MATERIAL INVENTOR AND REVIT 2017



0 My Questions

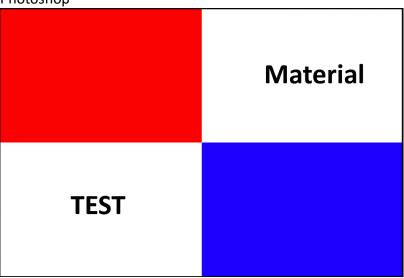
- a. How should the material behaviour from the perspective of Autodesk be?
 - a. As in Revit?
 - b. As in Inventor?
- b. Why the material information (material name and material appearance) are used differently in the two programs?
- c. Why are the demands on the material libraries in both programs differently (Physical material in Inventor)?
- d. Why are the origins of the Material maps in both programs different?
- e. WHY MATERIAL OUT OF INVENTOR WILL BE SHOWN WITHOUT A PREVIEW IN THE MATERIAL LIBRARY INSTEAD LIKE REVIT MATERIAL (WITH PREVIEW) ?
- f. Why the Scale (Size) of the Maps is different in both Programs? (MM in Revit, cm in Inventor)

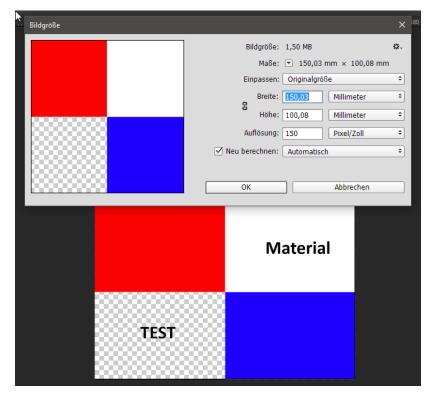
I would like to explain my Problems respectively the Behavior of the Materials in both programs Step by Step:

