

B7

Flight of Stairs

B7 allows you to perform the static calculation of a single flight of stairs.

The geometry, composed of treads / pedestals / consoles is taken into account.

For a given height, the program is able to propose the dimensions of the steps. Guidelines for steps, safety and usability are taken into consideration.

Standards

- DIN EN 1992
- ÖNORM EN 1992
- BS EN 1992
- EN 1992
- DIN 1045 / DIN 1045-1
- ÖNorm B 4700:2001

See also: list of the implemented euro-standards for each program
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Support / landing

For the support of the flight of stairs you can choose between the following types:

- rigid support of the landing
- hinged support with console
- hinged support without console

Loads

A permanent load g and live load q can be applied independantly on flight and landing.

The live load can be assigned to an action group (important for the ψ values).

Output

The output includes the system graph, the complete system values, the structural system, the loads and optionally, the durability requirements and the design of the stair flight (bending design, shear design and crack width ver-

ification). The result of the bending design proposes a bending reinforcement (number of bars, diameter and spacing). The user can edit and customize the proposed reinforcement.

The crack width verification is based on the quasi-permanent load combination.

If the flight of stairs is restrained on one or both sides, a reinforcement proposal is submitted for the point(s) of restraint and the crack width verification is performed in addition to the bending design and the shear design.

The reactions, the characteristic as well as the design values, are listed separately, according to permanent and live loads. Also the combined reactions are represented.

