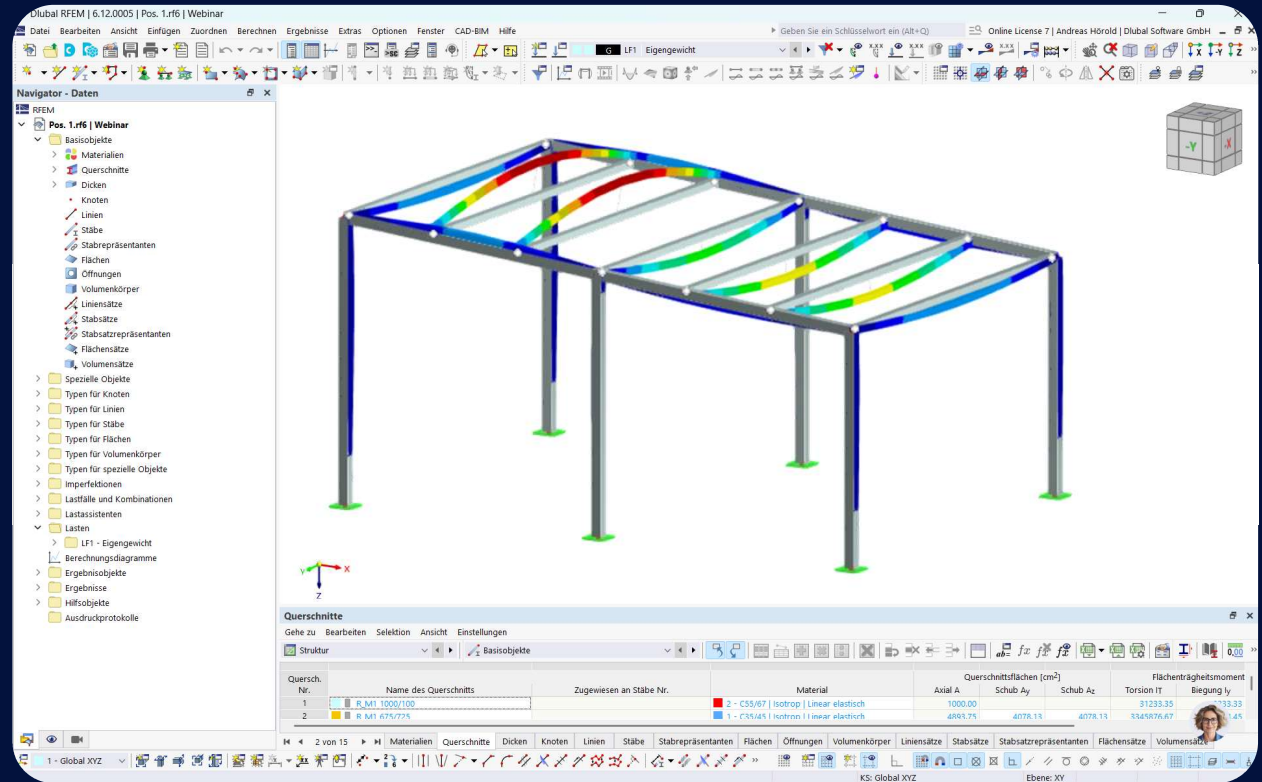


Webinar

# Dlubal

## Calculation of an aluminum carport

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



# Today with



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

Marketing & Public Relations  
Dlubal Software GmbH



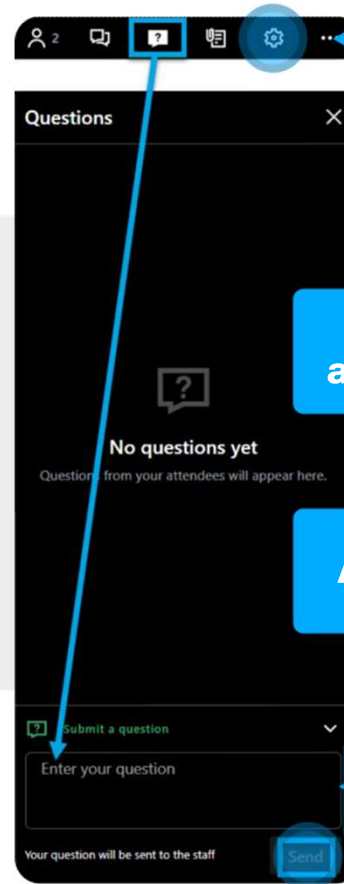
**Sonja von Bloh**  
**M.Sc.**  
Co-Organizer

