LISE BIBERT



ONBOARDING TUTORIAL

AND OTHER TUTORIALS

- Built-in way of learning
- Tutorials for several topics
- New tutorials added regularly





MENU'S

MENUBAR

• Menu content

- File
- Edit
- Tools
- Results

- View
- Libraries

• Design

- Help
- Drag & drop to process toolbar
- Change hotkeys
- Single letter hotkeys possible



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SPOTLIGHT

SEARCH BAR & COMMAND LINE

- Autofill
- Results in order of relevance
- Space bar to focus
- Show me (in menu) & help



- Highlighted during command
 Move Select entities to be moved (finish selection with ESC) >
- Enter **coordinates** directly during command
- Change hotkeys
- Repeat last command







PROCESS TOOLBAR

& WORKSTATION WHEEL

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- Different workstations with toolbar in the wheel
- Two workstations open at the same time
- Change workstation on click and ctrl+click
- Workstation selection from hamburger menu
- Minimize or drag
- Arms can be switched
- Drag & drop commands from spotlight or menu
- Commands can be stacked
- Tooltip on hover (help & hotkey)
- Calculate button
- Visible if/which results are calculated





VIEW BAR

& NAVICUBE

- Similar to Process Toolbars
- View, zoom, visibility commands & settings
- Arms can be switched
- Navicube shows x, y and z
- Minimize via hamburger menu
- Fixed position





INPUT PANEL

& FILTERS

- Filters & workstations
- Drag, dock, tear out, minimize
- Icon mode or command names
 - INPUT PANEL

 MIN/MAX auto open

 Icon mode

 Show category headers
- Change hotkeys





PROPERTIES PANEL

& RESULTS

Selected objects & associated data

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1D MEMBER (1)

- Drag, dock, tear out, minimize
- Basic / Advanced mode
- Selection tools on right click, even

	LCS type	Standard	\sim
	Isolate selection		
4	Expand selection		
1	Subtract from selection		\sim

• Tooltip on hover

To panel edges and beams
Panel type To panel edges a ... >

• Formulas







PROPERTIES PANEL

& RESULTS

Calculating: 89/205

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 Result generation can be cancelled from Spotlight

Available part is shown

• Close results with bin or close button

 Image: Results (1)
 Image: Results (1)

• (Change) Hotkey for **refresh** results

ACTIONS >>>> C Refresh F5

• Manual/Autorefresh results & results lock in status bar



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STATUS BAR

- Active load case

 (or absence/mass group)
 Scroll through with arrow keys
- Functions & menus

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- Snap settings
- Coordinate system
- Units
- Refresh results
- Results lock
- Grids mode
- Scales
- Code & annex
- Licence settings





INPUT TABLE

SHOW & EDIT VALUES

- Drag, dock, tear out, minimize
- Switch workstations



• Switch/remove tabs

💼 📥 Point loads on 1D 🛓 🖽 🖆 🧐

• Add or remove columns







INPUT TABLE

SHOW & EDIT VALUES

- Add or remove elements e* e*
- Edit values with context menu on right click

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Paste	
Copy value to editbox	

- Edit values for a selection in the multieditbox
- Parameters are supported





Modify the value of selected cell(s). Available operations are: -x : round to the closest multiple of x All operators can be typed directly or inserted using the context menu (right-?

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INPUT TABLE

FILTERING & VISIBILITY

- Filter bar with conditioning functions
- Filter by selected rows or load case

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- Filter by visibility in 3D scene

 Image: Scene in the scene
- Select cells with the **same value**
- Highlighted items in table are selected in 3D scene and vice versa
- Send table to **report**

