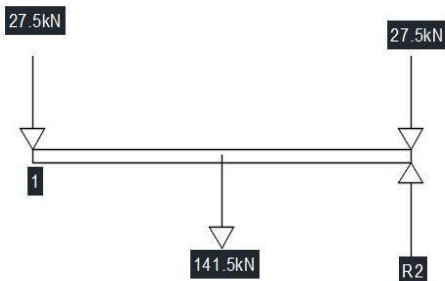- Equipment weight:9.65T
- Maximum load:10T
- Hydraulic cylinders + frame:2.65T
- Auxiliary beam+guide rails :2.85T
- Cabin weight:4T
- Horizontal auxiliary beams:0.15T
- Fn=mg=(9.65+10)T*10N/kg
   =196.5kN
- Bearing capacity required by the ground and wall needs to be ≥196.5kN
- When equipment is fully loaded it tends to -exert vertical downward forces within the support beams attached to the wall brackets.
- The vertical reaction force R2 need to meet the following conditions:

   About point 1
   R2(5.72)≥27.5(5.72)+141.5(2.86)
   R2≥567.99/5.74
   R2≥98.25kN

The total force on the wall is greater or equal to 98.25kN. There are 20 brackets supporting each side of the lift (19 wall brackets + 1 on the ground), therefore the force on each bracket is ≥ 4.9125kN