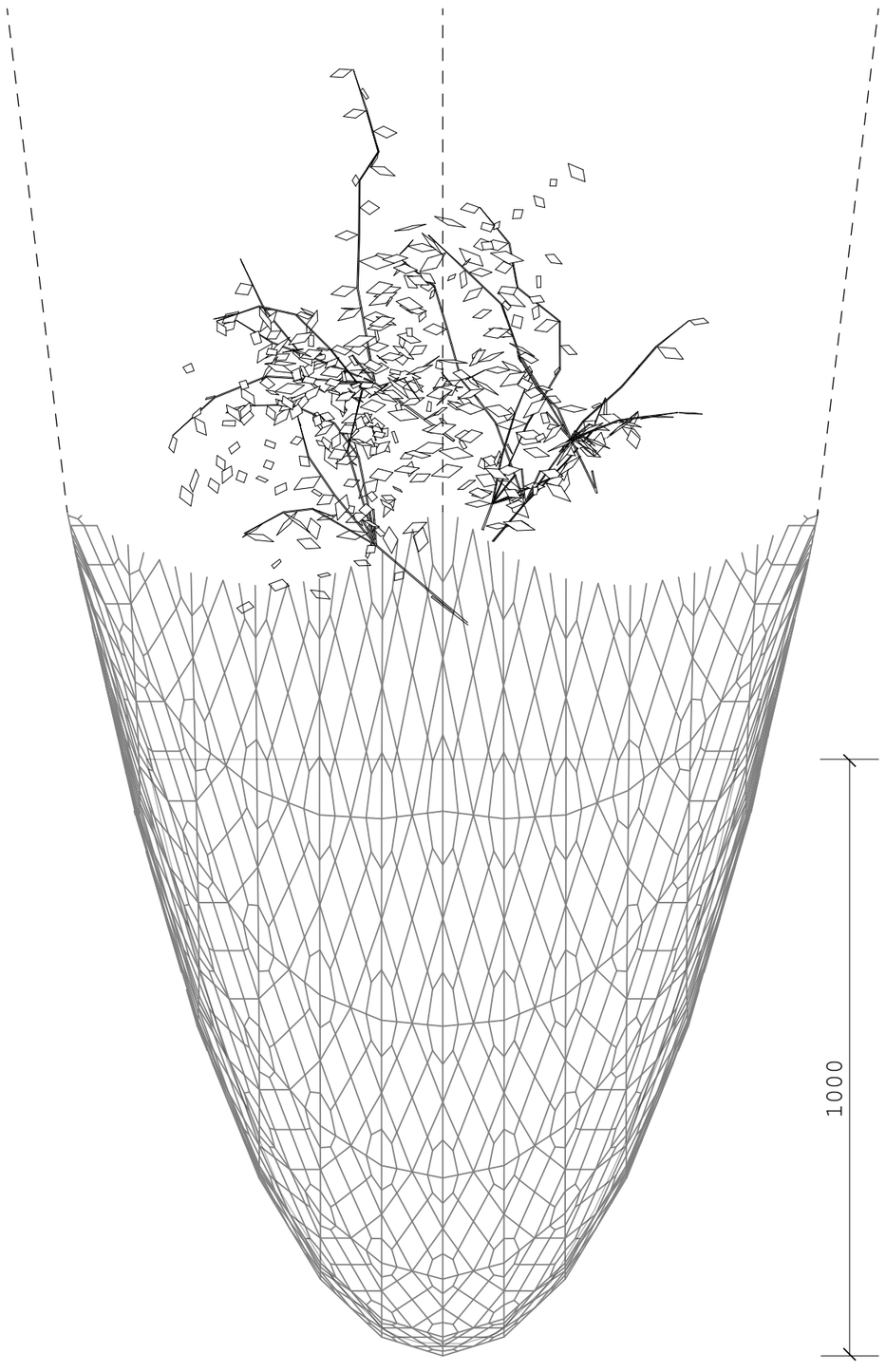
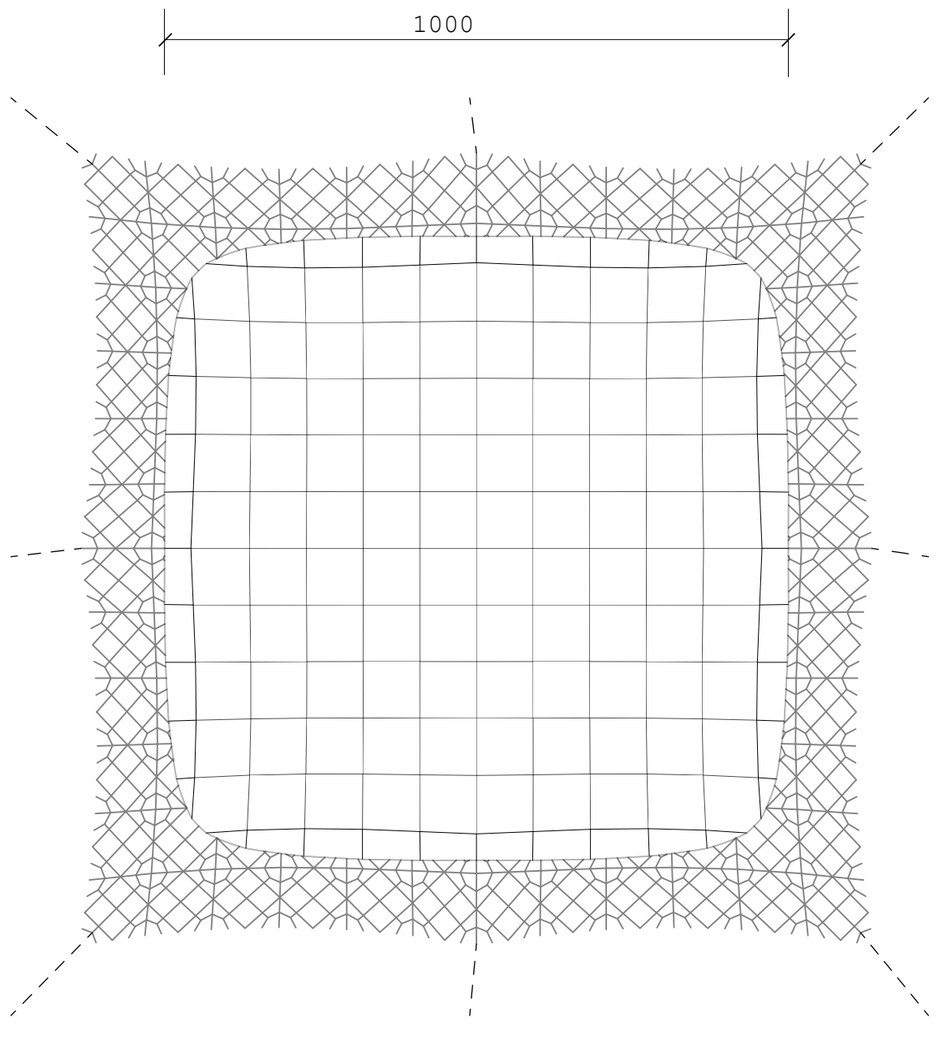
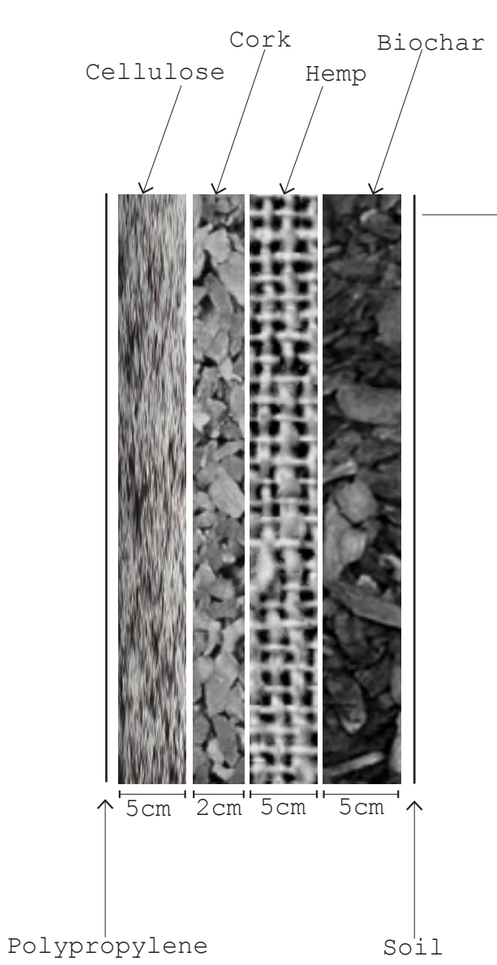


