

MEISER[®]

Load tables
GRP-Floorings



| | |
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| Introduction | 3 |
| Moulded GRP grating | 4 |
| GRP safety flooring | 14 |
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Statical Measurements:

Statical measurements based on the following norms & regulations:

1. DIN 24537-3:2007-08 - gratings as flooring part 3: plastic grating
2. DIN EN 1990-NA:2010-12 - national standard, basics of support structure planning
3. RAL GZ 638:2008-09 - gratings – quality control
4. According to DIN 24537-3 : 2007-08 the dead weight is not part of the measurement.
5. According to BGI/GUV-I 588-1 the bearing should be not less than 30 mm.
6. Given results will only be achieved by a friction-locked fixation of the flooring.

Statical loads:

1. The Pointload $FP = 1,5$ kN on a load bearing area of 200x200 mm and the uniformly distributed load F_v of 2,0 kN/m² are taken from the standard DIN EN ISO 14122-2 :2016-10 – safety of machinery – permanent means of access to machinery – Part 2 Walking platforms and walkways.

2. The Pointload $FP = 2,0$ kN on a load bearing area of 200x200 mm and the uniformly distributed load F_v of 5,0 kN/m² for Access, balconies and stair landings of category T2 are taken from the standard DIN EN 1991-1-1/NA:2010-12 Germany.

For further information: the bearing area of 50x50 mm is not taken into calculation!

Deflection:

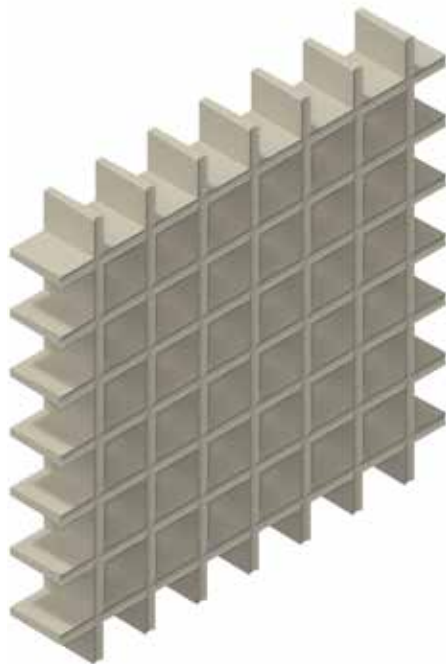
1. The elastical deflection of the flooring under load should not be higher than 0,5% (1/200) of the span.

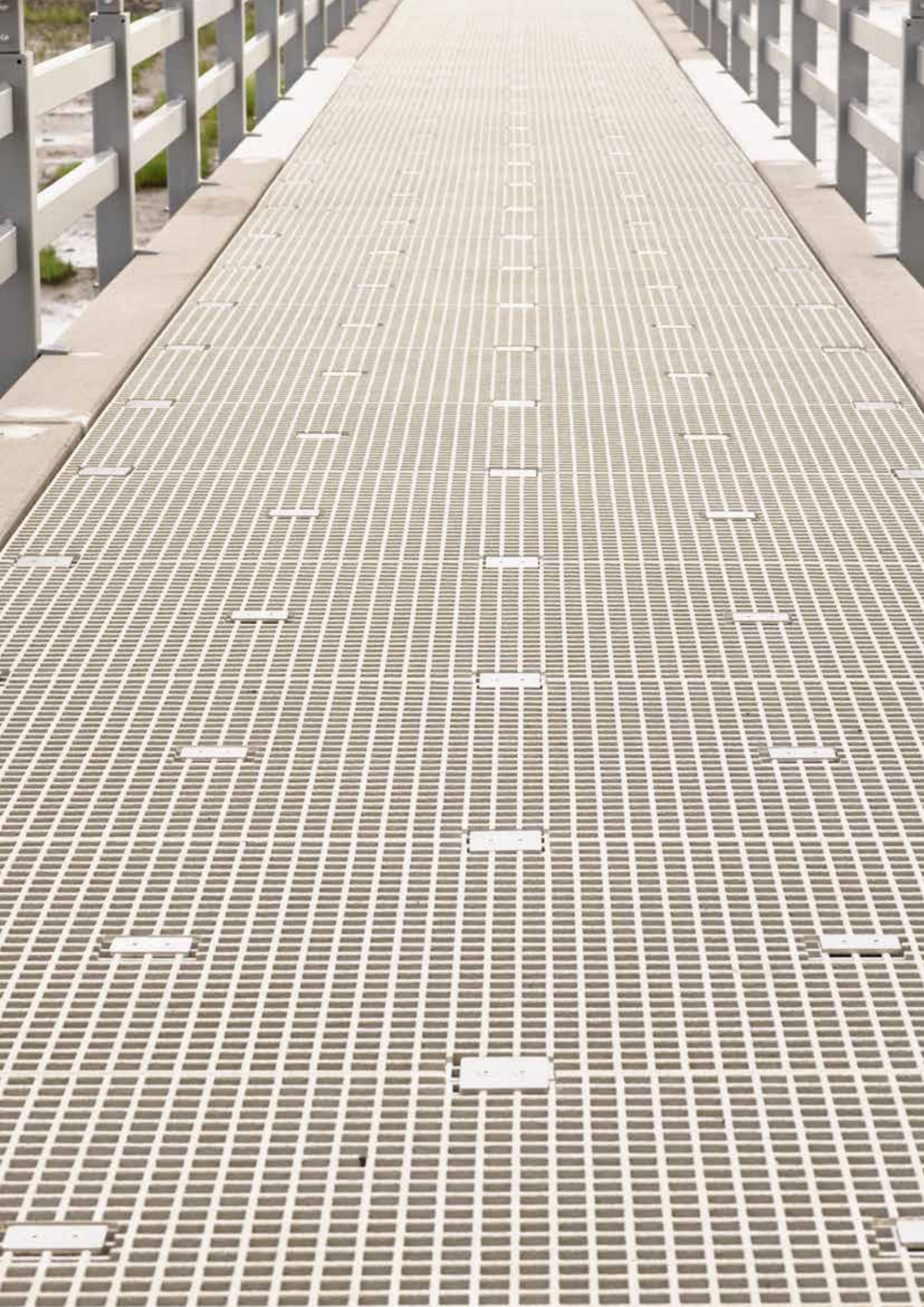
2. The difference in height should not exceed 4 mm at joints of loaded and unloaded panels. Should the elastical deflection reach $1/200 > 4$ mm, the unsupported joints should be secured by double clamps. The use of double clamps with GRP-flooring systems has a significant impact on the achieved span. Take notice of the colour-highlighted table values.

