



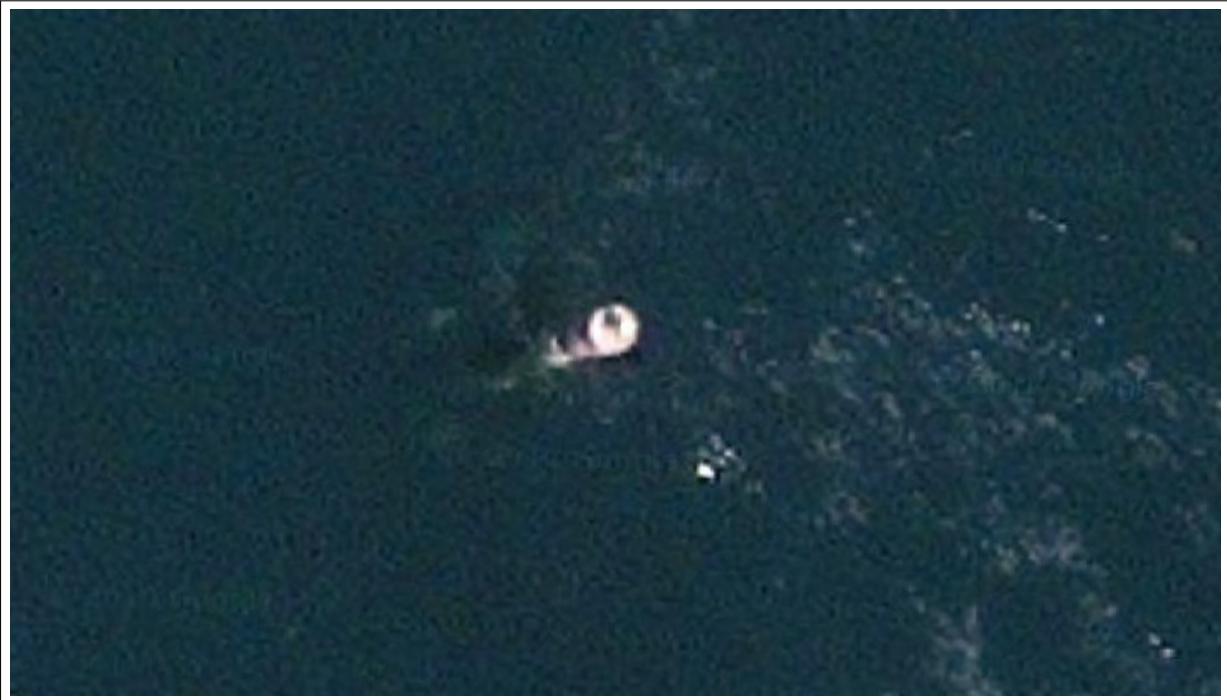
Tutorial: Building a 3D object with SketchUp

Ref : TV021213 TU CT

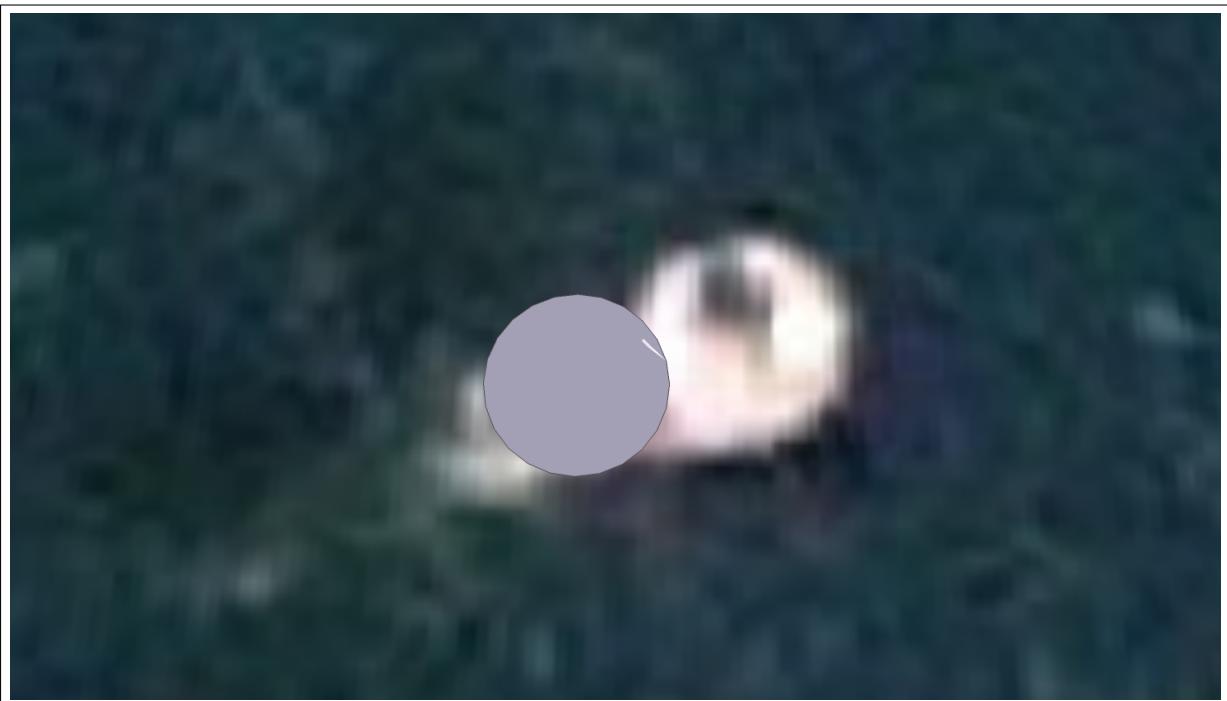
By: Cathy Tritschler



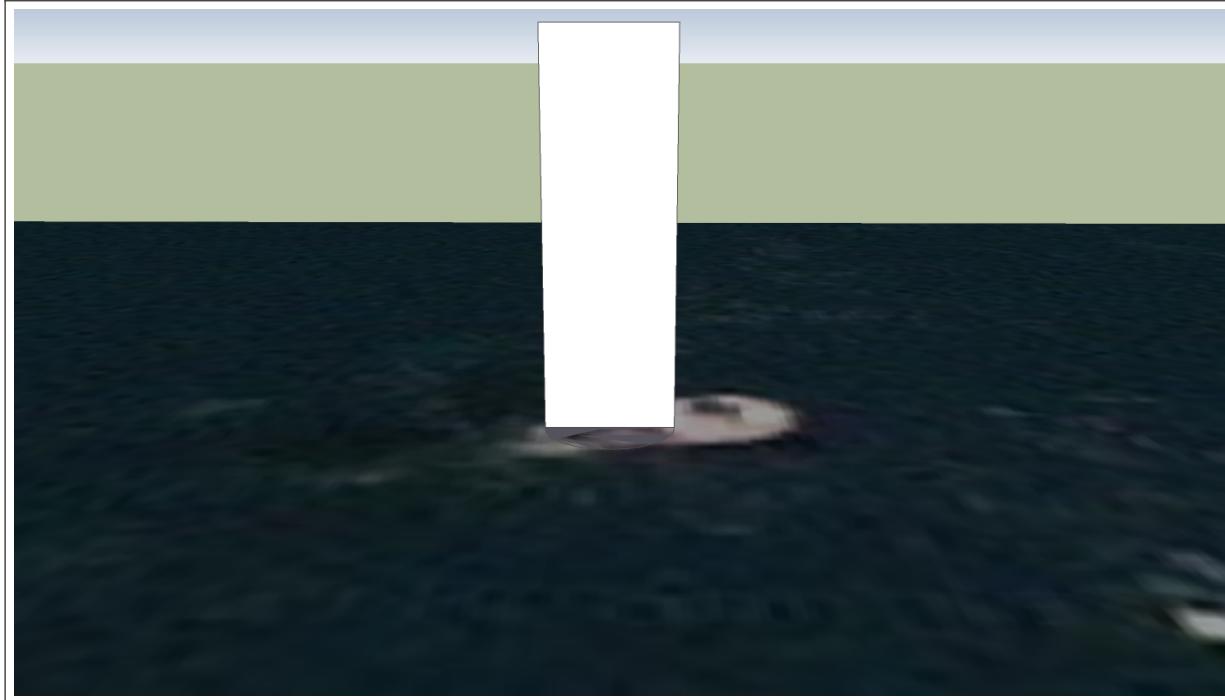
Roche Mengam beacon in Goulet de Brest (France)



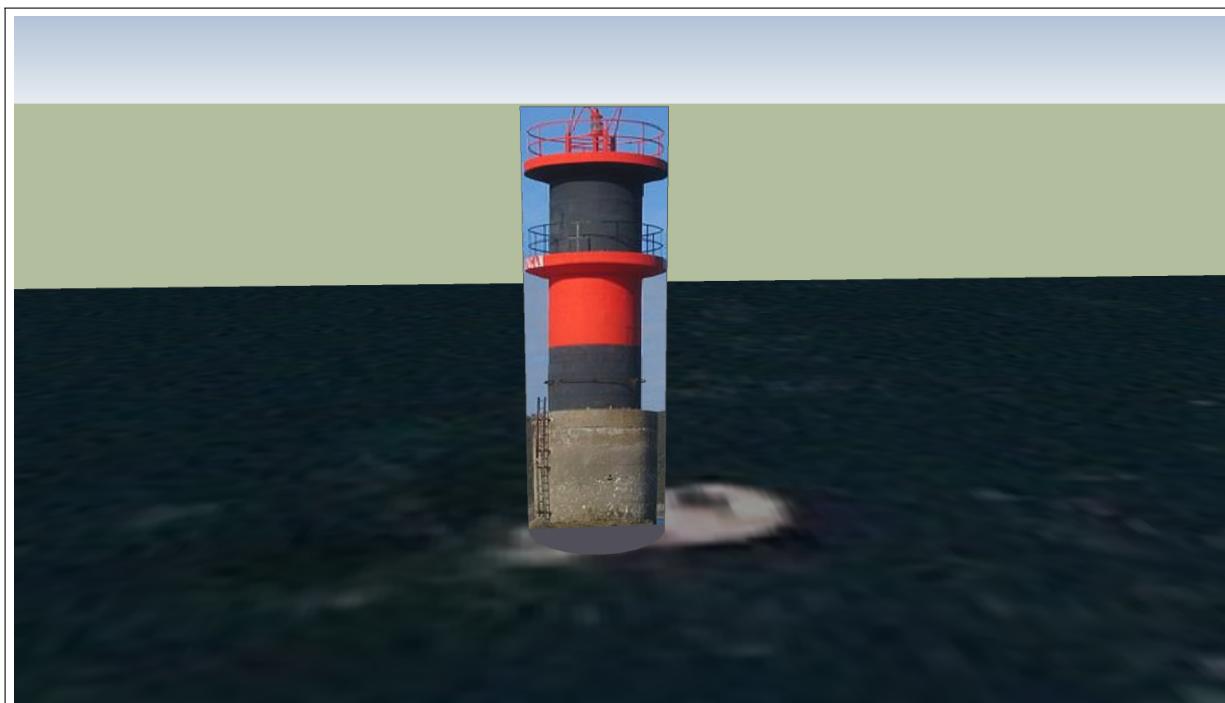
Step 1 – Downloading of GoogleEarth geolocation



