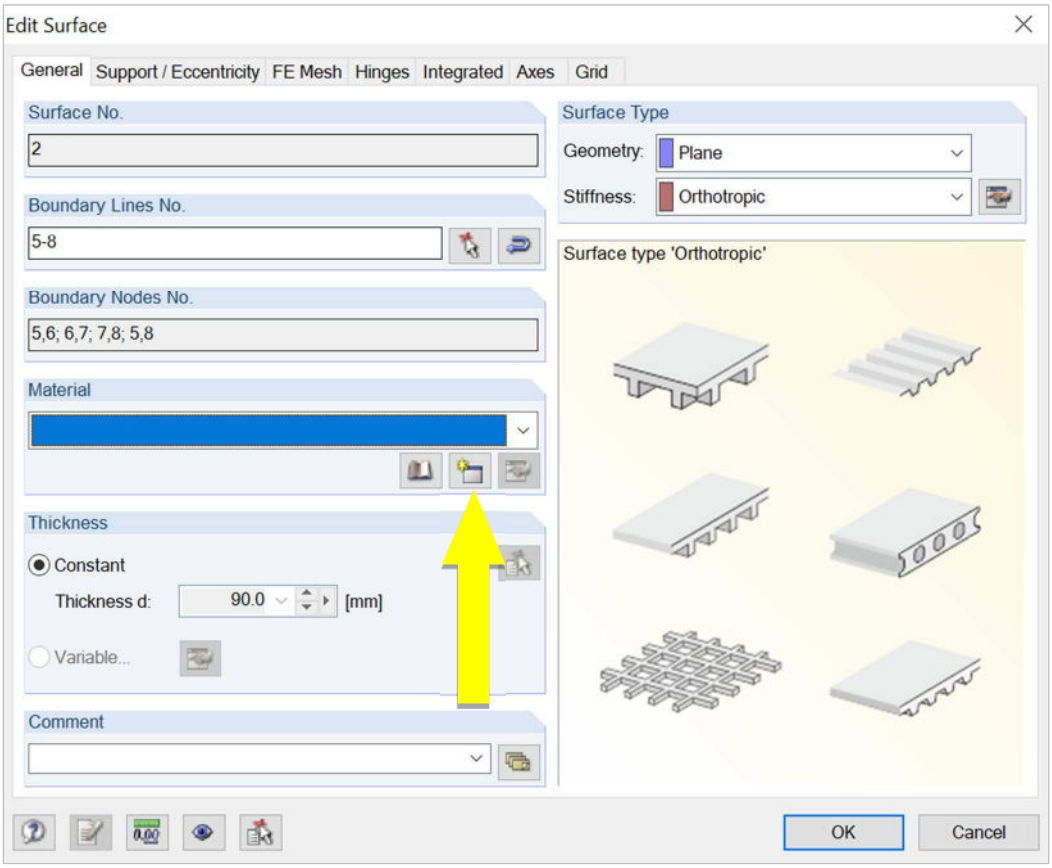
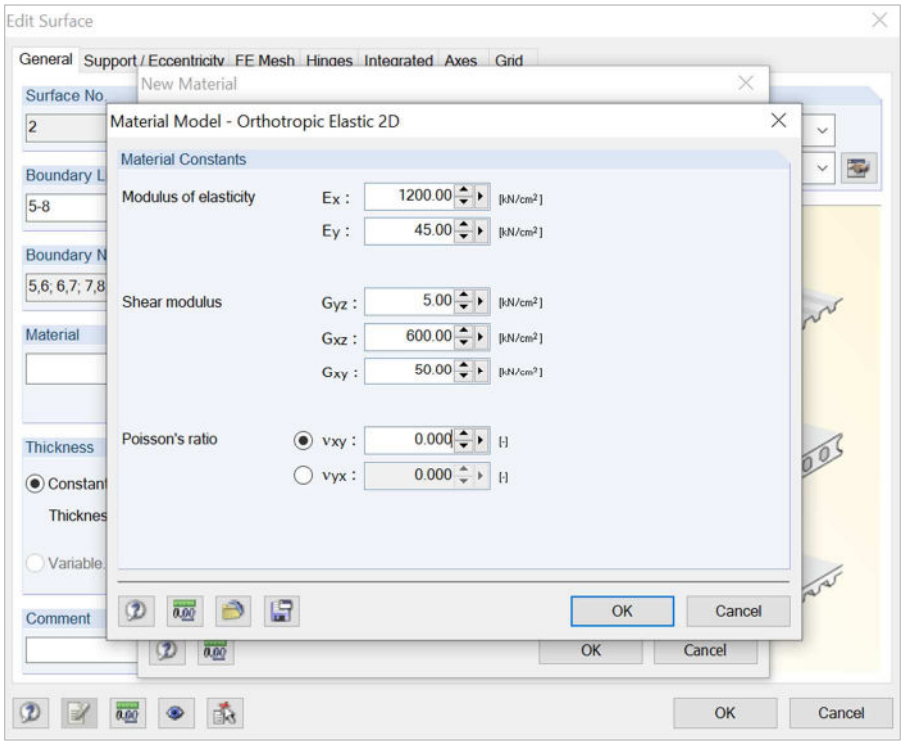