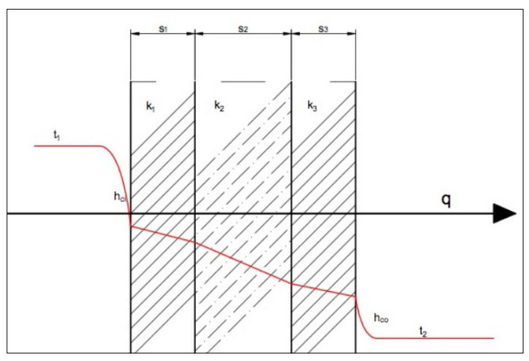
Elevation



Plan



Container layering



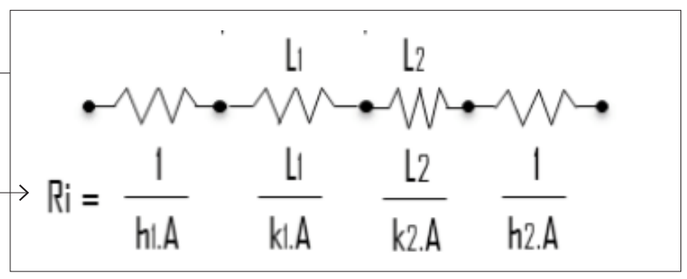
Q=4.33 W/m2

$$q = U\Delta T$$

where
q is the local heat flux density [W/m2]
U is the overall heat transfer coefficient [W.K/m2]