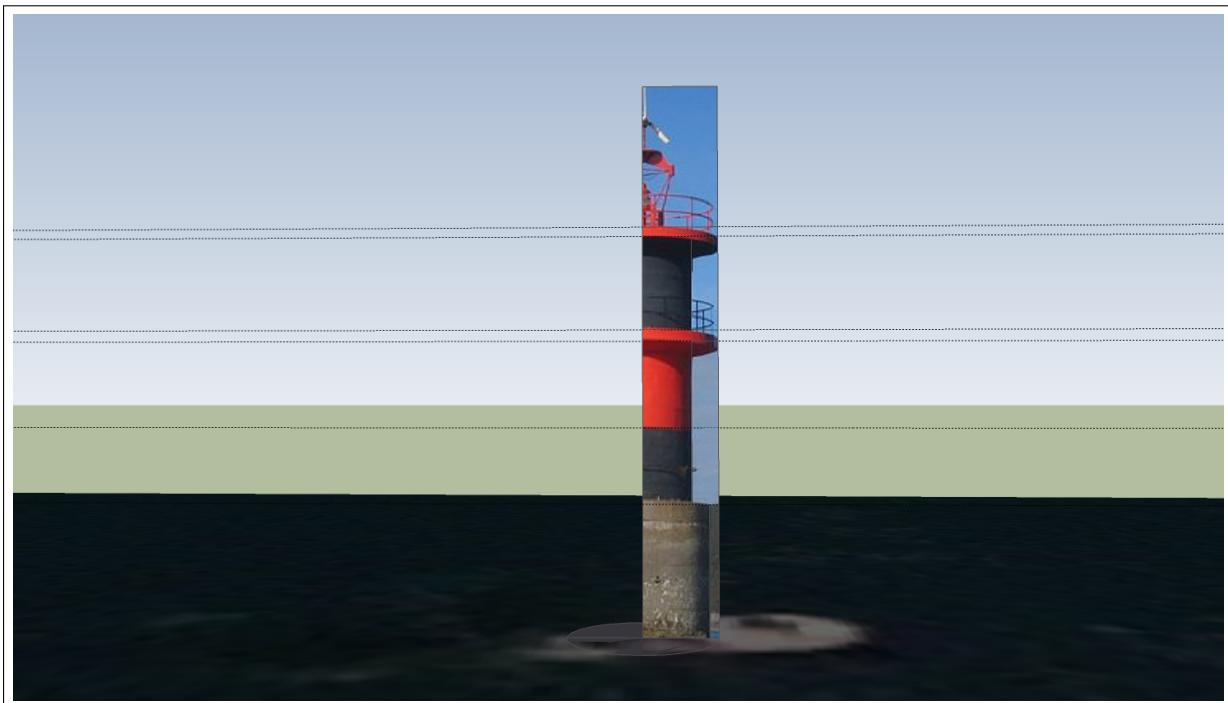
*Step 2 – Drawing of the model's base on the ground
(using dimensions that you have been able to find)*



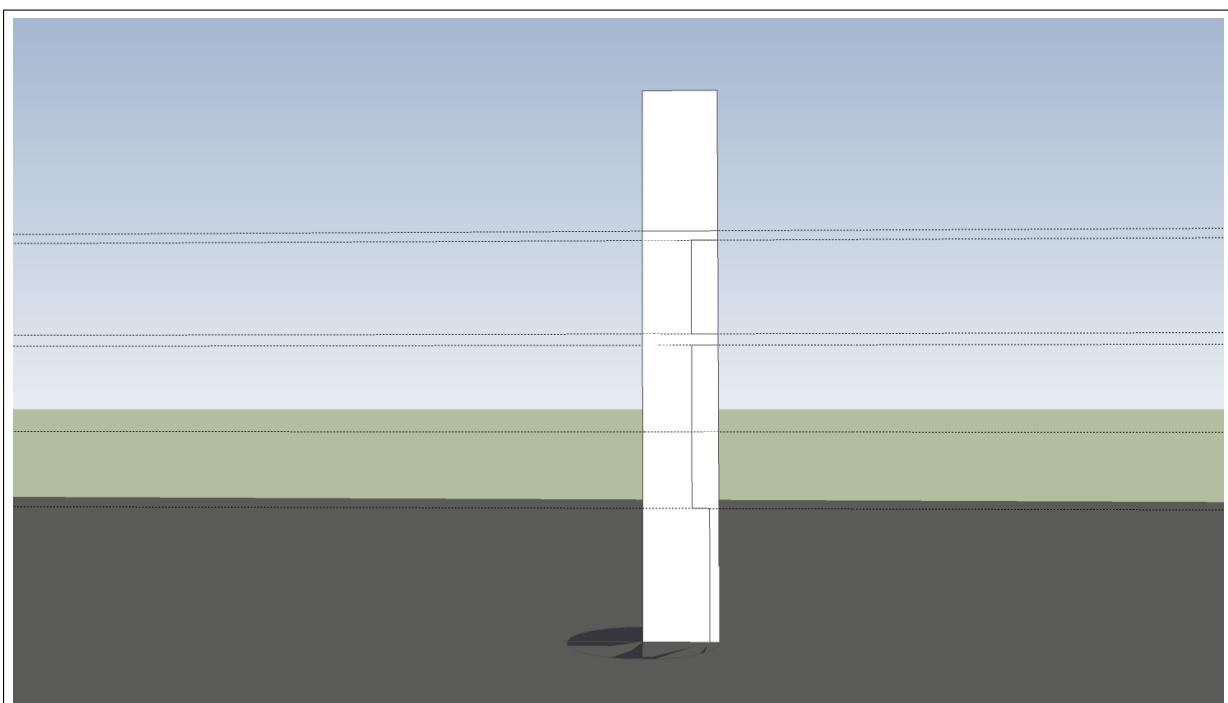
Step 3 – Putting up a rectangle above the base



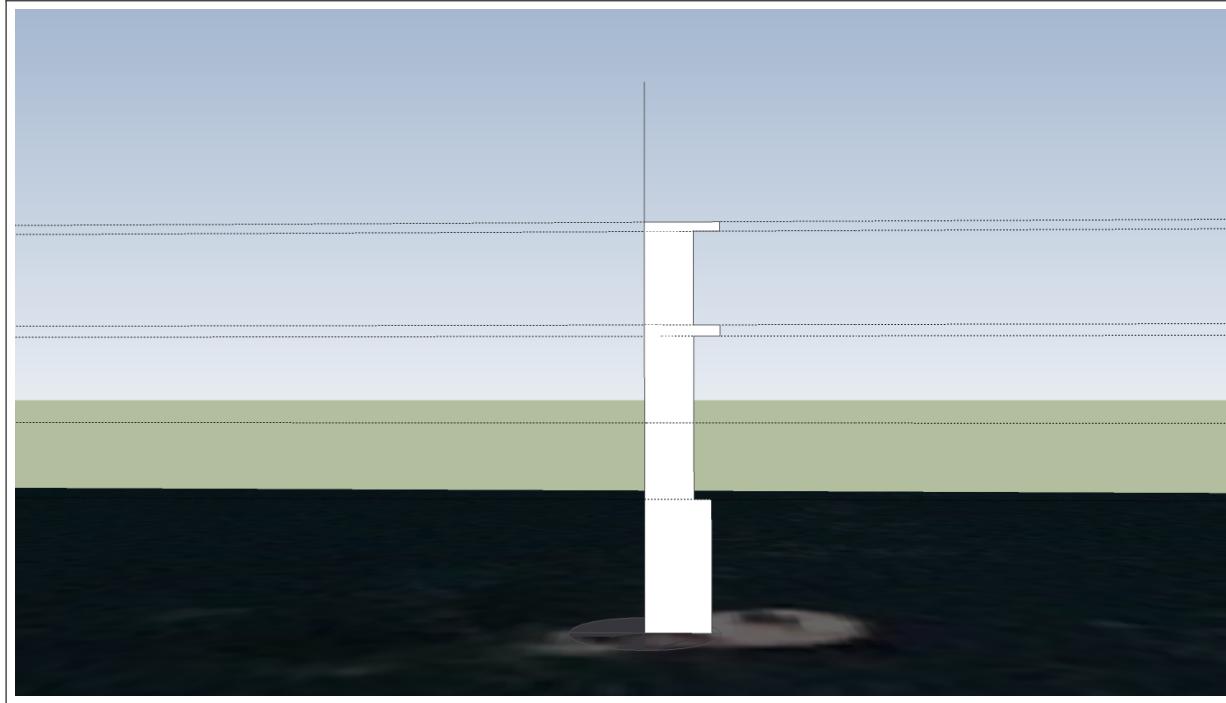
Step 4 – Positioning a photo that you will use to determine the model profile



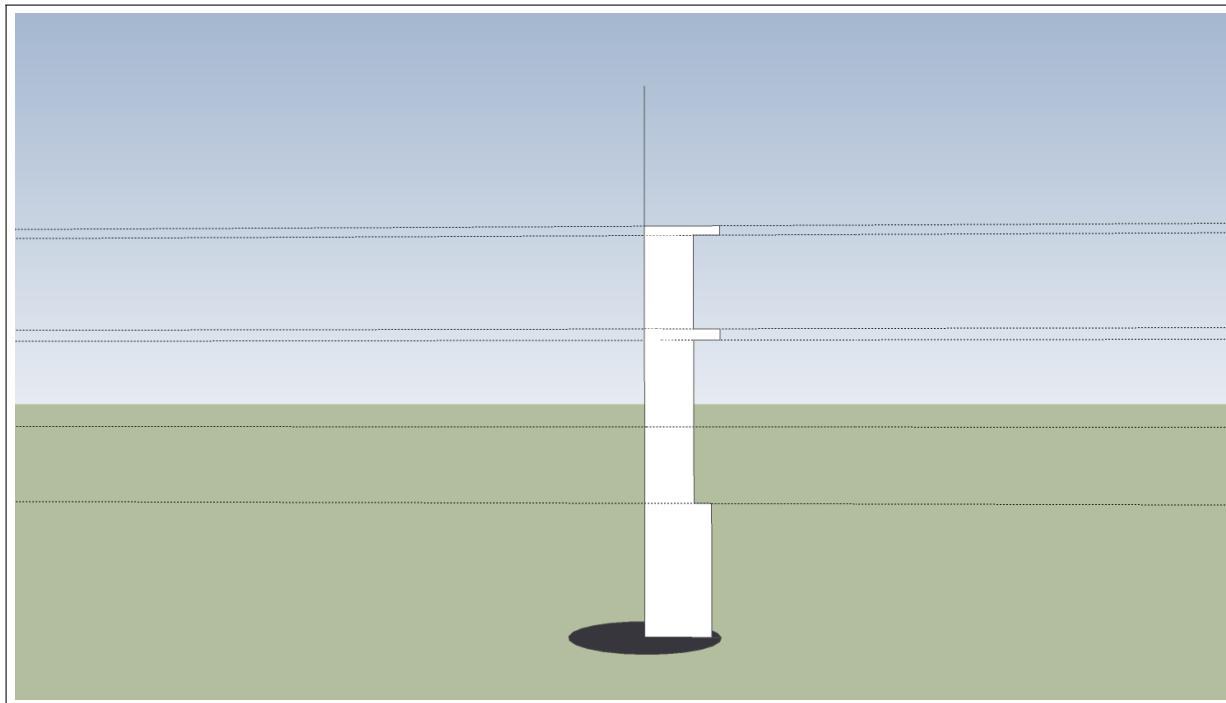
Step 5 – Cutting the model in half from the centre