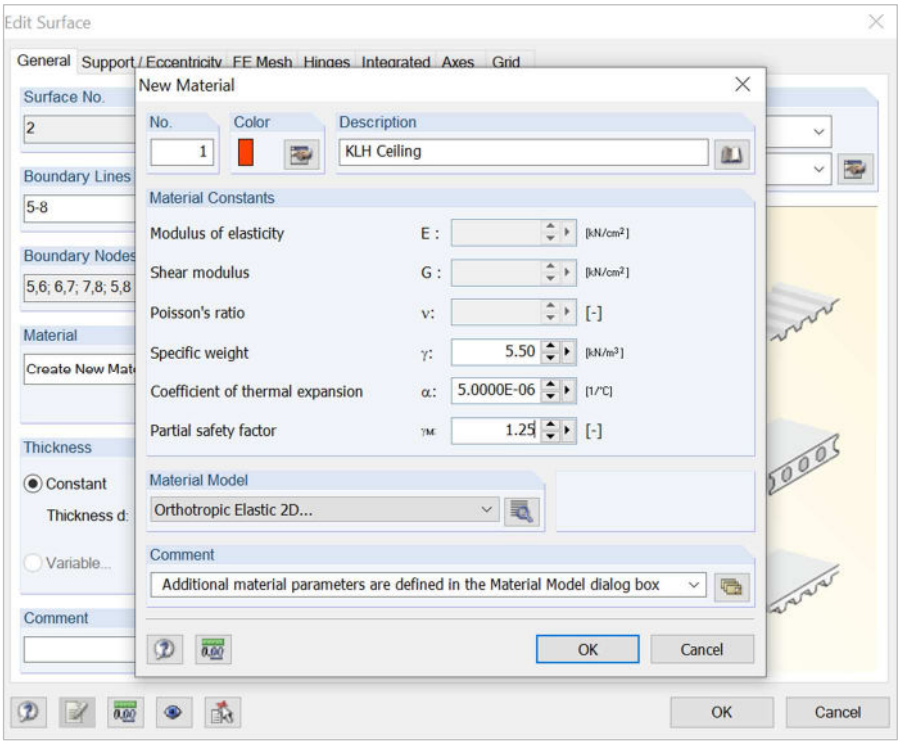
Dlubal RFEM5

