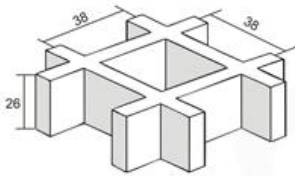


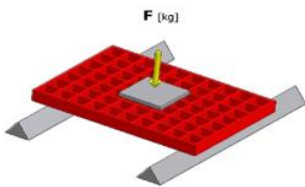
|   |    |
|---|----|
| <b>GRP GRATINGS TATRAGRATE</b><br><b>Deflection Table</b> | EN |
|---|----|

**Deflection Tables for TATRAGRATE Molded Gratings 38x38x26**

| Dimensions [mm] | SPAN [mm] | Concentrated load [kg] | Uniform Load [kg/m <sup>2</sup> ] |   |                | Line Load [kg/305 mm] |                   |
|-----------------|-----------|------------------------|-----------------------------------|---|----------------|-----------------------|-------------------|
|                 |           |                        | 1% deflection                     | Maximum recommended   |                |                       | Ultimate capacity |
|                 |           |                        |                                   | ECONOM STANDART, ECONOM NON FIRE, ISO NON FIRE, FOOD NON FIRE | VINYL NON FIRE |                       |                   |
| 300             |           | 1136                   | 7347                              | 7956  | 15545          | 34800                 | 506               |
| 400             |           | 738                    | 3214                              | 4478  | 8746           | 19744                 | 288               |
| 500             |           | 529                    | 1693                              | 2868  | 5598           | 12721                 | 186               |
| 600             |           | 402                    | 1002                              | 1992  | 3888           | 8882                  | 130               |
| 700             |           | 319                    | 644                               | 1464  | 2857           | 6556                  | 96                |
| 800             |           | 261                    | 438                               | 1121  | 2187           | 5039                  | 74                |
| 900             |           | 219                    | 313                               | 886   | 1728           | 3996                  | 59                |
| 1000            |           | 187                    | 231                               | 718   | 1400           | 3247                  | 48                |
| 1100            |           | 162                    | 176                               | 594   | 1157           | 2691                  | 40                |
| 1200            |           | 141                    | 137                               | 499   | 972            | 2267                  | 33                |
| 1300            |           | 116                    | 109                               | 425   | 829            | 1936                  | 26                |
| 1400            |           | 96                     | 88                                | 367   | 714            | 1673                  | -                 |
| 1500            |           | 81                     | 72                                | 319   | 622            | 1461                  | -                 |



MESH: 38x38  
THICKNESS: 26

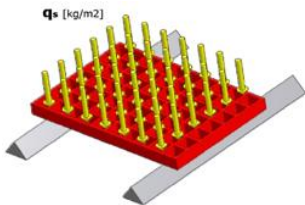


**Concentrated load**

There are data of the concentrated load data causing a deflection of 1% at a certain span. The load is applied at the centre of a full panel, which is supported on two sides. Gratings supported on 3 or 4 sides will have less deflection.

This table is only valid for the uncut panels.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data.



**Uniform load**

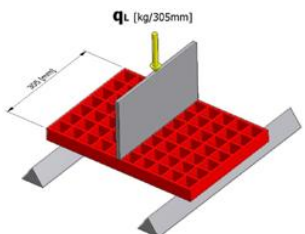
There are data of uniform load data for two sides supported grating at a certain span:

- the given data is for a deflection of 1 %
- the max. recommended load
- ultimate capacity.

This data is also valid for panels which are cut.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data to determine the max. load.

To calculate the deflections at max. recommended and ultimate capacity the same calculation method can be used. Deflection is proportional with load.



**Line Load**

The data in this table gives a 1% deflection for a wide strip of 305 mm width.

The load is applied at the centre of this strip.

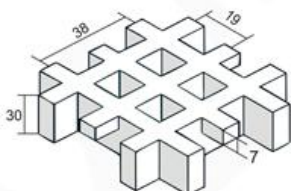
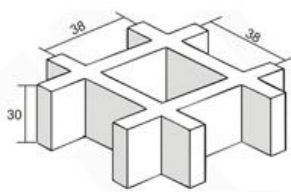
This data will be used to determine the deflection on cutted panels for concentrated loads, supported on two sides.