1 CREATING A MATERAIL MAP

PNG 150x100mm, 150DPI

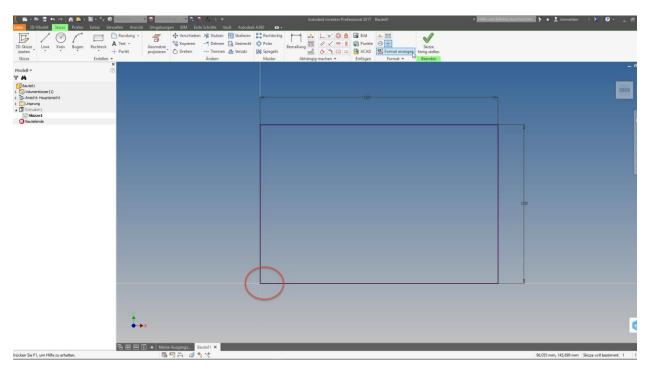




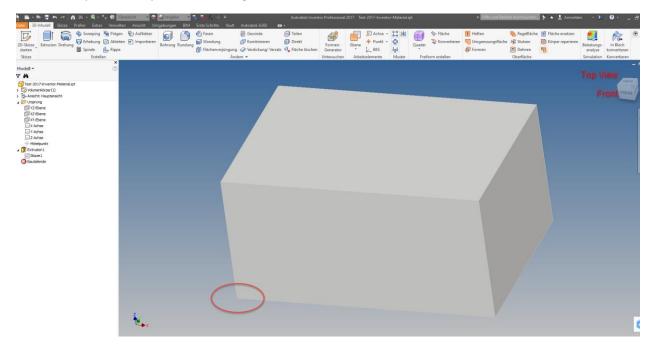


2 Build a new Part in Inventor

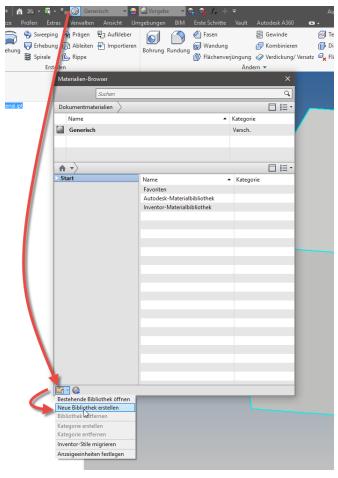
Inventor 2017 Cube 150x100x75mm

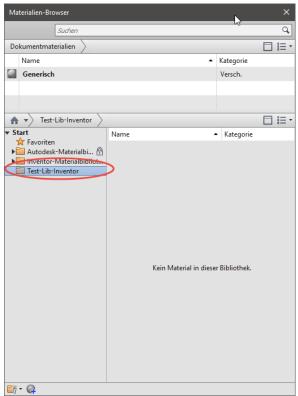


Sketch on xy-Plane (Top View), starting on 0,0, Extrusion 75mm

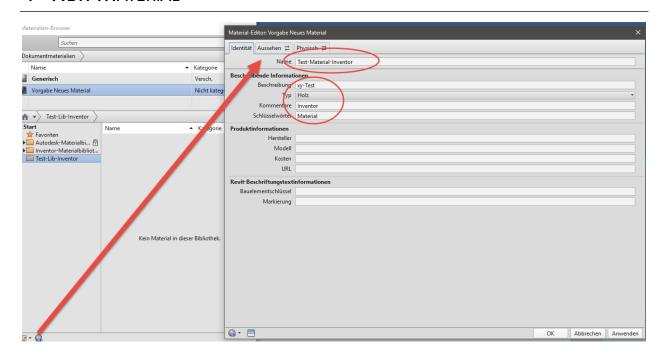


3 New Material Library

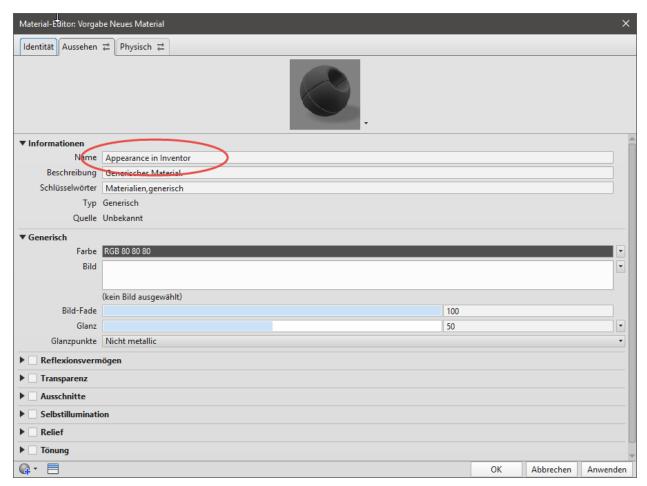




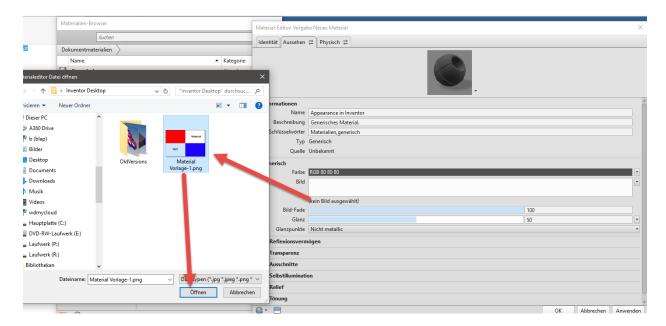
4 New Material



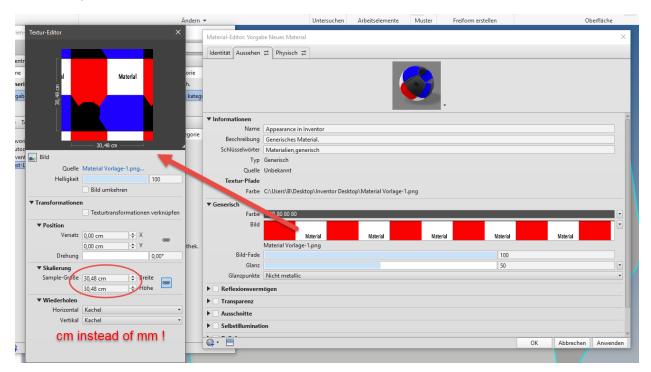
New Name, new Description etc. on Identity-Tab



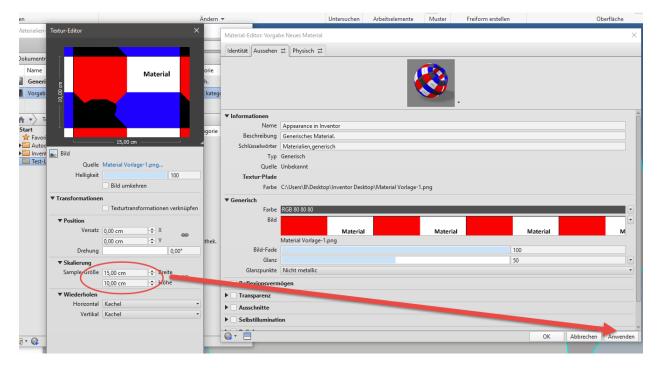
New Name on Appearance-Tab



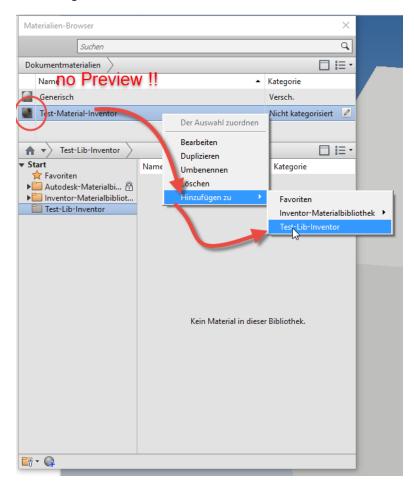
New Bitmap



Size of Bitmap shown in cm instead of mm (Part Template is mm !!)

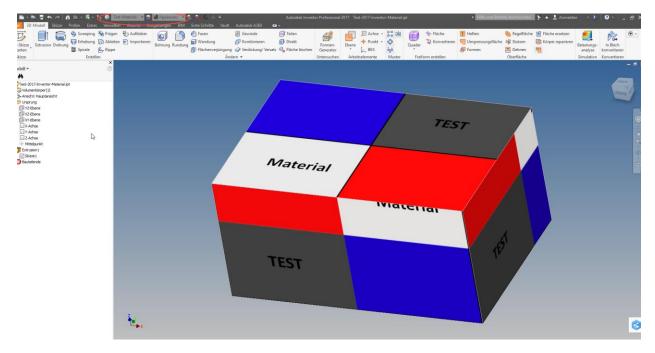


Size changed in 15x10cm



Export the Material into the new Library

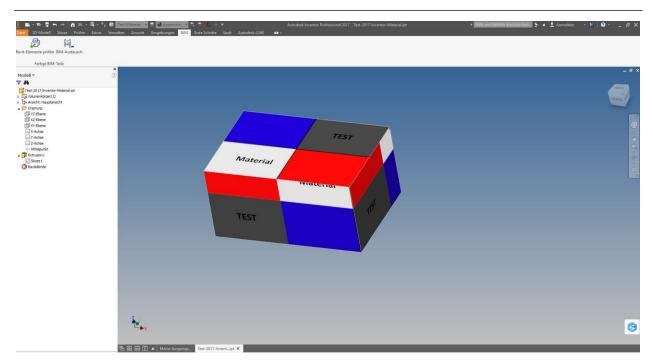
(btw.: No Preview is shown)