Step 1: Create a model in Dlubal RFEM – in the usual manner. Create a surface (or edit an existing one) and select „Create New Material...“.



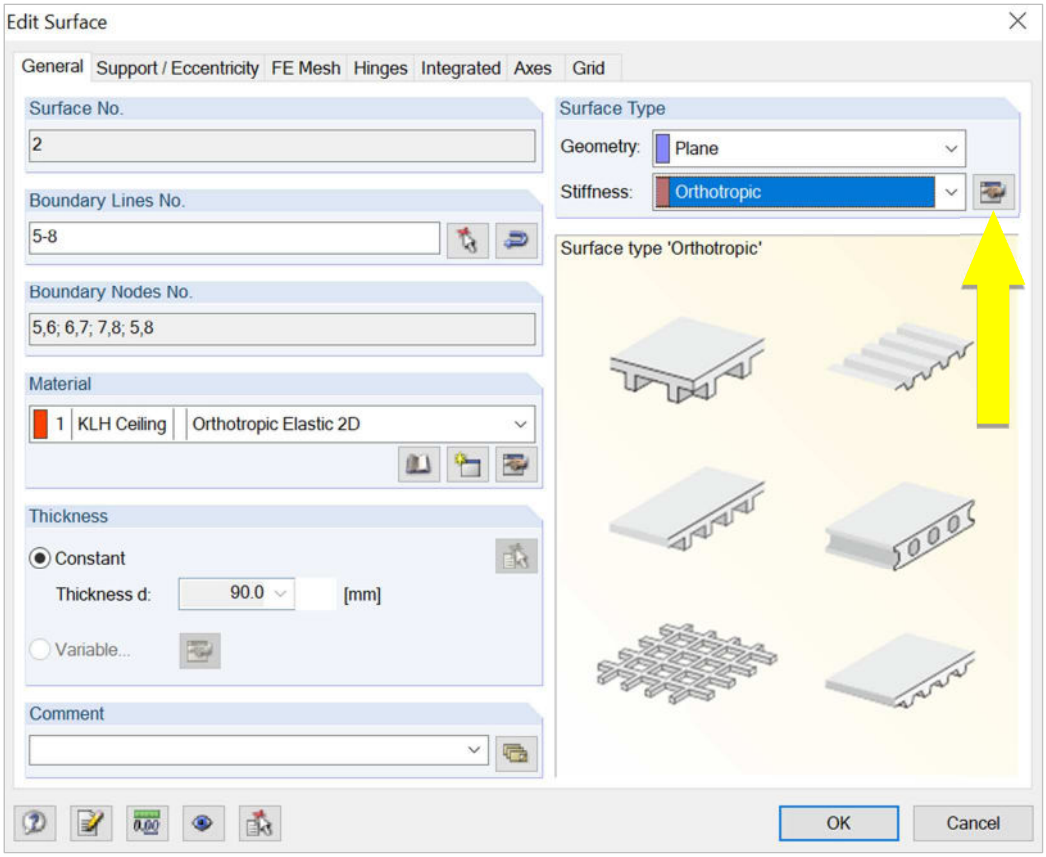
Step 2: Create a new material by firstly changing the Material Model to “Orthotropic Elastic 2D“ with the following values:



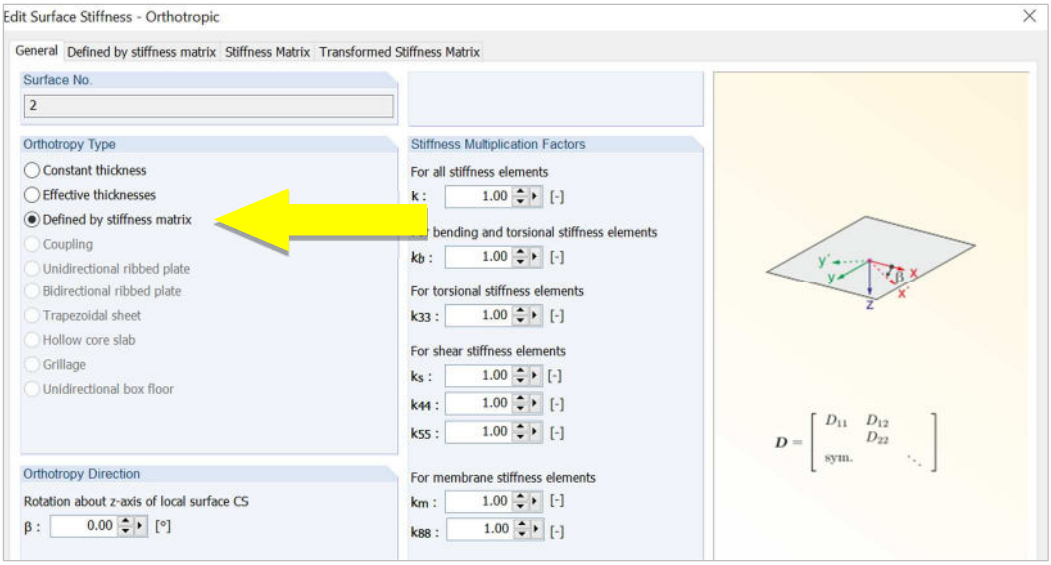


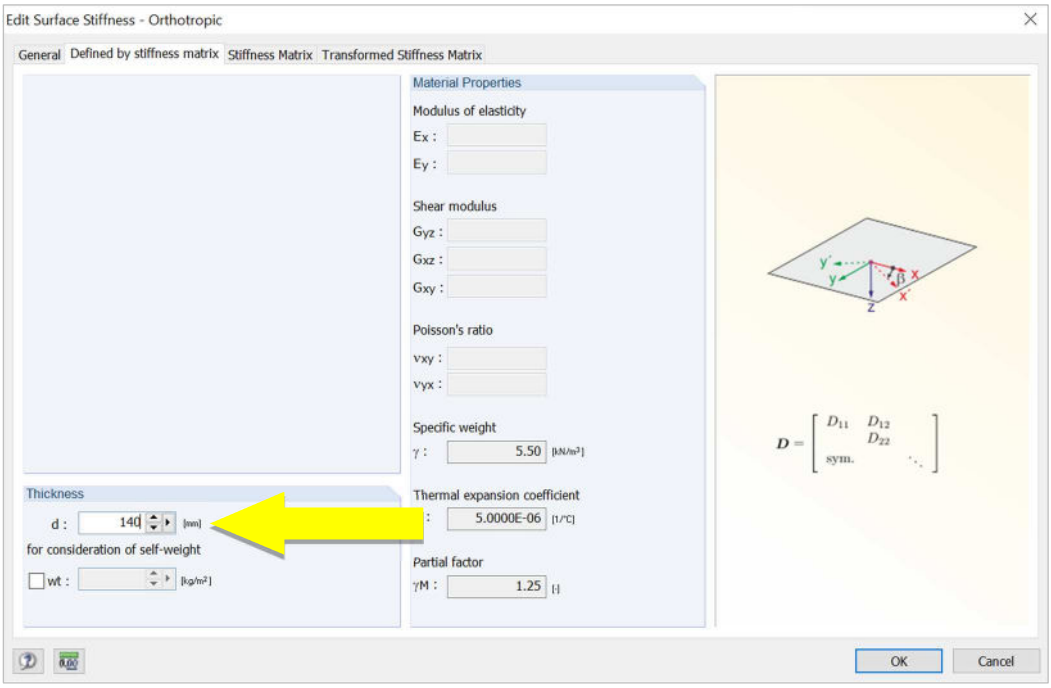
Tip: Materials with different colors and names are easier to assign later in the model.

Step 3: Select “Orthotropic” for the stiffness of the Surface Type and continue with “Edit Parameters Of Stiffness...”