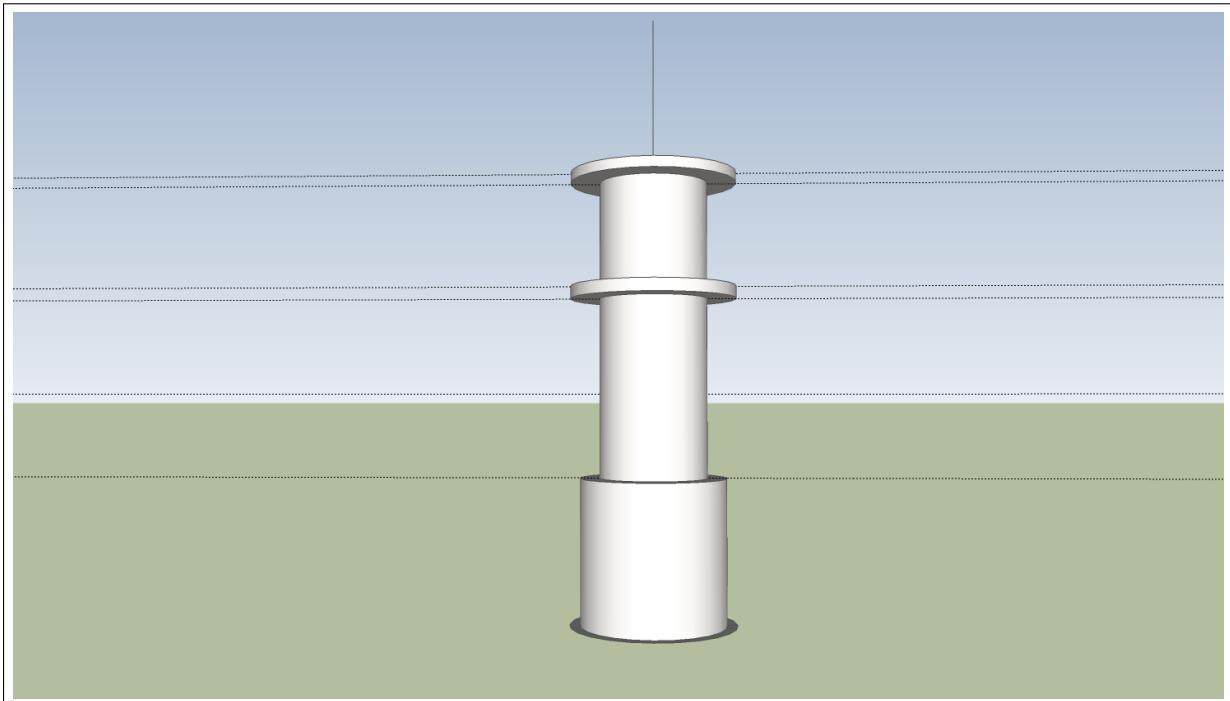
Step 6 – Drawing of the half profile



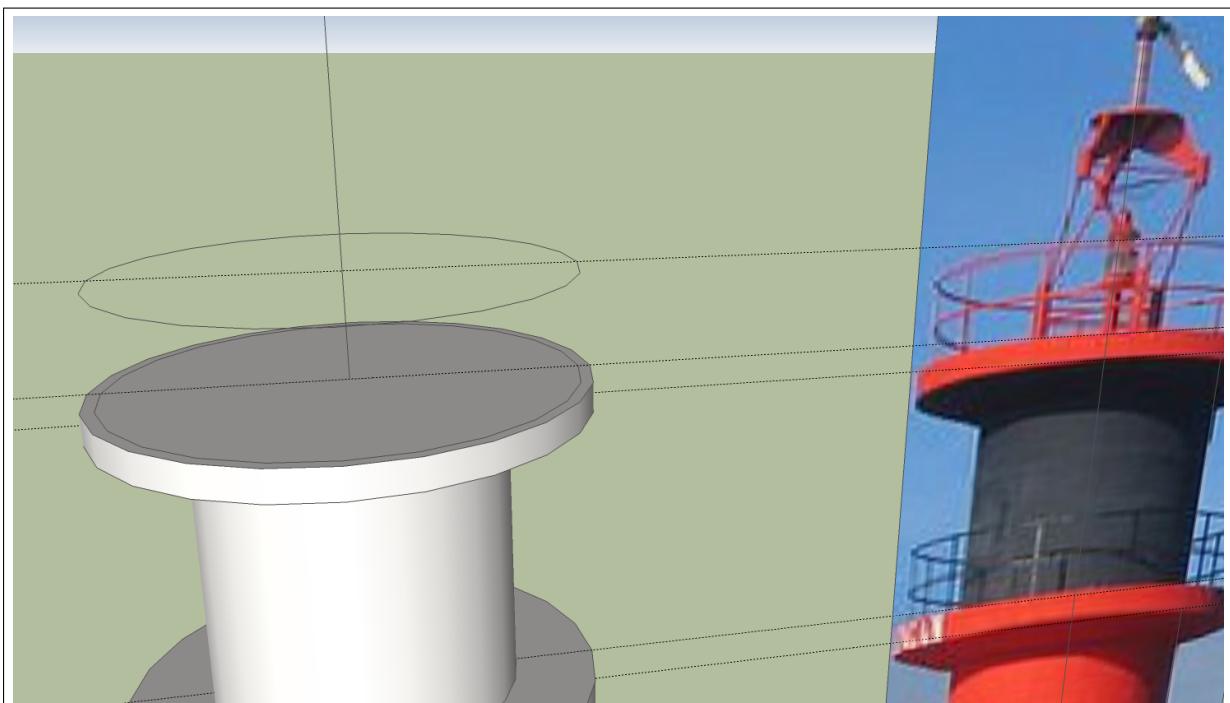
Step 7 - Cutting the half profile



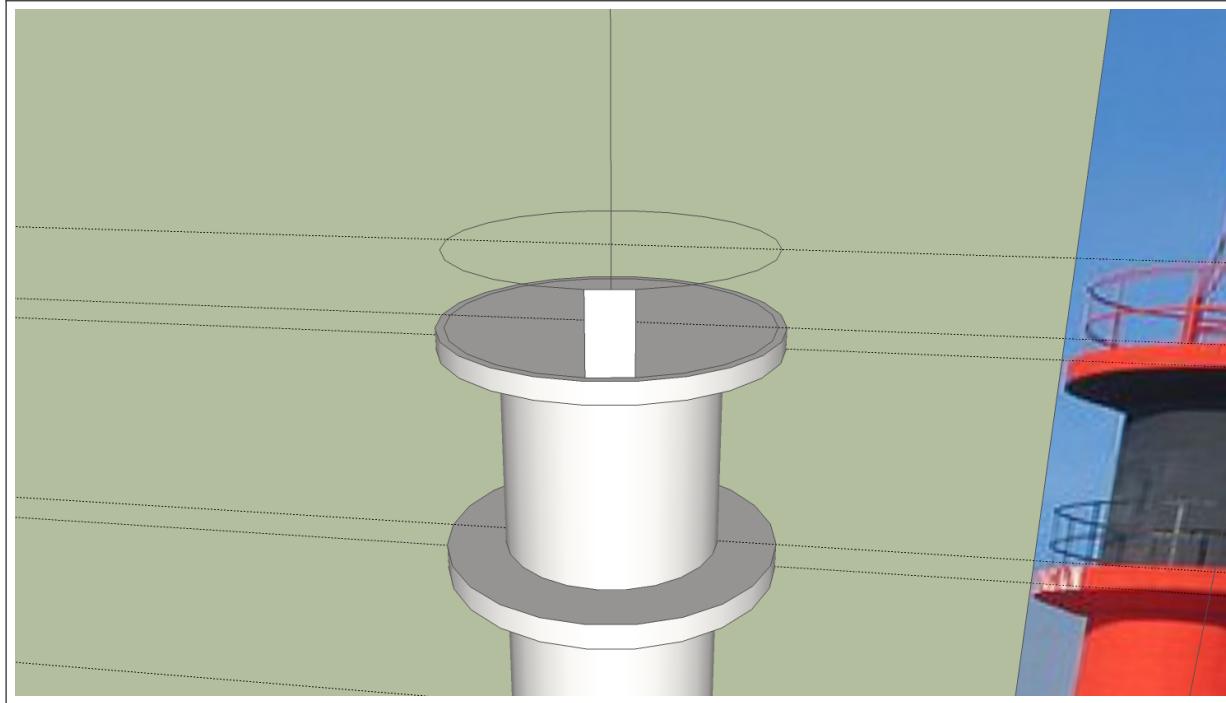
Step 8 - Extrusion following the circle drawn for the model bottom