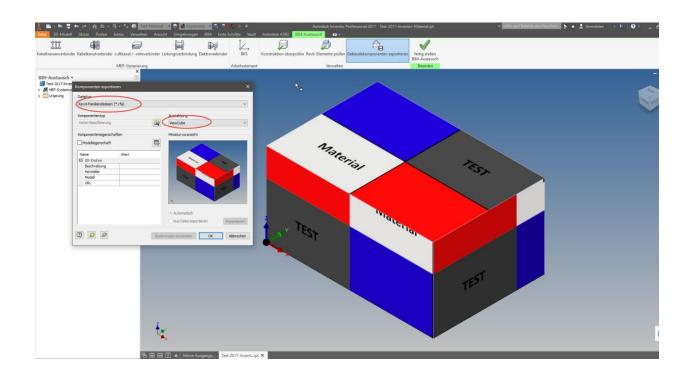


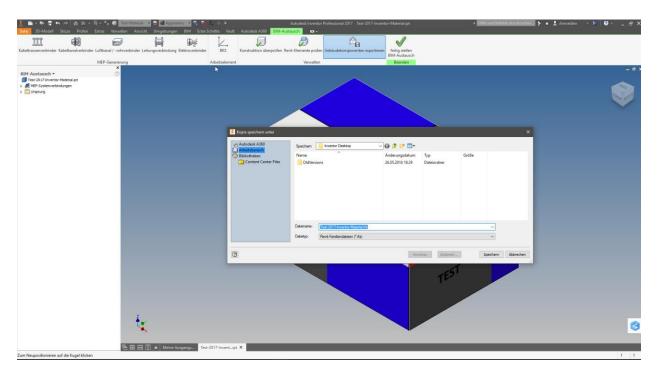
Add Material to the Part

I wonder: Why the Material Origin is not similar to the Origin of the Sketch (or of the Part)?

5 BIM EXPORT AS *.RFA

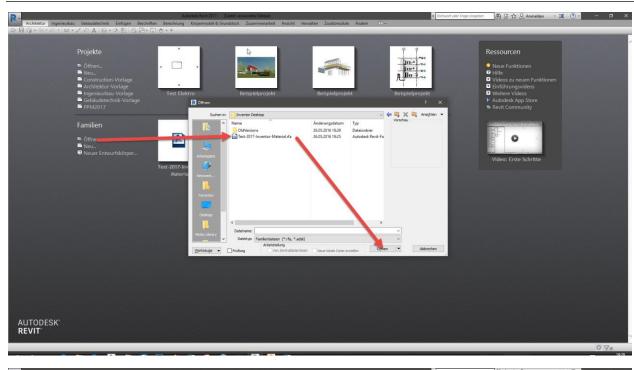


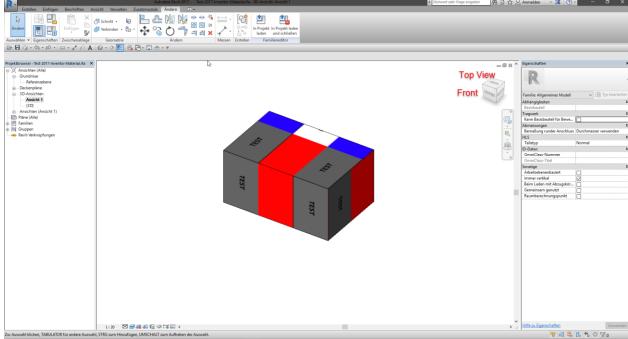




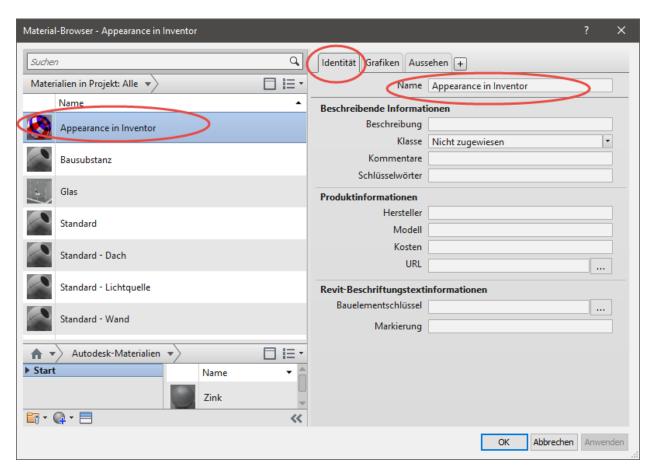
Part saved as *Test-2017-Inventor-Material.rfa*.

