

Load Diagram for Tubes according to EN 10220

Recommended specifications for Roller Shutters, Rolling Grilles, etc.

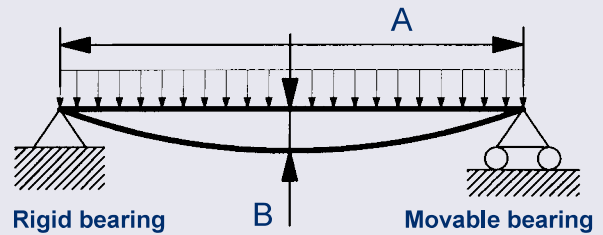
The load specifications detailed below apply to static loads on steel structures.

In roller-shutter construction, these tubes are used as winding shafts for the shutter slats.

Up to a tube length (i.e. door width) of approx. 10 m, between the bearings a maximum deflection of 1/500 can be taken into account.

Example


With a door width of 5 m, the deflection should not exceed 10 mm. Please obtain the maximum permitted worth from the supplier of the tube. Please contact us if you intend to install doors of larger width.

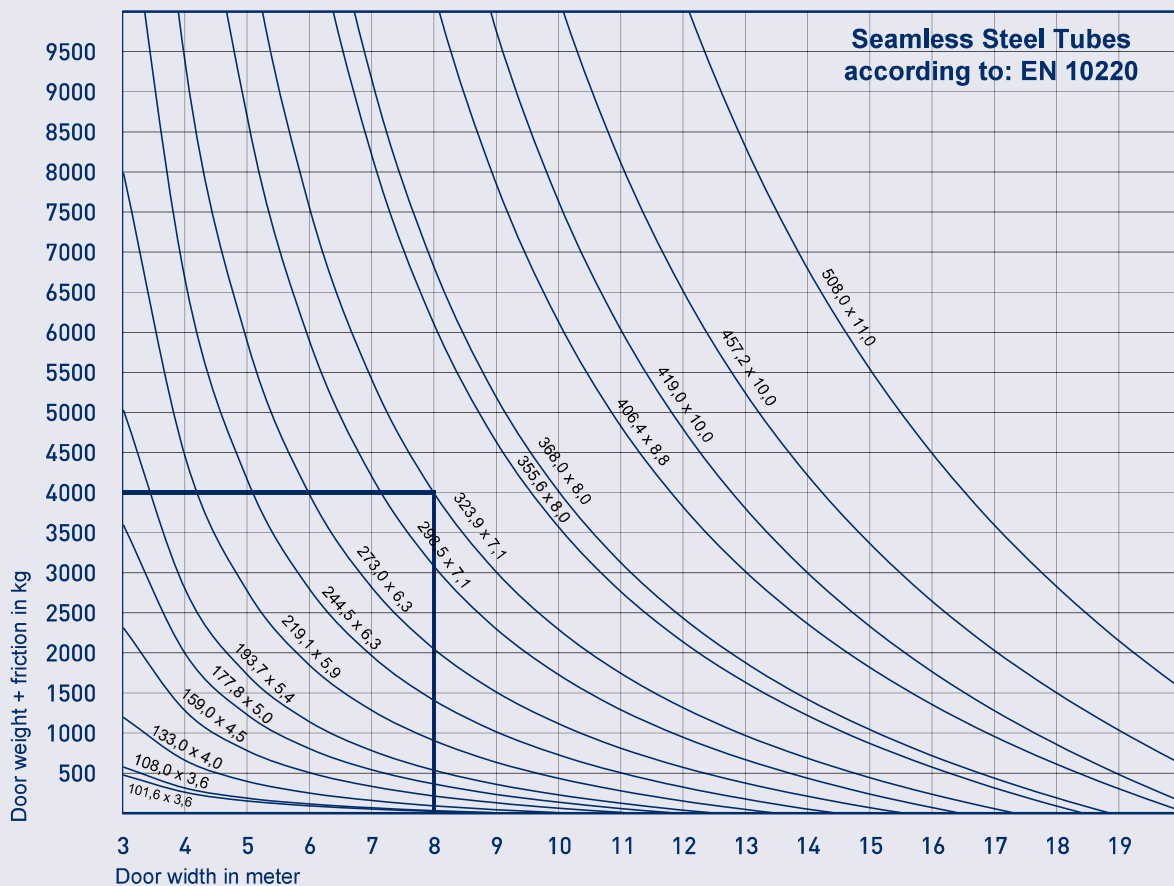


$$B/A \leq 1/500$$

A = Door width

B = Deflection of the tube resulting door weight and tube weight

 Edge loading resulting from door weight and tube weight



Example:

■ Door weight + friction: 4000 kg
 Door width 8.0 m
 = Smallest tube to be used: 323.9 x 7.1

■ Assuming deflection of 1/500 of tube length