

SUNBREAKER TEST

Our Sunbreaker Horizon was submitted to the “Scientific and technical center for construction” (CSTB) bureau in France for a test for performance and resistance of our product to the wind and rainfall.

The report EN-CAPE 16, 108-VO came out positive as described bellow

RAINFALL TEST:

The pergola (13' x 13' x 6'1/2) was subject to a constant wind of 36 Km/H (22 miles/H) and a rainfall flow of 130 mm/H (5"/H)

Test	Rainfall (mm/H)-(Inch/H)	Duration (Min)	Wind speed	Comment
1	70 - 2 3/4	3	14	The water drip out toward
2	82 - 3 1/4	3	14	the gutters and to the
3	95 - 3 3/4	3	14	drainage system located in
4	130 - 5 1/8	10	14	the posts. No leak between
5	180 - 7	2	without	the slats were detected

WIND TEST

This test was made with a pergola of (13' x 13' x 6'1/2) on wall mount version, the posts were fixed to the ground.

Step by step the pergola was submitted to different wind speed up to 172 Km/H (106 miles/H) in different positions, open and closed. When the wind blow perpendicularly to the slats, they are more solicited. To Know the limits of the resistance we push the speed up to 200 Km/H (124 miles/H)

No tearing of material or weakness of any slats were detected.

Test	Max wind
Opening and closing complete maneuver constant wind	75Km/H (46mi/H)
Closed at 0° perpendicular to the wind	130 Km/H (80mi/H)
Open at 90° perpendicular to the wind	140Km/H 86mi/H)
Closed at 0° parallel to the wind	200 Km/H (124mi/H)
Open at 90° parallel to the wind	180 Km/H (112mi/H)