$$U = \frac{1}{1/h_1 + L_1/k_1 + L_2/k_2 + 1/h_2}$$

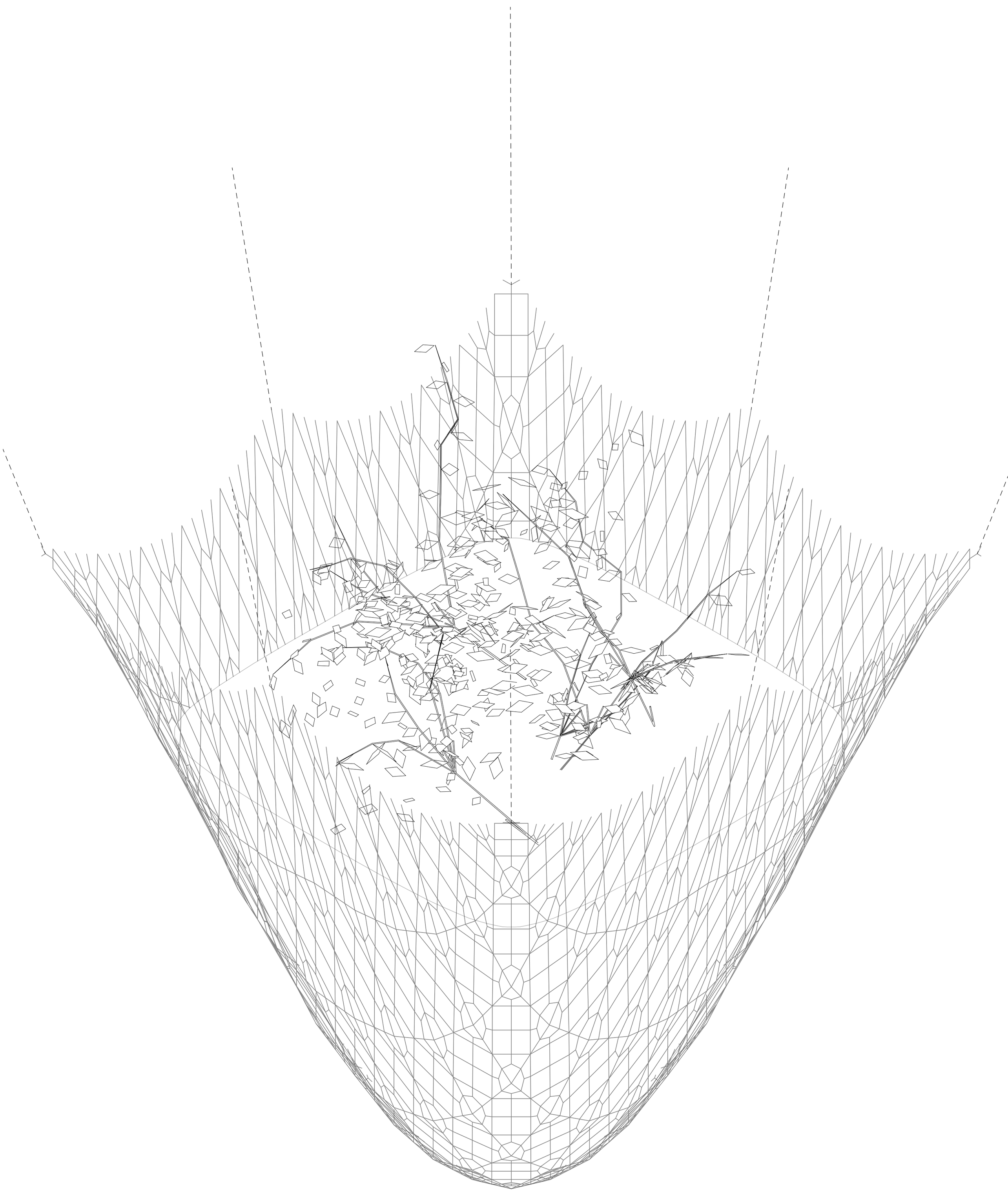
where
U is the overall heat transfer coefficient [W.K/m2]
K is the materials conductivity [W/m2.K]
h is the convection heat transfer coefficient [W/m2K]



K_{cel}=0.23 W/mK K_{cor}=0.39 W/mKK_{hem}=0.37 W/mK

K_{Bio}=0.135 W/mKh_1=4.46W/mK h2=30 W/m2

Heat flux Equation



Isometric View

Total soil contained 0.5 Sqm