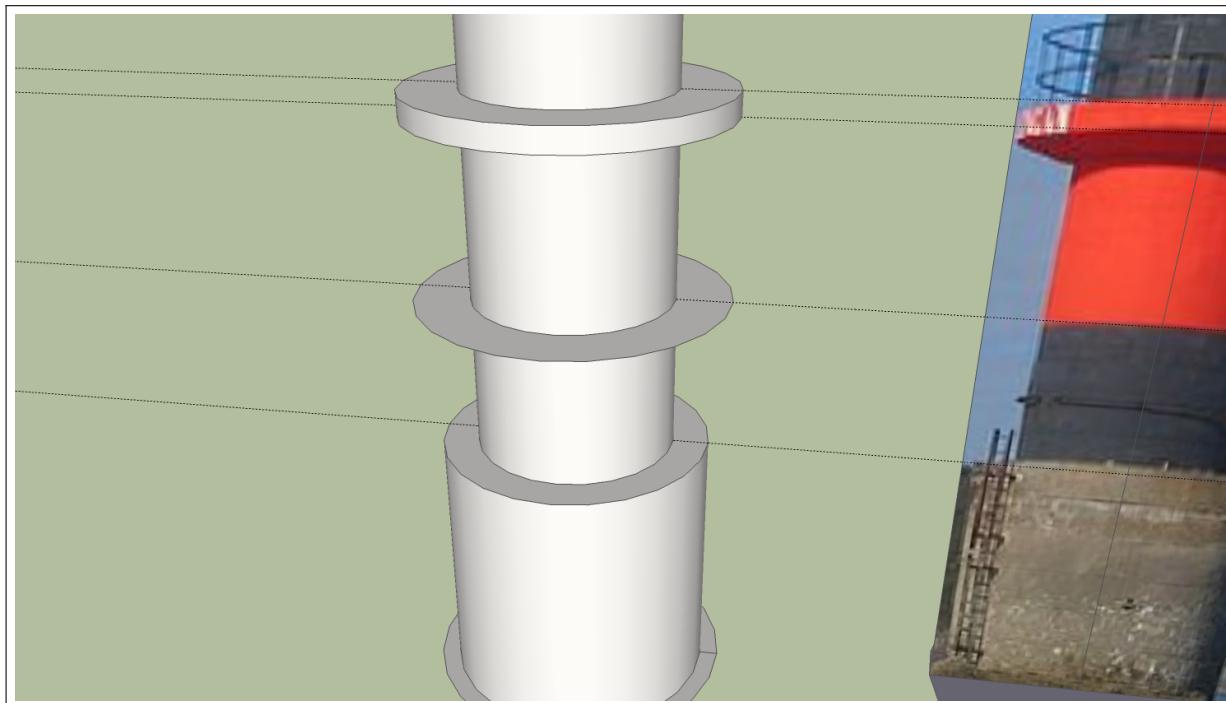
Step 9- Result after extrusion



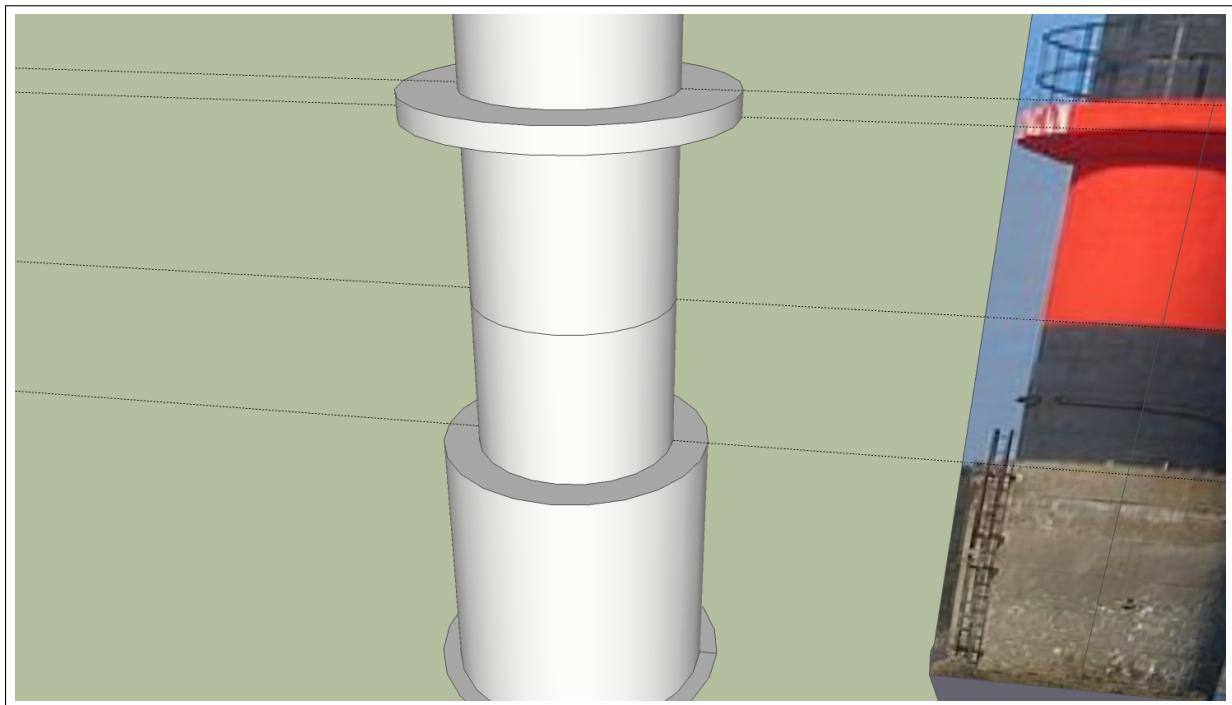
Step 10 - *Drawing of a circle at the bottom and the top of the guard-rail*



Step 11 - *Drawing of a planar form for the guard-rail*



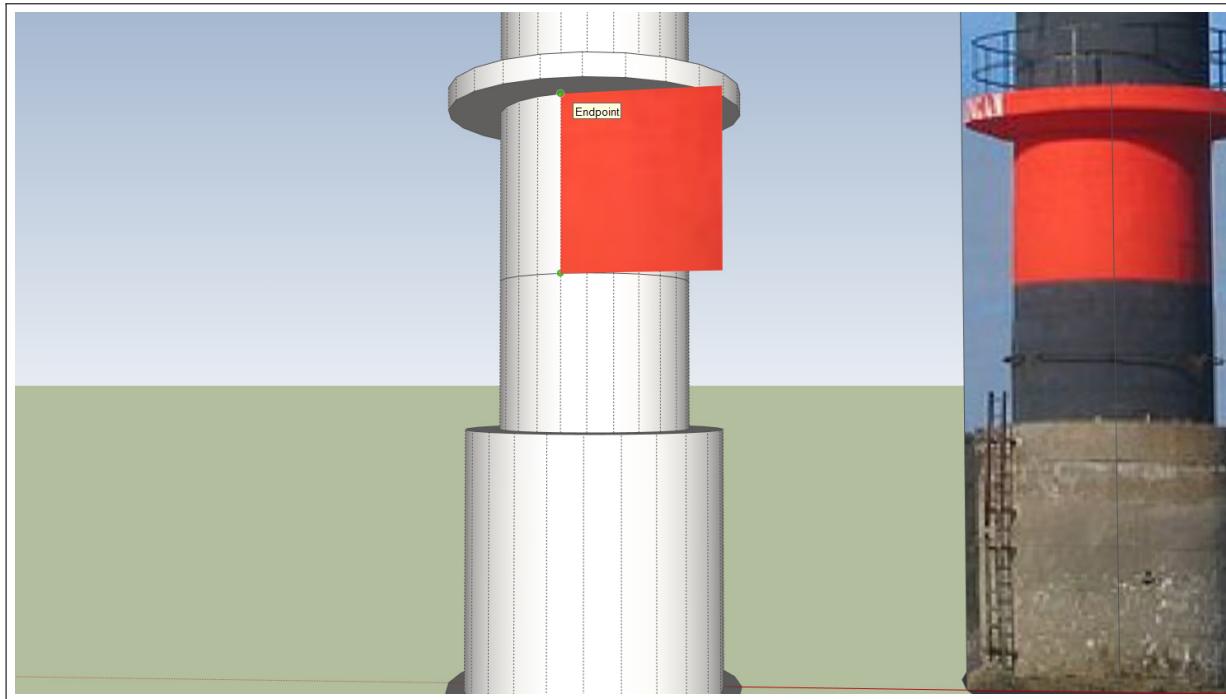
Step 12 - *Delimitation of the boundary between colors
(drawing of a circle and use of intersect tool)*



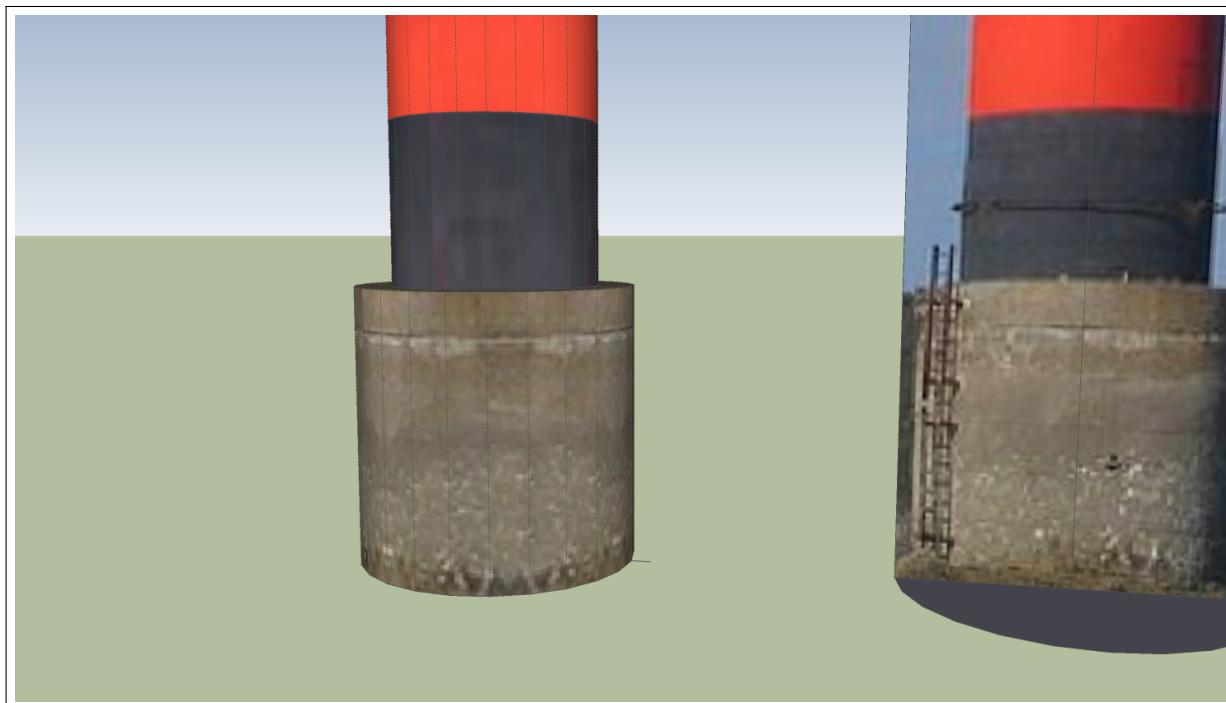
Step 13 – *Result after intersecting and suppressing the provisory circle*



