



# **Structural Analysis & Design Software**

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



**Dipl.-Ing. (FH) Andreas  
Hörold**  
Organizer

Marketing & Public Relations  
Dlubal Software GmbH

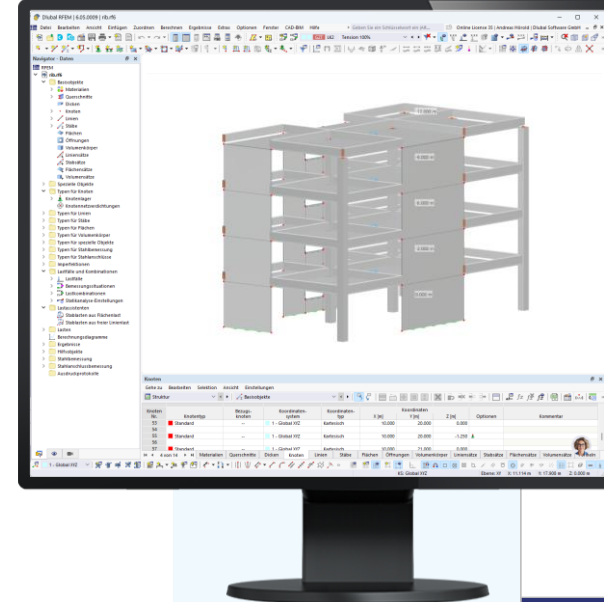


**Dipl.-Ing. (FH) Richard  
Haase**  
Co-Organizer

Product Engineering & Customer Support  
Dlubal Software GmbH

## Webinar

# Effective Use of Building Model Add-on



# Questions During the Presentation



GoToWebinar Control Panel  
**Desktop**



E-mail: **info@dlubal.com**



**Ask questions**

2

Adjust audio settings

Questions

No questions yet

Questions from your attendees will appear here.

Submit a question

Enter your question

Your question will be sent to the staff

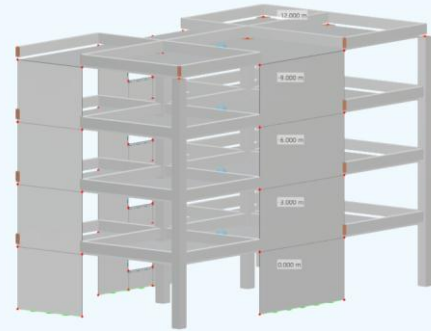
Send



# CONTENT



- 01 Advantages of 3D modeling using a building model**
- 02 Comparison with positional structural analysis**
- 03 Impact of Construction Stages Analysis add-on**



# Advantages of 3D modeling using a building model

- Quick modeling using DXF background layers
- Automatic creation of visibilities per story
- Load distribution overview
- Simplified generation and design check for deep beams and shear walls also additional checks in the concrete add-on
- 2D slab calculation
- Additional informations for dynamic & seismic checks

Stories   Centers of Mass and Rigidity							
Go To Edit Selection View Settings							
Static Analysis Results by Stories ULS CO19 1.35G + 1.50QI A + 0.							
Story No.	Floor Set No.	Mass M [t]	Mass Center Xcm [m] Ycm [m]		Cumulative Mass / Center Mc [t] Xcm,c [m] Ycm,c [m]		
3	3.6	314.058	9.040	-5.065	314.058	9.040	-5.065
2	2.4	325.498	9.025	-5.063	639.556	9.032	-5.064
1	1.5	325.498	9.025	-5.063	965.053	9.030	-5.063
0	0.2	325.497	9.024	-5.063	1290.550	9.028	-5.063



# Comparison with positional structural analysis

## Pros positional structural analysis

- Fast modeling and verification
- 2 degrees of freedom – 2D calculation

## Cons positional structural analysis

- Loads must be transferred from story to story
- Neglecting 3D effects, requires separate additional considerations

## Building Model

- Combines 2D und 3D calculation
- Load transfer is not necessary through 3D model
- Overview of forces and results by story
- Requires no separate additional considerations
- 3D forces are considered

# Impact of Construction Stages Analysis add-on

- Construction stages can be considered
- With add-on Time-Dependent Analysis, material parameter e.g. creep and shrinkage effectively usable over time
- Temporary loads / auxiliary structures can be considered

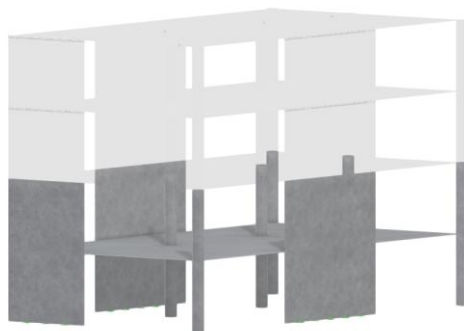
## Visibilities

☒ Activate

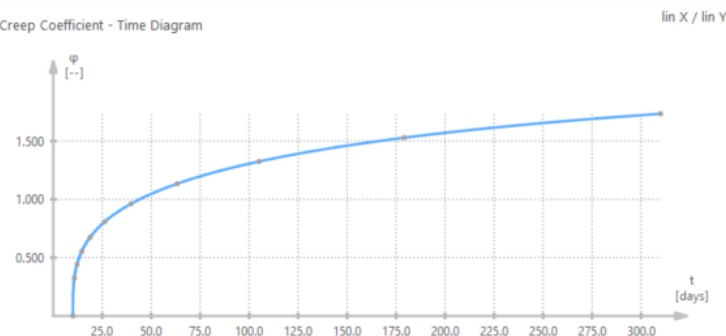
☐ Object Selection

☒ Construction Stage

- ☐ CS1 - Groundfloor
- ☐ CS2 - Groundfloor slab
- ☒ CS3 - 1st Story
- ☐ CS4 - 1st Story slab
- ☐ CS5 - 2nd Story
- ☐ CS6 - 2nd Story slab
- ☐ CS7 - 3rd Story
- ☐ CS8 - 3rd Story slab



Creep Coefficient - Time Diagram



# Online Courses

## RFEM 6 Master Class

All you need to know for a start!