Advice:

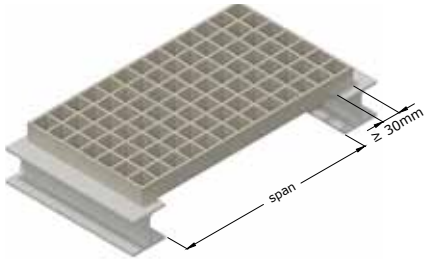
Should your specified loading condition not be mentioned, please feel free to contact us. Please observe that application-specific requirements of gratings have to be checked by the operator.

———— Moulded GRP gratings

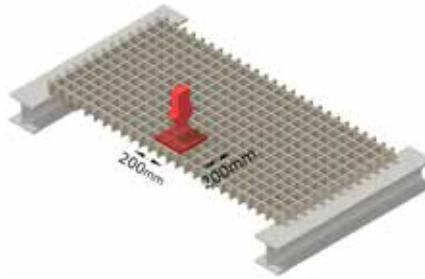




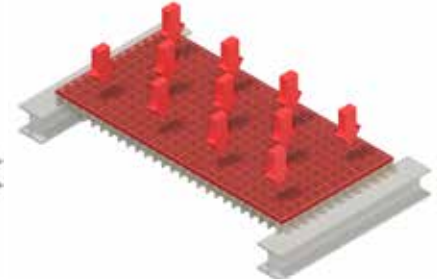
Square mesh < 10 mm



Pointload F_p



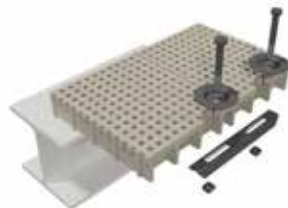
Uniformly distributed load (UDL) F_v



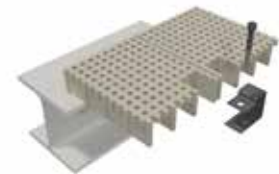
| Grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom (SU)/Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 30 | 5 / 7 | 13,3 x 13,3 | 580 | 2,89 | 820 | 4,10 | 1056 | 5,26 |
| 38 | 5 / 7 | 13,3 x 13,3 | 927 | 3,98 | 1430 | 7,13 | 1344 | 6,69 |

| Grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom (SU)/Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 38 | 5 / 7 | 13,3 x 13,3 | 489 | 2,43 | 570 | 2,85 | 778 | 3,87 |
| 38 | 5 / 7 | 13,3 x 13,3 | 816 | 3,98 | 1240 | 6,18 | 990 | 4,93 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps or butt joints.

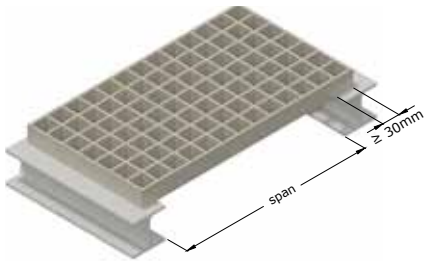


Double clamp

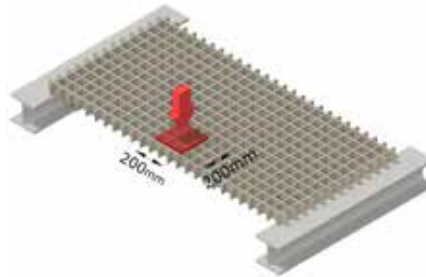


Butt joint

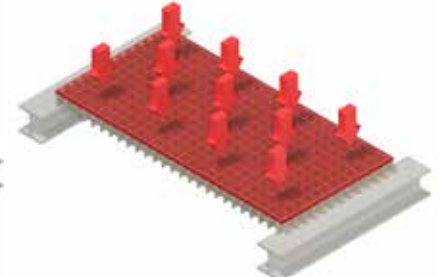
Square mesh max. 14 mm



Pointload F_p



Uniformly distributed load (UDL) F_v



| Grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom (SU)/Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 15 | 5 / 6,4 | 20 x 20 | 222 | 1,11 | as before | | 513 | 2,56 |
| 25 | 5 / 6,4 | 19 x 19 | 428 | 2,13 | as before | | 876 | 4,36 |
| 30 | 5 / 7 | 20 x 20 | 519 | 2,58 | 663 | 3,30 | 1002 | 4,98 |
| 38 | 5 / 7 | 20 x 20 | 878 | 3,98 | 1350 | 6,74 | 1292 | 6,43 |
| 40 | 5 / 7 | 20 x 20 | 913 | 3,98 | 1406 | 7,00 | 1330 | 6,63 |

| Grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom (SU)/Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 15 | 5 / 6,4 | 20 x 20 | 201 | 1,00 | as before | | 378 | 1,88 |
| 25 | 5 / 6,4 | 19 x 19 | 376 | 1,87 | as before | | 646 | 3,21 |
| 30 | 5 / 7 | 20 x 20 | 454 | 2,26 | as before | | 738 | 3,67 |
| 38 | 5 / 7 | 20 x 20 | 753 | 3,75 | 1170 | 5,83 | 952 | 4,74 |
| 40 | 5 / 7 | 20 x 20 | 804 | 3,98 | 1220 | 6,07 | 980 | 4,88 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps or butt joints.

