## Expanded Metal Grating

## LOAD \& DEFLECTION TABLE

Deflections shown in shaded areas can be safely used at the discretion of the engineer: however, these deflections exceed $1 / 4$ ".


## Expanded Metal Grating

## LOAD \& DEFLECTION TABLE



CONCENTRATED LOAD: A load that is concentrated over a small area. Example, a pedestrian load, or light equipment load. Concentrated loads are shown in lbs per ft. of grating width measured perpendicular to span. (ie, in SWD Direction)

UNIFORM LOAD: A load that is equally distributed over all of the clear span. Measured in lbs per sq. ft. (i.e., inventories stacked on shelving.)

DEFLECTION: The deviation in inches from the original plane when the grating is placed under a load.

CLEAR SPAN: The distance between supporting members measured from the inside bearing point of one supporting member to the inside bearing point of the next supporting member.

## AMICO GRATING APPLICATION GUIDE

This table is a convenient means of selecting grating for typical walk-way installations. If the distance between supports, and the load to be carried are known, the most economical type of grating to be used may be selected from the table below. Expanded metal grating has its greatest resistance to bending in the direction of the long way of the diamond. The LWD should always be placed across the span for best results.

| Concentrated Load Lbs. | LOAD IN | CLEAR SPAN |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Per Foot of Width | POUNDS | 24" | 30" | 36" | 42" | 48" | 54" | 60" |
| Occasional Pedest. Load (Window Washers) | 50\# | $\begin{gathered} 3.0 \# \\ 3.14 \# * \end{gathered}$ | $\begin{gathered} 3.0 \# \\ 3.14 \# * \end{gathered}$ | $\begin{gathered} 3.0 \# \\ 3.14 \# * \end{gathered}$ | $\begin{gathered} \text { 4.0\# } \\ \text { 4.27\#** } \end{gathered}$ | $\begin{gathered} 4.0 \# \\ 4.27 \#^{* *} \end{gathered}$ | 5.0\# | 6.25\# |
| Normal Pedest. Load | 100\# | $\begin{gathered} 3.0 \# \\ 3.14 \# * \end{gathered}$ | $\begin{gathered} 3.0 \# \\ 3.14 \# * \end{gathered}$ | $\begin{gathered} 1.0 \# \\ 4.27 \# * * \end{gathered}$ | 5.0\# | 6.25\# |  |  |
| Heavy Pedest. ( With Light Equip.) | 150\# | $\begin{gathered} 3.0 \# \\ 3.14 \# * \end{gathered}$ | $\begin{aligned} & 4.0 \# \\ & 4.27 \# * * \end{aligned}$ | 5.0\# | 6.25\# |  |  |  |
|  | 200\# | $\begin{gathered} 3.14 \# \\ 4.0 \# \end{gathered}$ | $\begin{gathered} 4.0 \# \\ 4.27 \#^{* *} \end{gathered}$ | 6.25\# | 7.0\# |  |  |  |
|  | 250\# | $\begin{gathered} 4.0 \# \\ 4.27 \#^{\star *} \end{gathered}$ | 5.0\# |  |  |  |  |  |
|  | 300\# | $\begin{gathered} 4.0 \# \\ 4.27 \#^{* *} \end{gathered}$ | 6.25\# |  |  |  |  |  |
|  | 350\# | $\begin{gathered} 4.0 \# \\ 4.27 \# * * \end{gathered}$ | 6.25\# |  |  |  |  |  |
|  | 400\# | $\begin{gathered} 4.0 \# \\ 4.27 \#^{\star *} \end{gathered}$ | 6.25\# |  |  |  |  |  |

*3.14\# grating in lieu of 3\# if the application requires a grating having a larger diamond. Example: Outside catwalk in ice and snow.
**4.27\# grating may be used in lieu of 4\# if the application requires a smaller diamond to afford protection from dropped tools and other objects.

