## Press Release



Fellbach, June 2016

## **Interactive Design Aids according to BS EN 1992**

Calculation templates for design of concrete structures

In line with its motto "Nothing beats a great template." Veit Christoph GmbH, a software company specializing in computer programs for engineers now delivers its leading-edge software VCmaster complete with a large number of interactive design aids to BS EN.

These ready for use templates have been thoroughly researched and verified and are now available amongst others for design of concrete structures according to BS EN 1992.

They are extensively annotated with corresponding parameters for components, profiles, coefficients and materials being stored in a large number of linked databases. All design aids are freely editable, thus fully customizable to the individual needs of the engineering office.

VCmaster is seamlessly integrated into the familiar planning process, with several

**EXAMPLES TO EUROCODE** BS EN 1000.00 kN Clear high I f<sub>yk</sub> = ive height factor 500.0 N/mm Hight factor f 0.75 Effective hight  $I_0 = f^*I = 0.75*3000$ 2250.0 mm Limiting In/b ratio 0.289\*b = 0.289\*250.00  $\frac{I_0}{i} = \frac{2250.0}{72.25}$ λ = 31.14 0.7\*1.1\*1.7 ABC = 1.31 1000000  $\frac{h_{Ed}}{0.67^*b^*h^*f_{ck}} = \frac{1000000}{0.67^*250.00^*300.00^*300.0}$  $\frac{20^{\circ}ABC}{} = \frac{20^{\circ}1.31}{}$ 32.25 √0.66  $\frac{\lambda}{\lambda_{lim}} = \frac{31.14}{32.25}$ 0.97 ≤ 1 The column is not slender Interactive Design Aids for Structural Engineers

Example: Interactive Design Aids to BS EN 1992– Design of Concrete Structures

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interfaces guaranteeing data transfer from virtually every external software application. With VCmaster algorithms can be generated quickly and without prior programming knowledge. Additionally formulae are presented in a precise mathematical form.

Implementing VCmaster with its clever calculation templates into the daily work-flow will not only help save time, but ultimately will help cutting down on operating costs.

For more information about the design aids according to BS EN 1992 please visit www.vcmaster.com.

# Press Release





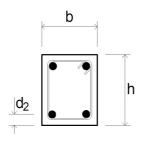
### **EXAMPLES TO EUROCODE**

Concrete Design to EN 1992

**BS EN** 

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#### Column with axial load



#### Data given

#### Material properties

Concrete grade C	=	C30/37
f <sub>ck</sub>	=	30.0 N/mm <sup>2</sup>
$f_{yk} =$		500.0 N/mm <sup>2</sup>

#### Effective height factor

Condition at top = Condition at bottom =		1 1
Hight factor f	=	0.75
Effective hight $I_0 = f*I = 0.75*3000$	=	2250.0 mm

#### Limiting I<sub>0</sub>/b ratio

The column is not slender

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