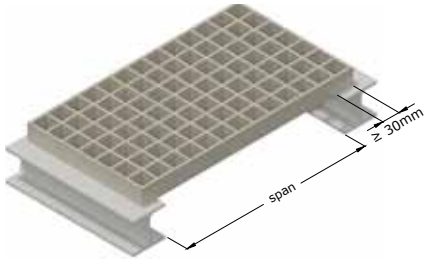
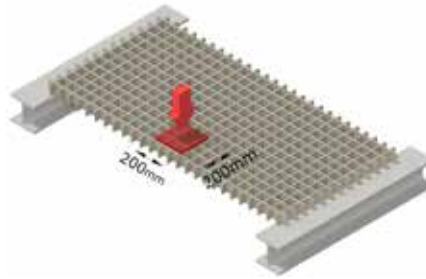
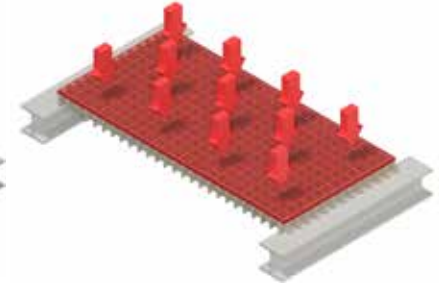


Double clamp



Butt joint

Square mesh max. 19 mm

Pointload F_p Uniformly distributed load (UDL) F_v 

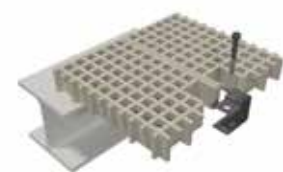
| Grating | | | Pointload $F_p = 1,5$ kN | | | | Uniformly distributed load (UDL) $F_v = 2,0$ kN/m ² | |
|--------------------|---|-----------------------------|--------------------------|--------------------|--------------|--------------------|---|--------------------|
| Height (H) [mm] | Bar Thickness Bottom (SU)/Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 30 | 5 / 7 | 26 x 26 | 480 | 2,39 | 560 | 2,80 | 918 | 4,57 |
| 38 | 5 / 7 | 26 x 26 | 810 | 3,99 | 1140 | 5,67 | 1160 | 5,80 |
| 50 | 6 / 8 | 25,3 x 25,3 | 1202 | 3,98 | 1704 | 8,48 | 1532 | 7,62 |

| Grating | | | Pointload $F_p = 2,0$ kN | | | | Uniformly distributed load (UDL) $F_v = 5,0$ kN/m ² | |
|--------------------|---|-----------------------------|--------------------------|--------------------|--------------|--------------------|---|--------------------|
| Height (H) [mm] | Bar Thickness Bottom (SU)/ Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 30 | 5 / 7 | 26 x 26 | 421 | 2,10 | as before | | 676 | 3,37 |
| 38 | 5 / 7 | 26 x 26 | 640 | 3,19 | 990 | 4,93 | 854 | 4,25 |
| 50 | 6 / 8 | 25,3 x 25,3 | 1050 | 3,99 | 1480 | 7,39 | 1130 | 5,65 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps or butt joints.

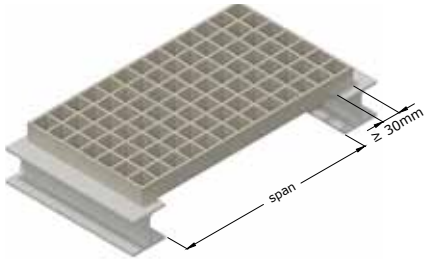


Double clamp

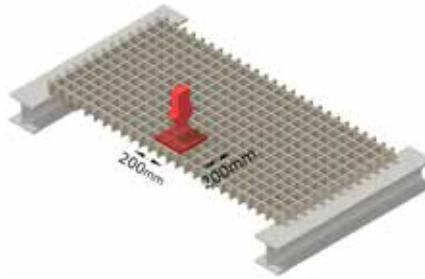


Butt joint

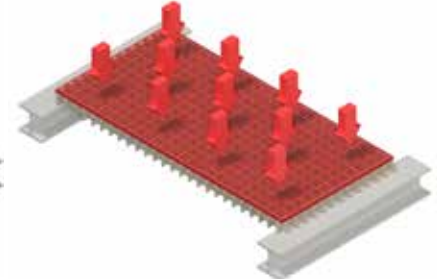
Square mesh max. 28 mm



Pointload F_p



Uniformly distributed load (UDL) F_v



| Grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 40 | 9 / 10 | 38,1 x 38,1 | 983 | 3,98 | 1540 | 7,70 | 1416 | 7,05 |
| 50 | 9 / 11 | 38,1 x 38,1 | 1342 | 3,98 | 2143 | 10,66 | 1770 | 8,82 |
| 60 | 9 / 11 | 38,1 x 38,1 | 1853 | 3,98 | 3010 | 14,99 | 2220 | 11,05 |

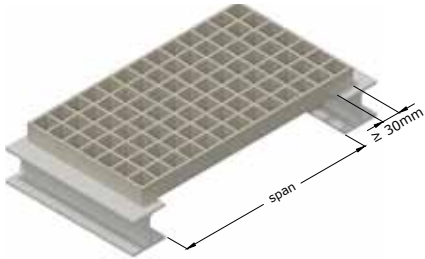
| Grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 40 | 9 / 10 | 38,1 x 38,1 | 865 | 3,98 | 1333 | 6,63 | 1043 | 5,19 |
| 50 | 9 / 11 | 38,1 x 38,1 | 1177 | 3,98 | 1860 | 9,28 | 1304 | 6,49 |
| 60 | 9 / 11 | 38,1 x 38,1 | 1620 | 3,98 | 2610 | 13,02 | 1636 | 8,14 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps.

