

RFS parabolic antenna

Towerload due to wind and ice

HTX 03SU

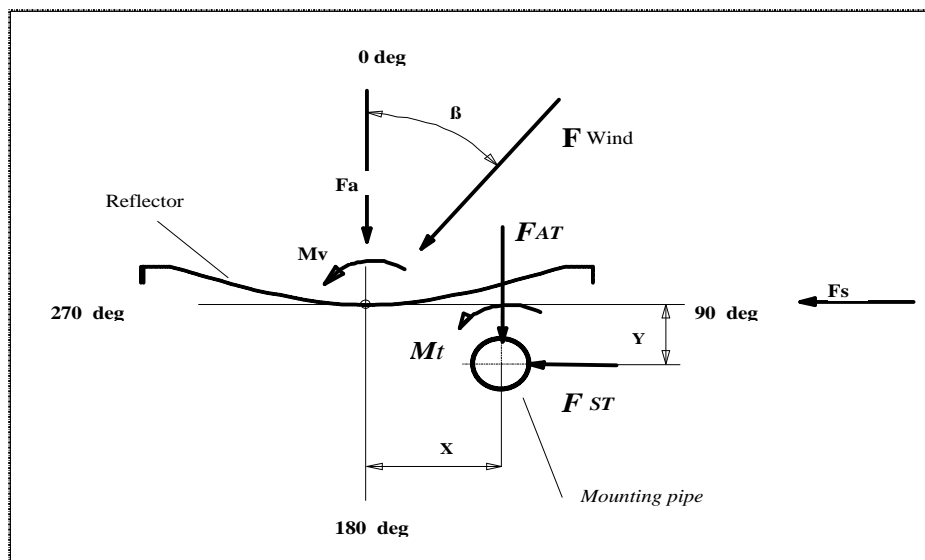
Productseries:	SlimLine
Antenna type:	High Performance
RFS-Code:	SU, SUX
Antenna size:	3 ft

1. Towerload due to wind:

Forces and Twisting Moment at the mounting pipe for a wind velocity of:
Please note, that the individual maximums may not occur simultaneously.

200 km/h

			Pipe 48mm	Pipe 114mm
β [deg]	FAT [N]	FST [N]	Mt [Nm]	Mt [Nm]
0	1817	0	418	496
30	1704	355	340	415
60	1349	497	332	393
90	-185	831	133	130
120	-1051	582	-56	-97
150	-1397	116	-234	-294
180	-1576	0	-363	-430
210	-1397	-116	-408	-469
240	-1051	-582	-428	-477
270	-185	-831	-218	-231
300	1349	-497	288	343
330	1704	-355	444	516
345	1789	-213	444	520
Maximum (F max. ; M max.):	1817	831	444	520



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]	23	42	62	81