

RFS parabolic antenna

Towerload due to wind and ice

HTX 12HP/1

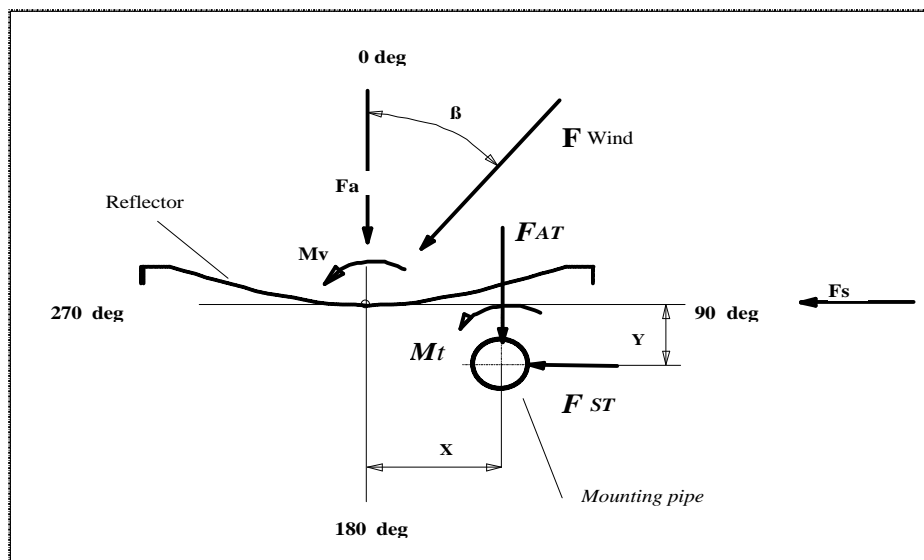
Productseries:	Microwave
Antenna type:	High Performance
RFS-Code:	DA, DAX, UA, UDA, UXA
Antenna size:	12 ft

1. Towerload due to wind:

Forces and Twisting Moment at the mounting pipe for a wind velocity of: **200 km/h**

Please note, that the individual maximums may not occur simultaneously.

			Pipe 114mm	Pipe 219mm
β [deg]	FAT [N]	FST [N]	Mt [Nm]	Mt [Nm]
0	27680	0	5260	6370
30	26560	5150	2790	4020
60	20740	8050	6470	7560
90	-2400	13710	13440	13780
120	-15610	9600	9670	9360
150	-21000	3860	2790	2070
180	-22290	0	-4230	-5130
210	-21000	-3860	-10760	-11730
250	-11830	-11660	-16650	-17490
270	-2400	-13710	-14350	-14890
300	20740	-8050	1410	1980
330	26560	-5150	7310	8200
345	27550	-2990	7120	8120
Maximum (F max. ; M max.):	27680	13710	16650	17490



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]	460	718	977	1235