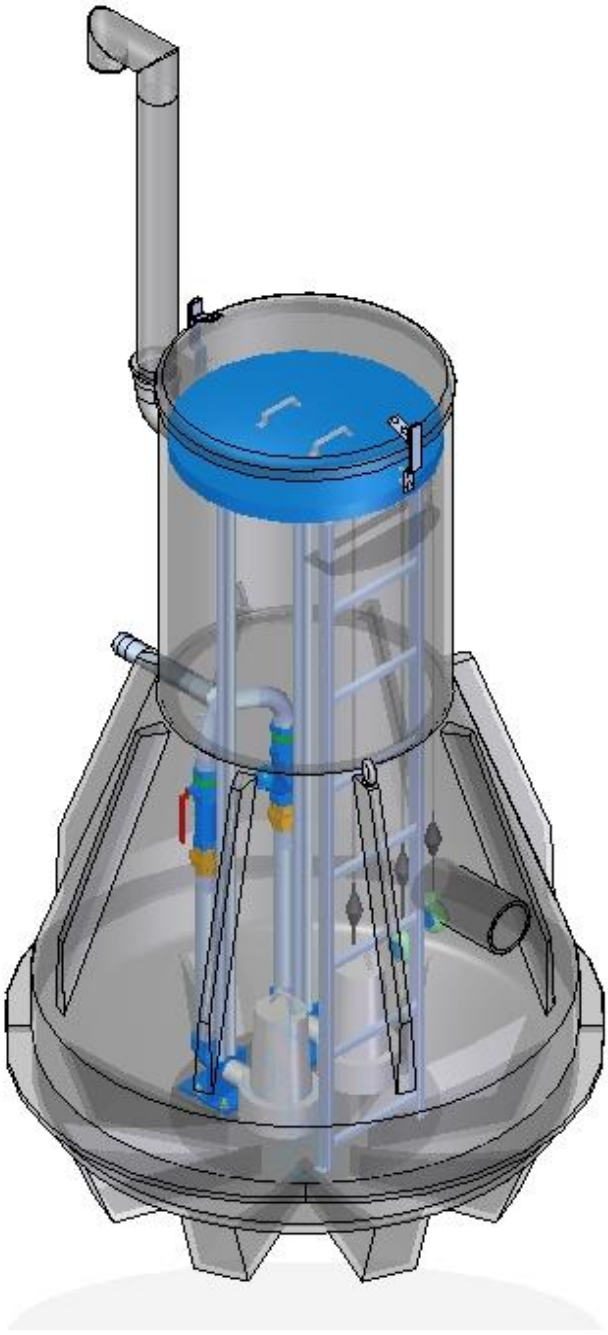

WARRANTY AND INSTALLATION MANUAL

For selfanchoring wells and pumping stations

Thank you for purchasing a product that is produced in Eccua, we believe that our product meets your highest expectations!

Eccua's self anchoring wells are produced according to European Union's standard EN 976-2.

WARRANTY

Products sold by Eccua have a warranty period of 24 moths. Eccua undertakes to bear elimination of failures under terms and conditions as follows:

- The failure is due to faults of construction or material of the products or incorrect treatment of material;
- ECCUA sales representative has been notified on the failure during the warranty period;
- The product has been used according to instructions of the present manual considering **installation and maintenance** and the product has been used only according to its intended purpose;
- Only the original ECCUA spare parts and accessories are used;

The warranty does not apply for failures that result from insufficient maintenance, improper installation, incorrect repairing or normal wear and tear.

GENERAL INFORMATION

Eccua's products are delivred fully assembled and ready to use, self andchoring pumping stations and wells are produced of plyethylene by rotational moulding.

INSTALLATION

Lifting the wells and pumping stations

For lifting the wells, use lifting straps by taking them trough special eyebolts on the station. Usage of steel cables and –chains for lifting the appliance is forbidden.

Requirements for installation means

Rubble, crushed stone or sand are suitable trench fillers. The material has to be clean, sorted, freely running and may not contain ice, snow, clay, organic substances or too large and/or heavy objects that may cause damage to the lifting station. The minimum volume weight of filling is 1500 kg/m3.

Rubble can run through a sieve of 2,4 mm openings in a quantity not higher than 3%. The material has to be round with the diameter of particles not smaller than 3 mm and larger than 20 mm.

