

# HO1+

## Timber Column

### Application options

The HO1+ application is suitable for the design of timber columns.

Available types are single-piece (circle, rectangle) and multi-piece cross sections connected to each other in a yielding joint. All partial cross sections and spacers must have the same cross sections and moduli of elasticity.

### Available standards

- EN 1995
- DIN EN 1995
- ÖNORM EN 1995
- NTC EN 1995
- BS EN 1995

### Available systems

- Cantilever columns
- Hinged columns, with or without cantilever

### Fasteners (multi-piece)

- Round nails
- Bolts
- Glue
- Dowel pins
- Fit bolts
- Special dowels

### Load

Vertical loads: concentrated loads with eccentricities in the directions of both main axes.

Horizontal loads: distributed loads, block loads, trapezoidal loads, concentrated loads; all loads can be defined in the direction of the main axes and with eccentricities.

### Hot design

Verifications under fire exposure are available.

### Calculation

For the calculation of composite cross sections with yielding connections, the cross sectional properties are calculated for an ideal individual member. The internal forces and deformations (with and without creep) are determined subsequently on the ideal member.

Verifications of the connecting components between the individual cross section parts (wooden spacers, diagonal struts, fasteners) are performed in the connection.

