

RFS parabolic antenna

Towerload due to wind and ice

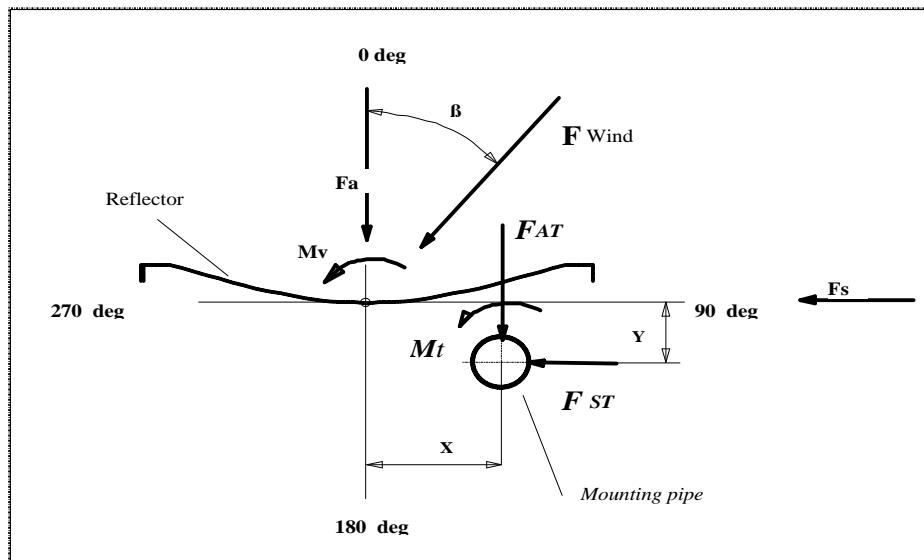
HEX 02HP

Productseries: Microwave
Antenna type: High Performance
RFS-Code: DA, DAX, UA, UDA, UXA
Antenna size: 2 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 48mm | Pipe 114mm |
|-----------------------------------|---------------------|---------------------|------------|------------|
| | | | Mt [Nm] | Mt [Nm] |
| 0 | 1415 | 0 | 325 | 386 |
| 30 | 1358 | 263 | 289 | 347 |
| 60 | 1060 | 412 | 263 | 309 |
| 90 | -123 | 701 | 93 | 88 |
| 120 | -798 | 491 | -71 | -106 |
| 150 | -1073 | 198 | -186 | -232 |
| 180 | -1139 | 0 | -262 | -311 |
| 210 | -1073 | -198 | -308 | -354 |
| 250 | -605 | -596 | -266 | -292 |
| 270 | -123 | -701 | -150 | -155 |
| 300 | 1060 | -412 | 224 | 270 |
| 330 | 1358 | -263 | 336 | 394 |
| 345 | 1408 | -152 | 342 | 403 |
| Maximum (F max. ; M max.): | 1415 | 701 | 342 | 403 |



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] | 15 | 26 | 37 | 48 |