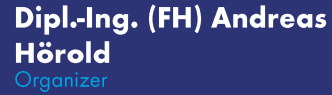




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Dlubal Software GmbH

Optimization in RFEM 6 Using Blocks



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Questions

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CONTENT

01

**New Features in the Optimization & Cost /
CO2 Emission Estimation**

02

**Optimising the Structural System of a
Steel Hall as a Block**





Recognising Valid Mutations in the Results List

- Valid and invalid model mutations are clearly indicated in the results list.
- A **green checkmark** appears if a design add-on is active and all verifications are satisfied. Otherwise, a **red exclamation mark** is shown.
- For failed calculations, a **red exclamation mark** is displayed regardless of whether a design add-on is active.

Gehe zu Bearbeiten Selektion Ansicht Einstellungen				
Optimierung				
Ordnung	Model Name	Zielwert [u m,min [mm]	Lagerabstand_Rechts [m]	Qu
82	✓ Modell Nr. 144	20.7	0.100	
83	✓ Modell Nr. 71	21.8	1.900	
84	✓ Modell Nr. 141	22.9	2.100	
85	✓ Modell Nr. 189	23.8	2.500	
86	✓ Modell Nr. 70	25.4	2.500	
87	✓ Modell Nr. 177	25.9	2.100	
88	✓ Modell Nr. 74	26.5	2.300	
89	✓ Modell Nr. 204	27.6	2.100	
90	✓ Modell Nr. 208	37.4	2.700	
91	✓ Modell Nr. 205	41.4	2.900	
92	! Modell Nr. 102	9.6	1.300	
93	! Modell Nr. 173	14.5	1.500	
94	! Modell Nr. 127	16.9	1.500	
95	! Modell Nr. 186	18.2	1.300	
96	! Modell Nr. 82	18.8	1.300	
97	! Modell Nr. 164	19.2	0.900	



Results List Remains Consistent

- Once calculated, model mutations are preserved in the results list **across multiple optimisation runs**, provided the model remains unchanged.
- The **optimisation target** can be **modified afterwards**, and the results, including previously calculated mutations, will still be retained.

Sensitivity Factors

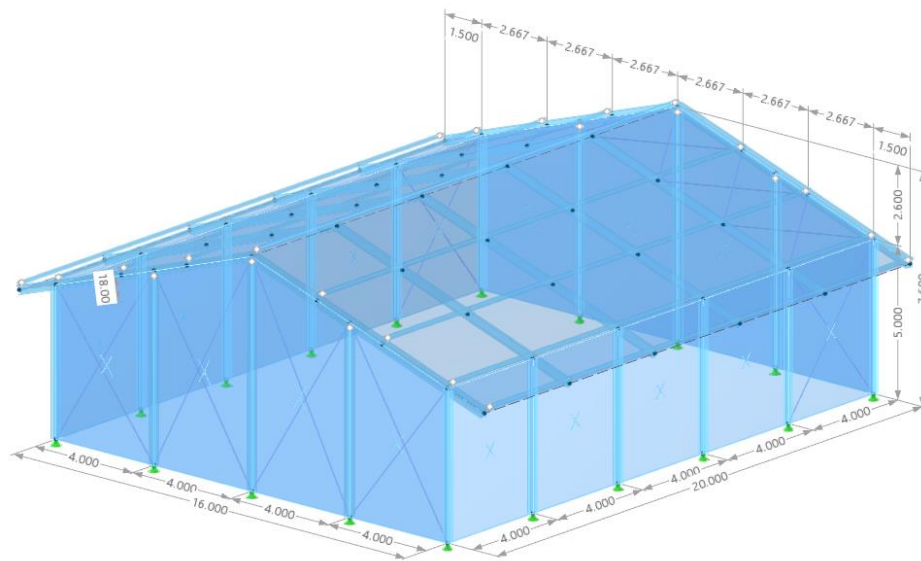
- The **influence of parameters** on the desired **optimisation target** is represented as a numerical value.
- In a **multi-stage calculation mode**, the most influential parameters can automatically be used for optimisation.

