

Manual for using Revit families with KNAUF DANOLINE panels

Manufacturer	Manual created for object version	Last updated
KNAUF DANOLINE A/S	1.0	02/09/2015
Object types	Developed and tested in	Object URL
Ceiling system families and wall system families: Parametric models for ceiling and wall panels	Revit Architecture 2012	www.knaufdanoline.com
Description		
Families for designing with Knauf Danoline ceiling and wall panel systems. The files are named based on the product series. Each file contains all the products included in the given series.		

Using Knauf Danoline families

Knauf Danolines objects for Revit Architecture consists of a series of building components created as 'Revit System Families' for ceiling systems ('ceilings') and wall panel systems ('walls').

The objects are gathered in project files (.rvt), where multiple 'system families', sorted by type, are contained. The families are named by system name and type.

This gives the user the opportunity to gain a quick overview of the available building components and systems. From here, it is easy to import and use the desired objects in your current project.

Transferring the families

Because 'System families' function differently from standard Revit families, it is not possible to import the Knauf Danoline-families, into your current project, as normal families. First, you need to apply one of two methods:

- Use the 'Transfer project standards' option found under the 'Manage' menu. This transfers selected or all standards and families from one project to another.
- Use 'copy/paste' - This functions similarly to the way it does for every other program.

We recommend using 'Copy/paste' because this method has proven to be the most stable solution.

Guide to using 'Copy/paste'

1. Open the project file containing the type of system you wish to apply and locate the desired type.
2. Highlight the family and use 'Copy' (ctrl + c), to copy the file to the Clipboard.
3. Open the project containing your current project.
4. Use 'Paste' (ctrl + v) and place the family in the project.

Now the family is copied into the current project.

If the copied model was not the correct one, it can easily be deleted and swapped for the correct one. The family type will still be part of the project and can be found in the family overview to the left.

'copy/paste' Vs 'Transfer project standards'?

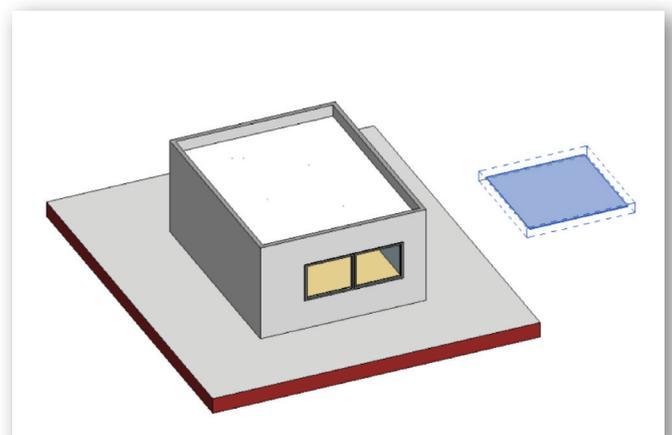
It is normal to use 'Transfer project standards' when transferring 'System families' from one project to another.

However, there is a significant risk potential when using this method because it is easy to transfer and overwrite settings in your current project by mistake.

Because of this, it is recommended that you use the 'Copy/paste' method because the risk of mistakes are significantly smaller with this method.

Edge	Pattern	Regular		
	Tile Size	600x600x6,5	600x600x6,5	625x625x6,5
A	S15			
	S24			

Open the Knauf Danoline files containing the 'system families', choose the wanted family-type and copy it. This illustrates a set-up in a plan-view in the Knauf Danoline file.

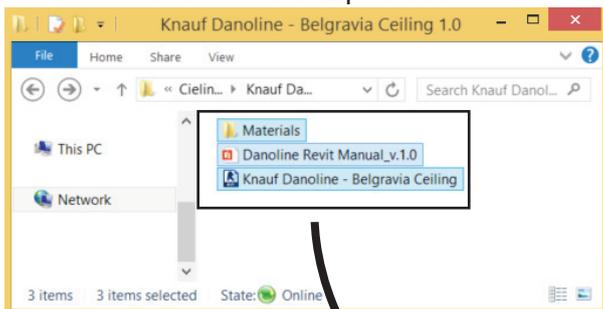


Open the project, where the family is to be inserted. Use 'paste' to insert the family. The inserted family can now be 'deleted'; the project 'remembers' the newly inserted system family.

