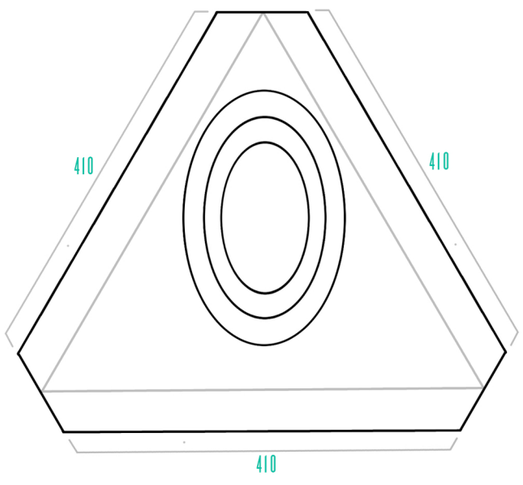
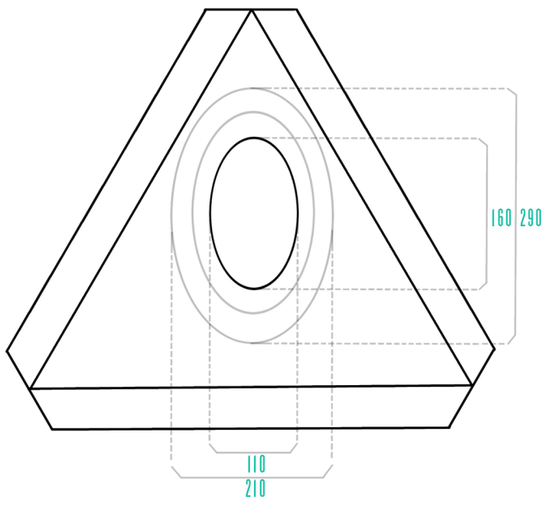
FINAL DESIGN

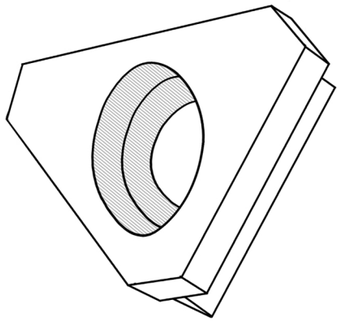
CONDUIT /’kɒnduɪt; -djuɪt/

The conduit acts as a safeguard to ensure that all the human waste is channelled into the body of the toilet.

The funnel is made of a smooth plastic sheet, which facilitates the flowing of liquids and semi-solids through gravity. The smooth plastic sheet is not of a porous material, hence seepage and stainage would not be a problem when one uses the toilet.







dimensions

LENGTH (OUTER HOLE) - 290MM
WIDTH (OUTER HOLE) - 210MM

LENGTH (INNER HOLE) - 160MM
WIDTH (INNER HOLE) - 110MM

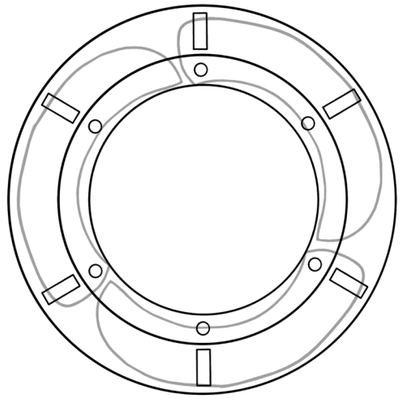
ESTIMATED COST : US$ 2.01

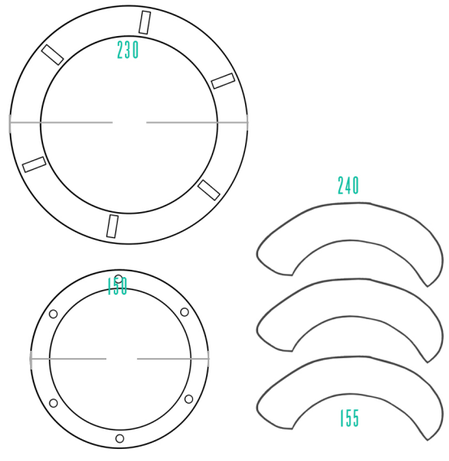
dimensions

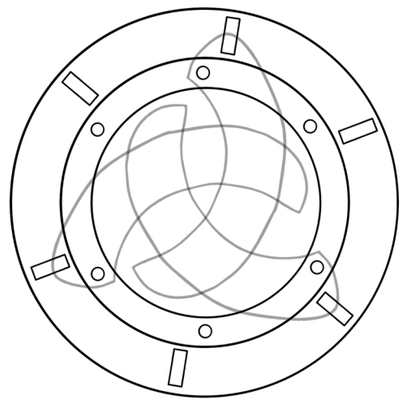
RINGS
Ø (INNER RING) - 150MM
Ø (OUTER RING) - 200MM
Ø (MOVABLE RING) - 230MM

BLADE
ARC LENGTH (OUTER CURVE) - 2π(115)/3 = 240MM
ARC LENGTH (INNER CURVE) - 2π(75)/3 = 155MM

ESTIMATED COST : US$ 0.21







APERTURE /’æpətʃə/

This three bladed mechanism ensures that the soiled waste storage bag remains sealed and the user only opens it when in use, preventing the transmission and propagation of viral diseases that currently plague the camp.

The aperture mechanism acts as a water-less flush system, reducing the need for any water as the waste is kept sealed in the confines of the impermeable waste bag.