List of things to do before seaming and installation

1. Delivery and preparatory works before the installation of OILBOX, FATBOX, ECO-T, ECO-TR:

1.1. The tank shall be delivered to the site with factory mounted by Pipelife Bulgaria inlet and an outlet equipped with ready-to-use fitting connection for the feed pipe and for the outlet leading to the receptacle. The tank comes with inspection chambers placed in consideration of the field elevation and the position of feed pipe. The position and elevation of all inlets and outlets as well as the height of inspection chamber have been set in advance according to design specifications and have been coordinated and approved by the client.

1.2. Accessory equipment for OILBOX – ByPass boxes and coalescent filters shall be delivered to the site mounted and fixed to the tank. The equipment is ready to be connected to the sewerage system.

2. Storage

2.1. The tanks should be loaded and unloaded using suitable mechanical devices in order to avoid damages.

2.2. During handling operations the accessory equipment should be checked for damages and proper functioning.

2.3. The tanks should be placed on even surface, clear of any sharp objects.

2.4. Tanks should be kept away from direct sunlight in order to prevent deformation caused by overheating.

3. Installation

3.1. An pit should be excavated with dimensions and elevation as specified in the design drawings. To facilitate the installation and ensure the connection of piping system, there should be 50 cm spacing between the walls of excavated pit and the tanks.

3.2. After the excavation pit is ready, its bottom should be compacted by providing a 10 cm thick sand cushion, followed by the pouring of 10 cm concrete padding made of concrete B15.

3.3. Reinforced concrete slab with bottom gridded reinforcement should be poured on the concrete padding according to a separate engineering design.

3.4. Prior to pouring the concrete mixture, the hooks which serve to hang the polyester belts holding the tanks must be positioned. The location for placement of the hooks is shown in the installation layout applicable for the respective situation and type of treatment plant. The hooks should be made of steel AIII N14. The tank positioning may be proceeded with after the concrete padding is ready and has attained the required strength.

3.5. The tank should be inspected for factory defects or cracks caused during its storage and transportation.

3.6. After completing the inspection, the tank may be positioned inside the excavated pit. The tank should be lowered in the pit by using a crane, hoisting equipment or ropes. Tanks should be lowered slowly and carefully to avoid damages. When clutching the tanks, if it is lowered using a crane, one must take into account the center of gravity in order to prevent possible slippage or smashing of tanks.

3.7. After the tank is positioned inside the pit on the padding, the bottom of the tank should be carefully fixed and tightened with sand and ballast with grain size ranging from 4 mm to 16 mm.

3.8. Special attention should be paid to the stamping of sand in the area beneath the center of the tank and also around the sidewalls but most of all in the area under the tanks. Make sure that there are no sharp objects near the tank that could damage it.

3.9. During the installation process, the tank should always be filled with water to a certain level i.e. the water level during installation should correspond all the time to the height of compacted backfill. The purpose of this requirement is to ensure stable and correct positioning of the tank.

4. Seaming and installation

4.1. When the plant is designed to include only one tank or two tanks, the installer must perform the connection between the tanks in accordance with the designer's instructions.

4.2. When the plant is designed to include more than two tanks, the seaming and installation works must be performed by a Pipelife authorized technician. In this case the backfill surrounding the tanks must reach the medium line of the tank with the purpose to lay down piping assembly between the tanks.

4.3. Proceed to backfilling and compacting up to the field level in compliance with the requirements specified in the design drawings.