6 OPEN THE RFA-FILE WITH REVIT 2017



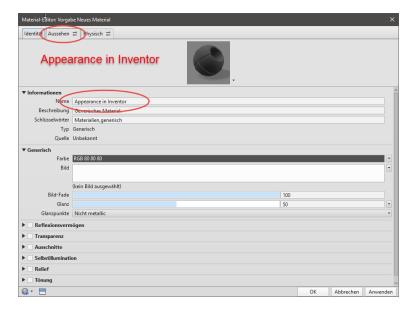


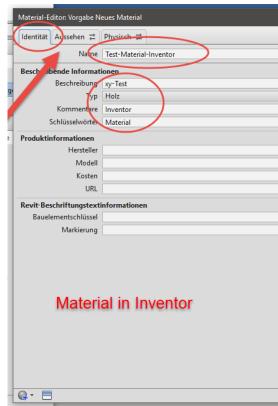
Material-Map is rotated by 90°

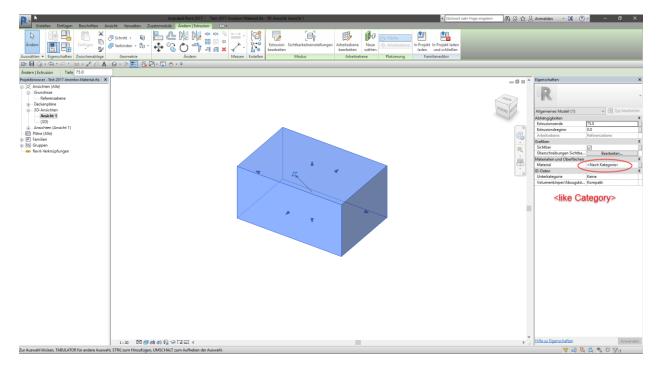


Wrong Material Name

(Remember: This is the Name of the Appearance and not the Material Name given in Inventor!!!)

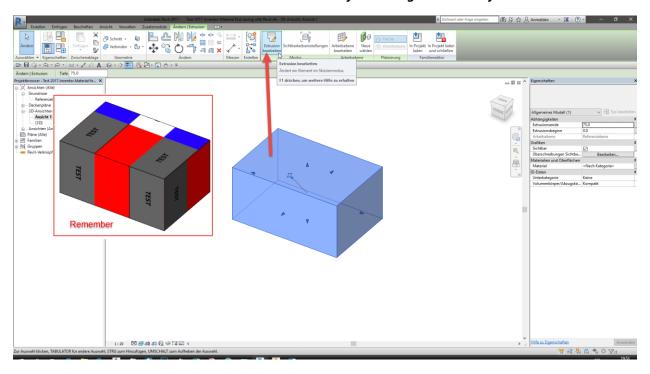




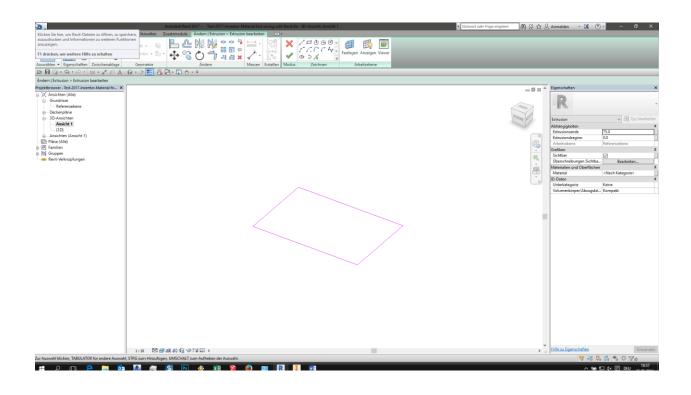


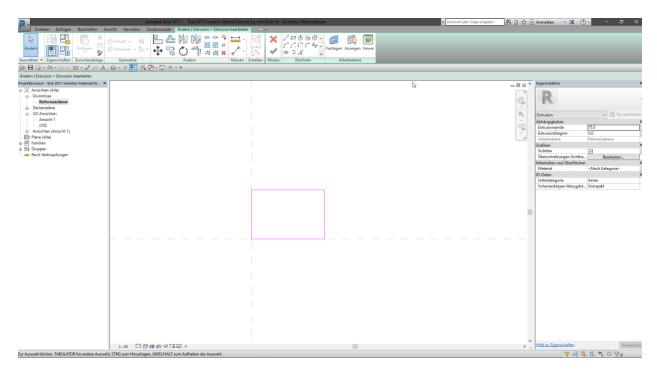
I wonder again: A Material is shown but no Material is link to the Extrusion or Body

Now I've saved this File as Test-2017-Inventor-Material first saving with Revit.rfa

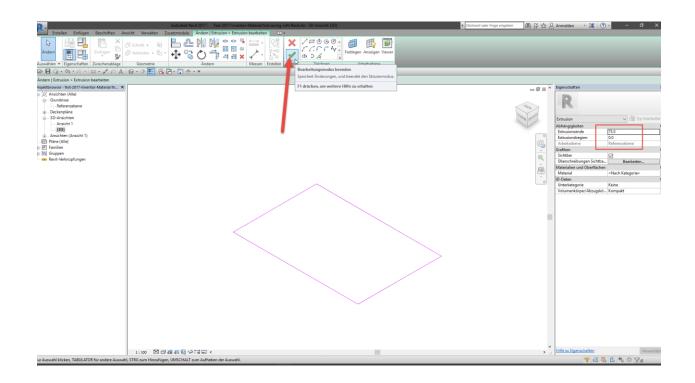


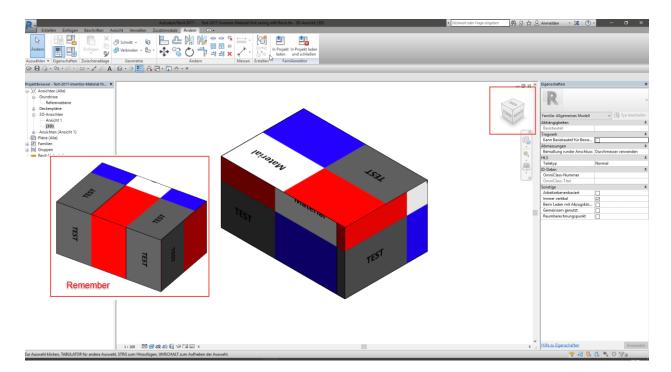
I open the Extrusion





Sketch is on 0,0. That's fine;)