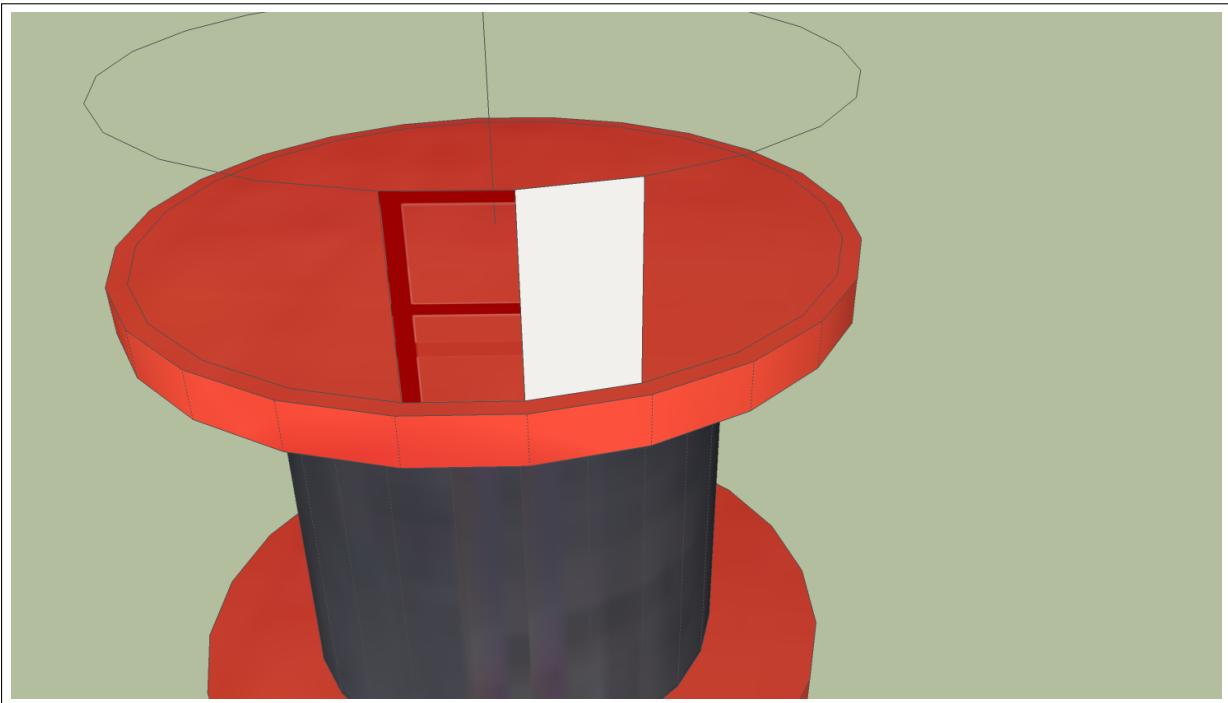
Step 14 – *Creation of texture sample with photo editing software (photoshop, Gimp...)*



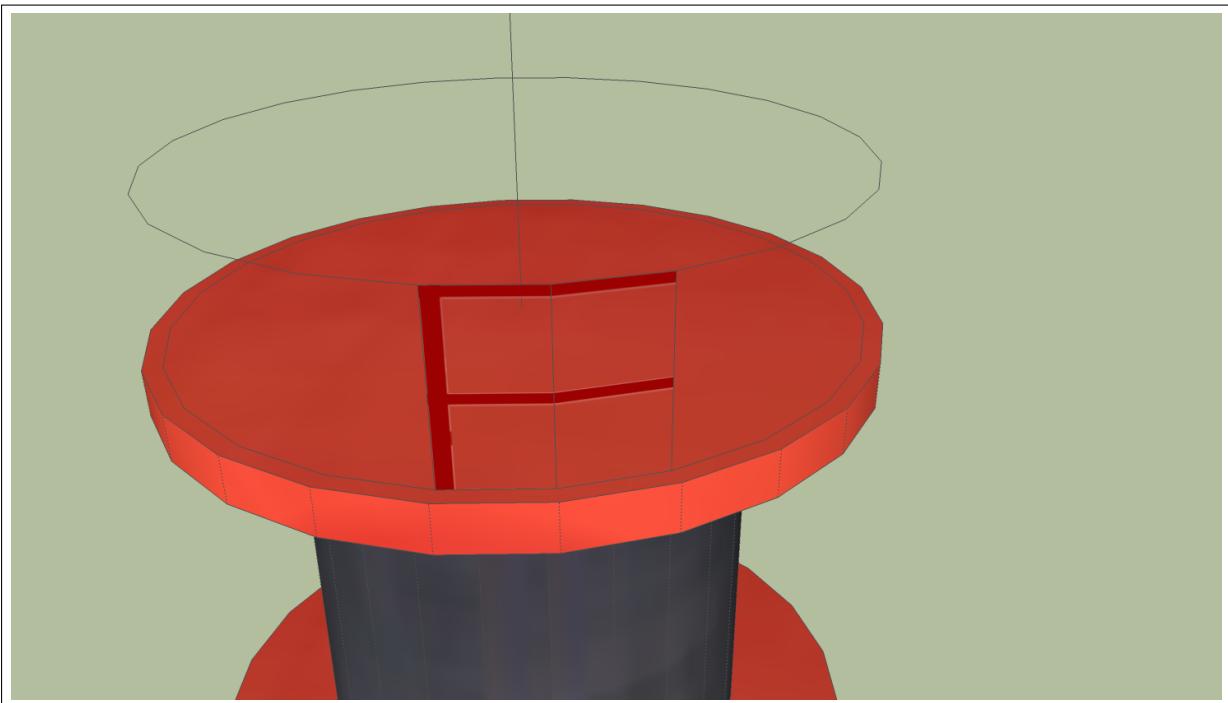
Step 15 – Texture positioning



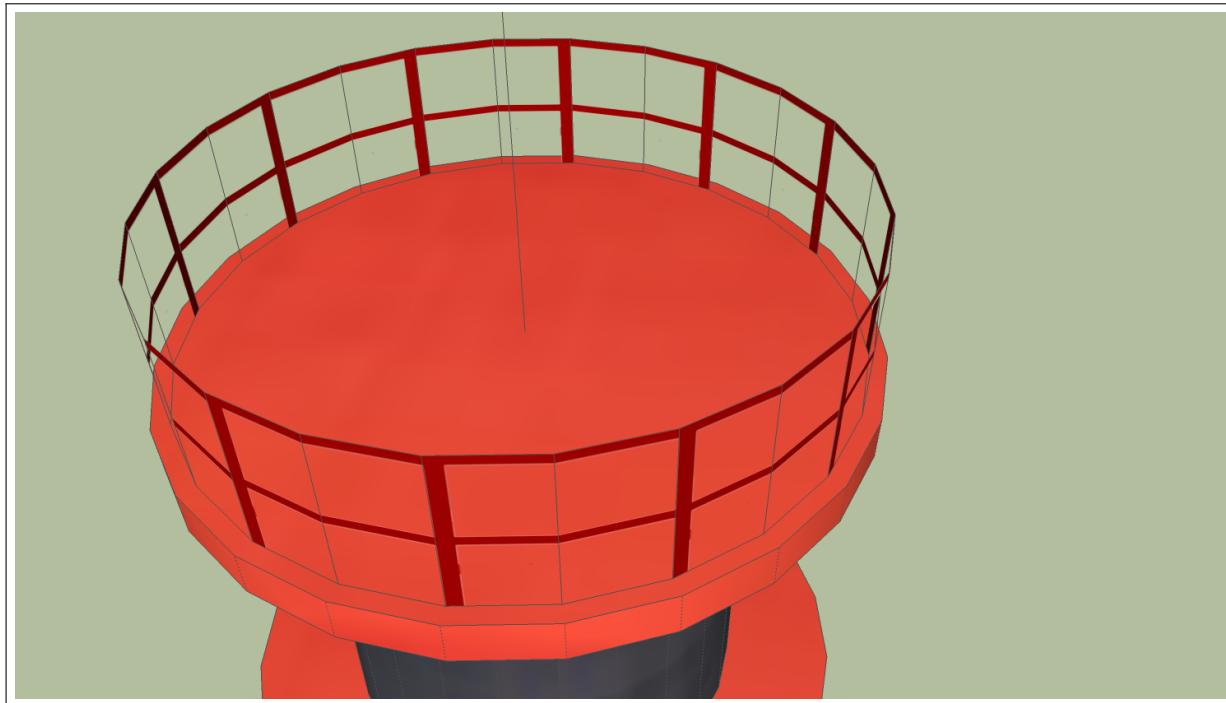
Step 16 – Result with textures correctly applied



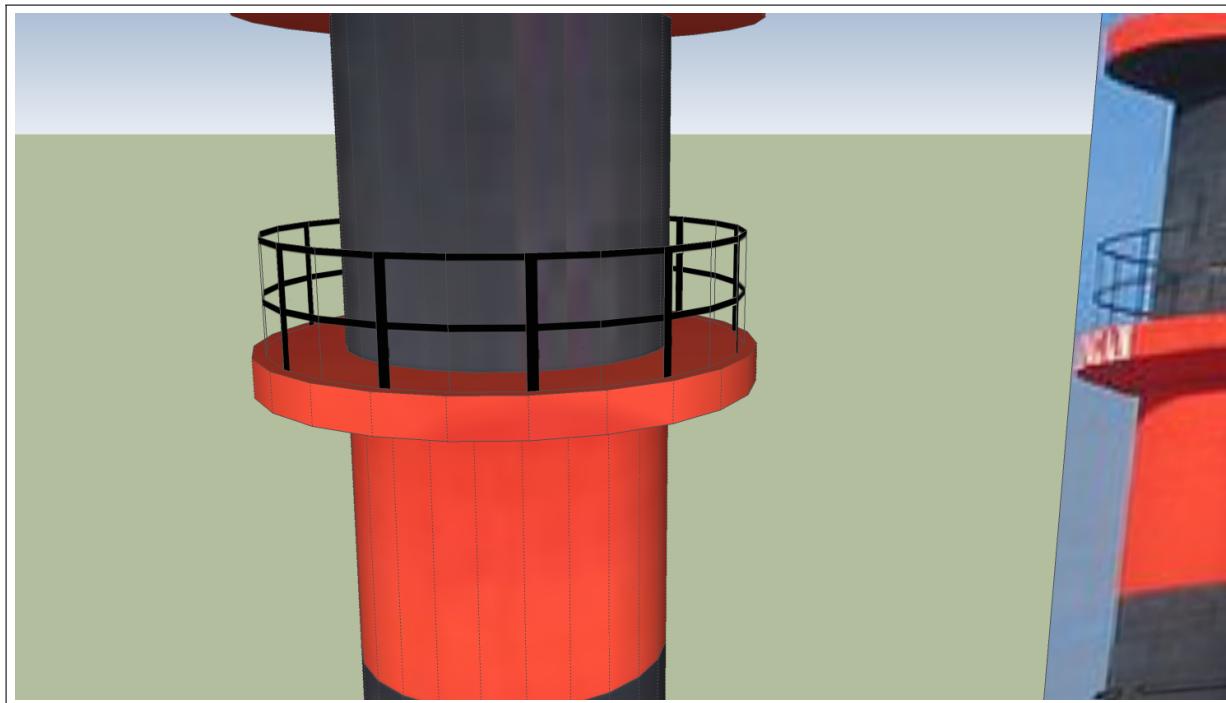
Step 17 – Positioning of a png texture with transparency for the rail-guard