TO THE RFEM COURSE

## Eurocode 2 Master Class

Deep Dive in Reinforced Concrete Design with RFEM 6!



TO THE EC 2 COURSE

## Eurocode 3 Master Class

Deep Dive in Steel Design with RFEM 6!



TO THE EC 3 COURSE



# Online Courses

## Eurocode 5 Masterclass

Deep Dive in Timber Design with  
RFEM 6!



TO THE EC 5 COURSE

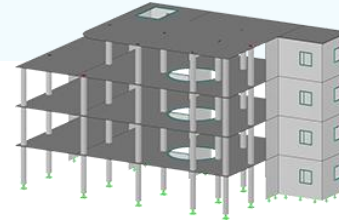
## Eurocode 8 Masterclass

Deep Dive into Earthquake Design  
with RFEM 6!



TO THE EC 8 COURSE

# Free Online Services



## Geo-Zone Tool

Dlubal Software provides an online tool with snow, wind and seismic zone maps.

## Cross-Section Properties

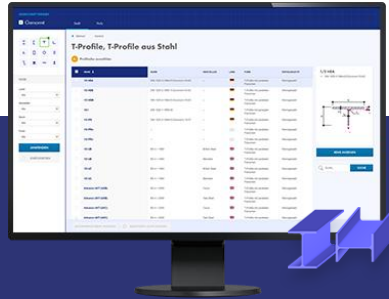
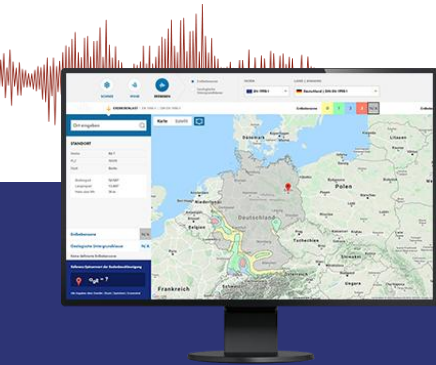
With this free online tool, you can select standardized sections from an extensive section library, define parametrized cross-sections and calculate its cross-section properties.

## FAQs & Knowledge Base

Access frequently asked questions commonly submitted to our customer support team and view helpful tips and tricks articles to improve your work.

## Models to Download

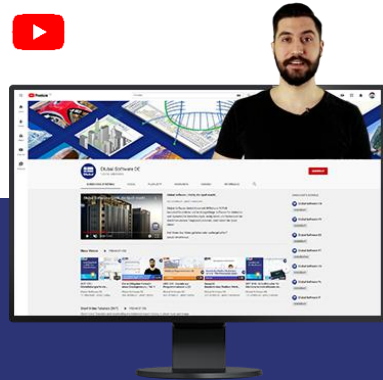
Download numerous example files here that will help you to get started and become familiar with the Dlubal programs.



# Free Online Services

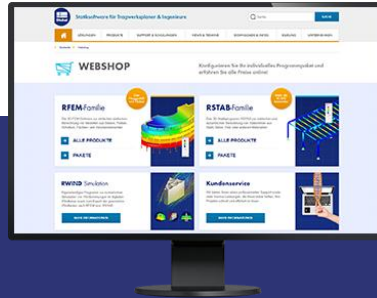
## Youtube Channel - Webinars, Videos

Videos and webinars about the structural engineering software.



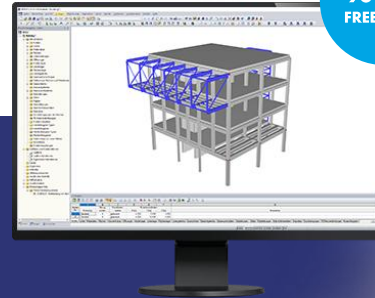
## Webshop with Prices

Configure your individual program package and get all prices online!



## Trial Licenses

The best way how to learn using our programs is to simply test them for yourself. Download a 90-day free trial version of our structural analysis & design software.



90-DAY  
FREE TRIAL

We offer free support via email and chat



# — Get Further Details About Dlubal



Visit website  
[www.dlubal.com](http://www.dlubal.com)

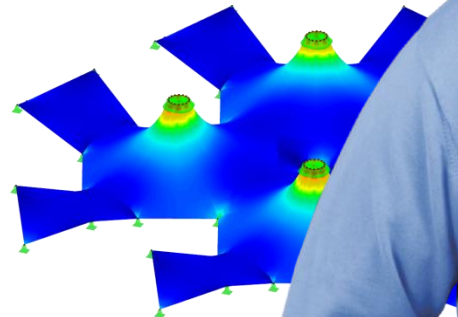
- Videos and recorded webinars
- Newsletters
- Events and conferences
- Knowledge Base articles



See Dlubal  
Software in  
action in a  
webinar



Download  
free trial  
license



**Dlubal Software GmbH**  
Am Zellweg 2,  
93464 Tiefenbach, Germany

Phone: +49 9673 9203-0  
E-mail: [info@dlubal.com](mailto:info@dlubal.com)



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