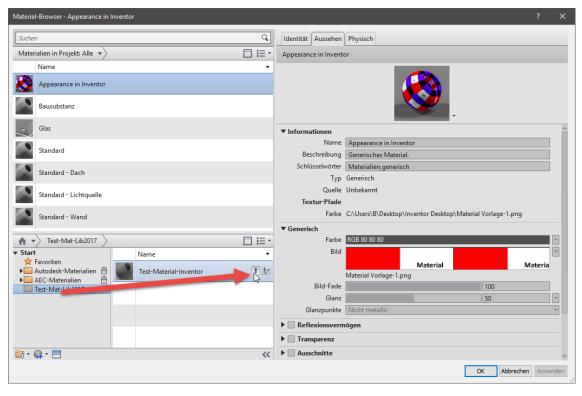


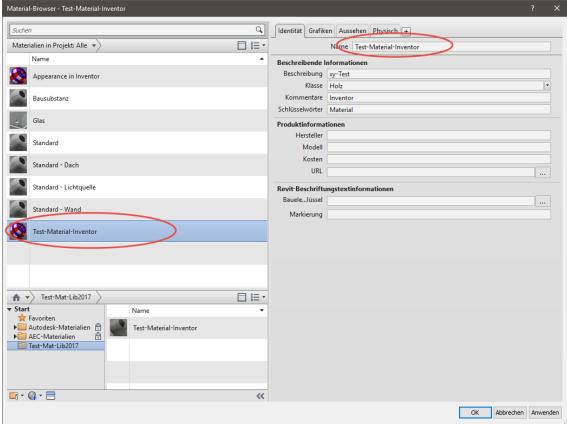


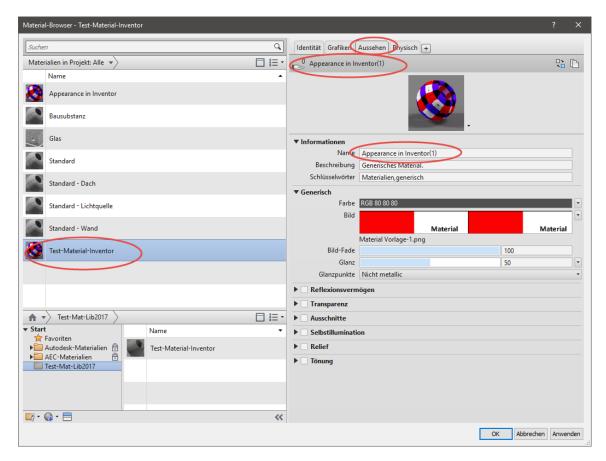
What's that ? The Map is rotated again. But in the wrong direction by 180°

