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HEIGHT (above grade):10 ft.	ROOF TYPE: GROUND
	Remove loose material from the area where the mount is to be placed.

-Wind Force:

Wind forces in this calculation are based on ASCE 7-02 @ 120 Mph

-Tethered (with three cables at 120 degrees spacing to prevent sliding):

Note: (If the tethered ballast required is greater than the untethered ballast required, the tethered ballast required should be used, however in this case the tethers would not be required to prevent sliding.)

Overturning moment x safety factor = Resisting Moment

Wind load x safety factor x height to antenna centerline = (1/2 base width) * (antenna weight +mount weight +ballast weight)

Wind load x safety factor x height to antenna centerline / (1/2 base width) - (weight of antenna&mount) = Req'd ballast (lbs.)

1366 lbs. x 1.50 x 5.5' / 7.8' - 1000 lbs. = 445 lbs. Required Ballast

(Weight of required ballast + mount + antenna) / Mount area = Roof Load(psf)

1445 lbs. / 245.0 sq.ft. = 5.9 psf

MOUNTING SYSTEM: PL-2

4' X 6' Ballast Trays

See our enginnering page: http://www.SatelliteDish.com/page82.htm