For gratings with a larger width, the load can easily be calculated by multiplying the width with the given load, divided by 305 mm.

Using special clips to connect the unsupported gratings together, will reduce deflection.

|   |    |
|---|----|
| <b>GRP GRATINGS TATRAGRATE</b><br><b>Deflection Table</b> | EN |
|---|----|

**Deflection Tables for TATRAGRATE Molded Gratings 19x19x30, 38x38x30**

| Dimensions [mm]  | SPAN [mm] | Concentrated load [kg] | Uniform Load [kg/m <sup>2</sup> ] |   |                | Line Load [kg/305 mm] |                   |
|--|-----------|------------------------|-----------------------------------|---|----------------|-----------------------|-------------------|
|  |           |                        | 1% deflection                     | Maximum recommended   |                |                       | Ultimate capacity |
|  |           |                        |                                   | ECONOM STANDART, ECONOM NON FIRE, ISO NON FIRE, FOOD NON FIRE | VINYL NON FIRE |                       |                   |
|  <p>MESH: 19x19<br/>THICKNESS: 30</p>  <p>MESH: 38x38<br/>THICKNESS: 30</p> | 300       | 1400                   | 14844                             | 13379   | 26141          | 58519                 | 865               |
|  | 400       | 998                    | 6664                              | 7989  | 15602          | 35223                 | 518               |
|  | 500       | 767                    | 3581                              | 5356  | 10455          | 23759                 | 348               |
|  | 600       | 619                    | 2155                              | 3863  | 7539           | 17223                 | 251               |
|  | 700       | 517                    | 1403                              | 2931  | 5717           | 13121                 | 191               |
|  | 800       | 441                    | 968                               | 2307  | 4499           | 10366                 | 150               |
|  | 900       | 384                    | 697                               | 1868  | 3642           | 8421                  | 122               |
|  | 950       | 361                    | 600                               | 1695  | 3306           | 7655                  | 111               |
|  | 1000      | 339                    | 520                               | 1546  | 3015           | 6992                  | 101               |
|  | 1100      | 303                    | 399                               | 1304  | 2541           | 5910                  | 85                |
|  | 1200      | 274                    | 313                               | 1115  | 2174           | 5069                  | 73                |
|  | 1300      | 249                    | 250                               | 966   | 1883           | 4401                  | 63                |
|  | 1400      | 229                    | 204                               | 846   | 1649           | 3862                  | 55                |

**Concentrated load**

There are data of the concentrated load data causing a deflection of 1% at a certain span. The load is applied at the centre of a full panel, which is supported on two sides. Gratings supported on 3 or 4 sides will have less deflection.

This table is only valid for the uncut panels.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data.

**Uniform load**

There are data of uniform load data for two sides supported grating at a certain span:

the given data is for a deflection of 1 %

the max. recommended load

ultimate capacity.

This data is also valid for panels which are cut.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data to determine the max. load.

To calculate the deflections at max. recommended and ultimate capacity the same calculation method can be used. Deflection is proportional with load.

**Line Load**

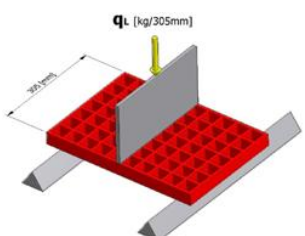
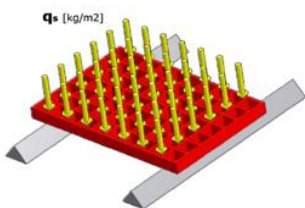
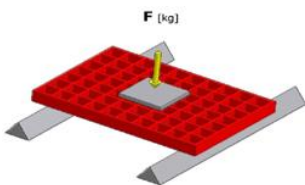
The data in this table gives a 1% deflection for a wide strip of 305 mm width.

The load is applied at the centre of this strip.

This data will be used to determine the deflection on cutted panels for concentrated loads, supported on two sides.

For gratings with a larger width, the load can easily be calculated by multiplying the width with the given load, divided by 305 mm.