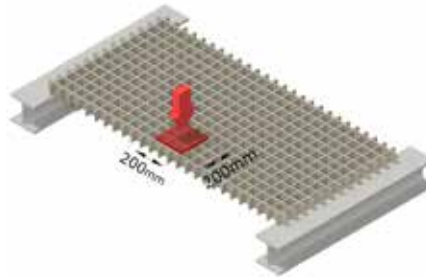


Double clamp

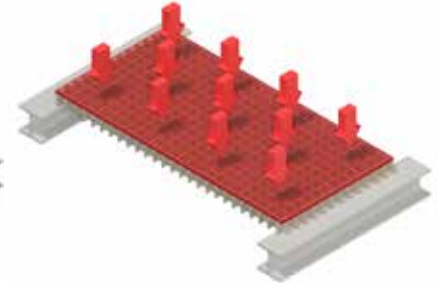
Square mesh max. 33 mm



Pointload F_p



Uniformly distributed load (UDL) F_v



| Grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 13 | 5 / 6 | 38,1 x 38,1 | n.a. | n.a. | n.a. | n.a. | 398 | 1,98 |
| 20 | 5 / 6,4 | 38,1 x 38,1 | 270 | 1,35 | as before | | 613 | 3,05 |
| 25 | 5 / 6,4 | 38,1 x 38,1 | 363 | 1,81 | as before | | 775 | 2,86 |
| 25 | 5 / 6,6 | 40 x 40 | 366 | 1,82 | as before | | 776 | 3,86 |
| 30 | 5 / 6,6 | 38,1 x 38,1 | 455 | 2,27 | as before | | 916 | 4,56 |
| 30 | 5 / 7 | 40 x 40 | 448 | 2,23 | as before | | 902 | 4,49 |
| 38 | 5 / 7 | 38,1 x 38,1 | 713 | 3,55 | 1110 | 5,51 | 1161 | 5,78 |
| 38 | 5 / 7 | 40 x 40 | 700 | 3,50 | 1091 | 5,43 | 1142 | 5,68 |
| 40 | 5 / 7 | 40 x 40 | 792 | 3,94 | 1211 | 6,03 | 1202 | 5,98 |
| 50 | 6 / 8 | 38,1 x 38,1 | 1097 | 3,98 | 1730 | 8,61 | 1533 | 7,63 |
| 60 | 7 / 9 | 38,1 x 38,1 | 1510 | 3,98 | 2430 | 12,12 | 1923 | 9,57 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps or butt joints.

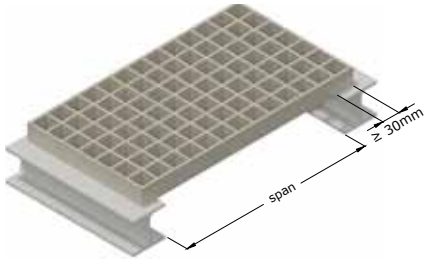


Double clamp

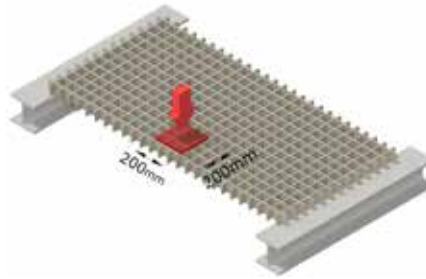


Butt joint

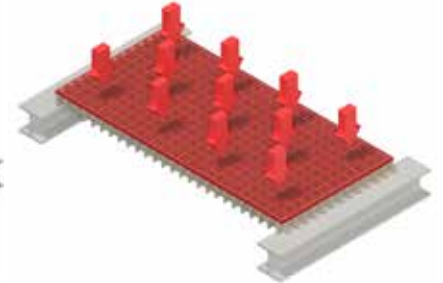
Square mesh max. 33 mm



Pointload F_p



Uniformly distributed load (UDL) F_v

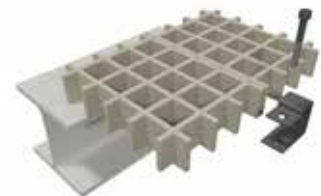


| Grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 13 | 5 / 6 | 38,1 x 38,1 | n.a. | n.a. | n.a. | n.a. | 294 | 1,61 |
| 20 | 5 / 6,4 | 38,1 x 38,1 | 242 | 1,20 | as before | | 452 | 2,25 |
| 25 | 5 / 6,4 | 38,1 x 38,1 | 321 | 3,86 | as before | | 571 | 2,84 |
| 25 | 5 / 6,6 | 40 x 40 | 323 | 1,61 | as before | | 572 | 2,85 |
| 30 | 5 / 6,6 | 38,1 x 38,1 | 400 | 2,00 | as before | | 675 | 3,36 |
| 30 | 5 / 7 | 40 x 40 | 394 | 1,96 | as before | | 664 | 3,31 |
| 38 | 5 / 7 | 38,1 x 38,1 | 576 | 2,86 | 791 | 3,93 | 855 | 4,26 |
| 38 | 5 / 7 | 40 x 40 | 563 | 2,80 | 780 | 3,90 | 842 | 4,19 |
| 40 | 5 / 7 | 40 x 40 | 633 | 3,15 | 940 | 4,69 | 886 | 4,41 |
| 50 | 6 / 8 | 38,1 x 38,1 | 965 | 3,98 | 1500 | 7,47 | 1130 | 5,63 |
| 60 | 7 / 9 | 38,1 x 38,1 | 1322 | 3,98 | 2103 | 10,46 | 1417 | 7,05 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps or butt joints.

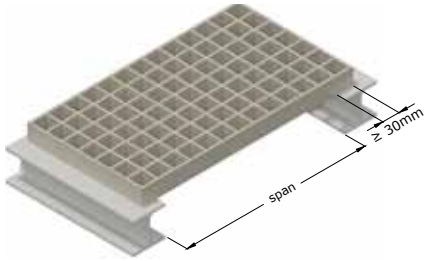


Double clamp

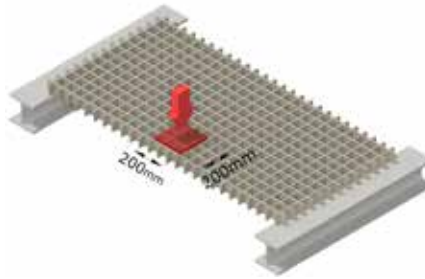


Butt joint

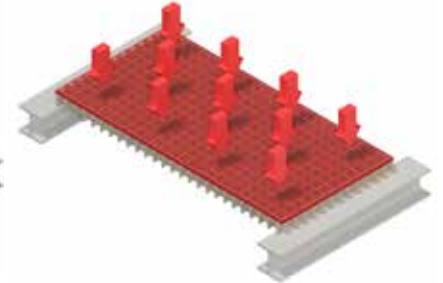
Square mesh max. 44 mm



Pointload F_p



Uniformly distributed load (UDL) F_v



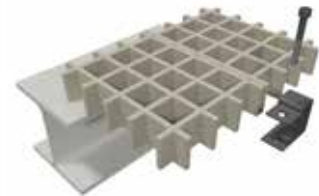
| Grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 13 | 5 / 6,5 | 50,7 x 50,7 | n.a. | n.a. | n.a. | n.a. | 362 | 1,80 |
| 50 | 6 / 8 | 50,7 x 50,7 | 1022 | 3,98 | 1443 | 7,18 | 1370 | 6,82 |

| Grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 13 | 5 / 6,5 | 50,7 x 50,7 | n.a. | n.a. | n.a. | n.a. | 267 | 1,33 |
| 50 | 6 / 8 | 50,7 x 50,7 | 894 | 3,98 | 1252 | 6,23 | 1010 | 5,04 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps or butt joints.