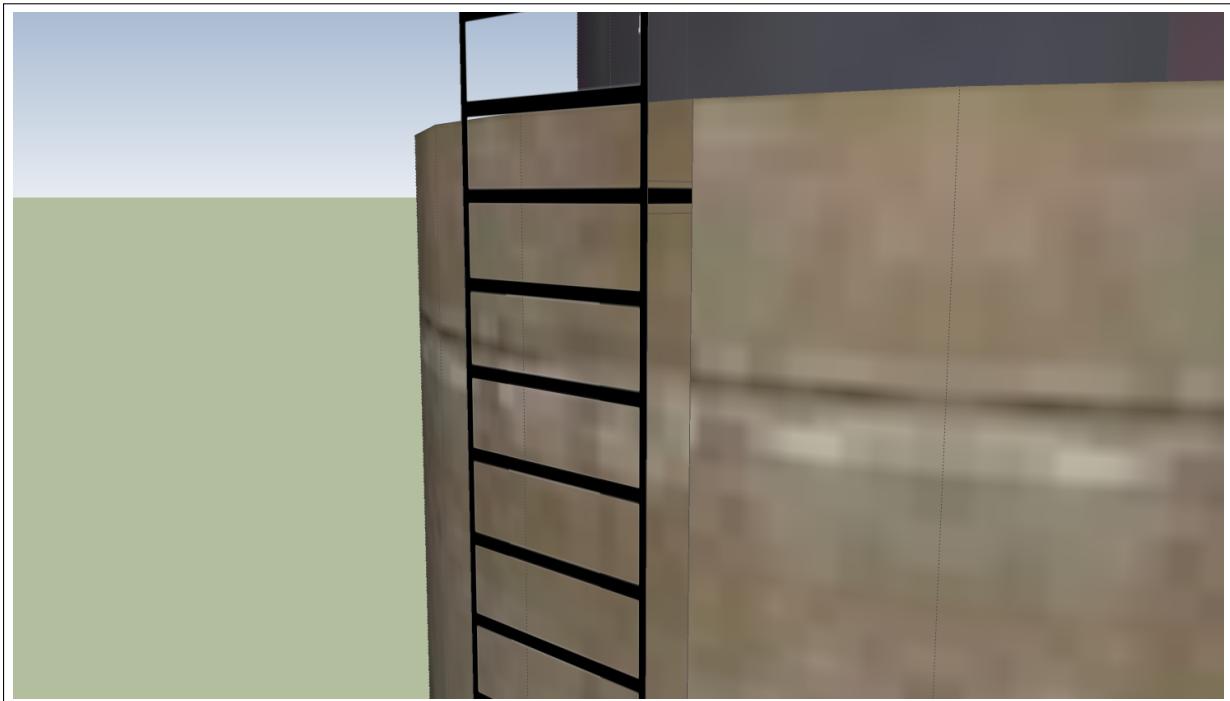
Step 18 – Making of a component for part of the rail-guard



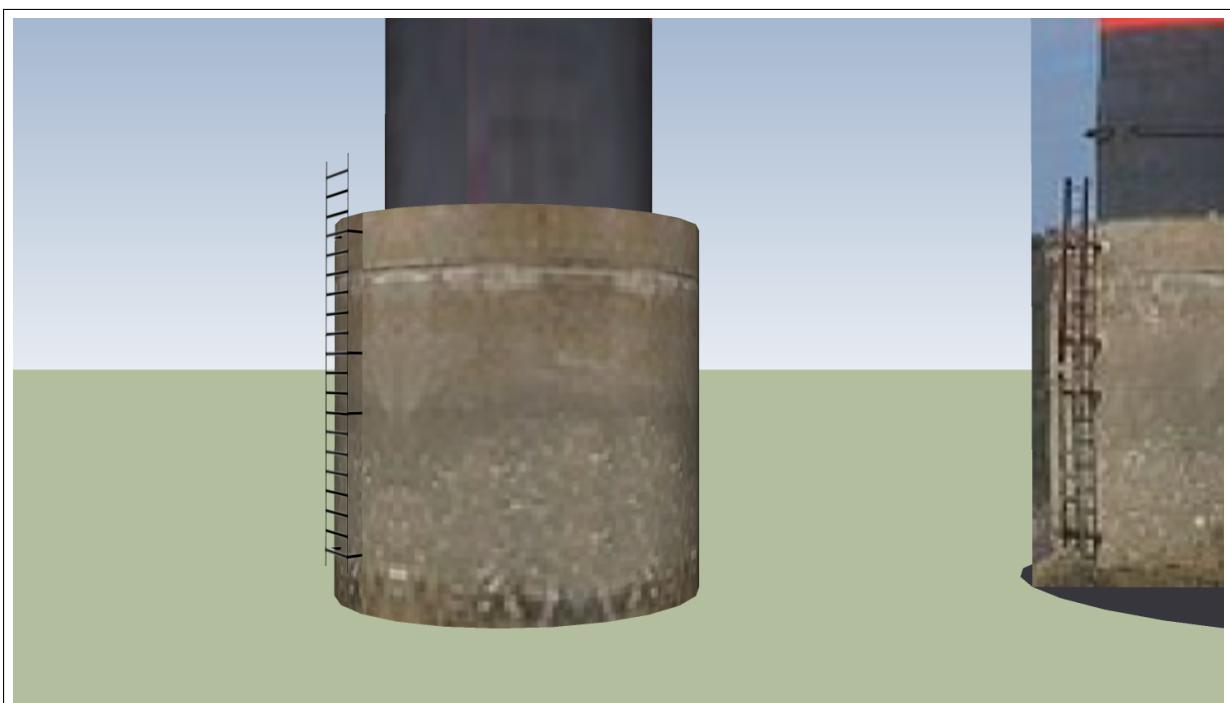
Step 19 – Duplication of the component



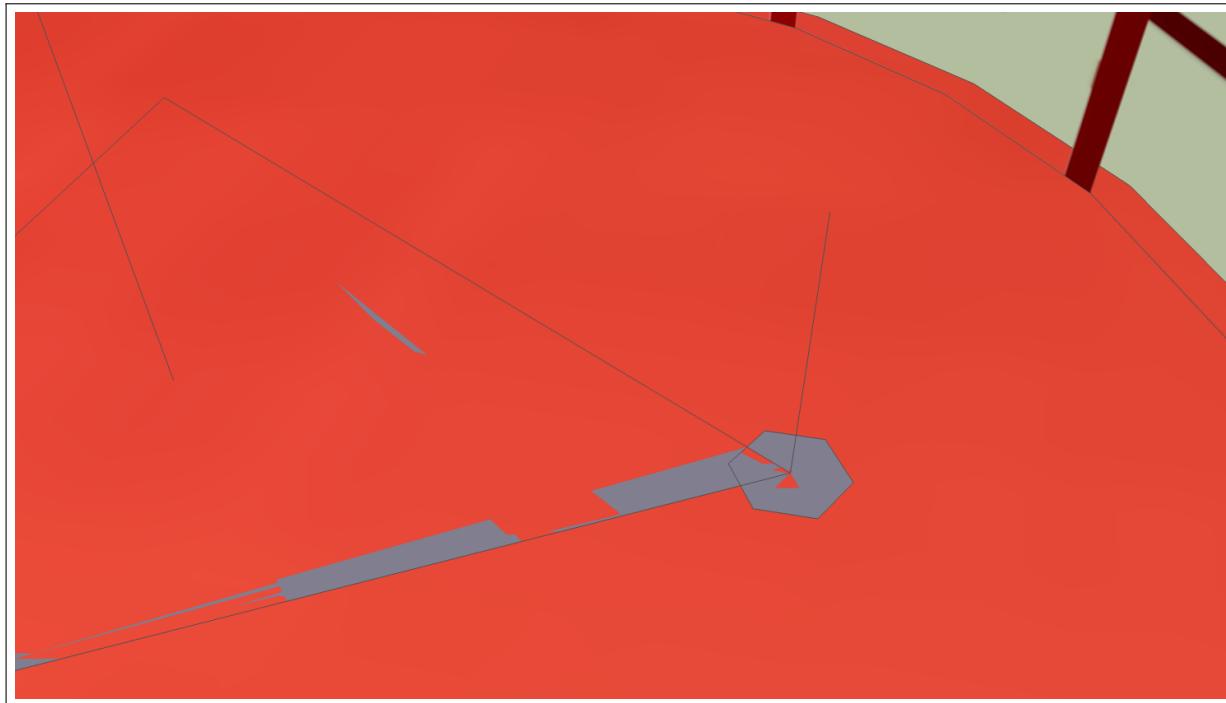
Step 20 – Same process for the black rail-guard



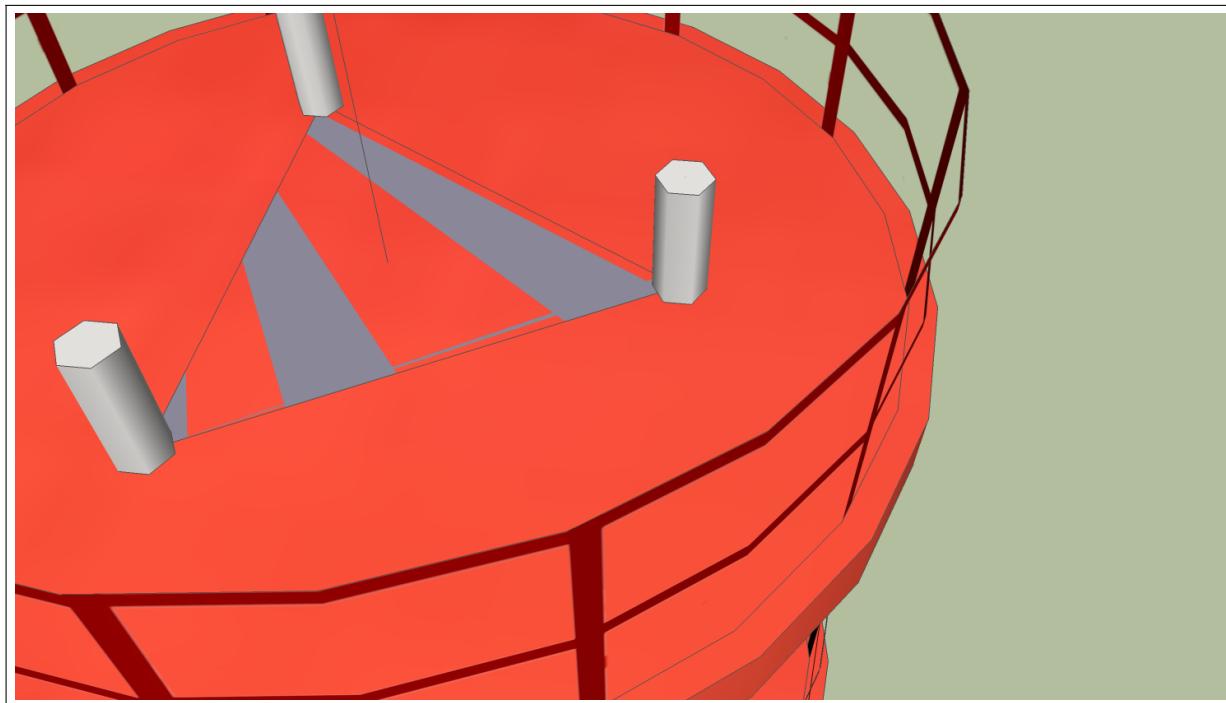
Step 21 - Drawing of the gangway (png texture for transparency on a planar surface)



