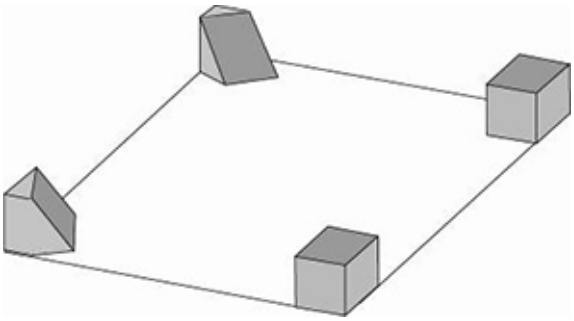
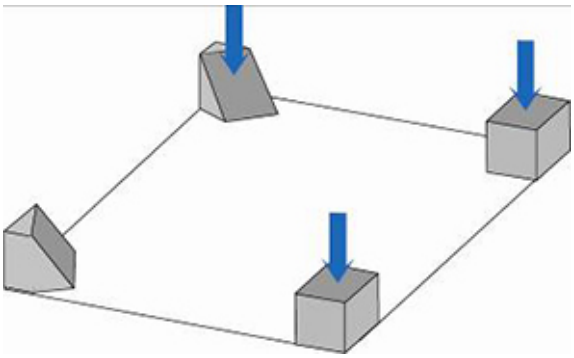
Stability principle: DEDRA 600 grating D400 class

The DEDRA 600 gratings use the stability principle "2 oblique supports + 2 plane supports ".

Schematization of the stability principle



Position of the supports on the frame



Application of the solicitations

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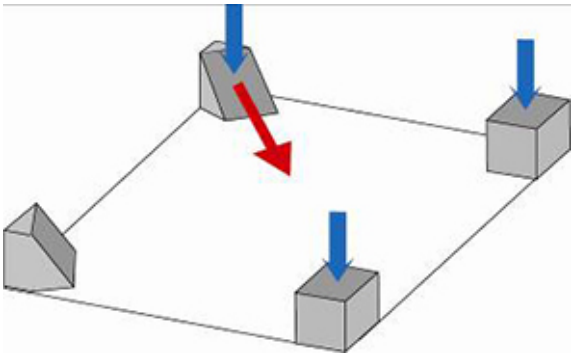
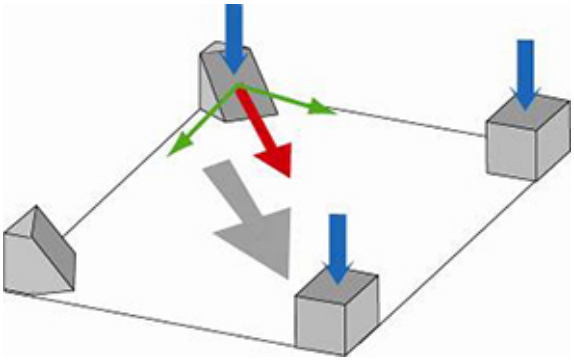
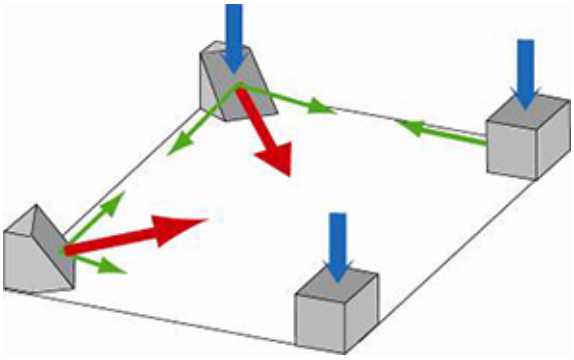


Reaction on first oblique support



Positioning of the grating



Reaction on second oblique support and plane support

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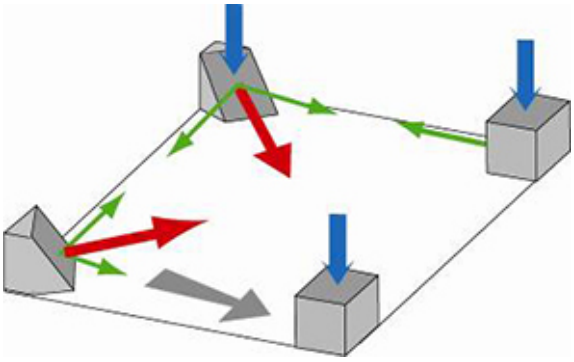
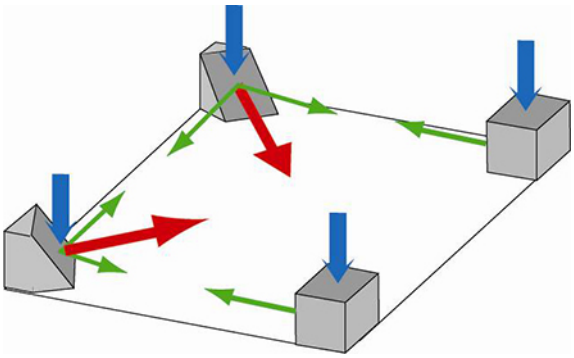


Positioning of the grating



Reaction on second plane support
= equilibrium

Legend:
Blue arrow: Solicitations generated by the traffic.
Red arrow: Reaction force of the supports.
Green arrow: Resultant of the reaction forces.
Grey arrow: Positioning of the grating [Weak displacements to find stable supports].

The spring bar is not in permanent tension (passive bar) because it must not be opposed to the light displacement of the grating so that this one finds its supports.

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