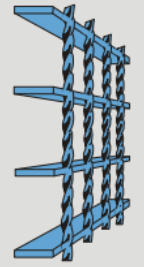


Grating: Forge-welded grating, axial mesh 34 x 38 mm

DIN 24537 & RAL-GZ 638



HORIZONTAL APPLICATIONS

| LOAD AND DEFLECTION TABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|-----------------|------------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| AXIAL MESH | BEARING BAR | LOAD DEFLECTION | SPAN (L) m | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 200 | 240 | 300 | 350 | 400 | 440 | 500 | 550 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | |
| 34 x 38 | 20 / 2 | Fv | 12439 | 8638 | 5529 | 4062 | 3110 | 2570 | 1990 | 1645 | 1382 | 1015 | 777 | 614 | 498 | | | | | | | | | | | | |
| | | f | 0.03 | 0.05 | 0.07 | 0.10 | 0.13 | 0.15 | 0.20 | 0.24 | 0.29 | 0.39 | 0.51 | 33.00 | 0.80 | | | | | | | | | | | | |
| | | Fp | 690 | 493 | 345 | 276 | 230 | 203 | 172 | 153 | 138 | 115 | 99 | 86 | 77 | | | | | | | | | | | | |
| | | fl | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.18 | 0.22 | 0.26 | 0.35 | 0.45 | 0.57 | 0.69 | | | | | | | | | | | | |

Fv = Uniformly distributed load in daN/m²
 Fp = Point load on an area 20X20 cm in daN

f = Deflection in cm due to Fv
 fl = Deflection in cm due to Fp

- : Point Load 150 daN on an area 20X20 cm, maximum deflection 1/200 of the span and not over 4 mm
- : Point Load 150 daN on an area 20X20 cm, without any restriction in deflection (maximum permissible stress 16 kN/cm²)
- : Load 500 daN/m² uniformly distributed, with maximum deflection 4 mm
- : Load 500 daN/m² uniformly distributed, with maximum deflection less than 1/200 of span
- : Load 500 daN/m² uniformly distributed, without any restriction in deflection (maximum permissible stress 16 kN/cm²)

| ACCORDING TO DIN 1072 | | |
|-----------------------|-------|-----------|
| CLASS | LOAD | AREA |
| [60] | 10000 | 600 X 200 |
| [45] | 7500 | 500 X 200 |
| [30] | 5000 | 400 X 200 |
| [12] | 2000 | 200 X 200 |
| [6] | 1000 | 140 X 200 |
| [3] | 500 | 100 X 200 |