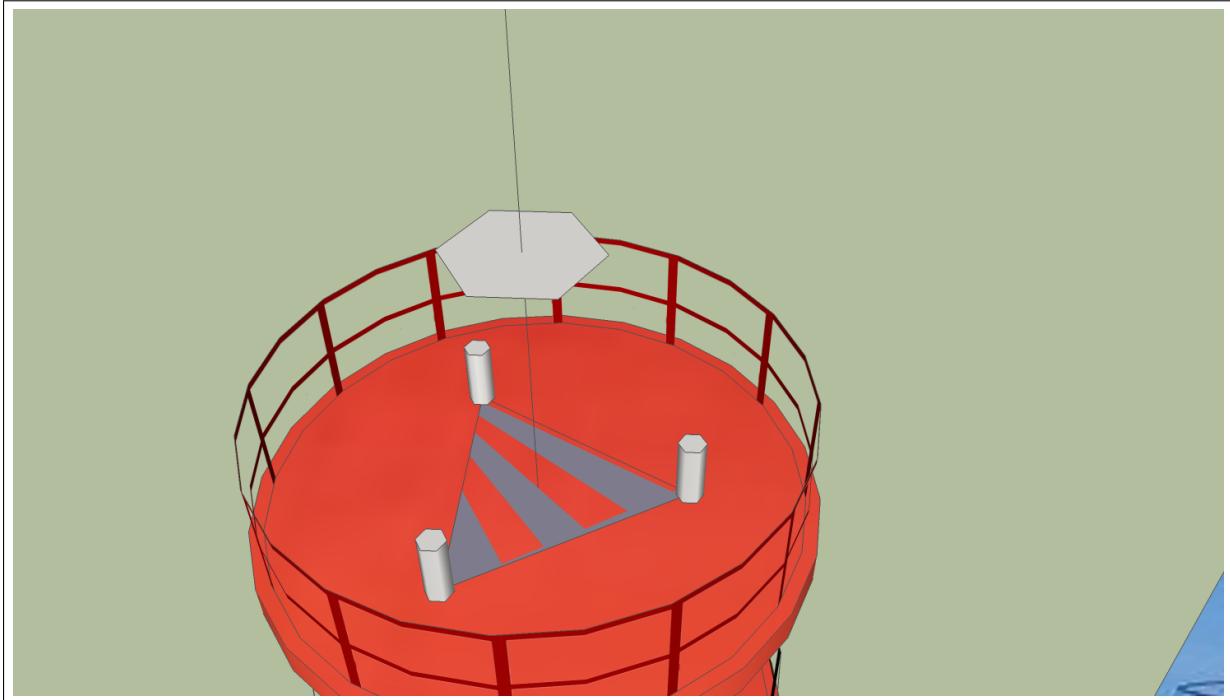
Step 22- Result



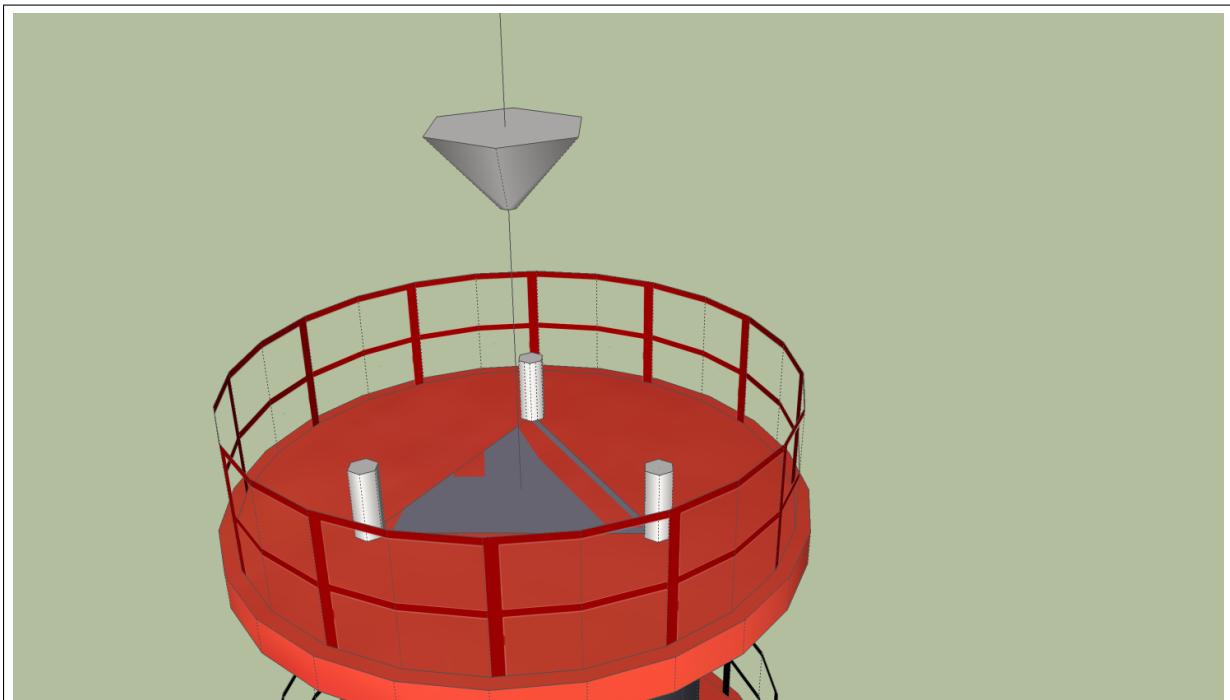
Step 23 – Drawing of the structure at the top of the beacon