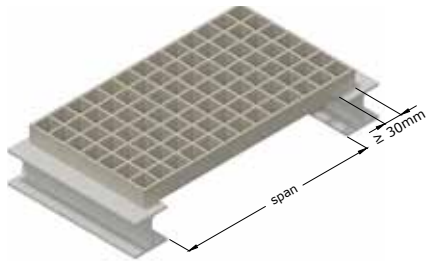


Double clamp

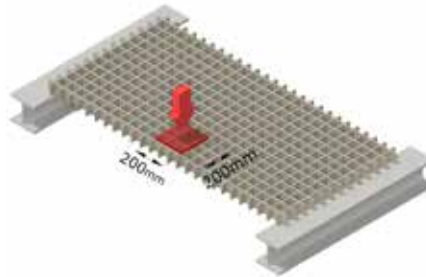


Butt joint

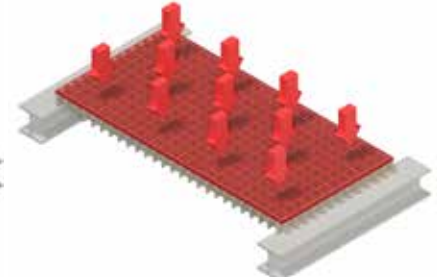
Rectangular mesh



Pointload F_p



Uniformly distributed load (UDL) F_v



| Grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 5 / 7 | 25,4 x 101,6 | 423 | 2,11 | as before | | 902 | 4,49 |
| 38 | 5 / 7 | 25,4 x 152,4 | 825 | 3,98 | 1230 | 6,13 | 1330 | 6,64 |
| 38 | 5 / 7 | 38,1 x 101,6 | 713 | 3,55 | 1110 | 5,55 | 1161 | 5,78 |
| 50 | 5 / 8 | 38,1 x 152,4 | 1097 | 3,98 | 1730 | 8,61 | 1533 | 7,63 |

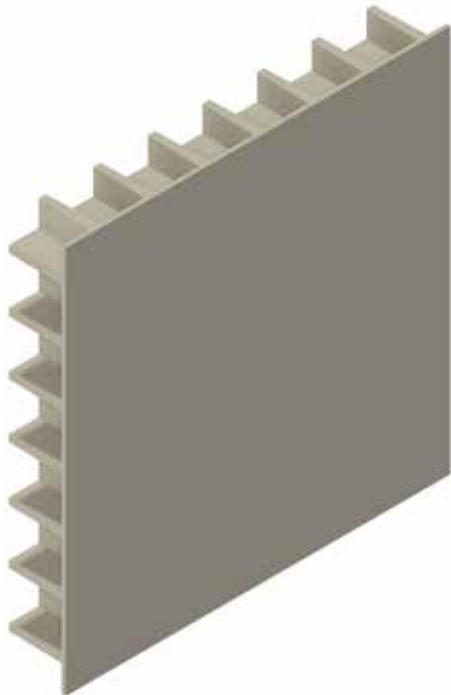
| Grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 5 / 7 | 25,4 x 101,6 | 372 | 1,85 | as before | | 665 | 3,31 |
| 38 | 5 / 7 | 25,4 x 152,4 | 692 | 3,44 | 921 | 4,58 | 980 | 4,89 |
| 38 | 5 / 7 | 38,1 x 101,6 | 576 | 2,86 | 791 | 3,93 | 855 | 4,26 |
| 50 | 5 / 8 | 38,1 x 152,4 | 965 | 3,98 | 1500 | 7,47 | 1130 | 5,63 |

The highlighted spans are allowed, if the moulded GRP-gratings are supported on all edges also unsupported joints are secured by double clamps.



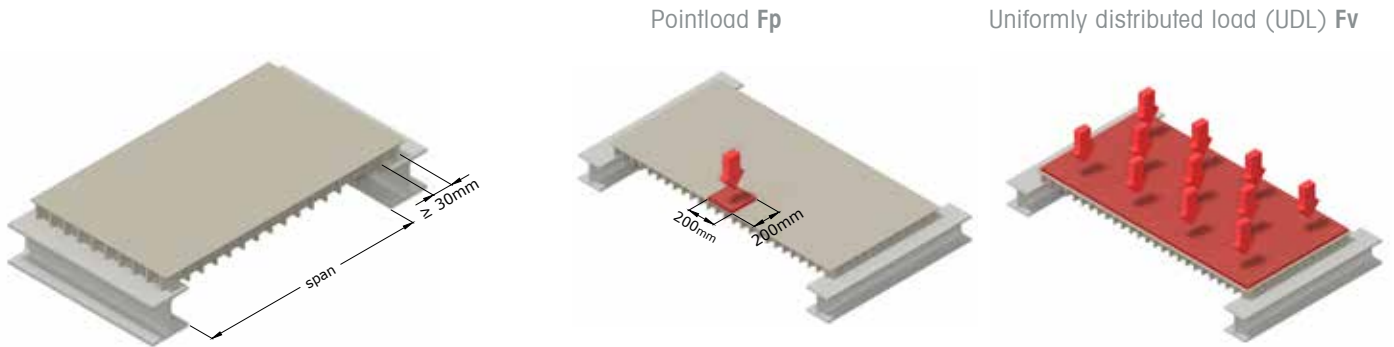
Double clamp

———— GRP safety flooring





Stock sizes



| GRP safety flooring | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|---------------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 30 (27+3) | 5 / 7 | 38,1 x 38,1 | 580 | 2,89 | 1040 | 5,20 | 1086 | 5,41 |
| 38 (35+3) | 5 / 7 | 38,1 x 38,1 | 858 | 3,98 | 1382 | 6,87 | 1320 | 6,60 |
| 50 (47+3) | 6 / 8 | 50,7 x 50,7 | 1353 | 3,98 | 2030 | 10,11 | 1722 | 8,57 |

| GRP safety flooring | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|---------------------|--|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Bottom(SU)/ Top(SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 30 (27+3) | 5 / 7 | 38,1 x 38,1 | 505 | 2,51 | 780 | 3,89 | 800 | 3,98 |
| 38 (35+3) | 5 / 7 | 38,1 x 38,1 | 712 | 3,54 | 1200 | 5,99 | 971 | 4,83 |
| 50 (47+3) | 6 / 8 | 50,7 x 50,7 | 1171 | 3,98 | 1760 | 8,77 | 1270 | 6,34 |

