

Manufacturer:
JSC "AUGUST IR KO"
Juodasis kelias 104 A,
LT-11307 Vilnius, Lithuania

Nr. *19437-8*



Place of production:
Juodasis kelias 104 A,
LT-11307 Vilnius, Lithuania

Herein it is declared, that the product - **Wastewater treatment plants AT 6÷50, -are in compliance with European Union Construction products Directive** No. 89/106/EEC, and Annex ZA of CEN standart EN 12566-3:2005+A2:2013 „Small wastewater treatment systems for up to 50 PT Part 3: Packaged and/or site assembled domestic wastewater treatment plants. Essential conditions are that wastewater treatment plants AT 6÷50 should be installed in accordance with specifications of "Technical certificate of AT, JSC "August ir Ko", March 2006".

Also, the above **Wastewater treatment plants AT 6÷50 are in compliance with European Union Directives** No. 73/23/EEC and No. 89/336/EEC.

Within initial type tests the following results was verified:

Performance characteristic	Declared value or class	Name of laboratory/body and testing protocol number
Effectiveness of tretment	BOD ₅ * - 98,2 % COD - 94,4 % SS - 97,2 % NH ₄ -N - 99,5 % N _{total} * - 93,2 % P _{total} * - 93,3 %	Prüfberichts – No. PIA 2014-215B38 ¹
Treatment capacity (nominal size)	Conformed	Daily hidraulic load, May 2007 Nr. 0705-1 ²
Watertightness	Suitable	Testing protokol No. 60-07-0499 ³
Crushing resistance	Suitable	Testing protokol No. 60-07-0099 ⁴
Material	Polypropylene	PIA 2015-RF-1506-1035.01 ¹
Reaction to fire	E	
Dangerous substance	NPD	

* These and other results are fully satisfied Lithuanian wastewater emission norms and requirements. Names and addresses of testing laboratories/bodies:

1. **Prüfinstitut für Abwassertechnik GmbH, NB 1739 Hergenerather Weg 30, 52074 Aachen, Germany**
2. **JSC „August ir Ko“, Juodasis kelias 104A, LT-11307 Vilnius, Lithuania**
3. **TSÚS, n.o., NB 1301, Studená 3, 826 34 Bratislava, Slovakia**
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Description of the product: All wastewater treatment process is being performed in one single radial polypropylene content. At first, wastewater flows into non-aerated zone, where mechanical pretreatment takes place. The non-aerated zone is divided by several internal dividing walls, where internal circulation is established. Further, using gravity, the wastewater flows into anaerobic fermentation zone, mingles with activated sludge and flows into denitrification zone, where proceeds denitrification processes. From the denitrification zone wastewater overflows into aeration zone. The compressed air through single-bubble aeration elements is impressed into aeration zone and into airlifts for circulation and re-circulation of the activation mixture. In the aeration zone proceed wastewater oxidation and nitrification processes. Further, the mixture of activated sludge flows into bottom of sedimentation section, where activated sludge by airlift is recycled into denitrification (non-aeration) or nitrification (aeration) zone of plant and cleaned water is drained in to water reservoir or other recipient. In the sedimentation section there is a flow restrictor which allows safely to drain peak of water flows and protects overloading of the plant.

The AT domestic wastewater treatment plants are designed for wastewater treatment from households, factories, offices and buildings which are located in places where is missing the public (municipal) sewage network, or building of such a network would be technically or financially complicated.