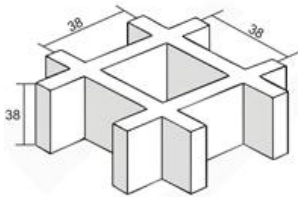
Using special clips to connect the unsupported gratings together, will reduce deflection.



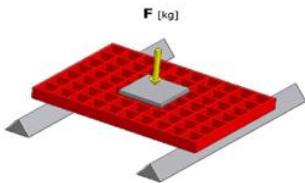
|   |    |
|---|----|
| <b>GRP GRATINGS TATRAGRATE</b><br><b>Deflection Table</b> | EN |
|---|----|

**Deflection Tables for TATRAGRATE Molded Gratings 19x19x38, 38x38x38**

| Dimensions [mm] | SPAN [mm] | Concentrated load [kg] | Uniform Load [kg/m <sup>2</sup> ] |   |                | Line Load [kg/305 mm] |                   |
|-----------------|-----------|------------------------|-----------------------------------|---|----------------|-----------------------|-------------------|
|                 |           |                        | 1% deflection                     | Maximum recommended   |                |                       | Ultimate capacity |
|                 |           |                        |                                   | ECONOM STANDART, ECONOM NON FIRE, ISO NON FIRE, FOOD NON FIRE | VINYL NON FIRE |                       |                   |
|                 | 300       | 2190                   | 26809                             | 14278   | 38807          | 61369                 | 1288              |
|                 | 400       | 1533                   | 10599                             | 8031  | 21830          | 37082                 | 758               |
|                 | 500       | 1162                   | 5163                              | 5139  | 13971          | 25088                 | 502               |
|                 | 600       | 927                    | 2867                              | 3569  | 9703           | 18231                 | 359               |
|                 | 700       | 765                    | 1744                              | 2622  | 7129           | 13918                 | 270               |
|                 | 800       | 648                    | 1135                              | 2007  | 5458           | 11016                 | 211               |
|                 | 900       | 560                    | 776                               | 1586  | 4312           | 8963                  | 170               |
|                 | 1000      | 492                    | 552                               | 1285  | 3493           | 7453                  | 140               |
|                 | 1100      | 437                    | 406                               | 1062  | 2887           | 6307                  | 117               |
|                 | 1200      | 389                    | 305                               | 892   | 2426           | 5416                  | 100               |
|                 | 1300      | 325                    | 217                               | 760   | 2067           | 4708                  | 86                |
|                 | 1400      | 275                    | 182                               | 655   | 1782           | 4135                  | 75                |
|                 | 1500      | 236                    | 146                               | 571   | 1553           | 3664                  | 66                |



MESH: 38x38  
THICKNESS: 38

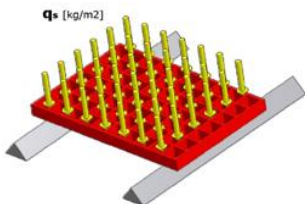


**Concentrated load**

There are data of the concentrated load data causing a deflection of 1% at a certain span. The load is applied at the centre of a full panel, which is supported on two sides. Gratings supported on 3 or 4 sides will have less deflection.

This table is only valid for the uncut panels.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data.



**Uniform load**

There are data of uniform load data for two sides supported grating at a certain span:

the given data is for a deflection of 1 %

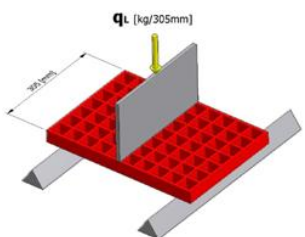
the max. recommended load

ultimate capacity.

This data is also valid for panels which are cut.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data to determine the max. load.

To calculate the deflections at max. recommended and ultimate capacity the same calculation method can be used. Deflection is proportional with load.



**Line Load**

The data in this table gives a 1% deflection for a wide strip of 305 mm width.

The load is applied at the centre of this strip.

This data will be used to determine the deflection on cutted panels for concentrated loads, supported on two sides.

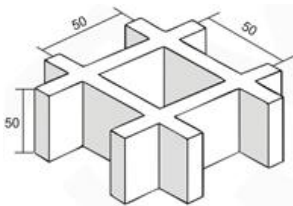
For gratings with a larger width, the load can easily be calculated by multiplying the width with the given load, divided by 305 mm.