Product Engineering & Customer Support  
Dlubal Software GmbH

# Questions During the Presentation

**1**

**Webinar Control  
Panel Desktop**



**Adjust  
audio settings**

**Ask question**

or **2**

**info@dlubal.com**

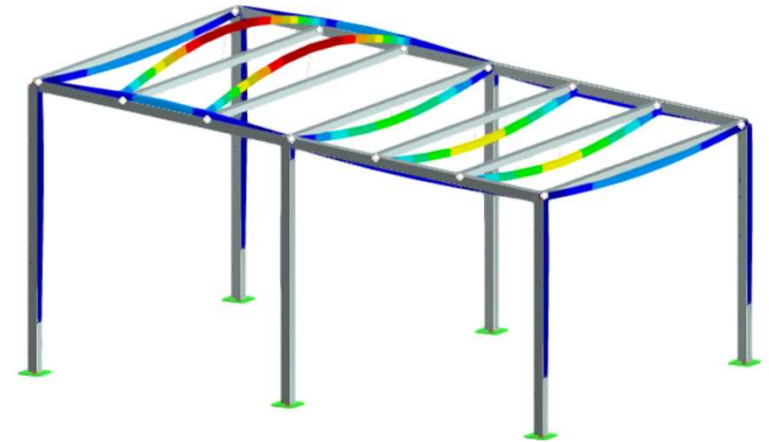
# Content

**1 Modeling of the carport in RFEM 6**

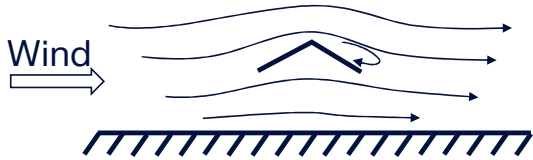
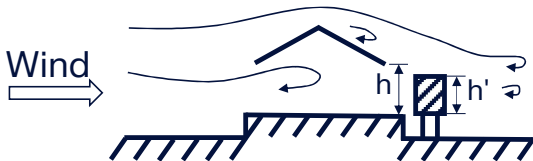
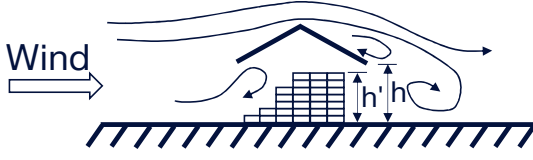
**2 Load input and combinations**

**3 Design according to EN 1999-1-1**

**4 Optimization**



# Wind loads according to EN 1991-1-4, 7.3

Roof angle $\alpha$	Blockage $\varphi$	Overall Force Coefficients $c_f$	Airflow over canopy roofs
5°	Maximum all $\varphi$	+ 0,4	<p><math>\varphi = 0</math></p> 
	Minimum $\varphi = 0$	- 0,7	<p><math>\varphi = 1</math></p> 
	Minimum $\varphi = 1$	- 1,4	

# Online Courses

## RFEM<sup>6</sup> Masterclass

All you need to know for a start!



[Go to course](#)

## Eurocode 2 Masterclass

Dive in Reinforced Concrete Design with RFEM 6!



[Go to course](#)

## Eurocode 3 Masterclass

Deep Dive in Steel Design with RFEM 6!



[Go to course](#)

# Online Courses

## Eurocode 5 Masterclass

Deep Dive in Timber Design  
with RFEM 6!



[Go to course](#)

## Eurocode 8 Masterclass

Deep Dive into Earthquake Design with  
RFEM 6!



[Go to course](#)

## AI Masterclass

Ensuring Safe and Compliant Use of Artificial  
Intelligence!

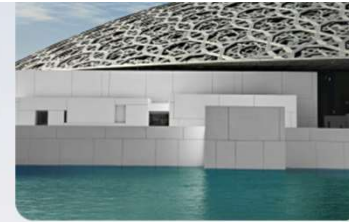


[Go to course](#)

# Submit your customer project and receive a free online course!

For each published project, you will receive a voucher for an Online Course on RFEM 6, Eurocode 2, Eurocode 3, Eurocode 5, or Eurocode 8, valued at 199 - 399€.

 [Submit your Project](#)



**BOLLINGER + GROHMANN**  
Ingenieure

**Jakob**  
Rope Systems

**Haas**

**PIRMIN JUNG**

**RUBNER**



# Free Online Services

## 90-Day Full Trial Version Download

Experience the full power of our structural analysis and design software with a free 90-day trial. Get access to all programs and add-ons without restrictions.



**DLUBAL COMMUNITY >**



**GEO ZONE TOOL >**



**CROSS-SECTION PROPERTIES >**



**3D MODELS TO DOWNLOAD >**

**Explore All  
Our Services >**



# Get Further Details About Dlubal

- Videos and recorded webinars
- Newsletters
- Events and conferences
- Knowledge Base Articles
- MIA AI Assistant
- Download 90-Day Full Trial Version

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

**Dlubal Software GmbH**

Am Zellweg 2  
93464 Tiefenbach, Germany

+49 9673 9203-0  
info@dlubal.com

**90-Day**  
Full Free  
Trial



# Thank You for Your Attention