Now saved as Test-2017-Inventor-Material second saving with Revit.rfa

7 IMPORT MATERIAL FROM LIBRARY

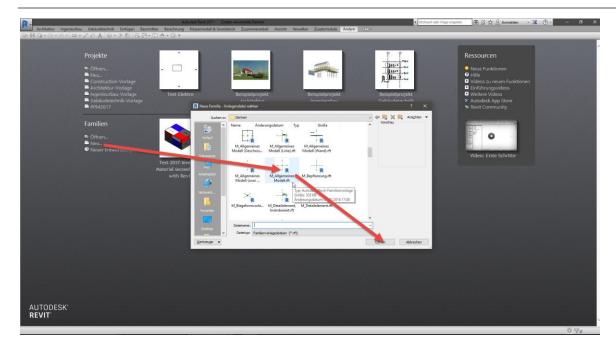


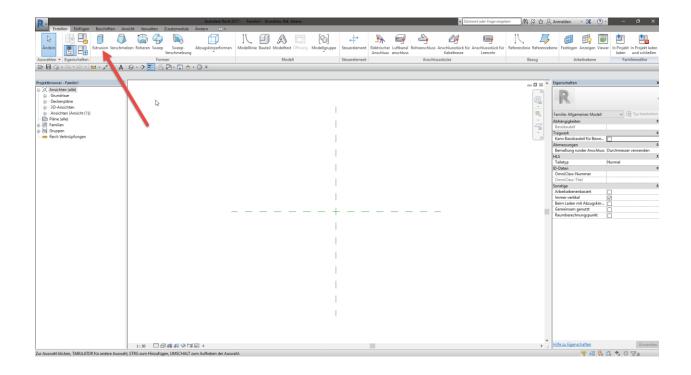


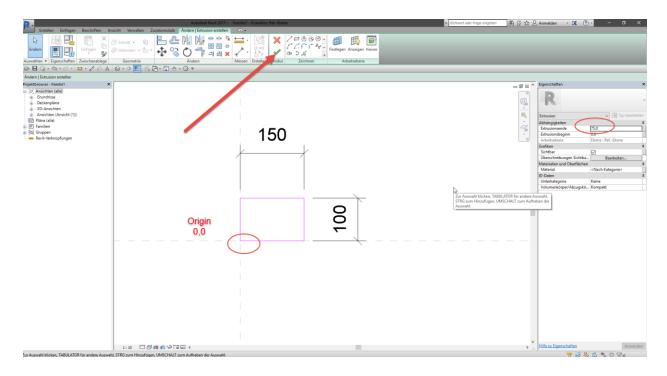


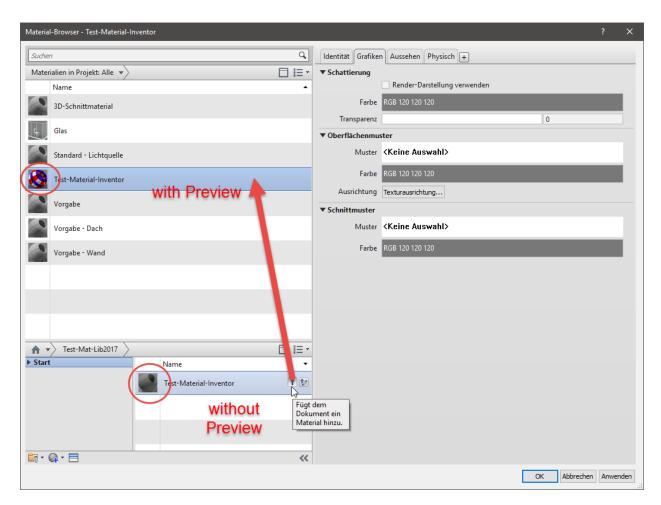
Now both Materials are placed in the browser. But the Appearance of the Inventor Material is duplicated!

8 New Revit Family with Inventor Material



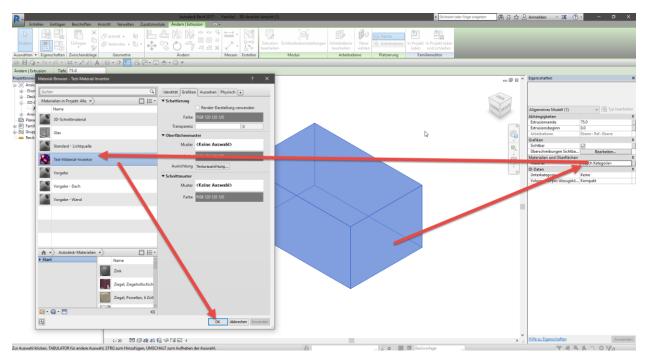




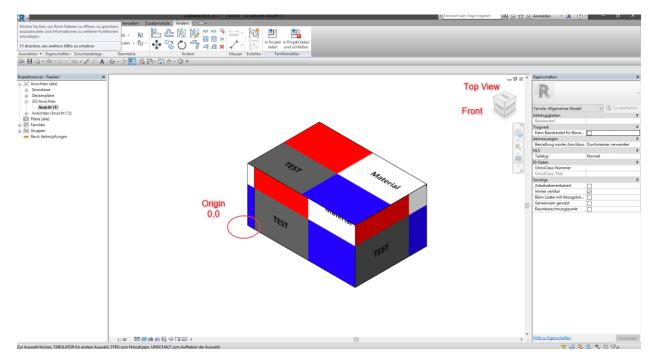


Import Material from Library.

Note: In Library no Preview, in Project File Preview



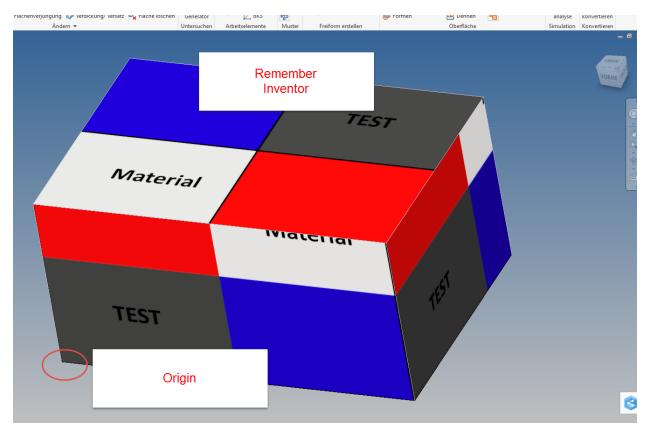
Add Material to Extrusion



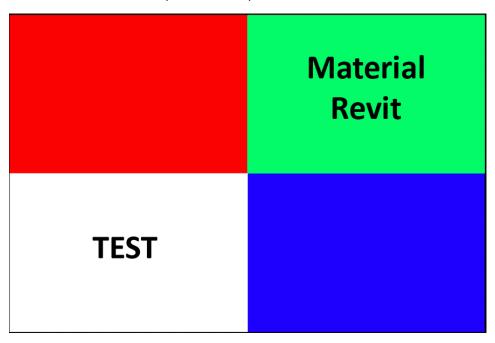
Now in Top View the Material starts from the Origin of the Sketch.

