

## PRESS RELEASE

**Cobias reduces the weight of reinforced concrete slabs and facilitates their design calculation.**

The software tool quick & light is available for download in a completely revised version 2.1.0.4, and determines the statically-relevant input parameters for structural engineers.

Since 2016, Heinze Cobias Deutschland GmbH has been part of the Heinze Group, a group of leading companies from plastics technology which are active both nationally and internationally.

Over the course of national and international expansion, Cobias is now intensifying its service, amongst other things through the update and extension of the Cobias software tool quick & light, which is available free of charge to download in the latest [Version 2.1.0.4](#) from: [www.cobias.com/downloads](http://www.cobias.com/downloads)

### **Free design aid for structural calculations**

Because a Cobias voided slab is planned and designed in accordance with the standard and the general building approval in just the same way as a conventional reinforced concrete slab, complex verifications as a ribbed or waffle slab are rendered superfluous.

The Cobias software tool quick & light offers the convenient possibility of simple determination and the inspection of the cross-section structure as well as the determination of the relevant Cobias-specific input parameters, such as load reduction, stiffness factor and shear factor or the reduced shear resistance.

Using these values, the structural calculation of a Cobias voided slab can be done with any structural calculation program.

Supplementary to the reduction of dead weight, the stiffness factor and the shear factor, the concrete reduction through the plastic void formers and the reduced shear resistance of the Cobias voided slab can be calculated using the software tool quick & light. In addition, the transfer of horizontal shear forces in the joint with reduced bonding area can be



verified, as in practice, the concreting to protect against uplift of the void former modules takes place in two working steps. This is unnecessary in a design as semi-prefabricated element.

The software is available in the languages German, English and French and takes the following standards into account: EC2 (DE), EC2 (EN), SIA 262 and the ÖNORM (Austrian Standard) B4700.

During the course of updates, the "Slim-Line" product line has been replaced by the new "Slim-Line-Click" product line, and has been supplemented through additional void former sizes..

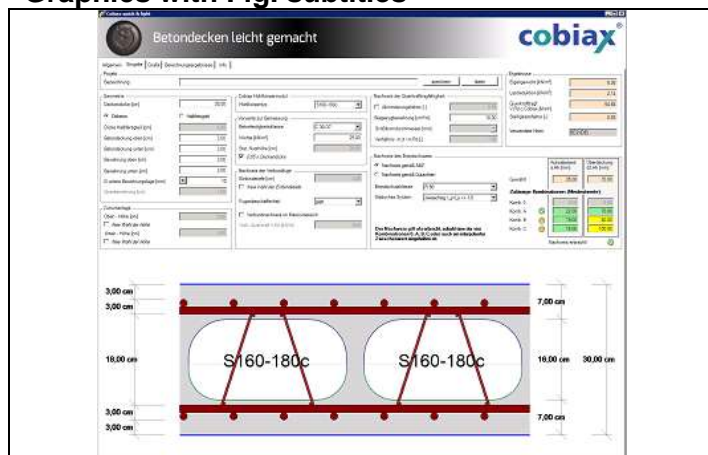
With the "Slim-Line-Click" product line particularly slimline concrete slab constructions can be realized from a thickness of 20 cm. In this product line, void former modules for slab thicknesses up to 56 cm are offered. All relevant calculation parameters for this "Slim-Line-Click" product group are filed in the Release 2.1.0.4.

At the same time, the complete fire protection verification was revised and the database updated based on the new FEM calculations. The verification can take place in accordance with the general building approval or based on expert's reports.

So that a Cobias voided slab offers the identical safety level as a completely solid reinforced concrete slab in case of fire, the design concept and the software-supported calculation are based on the requirements laid down in the DIN EN 1992-1-2. For the verification of fire resistance, the temperature is determined in the statically-effective flexural reinforcement acc. DIN EN 1992-1-2, taking the cross-section geometry into account. This temperature may not be higher than the temperature of the reinforcement steel in a completely solid reinforced concrete slab with the same fire resistance duration. The new program version quick & light inspects the products, taking into account the cross-section geometries selected, to see whether the required fire resistance duration can be achieved.

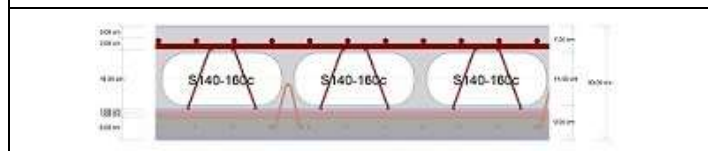
In accordance with the general building approval, Cobias voided slabs can be executed up to a R240 fire resistance duration.

## Graphics with Fig. subtitles



The CobiAx software tool quick & light in the version 2.1.0.4 with newly-integrated "Slim-Line-Click" product line and completely revised fire protection verification.

*File name: CobiAx-Software tool quick & light Fig. 1*  
*Source: CobiAx*



Example of a quick & light slab cross-section in the design version CobiAx void former modules combined with a semi-prefabricated concrete element.

*File name: CobiAx software tool quick & light Fig. 2*  
*Source: CobiAx*

### Keywords

Heinze CobiAx, quick & light, Version 2.1.0.4, software tool, structural calculation, program version, FEM calculation, fire protection verification, cross section geometry, fire resistance duration

**Alle Motive liegen in Druckqualität vor.**  
**Die Grafikdateien und das Word-Dokument können unter [www.pr-club.creativ-pr.de24](http://www.pr-club.creativ-pr.de24), Menü: cobiaX heruntergeladen werden.**

Diese „Redaktionsplattform“ ist nicht verschlagwortet und dient ausschließlich den Redaktionen als Informationspool.

**Copyright Text:** PR-Büro & Redaktionsservice,  
 Dipl.-Ing./Ma.-Kfm. Dietmar Hauke

### Unternehmensangaben:

Heinze CobiAx Deutschland GmbH  
 Dipl.-Ing. Volkmar Wanninger  
 Geschäftsführer  
 Otto-von-Guericke-Ring 10  
 D-65205 Wiesbaden

Tel +49 6122 918 45 00



E-Mail [info.de@cobias.com](mailto:info.de@cobias.com)

Ein Unternehmen der Heinze Gruppe

[www.cobias.com](http://www.cobias.com)

[www.heinze-gruppe.de](http://www.heinze-gruppe.de)

Abdruck Print und online frei.

Cobias hat alle Zustimmungen der Beteiligten zur Veröffentlichung von Bildern, Namen und Texten eingeholt.

Die Meldung ist NICHT freigegeben für Social-Media-Kanäle.

Bitte Beleg an beide Adressen senden.

**Für weitere Presseauskünfte und Rückfragen:**

Büro für Fachjournalismus, PR & Redaktionsservice

Dipl.-Ing./Ma.Kfm. Dietmar Haucke

Postfach 15 59

56139 Boppard

Tel.: +496742 80 676 76

Mobil: +49 163 64 34 0 66

[creativ-pr@creativ-pr.de](mailto:creativ-pr@creativ-pr.de)

[www.creativ-pr24.de](http://www.creativ-pr24.de)