The particles of *crushed stone* may not be of diameter under 3 mm and over 16 mm; the material can run through a sieve of 2,4 mm openings in a quantity not higher than 3%.

Sand has to be thoroughly sorted and the diameter of the largest particles cannot exceed 3 mm.

Filling

The lifting station is installed into a trench with the basis of which is evenly covered with sand in thickness of 300 mm. The surroundings of the well shall be padded with rubble, crushed stone or sand in layers of 300 mm thickness, thickening the each layer for up to 95% of the natural thickness of the soil. Thickening beneath the tubing and support must be done with extra caution to avoid any possible vacuities. Shovel sand manually between the ribs and supports. Use 50 mm x 100 mm wooden board for pressing down and thickening the sand. Upon high surface water or generally wet and complex ground (for instance, clay), use only rubble or crushed stone for back-filling. For keeping the lifting station steady during installation upon high surface water, the container must be filled with water. For avoiding the ground from freezing around the well, cellular plastic plates can be used for thermal isolation underneath the highest filling layer within 1 meter around the lifting station. The last filling layer is installed on the thermal isolation plates.

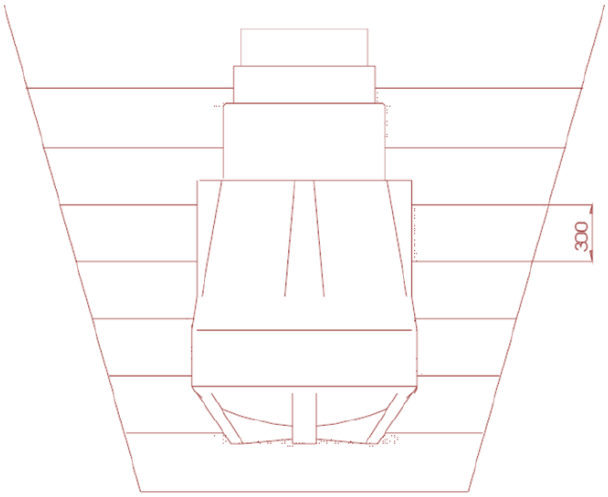

Figure 1: Thickening of the ground

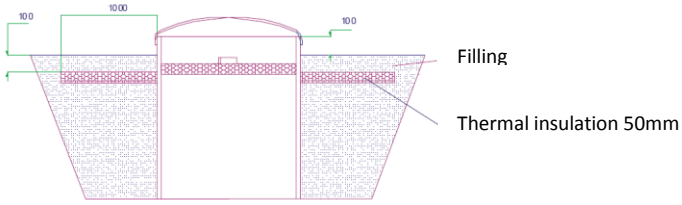

Figure 2: Installation to a Green Area

Installation to an area of high traffic

For avoiding the traffic load from carrying on to the well it must be ensured that the hatch will not rest on the edge of the service well. The floating cast iron hatch must be installed according to the installation instructions for the iron cast hatches. Reinforced concrete ring must be used to support the hatch. The ring is to be at least 300 mm from the edge of the well and rest on the layer of thickened filling layer.

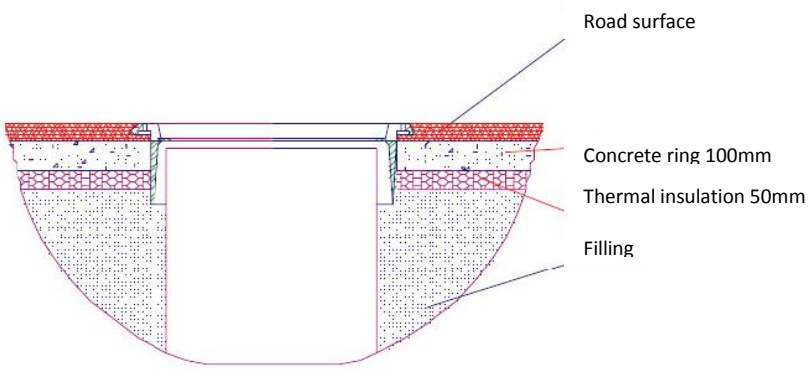

Figure 3: Installation to an Area of High Traffic

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