Materials

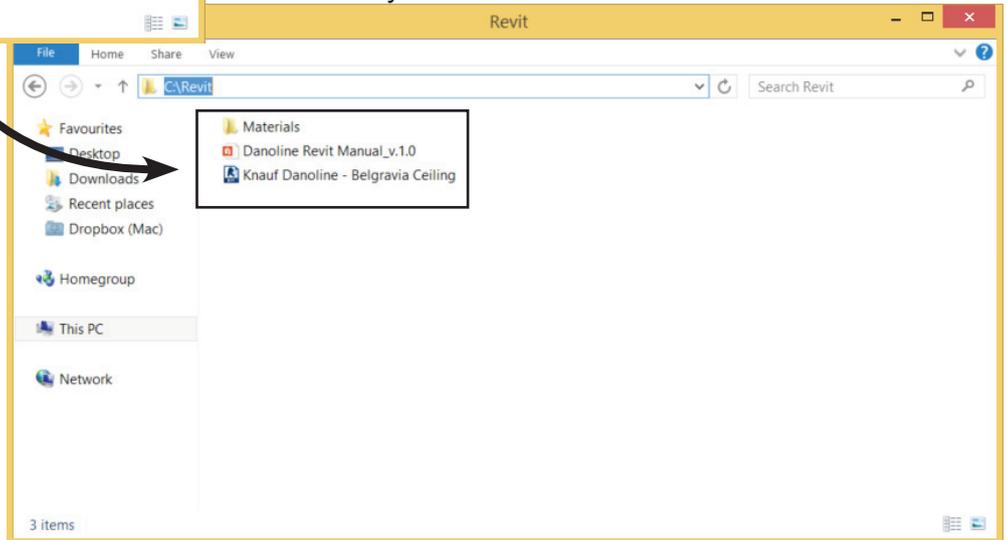
A material library is included for the Knauf Danoline-families in the zip-archive. If a new folder named 'Revit' (path 'C:\Revit\') is created and the contents of the zip-archive are copied into this folder, the material-parameter in Revit will automatically use the correct pictures as textures. This is because the parameter links to the path 'C:\Revit\Materials'. The Revit file can either be opened from this location or it can be moved to an alternative folder. If more families need to be imported, the process is repeated. In this way, the new files are added and existing files are either overwritten or skipped.

Contents of the zip-archive



Manually created folder: C:\Revit

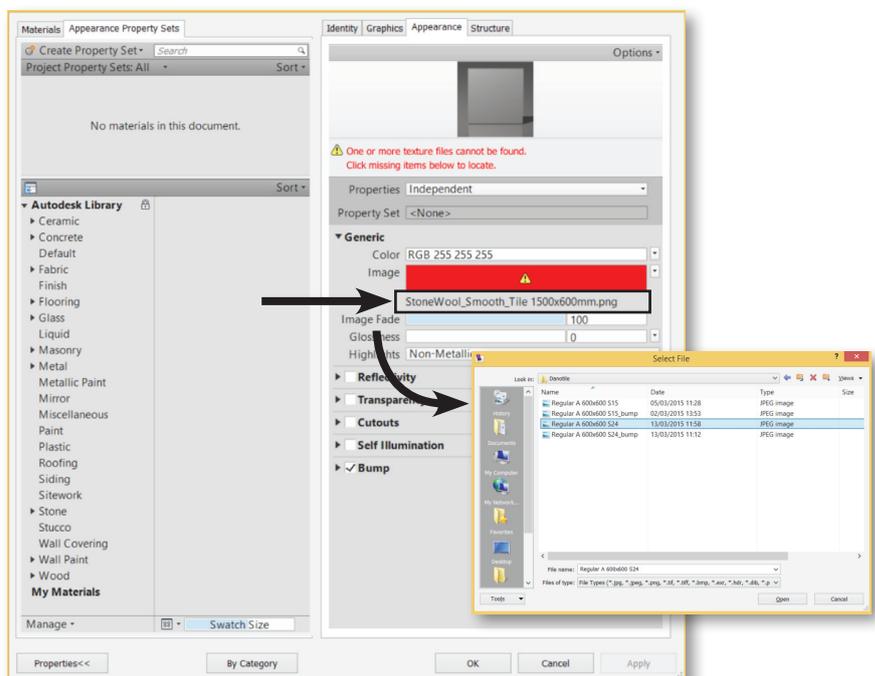
Zip-contents are copied



If an alternative placement for the material-library is desired, it needs to be updated in the Revit file.

In this case, the material will be shown as a red background with a '!'. This means that the material is not being generated correctly. It is therefore necessary to manually re-link the material file. This can be done by clicking the file-name under the texture and then navigating to the path, where the picture-file is located.

After doing this once, the rest of the materials will work with all the families - Provided they have all been included in the texture folder. If not, the process must be repeated for the materials individually.

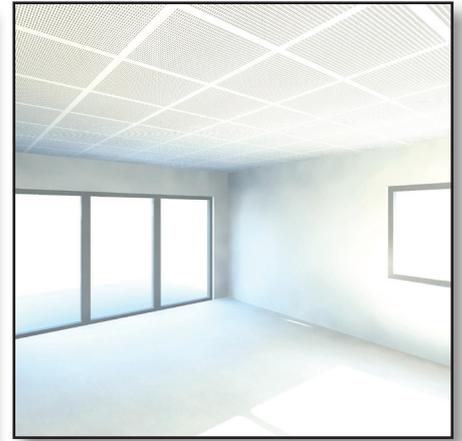




Visualisation of a section detail at the 'coarse' detail level



Visualisation of a section detail at the 'medium'/'fine' detail level



Visualisation of a rendered scene using the Knauf Danoline materials

Detailing and geometry

The geometry of the objects are based on Revits standards for 'system families'. This means that they all have three levels of detail, although in practice there are only two since the 'medium' and 'fine' detail levels are similar.

The illustrations above show examples of the geometry in the different levels of detail.