

RFS parabolic antenna

Towerload due to wind and ice

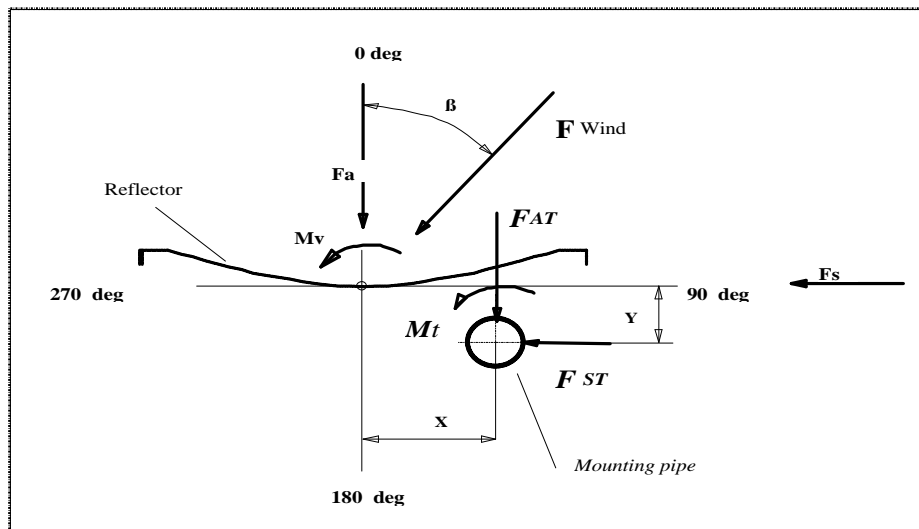
HEX 08HP

Productseries: Microwave, improved wind series
 Antenna type: High Performance
 RFS-Code: DA, DAX, UA, UDA, UXA
 Antenna size: 8 ft

1. Towerload due to wind:

Forces and Twisting Moment at the mounting pipe for a windvelocity of: **250 km/h**
 Please note, that the individual maximums may not occur simultaneously.

β [deg]	F _{AT} [N]	F _{ST} [N]	Pipe 114mm	Pipe 219mm
			Mt [Nm]	Mt [Nm]
0	20049	0	3809	4611
30	19242	3731	2800	3805
60	15021	5834	4506	5475
90	-1739	9930	7210	7766
120	-11305	6957	4568	4554
150	-15211	2799	646	213
180	-16143	0	-3067	-3713
210	-15211	-2799	-6426	-7210
250	-8570	-8443	-9315	-10190
270	-1739	-9930	-7871	-8566
300	15021	-5834	1202	1435
330	19242	-3731	4512	5047
345	19954	-2166	4570	5232
Maximum (F max. ; M max.):	20049	9930	9315	10190



2. Towerload due to antenna weight with and without ice:

Thickness of the radial ice-layer [mm]	0	10	20	30
Antenna weight (approx.) [kg]	210	330	450	570