

AlturnaMATS® Ground Protection Mats – Weight Rating Factors

Built to work with the largest equipment



330 tons of building and equipment on dirt



190 ton crane on gravel



80 ton aircraft on sand

The weight capacity of any ground protection product is influenced by a number of factors.

Mechanical Properties

The compressive yield stress of HDPE illustrates that, under optimal conditions, on a flat hard surface with total weight distribution a sheet will hold over 6000 tons.

Not all HDPE mats are created equal however. The flexural and tensile properties of AlturnaMATS ground protection mats ensures that under any load, AlturnaMATS will “bend...but not break”.

Sub-surface

AlturnaMATS ground protection mats have been successfully used on concrete, blacktop, gravel, grass, mud, dirt, sand, swamps and just about any other surface you can think of. The flexibility of AlturnaMATS allows them to conform to uneven surfaces to support heavy loads without breaking.

Contact Area

Whether using tires or tracks, greater contact surface area results in greater weight capacity.

Weight Distribution

Wheelbase, number of axles, and number of tires in contact with the mats will all affect the weight capacity by distributing the load to multiple mats. Shown above is a 330 ton building being moved over ground using AlturnaMATS. To the upper right, AlturnaMATS are keeping an 80 ton jet from getting stuck in the sand.



Dozers, excavators, trucks, jets, building movers... AlturnaMATS have stood up to all types and sizes of equipment. This is the reason that in the ground protection industry, there's AlturnaMATS, and there's everyone else.

Checkers

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