

## B7 – Flight of Stairs

The B7 application is a stand-alone tool, based on the Nemetschek FRILO input-concept.

B7 is intended for the static calculation of a single flight of stairs.

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

The software comes up with a proposal for the dimensions based on a given height. Directives for the steps are considered, as well as rules for usability / comfort and safety.

### Design

Following design codes are available:

- EN 1992-1-1:2004
- NEN EN 1992-1-1/NA:2007
- NBN EN 1992-1-1/NA:2010

- CSN EN 1992-1-1/NA:2007

### Support / pedestals

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

- Rigid support of the pedestal
- Hinged support with console
- Hinged support without console.

### Loading

A permanent load **G** and mobile load **P** can be applied independantly on flight and landing.

### Output

The output contains all systemvalues, the static system and the geometric design of the flight of stairs.

The reactions, the characteristic as well as the design values, are listed

separately, according to permanent and mobile loads. Also the combined reactions are represented.

The results are always displayed in m width.

### The FRILO-layout !

The Frilo input-concept allows you to enter or modify values in the graphic representation and/or in the numerical dialog. These modifications will automatically update the results in real time. Especially when modifying this approach brings great advantage when only a few values need to be changed. During the concept phase it makes sense to go through all of the input-fields one-by-one. However when entering values continuously it is very practical if you only need to change a particular value and immediately see the result.