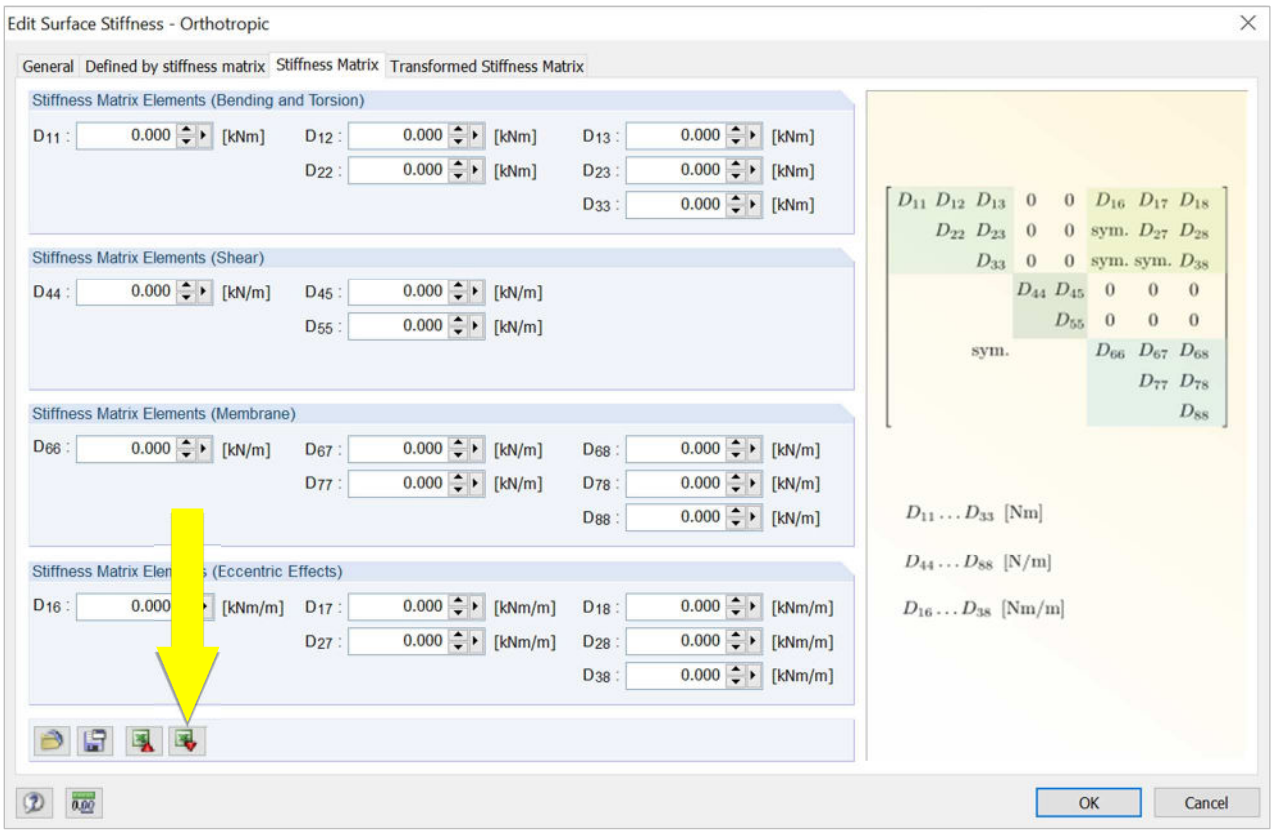


Step 4: Choose “Defined by stiffness matrix” as Orthotropy Type in the “General“ tab and adopt the thickness in the “Defined by stiffness matrix“ tab according to your panel type.

