Guide by John Flanagan

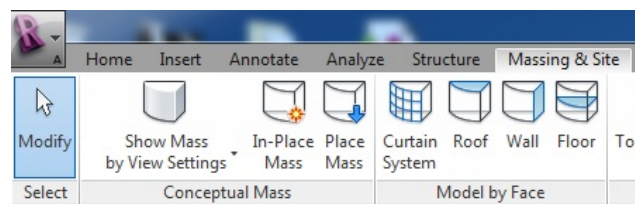# Simple Massing in Revit Architecture

This White Paper outlines the steps to create a circular slanted Wall in Revit Architecture 2012.

All Revit Users

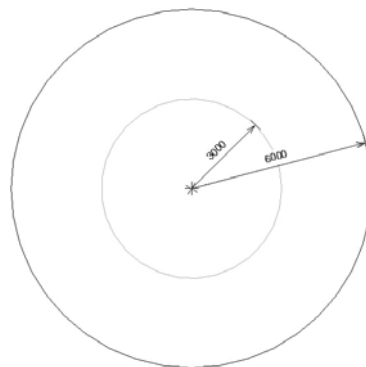**Using an In – Place Mass to create slanted walls:**

➢ On the Conceptual Mass panel select In-Place Mass (Fig 1)

   Fig 1: Conceptual Mass Panel

➢ Open level 0 from the Project Browser and draw a circle with a radius of approx. 3000mm.

➢ Open level 1 from the Project Browse and use the pick lines tool to select the underlay circle from level 0. Change the radius of this circle to approx. 6000mm (Fig 2)

   Fig 2: Mass Profiles Plan View

![White Paper]

Because Revit Architecture is a workplane based modeller, the active workplane will be on the selected level.

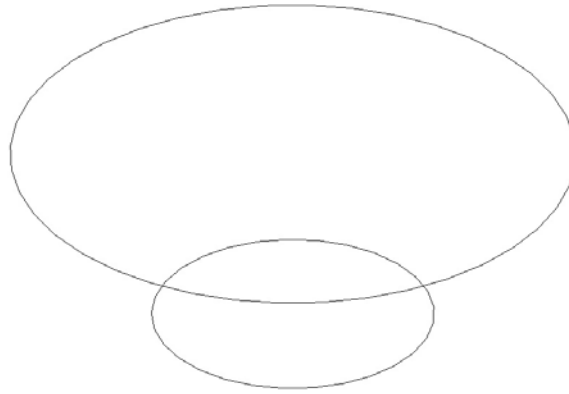Passion   Integrity   Expertise   Teamwork

➢ Go to a 3D view and select both circle profiles (Fig 3)

Fig 3: Mass Profiles 3D View

➢ Click the Create Form button and then the Finish Mass button on the Ribbon (Fig 4 & 5)
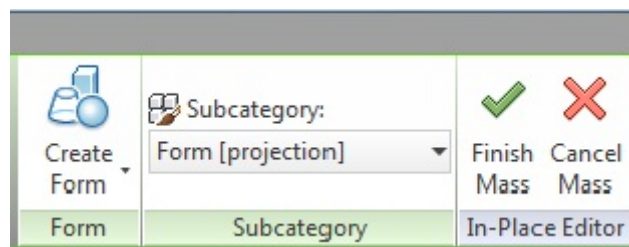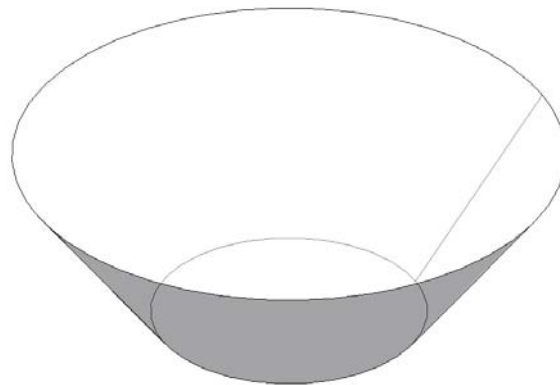
Fig 4: Create Form / Finish Mass

