SIA Standard 342 lists the recommended wind resistance classes from the Central Plateau through the Pre-Alps to the Föhn valleys. These are subdivided into terrain topography and building height or installation heights of the blinds. It should be noted that higher wind speeds occur at corner areas of buildings and these must be considered separately. For buildings without an angular ground plan or buildings with a ground height of more than 1,100 m, a separate verification must be provided.