The highlighted spans are allowed, if the GRP safety floorings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

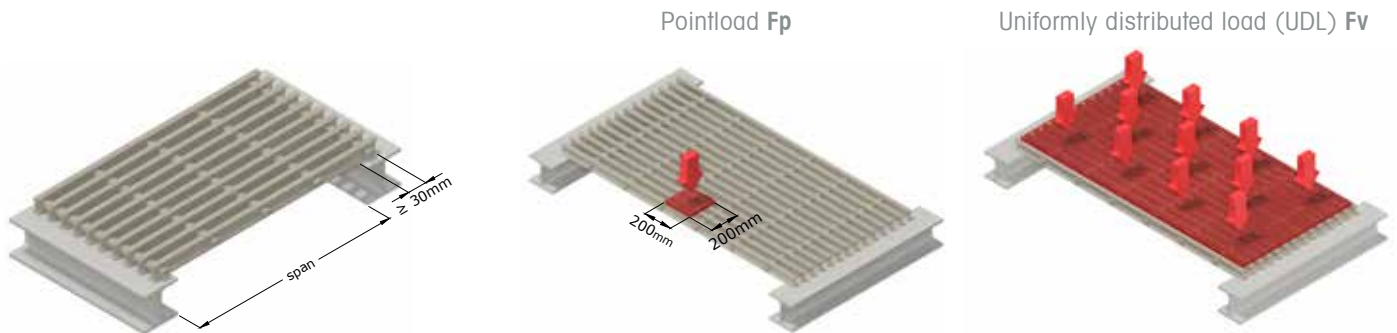
———— Pultruded GRP grating





SAFETY
WARNING
READ CAREFULLY
BEFORE USE
1. Before use, check the load capacity.
2. Do not use the walkway if the load capacity is exceeded.
3. Do not use the walkway if the surface is wet or icy.
4. Do not use the walkway if the surface is uneven or slippery.
5. Do not use the walkway if the surface is too hot or too cold.
6. Do not use the walkway if the surface is too dark or too bright.
7. Do not use the walkway if the surface is too noisy or too quiet.
8. Do not use the walkway if the surface is too fast or too slow.
9. Do not use the walkway if the surface is too high or too low.
10. Do not use the walkway if the surface is too far or too near.
11. Do not use the walkway if the surface is too wide or too narrow.
12. Do not use the walkway if the surface is too long or too short.
13. Do not use the walkway if the surface is too deep or too shallow.
14. Do not use the walkway if the surface is too heavy or too light.
15. Do not use the walkway if the surface is too soft or too hard.
16. Do not use the walkway if the surface is too rough or too smooth.
17. Do not use the walkway if the surface is too dry or too wet.
18. Do not use the walkway if the surface is too clean or too dirty.
19. Do not use the walkway if the surface is too new or too old.
20. Do not use the walkway if the surface is too good or too bad.
21. Do not use the walkway if the surface is too perfect or too imperfect.
22. Do not use the walkway if the surface is too beautiful or too ugly.
23. Do not use the walkway if the surface is too nice or too mean.
24. Do not use the walkway if the surface is too kind or too cruel.
25. Do not use the walkway if the surface is too gentle or too harsh.
26. Do not use the walkway if the surface is too soft or too firm.
27. Do not use the walkway if the surface is too loose or too tight.
28. Do not use the walkway if the surface is too easy or too difficult.
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94. Do not use the walkway if the surface is too simple or too complicated.
95. Do not use the walkway if the surface is too easy or too hard.
96. Do not use the walkway if the surface is too soft or too hard.
97. Do not use the walkway if the surface is too loose or too tight.
98. Do not use the walkway if the surface is too easy or too difficult.
99. Do not use the walkway if the surface is too simple or too complex.
100. Do not use the walkway if the surface is too basic or too advanced.

I-bar type pultruded GRP grating up to 10 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 25 x 152 | 807 | 4,00 | 867 | 4,31 | 1353 | 6,73 |
| 30 | | | 967 | 3,98 | 1274 | 6,34 | 1584 | 7,88 |
| 38 | | | 1230 | 3,98 | 2160 | 10,75 | 1940 | 9,66 |

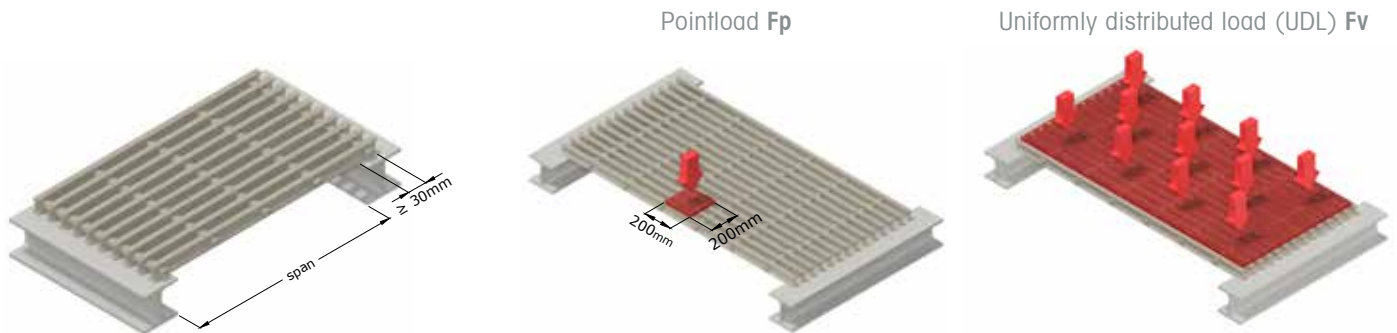
| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 25 x 152 | 680 | 3,40 | 706 | 3,51 | 997 | 4,96 |
| 30 | | | 865 | 3,98 | 1020 | 5,09 | 1167 | 5,81 |
| 38 | | | 1097 | 3,98 | 1690 | 8,42 | 1430 | 7,13 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