(Saved as Test-2017-Inventor-Material new Family.rfa)

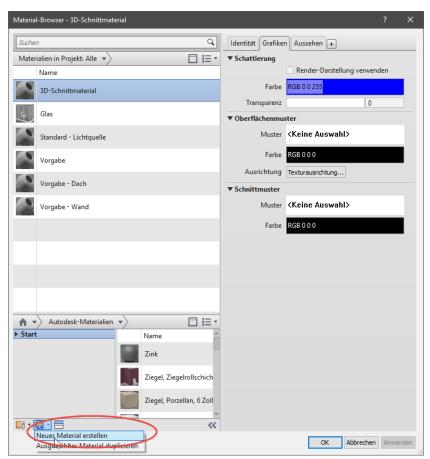
Remember how its look like in Inventor:



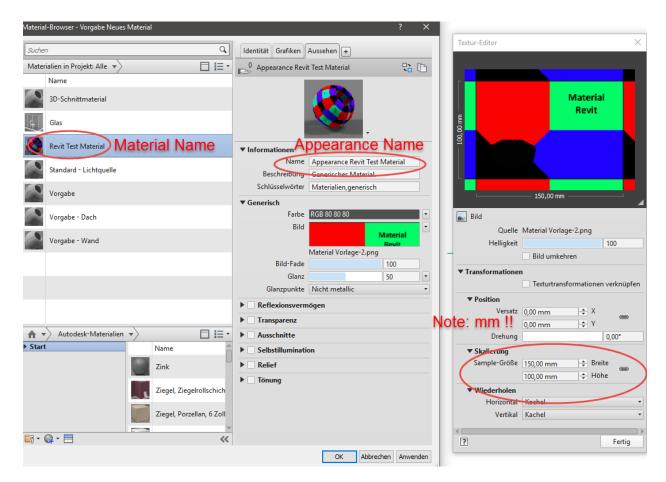
Create a new Material-Map in Photoshop



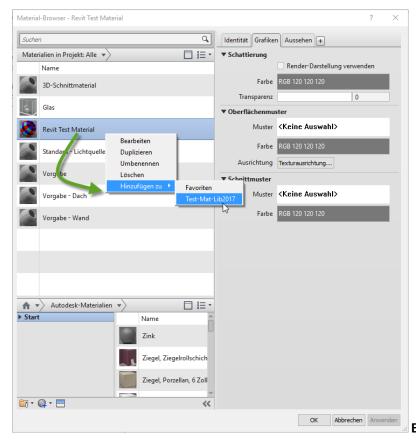
PNG 150x100mm, 150DPI Photoshop Start a new Family in Revit



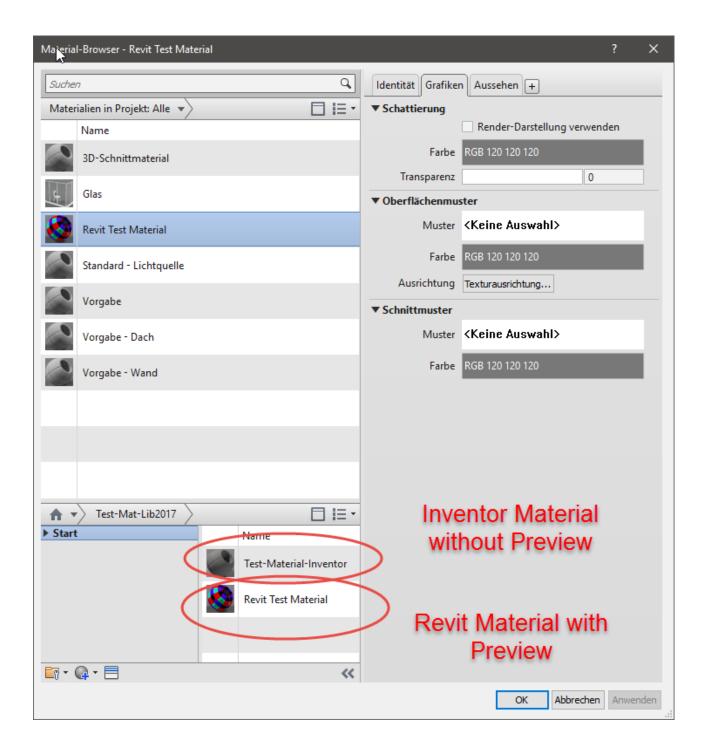
Create a new Material



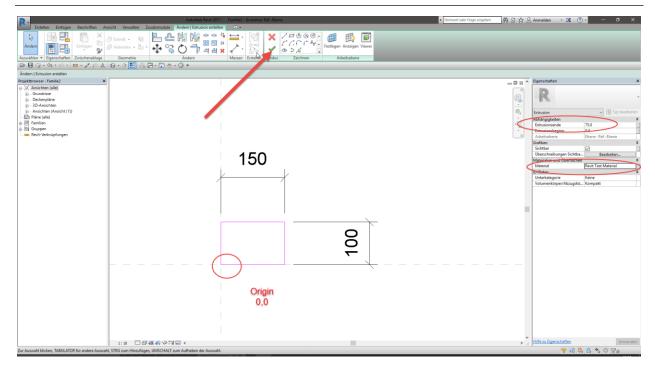
Note: Map-Size is mm instead of cm in Inventor!



