

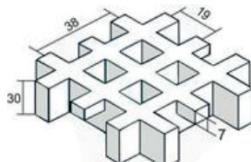


Datasheet

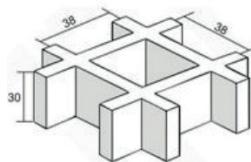
Deflection Table

Deflection Tables for TATRAGRATE Molded Gratings 19x19x30, 38x38x30

Dimensions [mm]	SPAN [mm]	Concentrated load [kg]	Uniform Load [kg/m ²]			Ultimate capacity	Line Load [kg/305 mm]
			1% deflection	Maximum recommended	ECONOM STANDART, ECONOM NON FIRE, ISO NON FIRE, FOOD NON FIRE		
		1% deflection					1% deflection
	300	1400	14844	13379	26141	58519	865
MESH: 19x19 THICKNESS: 30	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

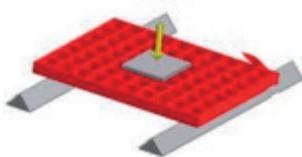


MESH: 19x19
THICKNESS: 30



MESH: 38x38
THICKNESS: 30

F [kg]



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.