Parameters to Optimize						
No.	Name	Default Value	Unit	States	Sensitivity Factor	Active
1	support_distance_right	1.500	m	15	0.134	<input checked="" type="checkbox"/>
2	crosssection_width	0.280	m	11	0.244	<input checked="" type="checkbox"/>
3	crosssection_height	0.280	m	11	0.753	<input checked="" type="checkbox"/>



Optimising blocks

- The optimisation is based on the use of **global parameters**.
- Blocks enable automated model generation, even while adhering to **demanding construction rules**.
- Global parameters can be utilised within blocks, allowing for the optimisation of even complex systems.



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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

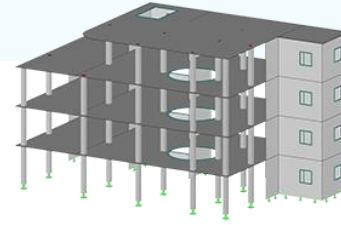
Eurocode 3 Master Class

Deep Dive in Steel Design with RFEM 6!



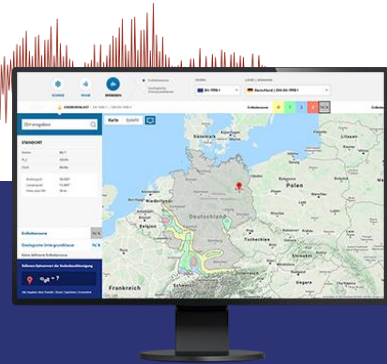
TO THE EC 3 COURSE

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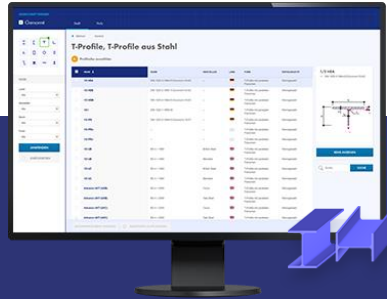
Geo-Zone Tool

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.



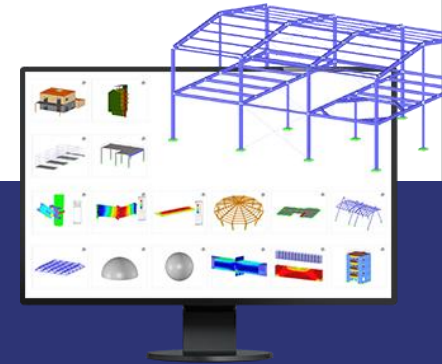
FAQs & Knowledge Base

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

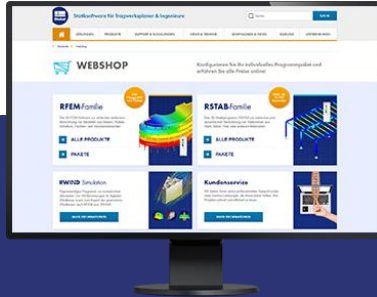
Youtube Channel - Webinars, Videos

Videos and webinars about the structural engineering software.



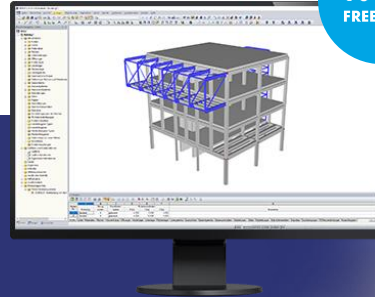
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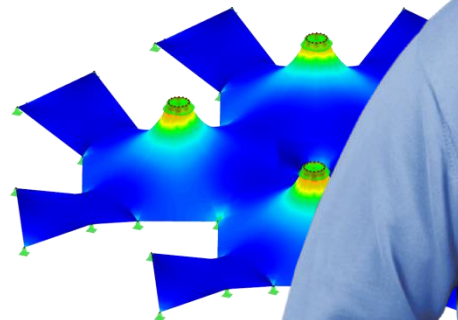
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Am Zellweg 2,
93464 Tiefenbach, Germany

Phone: +49 9673 9203-0
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