	INPUT TABLE	C Libraries	~	Ту	pe 🗸	et et 🗟	Y 🗗 🕴		i ×
4	Name	Material type		Thermal	Unit ma	E modulus [MPa]	Poisson	Indepen	. G mod
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	C16	Timber	\sim	0,00	310,0	8000,0000	0,0		500,00
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	a : x contains a =a : x is equal to a <a :="" a<br="" equal="" is="" not="" to="" x=""><a :="" a<br="" is="" less="" than="" x=""><=a : x is less than or equal to a >a : x is greater than a >=a : x is greater than or equal to (a;b) or]a;b[: a < x < b <a;b> or [a;b] : a ≤ x ≤ b All operators are applicable to</a;b>	• a	99 B 100 B 101 B 102 B 103 B 103 C 104 C	325 general (0) ↔ 326 general (0) ↔ 327 general (0) ↔ 328 general (0) ↔ 329 general (0) ↔ 329 general (0) ↔ 320 sensel (0) ↔	N263 N262 N261 N262 N264 N265 N264 N265 N264 N265 N265 N264 N265 N264 N265 N264 N265 N264 N264 N264 N264 N264 N264 N264 N264	CS4 - IPE360 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - I + Iw prom (IPE360; 180; 14 V III CS10 - Iw prom (IPE360; 180; 14 V III CS10 - Iw prow prow IIII	6,000 hall 1 ~ III 5,099 hall 1 ~ III 5,099 hall 1 ~ III 5,099 hall 1 ~ III 6,000 hall 1 ~ III 1,000 hall 1 ~ III ~ III 1,000 hall 1 ~ III ~ I		
	numerical, text and boolean val (checkboxes), as well as parame	ues iters.				,			
	For filtering boolean properties, values 1 for <i>true</i> and 0 for <i>false</i>	use							



RESULTS TABLE

- Drag, dock, tear out, minimize
- Switch, remove, or regenerate **tabs**



• Add or remove **columns**

Name
Direction
Туре
Wind pressure curve
Сре
Cpi
Type snow
Allowable stresses
Angle [deg]
Acting area





RESULTS TABLE

• Get or update **results** from result panel

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• Identify result

Results table

EC-EN 1993 Steel check ULS

X

• Change **output detail** or **Preview** detailed check

Summary \checkmark Summary Detailed





RESULTS TABLE

- Filter bar with conditioning functions
- Filter by selected rows or load case

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- Filter by visibility in 3D scene
- Show/select items in 3D scene via context menu on right click

Highlight in model

Select related member

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Run detailed check

• Send table to **report** or **export**



Ξ	RESULTS TABLE		🖬 🐥 🗳	👗 🔳 📾	Y 🗧 🗑	~ 🖬	1D interna	l forces; Linear calcu	>
4	Name	dx [m]	Case	N [kN]	Vy [kN]	Vz [kN]	Mx [kNm]	My [kNm]	Mz [ki
×	Q	9	P	<200 🗙	(10;20) 🗙	Q	Q	Q	
1	B3	2,550+	CO2/3	-46,83	12,89	0,29	0,00	0,74	-7,15
	FILTER CONDITI Given the specific rows of the table the same colum a : x contains a =a : x is equal to <a :="" equ<br="" is="" not="" x=""><a :="" is="" less="" that<br="" x=""><a :="" is="" less="" that<br="" x="">>a : x is greater t >=a : x is greater t a; b) or]a;b[: a <a;b> or [a;b] : a All operators are numerical, text a (checkboxes), as</a;b>	ONS ied condition, she where the value n is such that a ual to a an or equal to a than a than or equal to a than $a < x < b$ $a \le x \le b$ e applicable to and boolean values well as parameter	now e x in T	n					4
	For filtering boo values 1 for <i>true</i>	lean properties, and 0 for false.	use						

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REPORT PREVIEW

• Open from result panel, table, spotlight...

Report preview

Settings, printing, export

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Zoom







CONTEXT MENU

- Right click in 3D scene
- Visibility and image commands
- Tooltip on hover
- Change hotkeys







MARKING MENU

- Invisible helper
- Alt + right click
- Fast modelling on muscle memory
- Fixed commands (for now)
- Best used with skip input dialog in global UI settings







CONFIGURATION

- Personal layout, hotkeys ... remembered
- Transferred to new versions
- Can be saved in file
- Possible to use the same configuration for a group/company



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CONFIGURATION

SMOOTHER TRANSITION TO NEW UI

- Example layout for **smoother transition**
- Input panel left Icon mode off Category headers on
- Input table docked on bottom
- **Process toolbar** top left Structure workstation horizontal Active workstation vertical





CONFIGURATION

EXPLOIT FREEDOM TO THE MAX



 Example layout for full size model

First screen

- Input panel minimized
- Input table docked on top
- Process toolbar bottom left

Second screen

- Properties panel torn out
- Report preview torn out