I-bar type pultruded GRP grating up to 15 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------------|-----------------------------|----------------------------------|--------------------|--------------|--------------------|--|--------------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 30 x 152 | 751 | 3,74 | 800 | 3,99 | 1273 | 6,33 |
| 30 | | | 927 | 3,98 | 1200 | 6,00 | 1491 | 7,42 |
| 38 | | | 1184 | 3,98 | 2080 | 10,40 | 1825 | 9,08 |

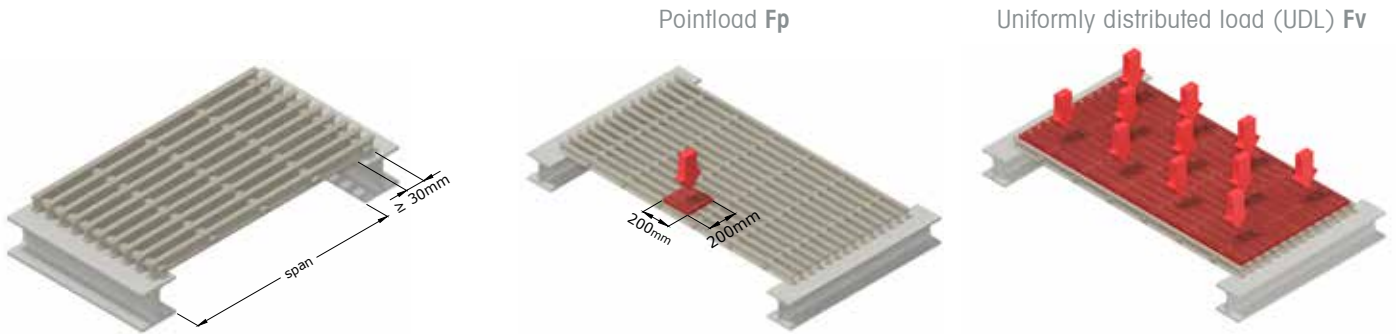
| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------------|-----------------------------|----------------------------------|--------------------|--------------|--------------------|--|--------------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 30 x 152 | 630 | 3,14 | 647 | 3,22 | 938 | 4,67 |
| 30 | | | 828 | 3,98 | 950 | 4,75 | 1100 | 5,50 |
| 38 | | | 1054 | 3,98 | 1610 | 8,03 | 1345 | 6,69 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

I-bar type pultruded GRP grating up to 23 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 38 x 152 | 684 | 3,40 | 715 | 3,56 | 1177 | 5,86 |
| 30 | | | 880 | 3,98 | 1103 | 5,49 | 1380 | 6,90 |
| 38 | | | 1131 | 3,98 | 1980 | 9,90 | 1687 | 8,39 |

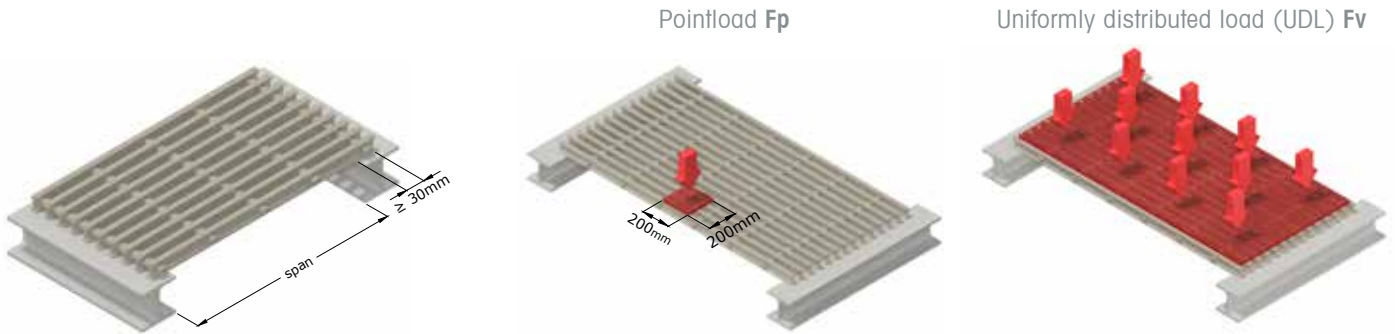
| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 38 x 152 | 572 | 2,85 | as before | | 867 | 4,32 |
| 30 | | | 774 | 3,85 | 862 | 4,29 | 1015 | 5,05 |
| 38 | | | 1003 | 3,98 | 1511 | 7,52 | 1243 | 6,19 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

T-bar type pultruded GRP grating up to 10 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 25 x 152 | 713 | 3,55 | 741 | 3,68 | 1263 | 6,29 |

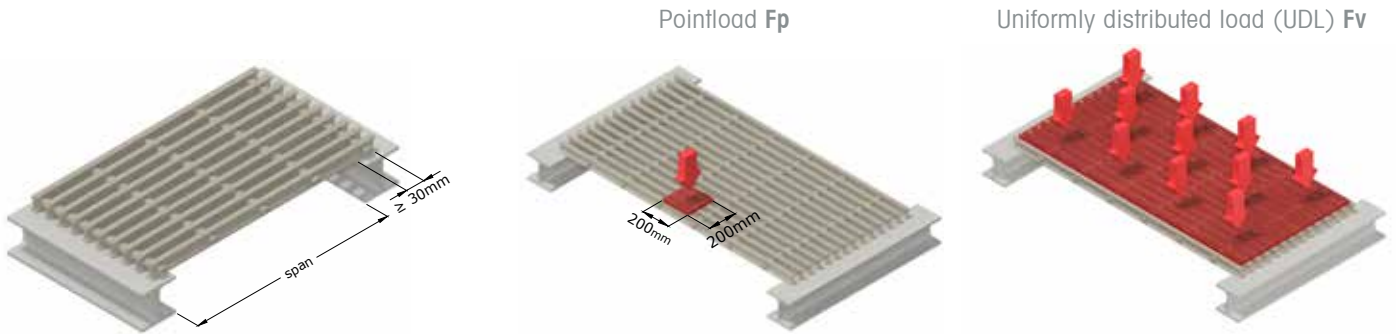
| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 38 x 152 | 602 | 3,00 | 610 | 3,04 | 931 | 4,63 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

T-bar type pultruded GRP grating up to 13 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 50,8 | 25 | 38 x 152 | 1761 | 3,98 | 3331 | 16,57 | 2380 | 11,87 |