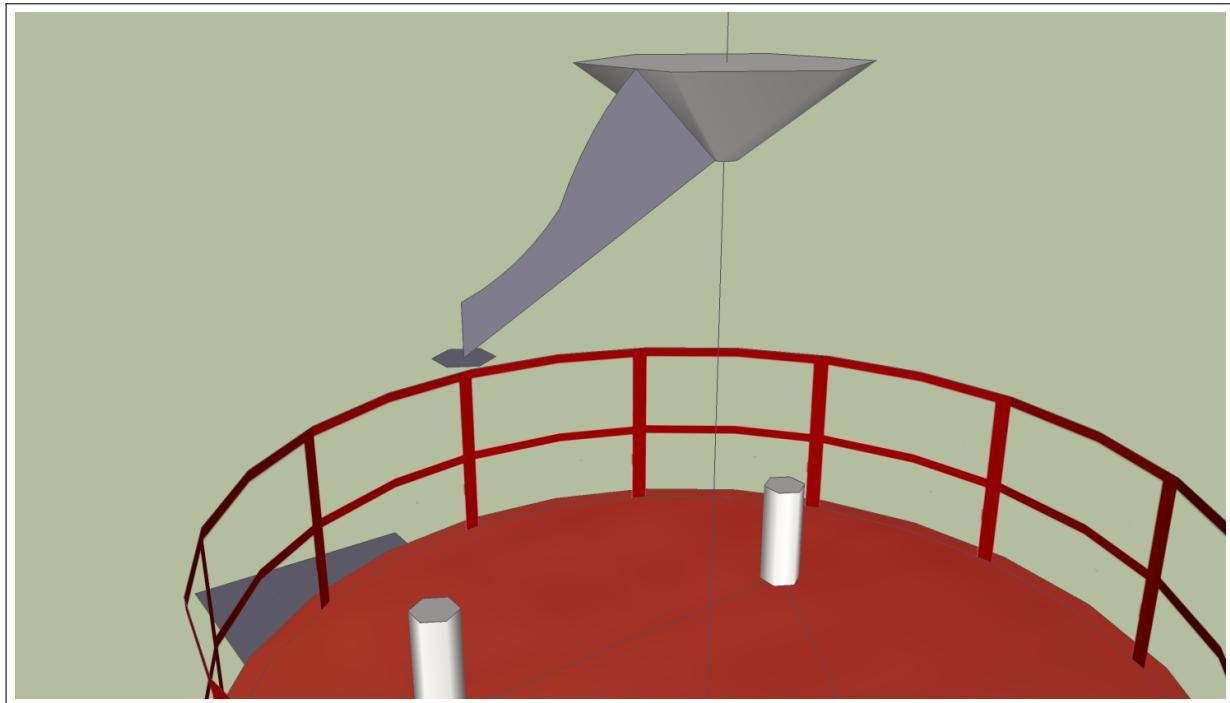
Step 24-



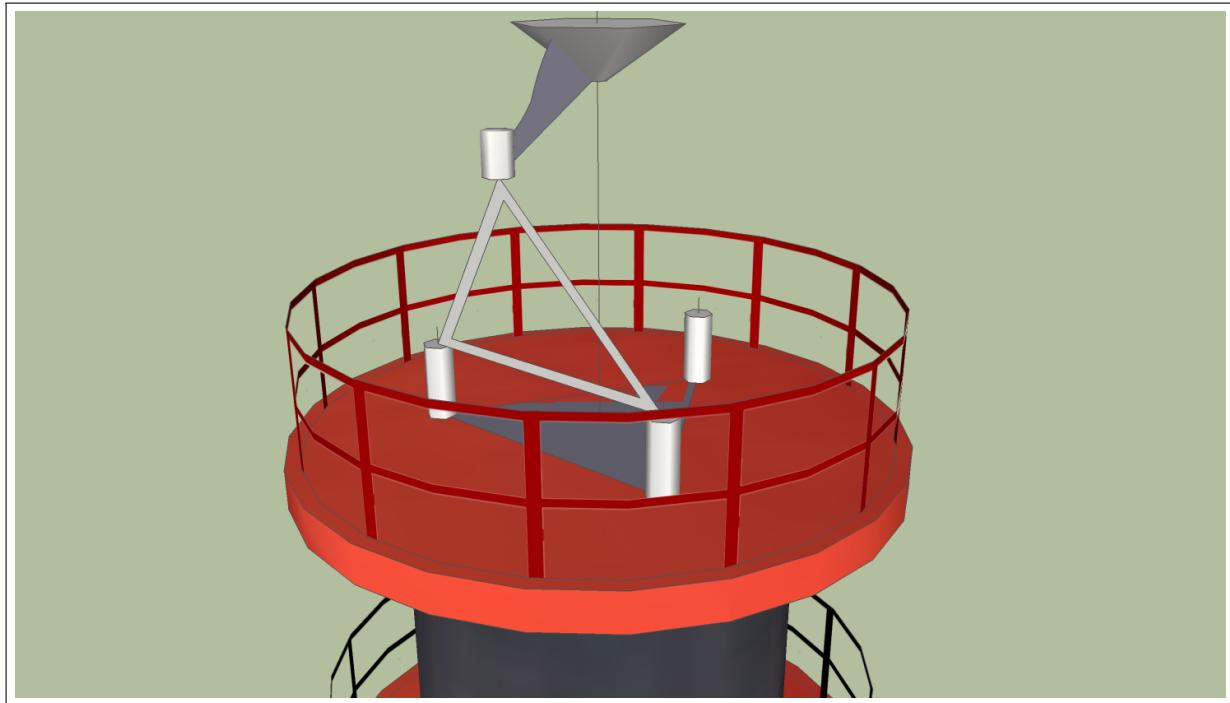
Step 25-



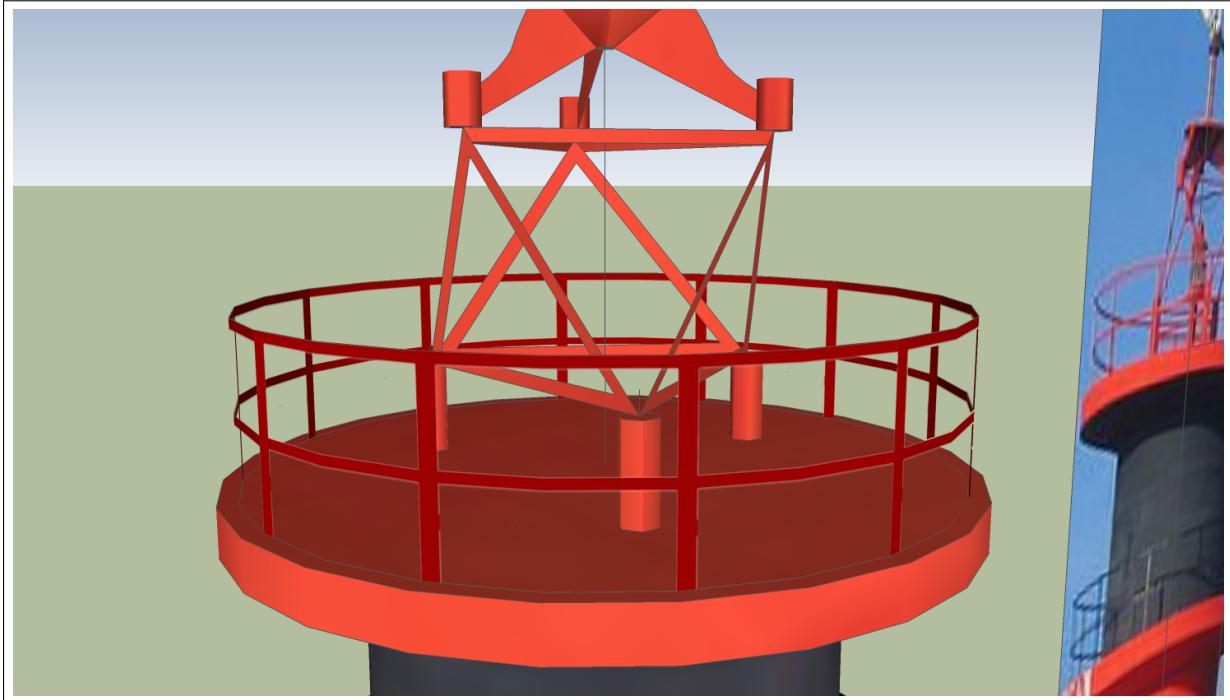
Step 26-



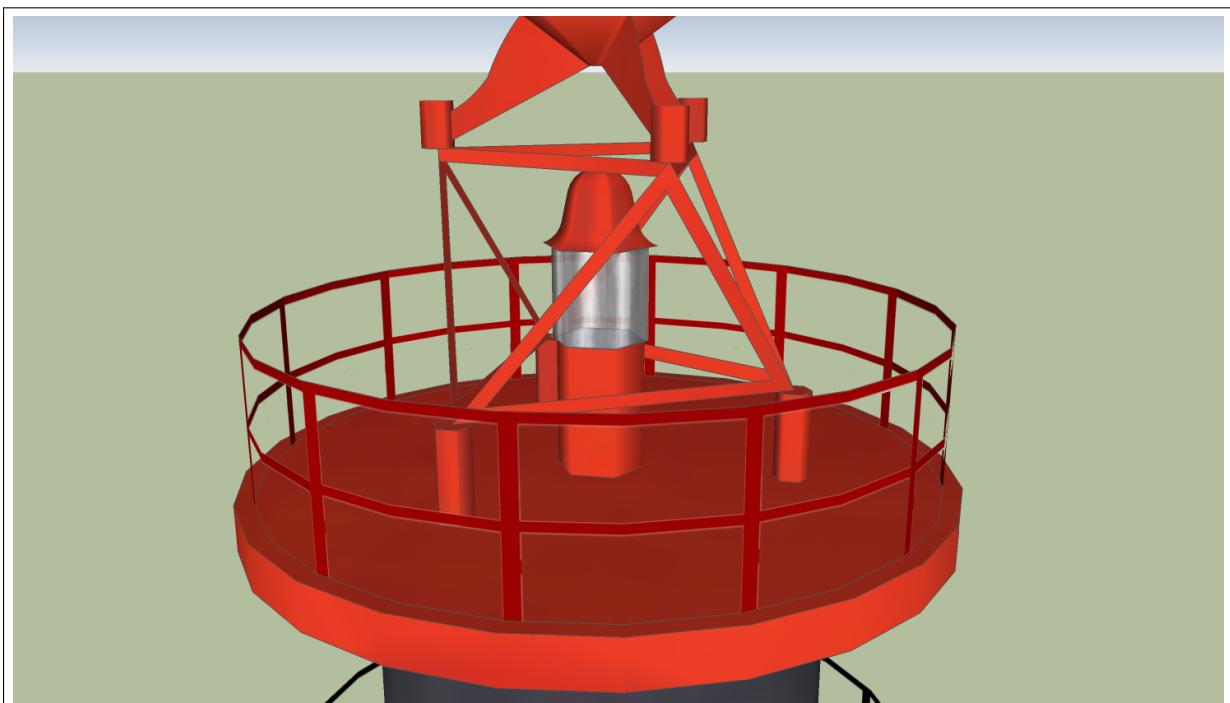
Step 27-



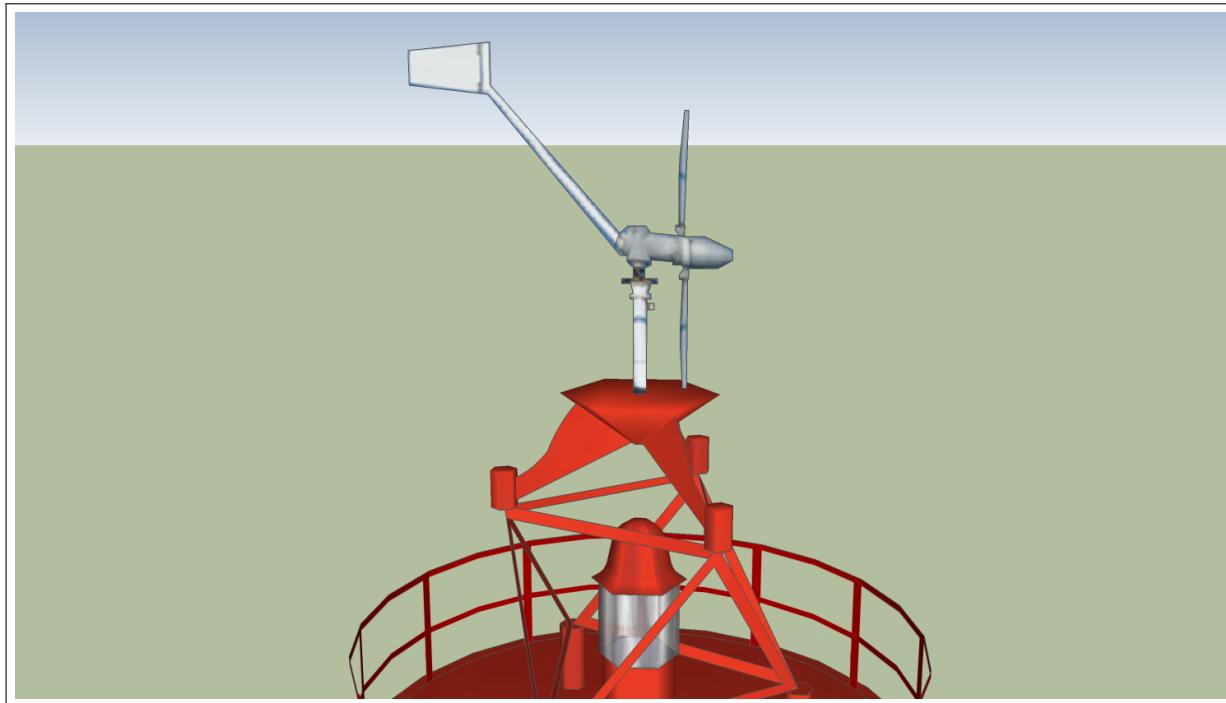
Step 28-



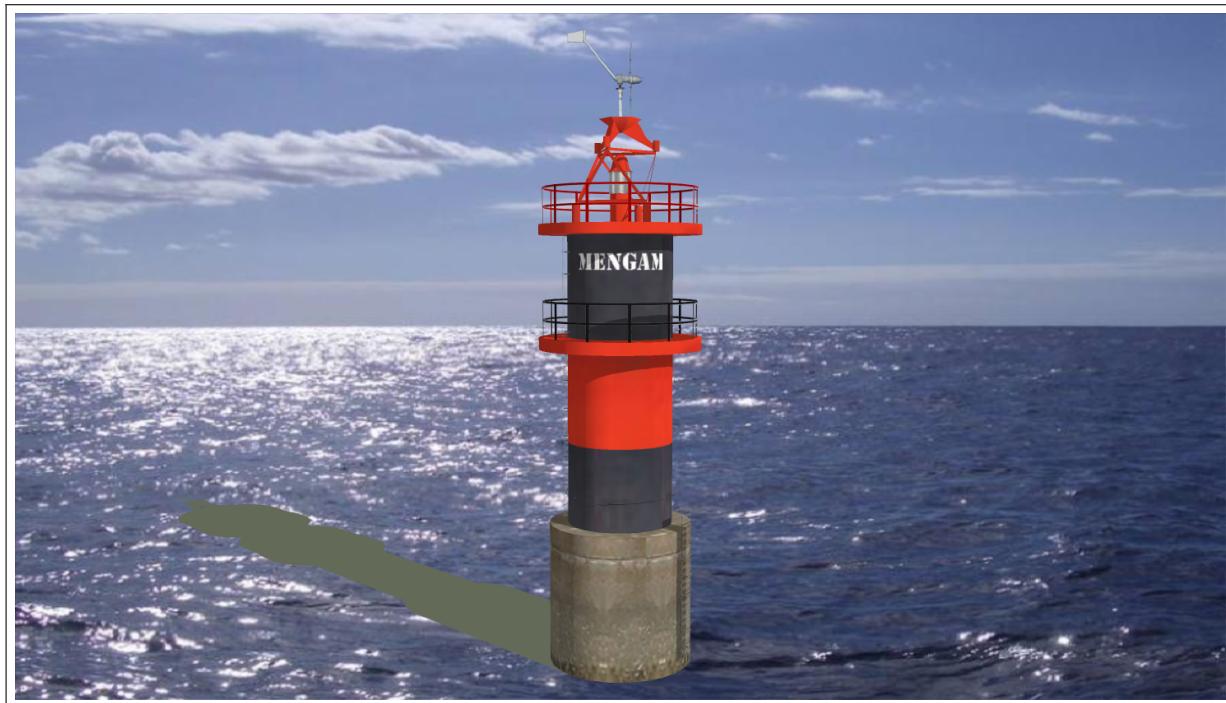
Step 29-



Step 30 - *Making of the lantern*



Step 31 – Drawing and painting of the wind turbine



Step 32 – Final result