

# RFS parabolic antenna

## Towerload due to wind and ice

HTX 12PAR

### Productseries:

Antenna type: Standard Performance with moulded radome  
 RFS-Code: PA  
 Antenna size: 12ft

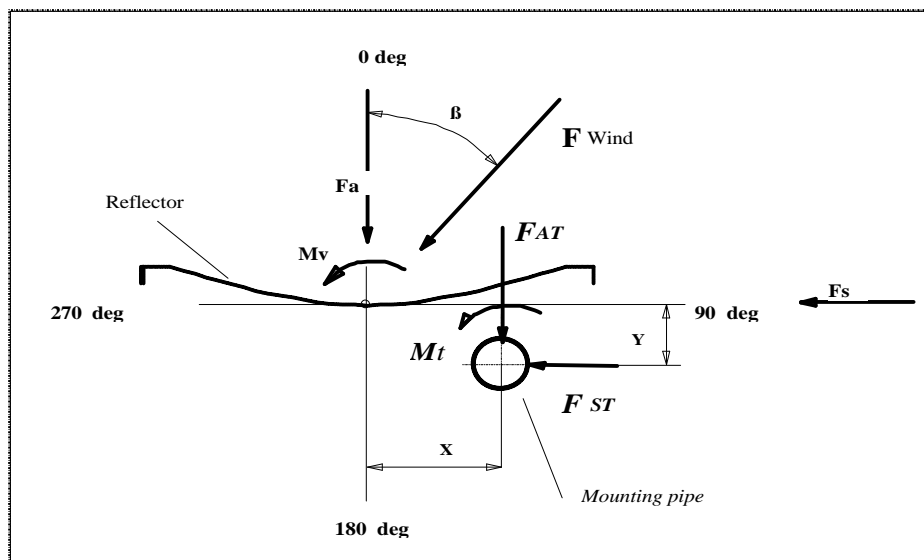
### 1. Towerload due to wind:

Forces and Twisting Moment at the mounting pipe for a windvelocity of:

**200 km/h**

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

$\beta$ [deg]	FAT [N]	FST [N]	Pipe 114mm	Pipe 219mm
			Mt [Nm]	Mt [Nm]
0	16763	0	3185	3856
30	15410	8993	-2544	-1640
60	8731	10979	6054	6755
90	2903	8905	17015	17416
120	-3601	7618	15757	15857
150	-11394	6002	4645	4381
180	-15170	0	-2882	-3489
210	-11394	-6002	-8974	-9622
250	-1462	-8141	-17520	-17839
270	2903	-8905	-15912	-16081
300	8731	-10979	-2737	-2739
330	15410	-8993	8399	8728
345	16588	-4649	10144	10659
<b>Maximum (F max. ; M max.):</b>	<b>16763</b>	<b>10979</b>	<b>17520</b>	<b>17839</b>



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

Thickness of the radial ice-layer [mm]	<b>0</b>			30
Antenna weight (approx.) [kg]	<b>382</b>			1210