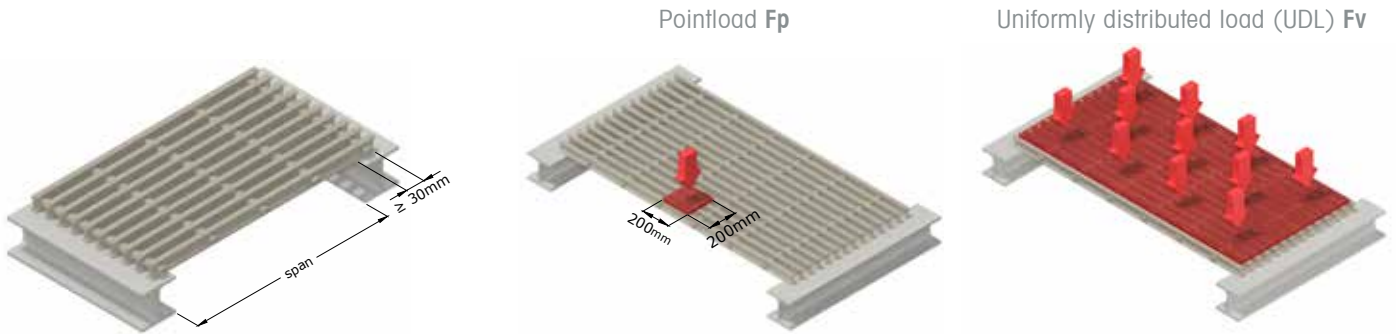
| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 50,8 | 25 | 38 x 152 | 1553 | 3,98 | 2890 | 14,42 | 1753 | 8,72 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

T-bar type pultruded GRP grating up to 15 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|---|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 30 x 152 | 661 | 3,29 | 677 | 3,37 | 1190 | 5,94 |

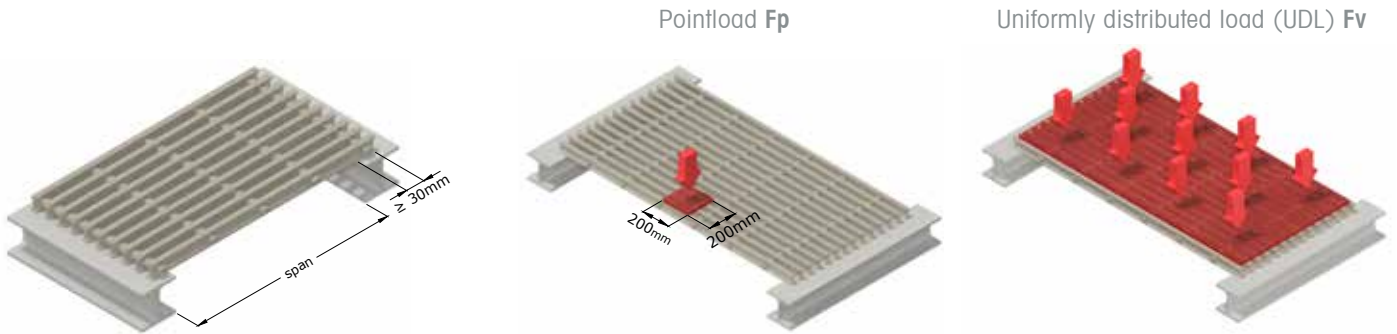
| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|---|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 30 x 152 | 558 | 2,77 | as before | | 876 | 4,36 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

T-bar type pultruded GRP grating up to 23 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 38 x 152 | 600 | 2,99 | as before | | 1100 | 5,49 |

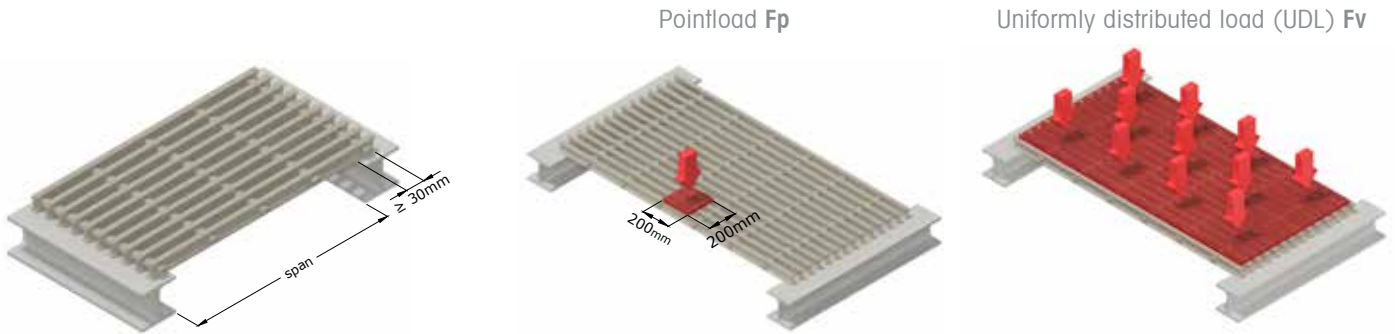
| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|--|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 25 | 15 | 38 x 152 | 513 | 2,55 | as before | | 810 | 4,04 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

T-bar type pultruded GRP grating up to 25 mm bearing bar distance



| Pultruded GRP grating | | | Pointload $F_p = 1,5 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 2,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|---|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 50,8 | 25 | 50 x 152 | 1700 | 4,00 | 2922 | 14,54 | 2171 | 10,80 |

| Pultruded GRP grating | | | Pointload $F_p = 2,0 \text{ kN}$ | | | | Uniformly distributed load (UDL) $F_v = 5,0 \text{ kN/m}^2$ | |
|-----------------------|-----------------------------|-----------------------|----------------------------------|-----------------|-----------|-----------------|---|-----------------|
| Height (H) [mm] | Bar Thickness Top (SO) [mm] | Meshspacing (MT) [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] | Span [mm] | Deflection [mm] |
| 50,8 | 25 | 50 x 152 | 1492 | 3,98 | 2532 | 12,60 | 1600 | 7,98 |

The highlighted spans are allowed if the pultruded GRP gratings are supported on all edges also unsupported joints are secured by double clamps.



Double clamp

Your contact persons

We are pleased to help you!



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