



Wind resistance according DIN EN 12424

Wind resistance	Pressure Pa = N/m ²	Speed m/sek	Speed km/h	Beaufort
1	300	22	80	9
2	450	27	100	10
3	700	34	120	12
4	1000	41	150	13

Beaufort scale for wind speeds, supplemented by wind resistance

Wind force in Beaufort	Description	Effect on land	m/s	km/h	Wind resistance
0	Calm, Lull	No air movement, Smoke rises vertically	00,0 - <0,3	000 - 001	0
1	Soft drafts	Hardly noticeable, smoke drifts off easily, Wind blades and wind vanes motionless	00,3 - <1,6	001 - 005	1
2	Light breeze	Leaves rustle, wind palpable on your face	01,6 - <3,4	006 - 011	1
3	Gentle breeze	Leaves and thin branches move Pennants are stretched	03,4 - <5,5	012 - 019	1
4	Moderate breeze	Branches move, loose paper is lifted off the floor	05,5 - <8,0	020 - 028	1
5	Fresh breeze	Larger branches and trees move, the wind is clearly audible	08,0 - <10,8	029 - 038	1
6	Strong Wind	Thick branches move, audible whistling on wire ropes and telephone wires	10,8 - <13,9	039 - 049	1
7	Stiff Wind	Trees sway Resistance when walking against the wind	13,9 - <17,2	050 - 061	1
8	Stormy Wind	Large trees are moved, shutters are opened, branches break from trees, considerable hindrance when walking	17,2 - <20,8	062 - 074	1
9	Storm	Branches break, minor damage to houses, bricks and smoke outlets are lifted from roofs, garden furniture is knocked over and blown away, and walking is a considerable hindrance	20,8 - <24,5	075 - 088	2
10	Strong storm	Trees are uprooted, tree trunks break, garden furniture is blown away, major damage to houses; rarely inland	24,5 - <28,5	089 - 102	3
11	Hurricane-like storm	Violent gusts, severe storm damage, severe damage to forests (wind break), roofs are covered, cars are thrown off the track, thick walls are damaged, walking is impossible; very rare inland	28,5 - <32,7	103 - 117	3
12	Hurricane	severe storm damage and devastation; very rare inland	> 32,7	> 117	4