Fig 5: Mass Form Created

➢ Use the Wall by Face Tool from the Home Tab to attach cavity walls to the Mass Form (Fig 6 & 7)
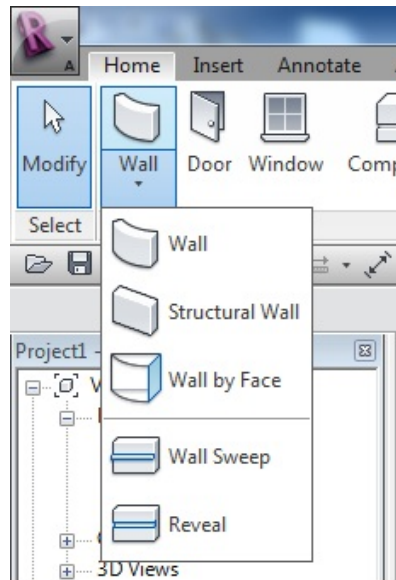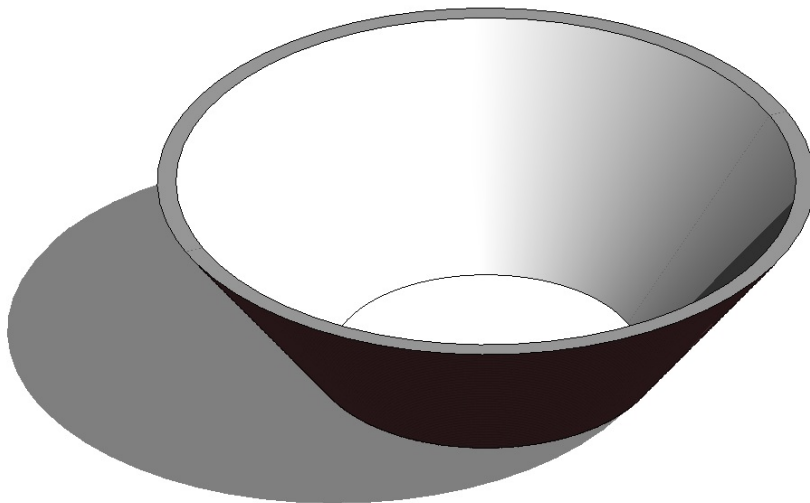
Fig 6: Wall by Face

Fig 7: Slanted walls attached to Mass Form

Note: When placing the walls by face, select Finish Face Interior on the Options Bar and then switch the mass off to show the walls clearly.

➢ Select the Paint Tool from the Geometry Panel on the Ribbon and paint the interior surface of the walls (Figs 8 & 9)

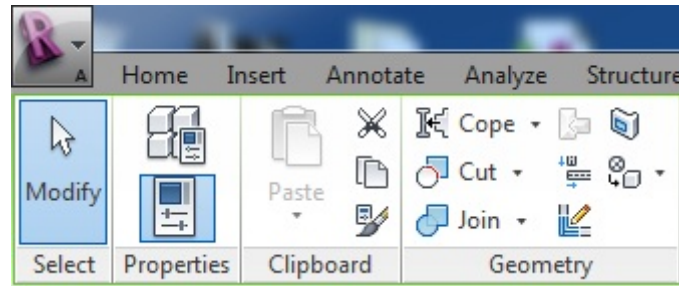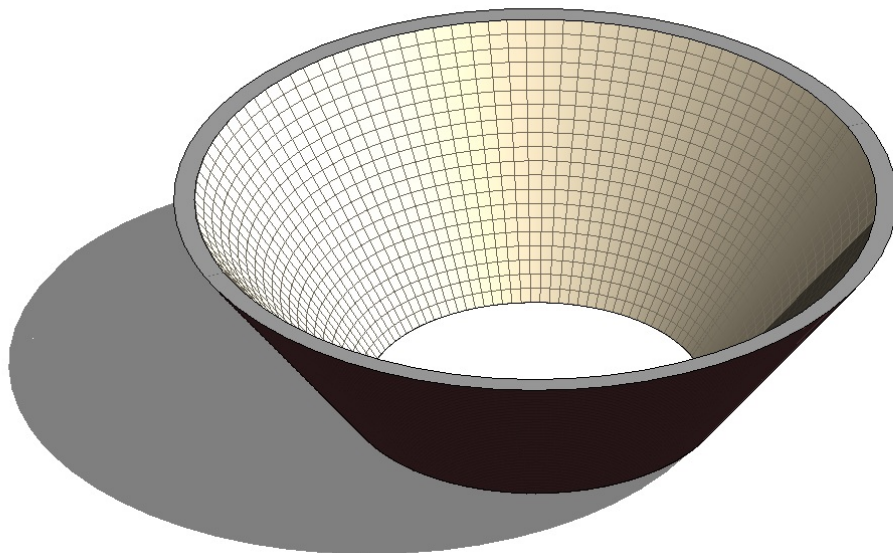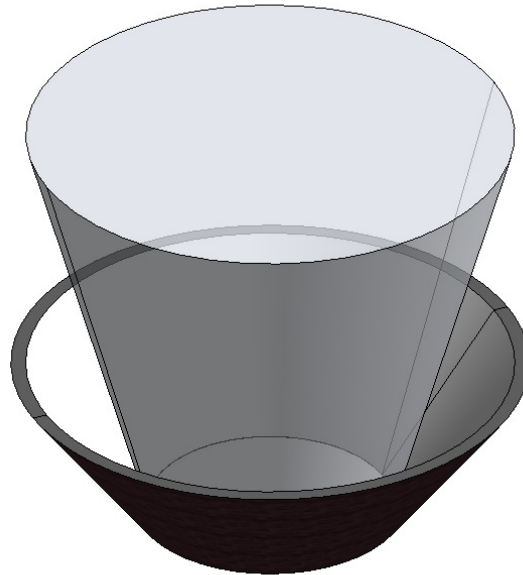**Fig 8:** Paint Tool Location

