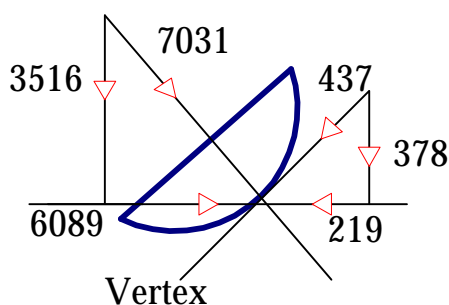


Forces on SF18 VSat Antenna

Dish Diameter **1.8 Metres**
Wind Speed **125 mph**
Dish Elevation **30 degrees**

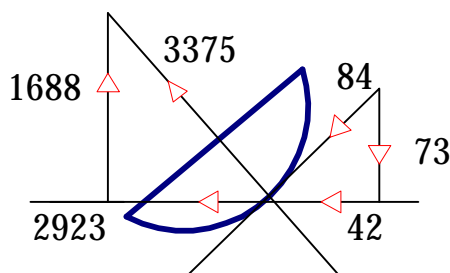
All forces are expressed in Newtons

Wind from front



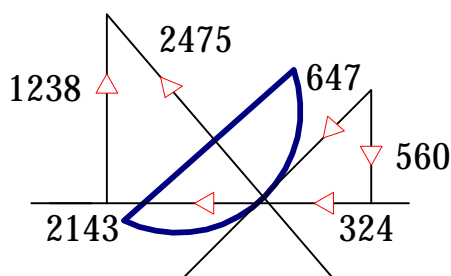
Compression = **3894 Newtons**
Tension = **0 Newtons**
Shear = **5871 Newtons**

Wind from side



Tension = **1615 newtons**
Shear = **2965 newtons**

Wind from back



Tension = **677 newtons**
Shear = **2467 newtons**

Maximum Compression = **3894 Nts. 875.44 pounds 0.39 tons**
Maximum Tension = **1615 Nts. 363.03 pounds 0.16 tons**
Maximum Shear = **5871 Nts. 1319.80 pounds 0.59 tons**

S+AS Limited
6 The Walled Garden
Wallhouse, Torphichen
West Lothian
[44] 1506 636314

Generic Forces
Diagram
SF18.ST(X)(S)[R]

DWG NO SF18GFD	REV
SAS_001/9/97	A
SHEET	1 OF 1