Using special clips to connect the unsupported gratings together, will reduce deflection.

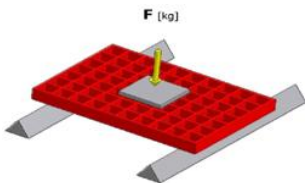
|   |    |
|---|----|
| <b>GRP GRATINGS TATRAGRATE</b><br><b>Deflection Table</b> | EN |
|---|----|

**Deflection Tables for TATRAGRATE Molded Gratings 50x50x50**

| Dimensions [mm] | SPAN [mm] | Concentrated load [kg] | Uniform Load [kg/m <sup>2</sup> ] |  |                      | Line Load [kg/305 mm] |                   |
|-----------------|-----------|------------------------|-----------------------------------|--|----------------------|-----------------------|-------------------|
|                 |           |                        | 1% deflection                     | Maximum recommended  |                      |                       | Ultimate capacity |
|                 |           |                        |                                   | ECONOM<br>STANDART,<br>ECONOM<br>NON FIRE,<br>ISO<br>NON FIRE,<br>FOOD<br>NON FIRE | VINYL<br>NON<br>FIRE |                       |                   |
|                 | 300       | 2734                   | 46840                             | 31583  | 31583                | 54419                 | 2618              |
|                 | 400       | 2077                   | 18922                             | 17766  | 17766                | 37886                 | 1593              |
|                 | 500       | 1677                   | 9371                              | 11371  | 11371                | 26722                 | 1084              |
|                 | 600       | 1409                   | 5278                              | 7897   | 7897                 | 20091                 | 791               |
|                 | 700       | 1216                   | 3247                              | 5802   | 5802                 | 15786                 | 606               |
|                 | 800       | 1070                   | 2132                              | 4442   | 4442                 | 12810                 | 481               |
|                 | 900       | 956                    | 1472                              | 3510   | 3510                 | 10654                 | 393               |
|                 | 1000      | 864                    | 1056                              | 2843   | 2843                 | 9035                  | 328               |
|                 | 1100      | 789                    | 782                               | 2350   | 2350                 | 7784                  | 278               |
|                 | 1200      | 720                    | 590                               | 1974   | 1974                 | 6793                  | 239               |
|                 | 1300      | 616                    | 423                               | 1682   | 1682                 | 5994                  | 208               |
|                 | 1400      | 533                    | 357                               | 1451   | 1541                 | 5337                  | 183               |
|                 | 1500      | 466                    | 287                               | 1264   | 1264                 | 4791                  | 163               |



MESH: 50x50  
THICKNESS: 50

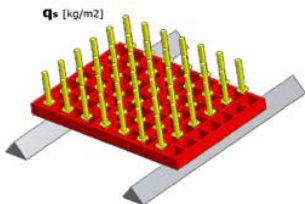


**Concentrated load**

There are data of the concentrated load data causing a deflection of 1% at a certain span. The load is applied at the centre of a full panel, which is supported on two sides. Gratings supported on 3 or 4 sides will have less deflection.

This table is only valid for the uncut panels.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data.



**Uniform load**

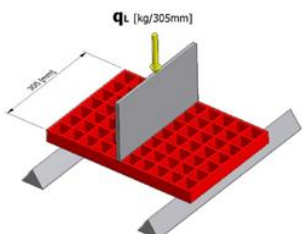
There are data of uniform load data for two sides supported grating at a certain span:

- the given data is for a deflection of 1 %
- the max. recommended load
- ultimate capacity.

This data is also valid for panels which are cut.

In case other deflections are specified, just multiply the specified percentage deflection with the 1% load data to determine the max. load.

To calculate the deflections at max. recommended and ultimate capacity the same calculation method can be used. Deflection is proportional with load.



**Line Load**

The data in this table gives a 1% deflection for a wide strip of 305 mm width.

The load is applied at the centre of this strip.

This data will be used to determine the deflection on cutted panels for concentrated loads, supported on two sides.

For gratings with a larger width, the load can easily be calculated by multiplying the width with the given load, divided by 305 mm.

Using special clips to connect the unsupported gratings together, will reduce deflection.