



**Results of the tests done on Alu-Rex Products**

Engineers from Intertek, an independent accredited laboratory, have completed tests on Alu-Rex products. Here are the main results.

**Wind Speed Test**

Material	Density	Wind Speed
Dry Pine Needles	100 needles on 12 in. (300 mm)	10 km/h (6 mi./h)
Wet Pine Needles	1 in. (25.4 mm) thick on 12 in. (300 mm)	37 km/h (23 mi./h)
Dry Fir Needles	200 needles on 12 in. (300 mm)	8 km/h (5 mi./h)
Wet Fir Needles	½ in. (12.7 mm) thick on 6 in. (152 mm)	19 km/h (12 mi./h)
Dry Leaves	20 leaves on 12 in. (300 mm)	Negligible
Wet Leaves	20 leaves on 12 in. (300 mm)	10 km/h (6 mi./h)

**Pull Test – Load apply between fixations to obtain 1 inch deformation**

Distance between hangers/Fixa-Tech screws	Hangers	Fixa-Tech
8 in. (203.2 mm)	170 pounds	250 pounds
16 in. (406.4 mm)	155 pounds	232 pounds
24 in. (609.6 mm)	140 pounds	214 pounds

**Water Flow Test**

% Blocked Holes	Flow (in. (mm) of water on a 20 ft (6 m) roof
0	29.7 in. (755 mm)
20	27 in. (687 mm)
40	24.6 in. (625 mm)
50	21.1 in. (537 mm)
60	18.5 in. (469 mm)
70	15.6 in. (396 mm)
80	12.6 in. (321 mm)
90	8.7 in. (221 mm)
100	2.5 in. (63 mm)