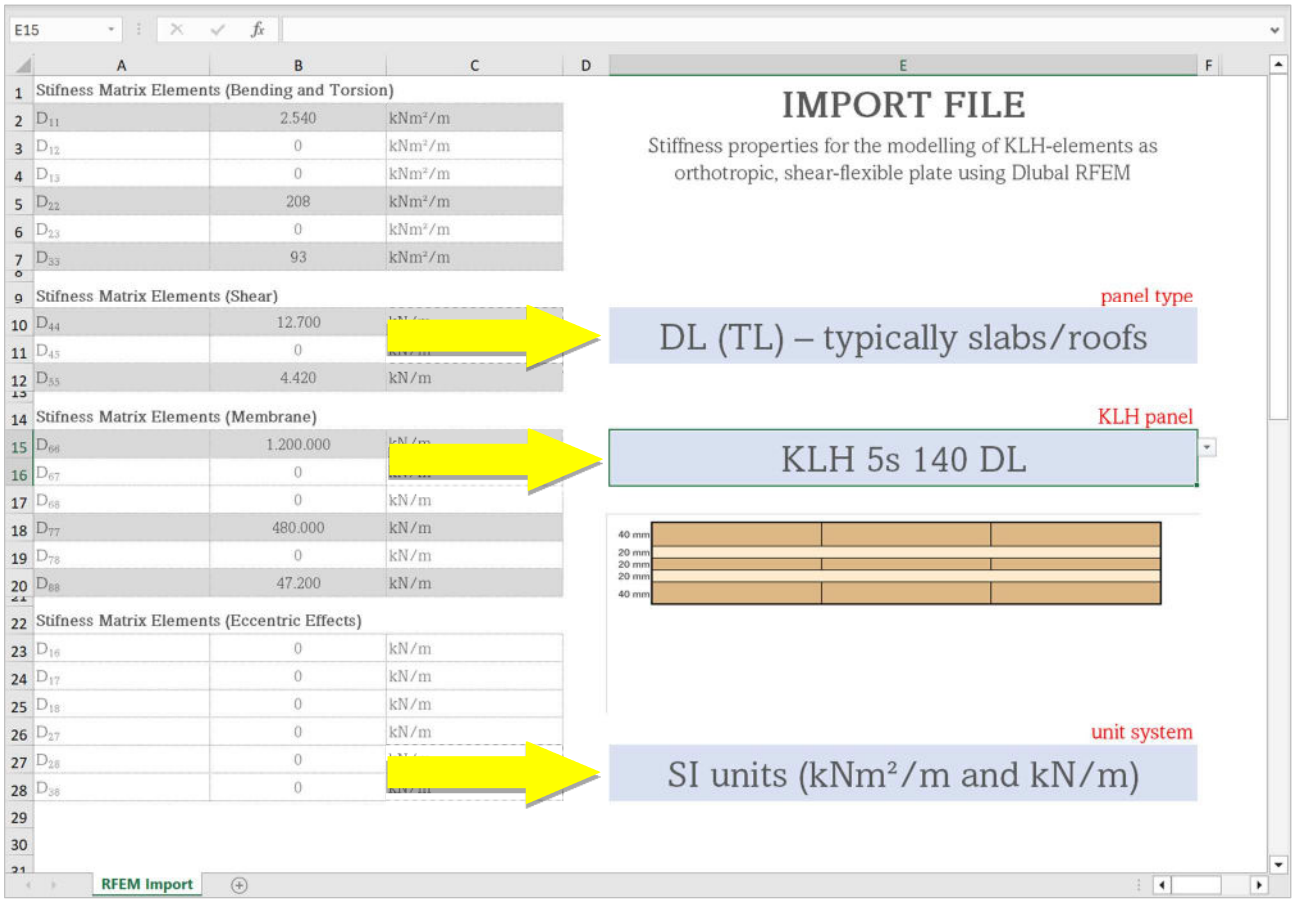




Step 5: Select “Import of Elements from Excel“ in the “Stiffness Matrix” tab.

