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Wind Load Data on The Beast MobileSolarPro® Trailer

Background: This paper defines the wind load on the RPMS-24-1440-beast mobile solar trailer at various wind speeds and solar panel tilt angles. The wind loading is calculated based on sea level. At higher elevations the wind load will be reduced because the air density is less.

All data is expressed in ft/lb and based on sea level, 15C temperature and flat ground surface with no trees or obstructions to block or disrupt the wind.

Wind ↓	Tilt →	15°	25°	35°	45°	55°
110 MPH		681	1112	1509	1860	2155
100 MPH		563	919	1247	1537	1781
90 MPH		456	744	1010	1245	1442
80 MPH		360	588	798	984	1140
70 MPH		276	450	611	753	873
60 MPH		203	331	449	553	641
50 MPH		141	230	312	384	445
40 MPH		90	147	200	246	285