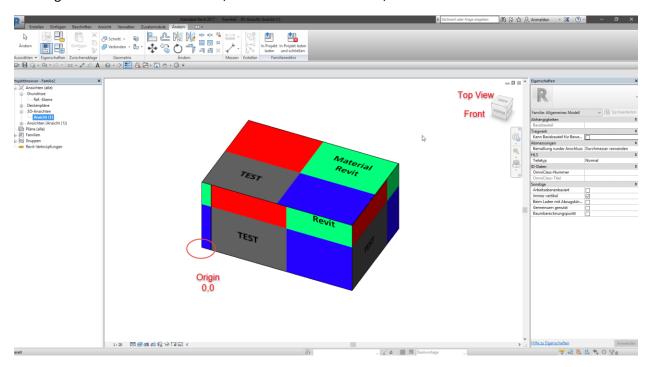
Export to Mat-Library



10 FAMILY WITH NEW MATERIAL



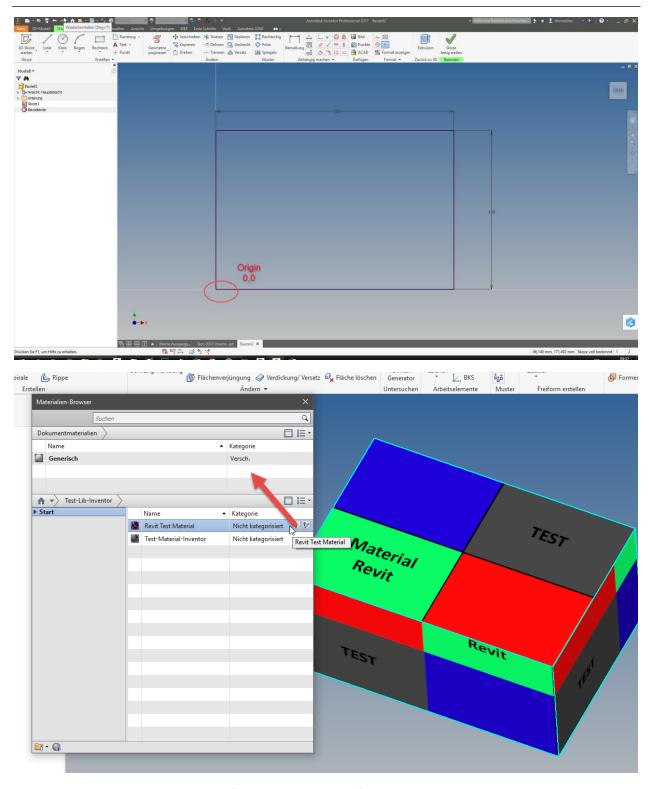
Starting a Sketch for Extrusion on 0,0 on Reference Level View, add Material



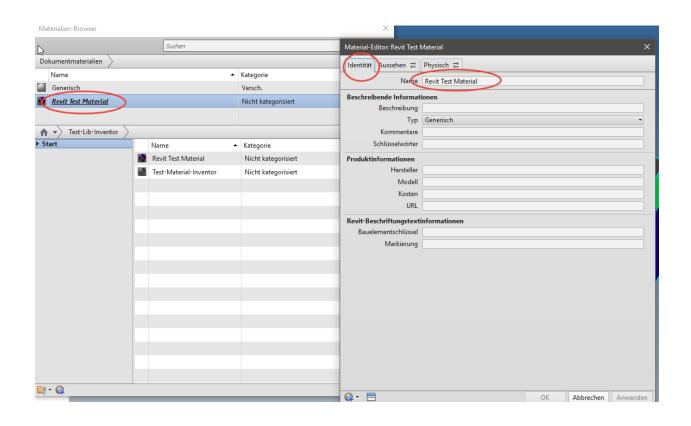
Everything is fine.

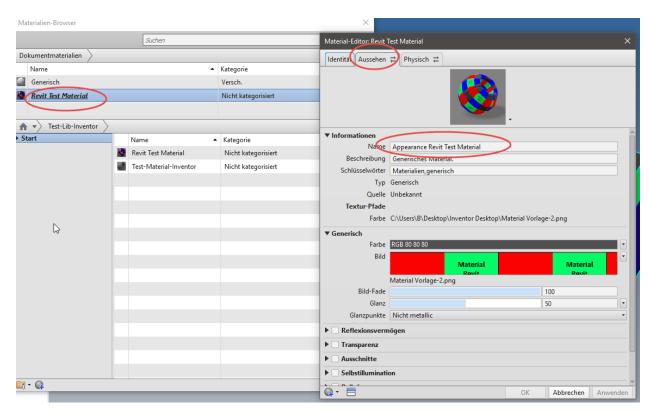
Saved as Test-2017-Revit-Material.rfa

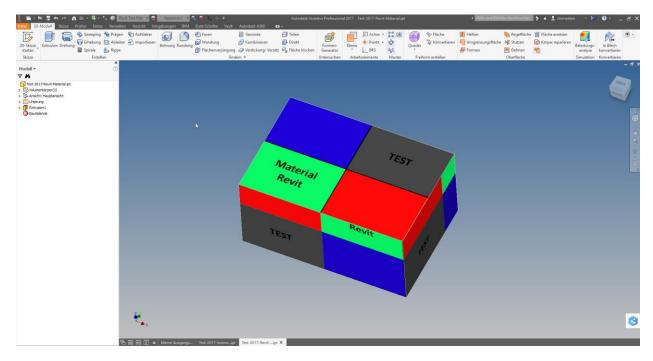
11 New Inventor Part with Revit Material



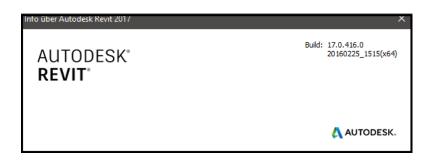
Add the Material to the Part, ignore "No physical Material"







Saved as Test-2017-Revit-Material.ipt

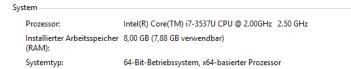




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Stift- und Toucheingabe: Für diese Anzeige ist keine Stift- oder Toucheingabe verfügbar.



Supportinformationen



13 SUBMITTED FILES