Fig 9: Completed Form with Mass Switched Off

If you edit the Mass Form as in Fig 10, it is easy to update the walls to fit the changed mass parameters.

Fig 10: Edited Mass

➢ Simply select the walls and click the Update To Face button and the walls will re-attach to the Mass Face (Fig 11 & 12)
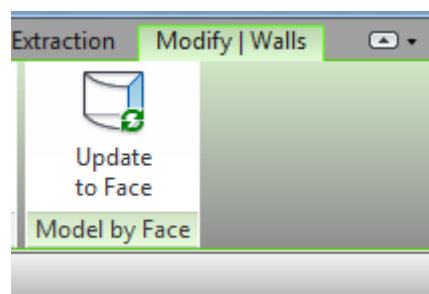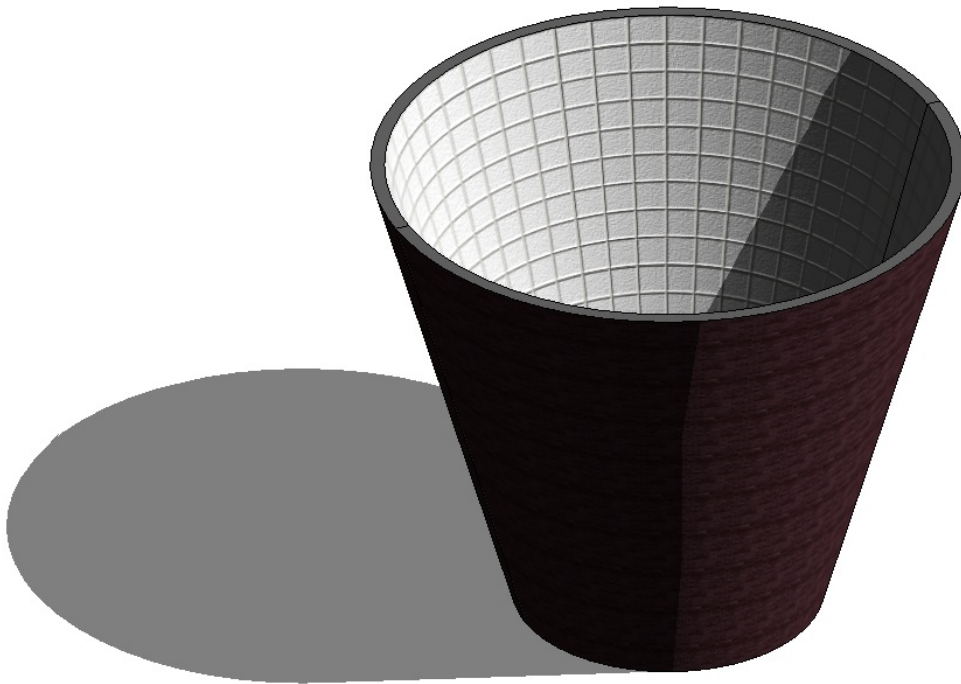
Fig 11: Update to Face

Fig 12: Updated Walls match Updated Mass

Massing is a fun way to try out new approaches to design intent, the only limit is your imagination.