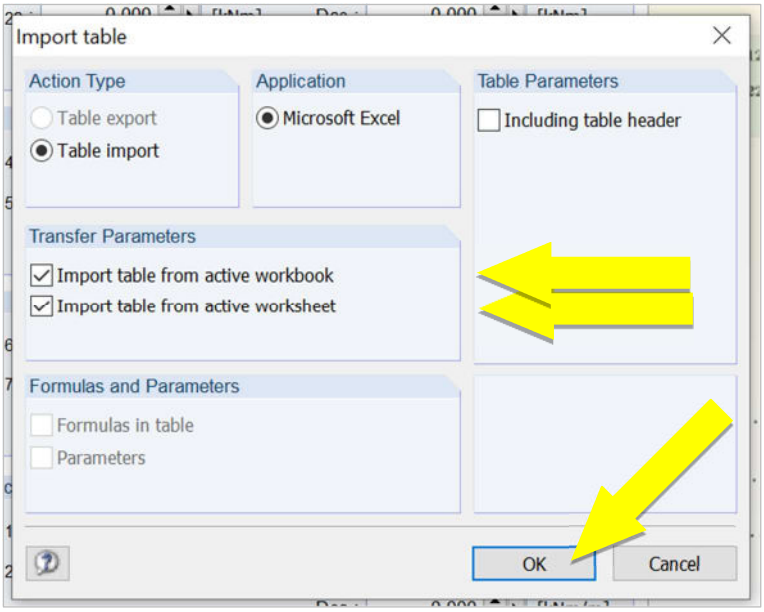


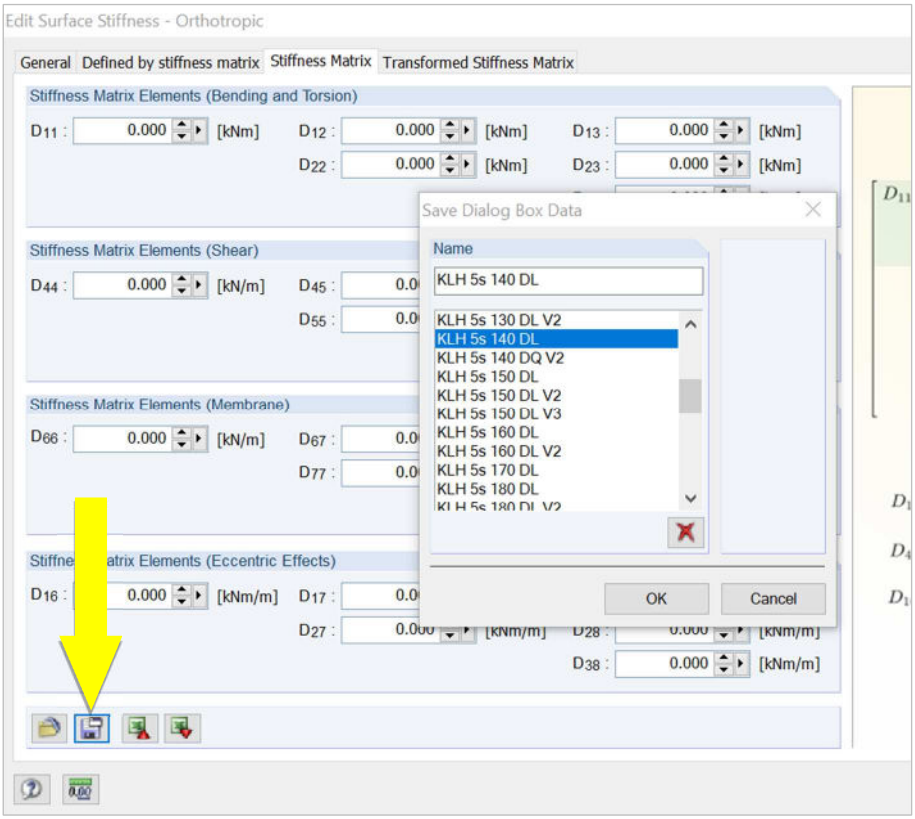
Step 6: Open the Excel-File "*KLH Stiffness Properties_RFEM-Import*" and choose the desired panel type, panel and unit system.



Note: Please make sure that the units of the import file match those of RFEM. You can set the units in RFEM under the menu item "Options" and "Units and decimal places".

Step 7: Activate both Transfer Parameters boxes. After clicking the OK button, the stiffness matrix will be imported automatically.





Tip: Create panel list - Plattenliste erstellen – by saving the stiffness matrix with the correct panel description, there is no need to repeatedly import the respective panel type.