


REGULATIONS AND STANDARDS – Water Treatment Equipment



This table lists the most relevant regulations and standards which are directly applicable to water treatment equipment and their installation in Europe.

| COUNTRY | Regulation/Standard | Certification Mandatory Yes/No | Government Agency Approved Certification Bodies | Notes |
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| AUSTRIA | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>- ÖNORM B 5014/Tiel1 – Organic Materials</p> <p>- CEN Member: See CEN Standards -</p> | No | <p>ÖVGW - Österreichische Vereinigung für das Gas- und Wasserfach www.ovgw.at</p> <div style="text-align: center;">  </div> | <p>Materials in contact with foodstuffs must be registered in the Austrian Positive List and comply with KTW Recommendations (see Germany). Testing requirements are similar to those in Germany except they do not include microbiological testing.</p> <p>Reciprocal recognition of test results has been agreed between Austria, Germany, Switzerland and The Netherlands.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| BELGIUM | <p>Regulations:</p> <p>- Drinking water regulations Inistere de la Region Wallone 12 Decembre 2002</p> <p>Royal Decree of 24/11/1997 Protection of consumer health regarding materials in contact with foodstuffs.</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN</p> | No | <p>BELGAQUA: Belgian Federation for the Water Sector www.belgaqua.be</p> <p>Testing University of Ghent www.becetel.be</p> | <p>Certification for materials suitability is voluntary. Plastic materials are checked against a “Positive List” in the Royal Decree and tested in accordance with NBN S 29 for general hygiene, migration and microbial growth.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |

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| | <i>Standards -</i> | | | |
| BULGARIA | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | | | <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| CYPRUS | <p>Regulations:</p> <p>- Law of 2001 for the quality of water for human consumption (observation and control) NO 87(I)2001</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | No | <p>Water Development Department of the Ministry of Agriculture, Natural Resources and Environment</p> <p>www.pio.gov.cy/wdd</p> | <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| CZECH REPUBLIC | <p>Regulations:</p> <p>- Drinking Water Quality Regulations No 374/2000 Sb.</p> <p>- Decree 409/2005 Regulations on hygienic requirements for products for use in direct contact with water and in water treatment</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | Yes | <p>Ministry of Health</p> <p>www.mzcr.cz</p> <p>- Czech National Standards (CNS)</p> <p>- Institute for Testing and Certification (ITC)- concerns with testing, certification, supervision, inspection and consultancy services.</p> | <p>The Regulations stipulate the information required for materials approval and include a Positive list of approved materials</p> <p>Registration Dossier (a technical file for the product being submitted for registration), Product Samples, Literature Required.</p> <p>The Registration Dossier will include:</p> <ol style="list-style-type: none"> 1. Certificate of free sale (document attesting to the fact that the product being submitted and can be freely sold in the country or origin). 2. Product Drawing 3. Parts Listing 4. Product Literature 5. Claims Documentation 6. 3rd party Certification - (where appropriate) 7. Manufacturer's/3rd party test report - performance/material safety/structural/etc. <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under</i></p> |

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| | | | | <p><i>EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| DENMARK | <p>Regulations:</p> <p>- Danish Code of Practice for Domestic Water-Supply Installations ("Norm for vandinstallationer"), DS 439</p> <p>- <i>See EU Regulation and Directives</i></p> <p>Standards:</p> <p><i>CEN Member: See CEN Standards -</i></p> | | <p>Ministry of Health/CDC</p> <p>Approval body</p> <p>- ETA-Danmark A/S www.etadanmark.dk</p> <p>Assessment</p> <p>Danish Toxicology Centre (DTC) www.dtc.dk</p> <p>Testing</p> <p>Technology Institute (TI)</p> <p>Force Institute (Dantest)</p> | <p>Products for water-supply and in “buildings and their surroundings” are approved by the ETA-DK and covered by the VA approval scheme. The VA approval checks materials against a positive list and assesses structural, hygienic and toxicological requirements, for appliances on connection to water supply installations.</p> <p>Filters, including appliances and filters for mounting in connection with the individual water outlets, are generally not approved for drinking water due to the risk of bacterial growth. Water softening plants and filters with active carbon can, however, be approved for mounting in connection with appliances for hot drinks such as coffee and tea machines on certain conditions, i.e. that the water has been heated to at least 90 degrees Celsius prior to tapping. Furthermore, certain types of filters can be approved for mounting in connection with appliances for drinks, where documentation can be submitted which substantiates that the filter does not change the composition of the water negatively. This means that the water shall continue to fulfil the requirements for drinking water specified by DEPA. DEPA makes the assessments of such filters.</p> <p>Denmark participates in the Nordic Committee on Building Regulations – NKB for the national building authorities in Denmark, Finland, Iceland, Norway and Sweden.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to</i></p> |


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| | | | | adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration. |
| ESTONIA | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | | <p>Ministry of Social Affairs - Tervisekaitseinspeksioon - National Health Protection Inspectorate www.terviskaitse.ee</p> <p>Keemia Kesklabor – Central Laboratory of Chemistry www.treinet.ee</p> | <p>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</p> <p>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</p> |
| FINLAND | <p>Regulations:</p> <p>- Decree relating to the quality and monitoring of water intended for human consumption. 2000</p> <p>- Building Code of FinlandD1: Water supply and drainage installations for buildings. Regulations and recommendations 1987.</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | No | <p>Ministry of Environment www.vyh.fi</p> <p>- Technical Research Centre of Finland – VTT www.vtt.fi</p> <p>- Inspecta Research Centre www.inspecta.fi</p> | <p>The Ministry of Environment issues Type Approvals for products tested by approved laboratories. Testing included structural stability and suitability for contact with drinking water.</p> <p>Finland participates in the Nordic Committee on Building Regulations – NKB for the national building authorities in Denmark, Finland, Iceland, Norway and Sweden. Productst should comply with the NKB rules – see Denmark.</p> <p>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</p> <p>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</p> |
| FRANCE | <p>Regulations:</p> <p>Circulaire 2002/571 - Health compliance of materials used in accessories in contact with water for human consumption, ACS - Attestation de Conformité Sanitaire</p> <p>- Drinking water regulations Code de la Santé Publique, 2003</p> | Yes | <p>1. Association Francaise de Normalization (AFAQ AFNOR) Certification is the first French certification body to be awarded COFRAC (French Accreditation Committee) accreditation</p> <p>2. CSTB (Center Scientific and Technical Building) www.cstb.fr</p> | <p>The ACS is the water contact safety standard in France, and registration is mandatory for all products and equipment that come in contact with drinking water. This includes plumbing fittings and products such as pipes, valves, faucets, pumps and storage/pressure tanks. Organic materials are checked against a “Positive List” and tested in accordance with XP P 41 250 for organoleptic, general migration and cytotoxic parameters. Metals are assessed on composition.</p> <p>The French regulation only applies for new</p> |

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| | <p>- See EU Regulation and Directives</p> <p>Standards:</p> <ul style="list-style-type: none"> - NF T 54-951- Plastics Piping Systems for Drinking Water Supply - NF P41-650- Water Treatment Devices - Water Filter Jug - T 90-601- Water Treatment-Ion Exchange Resins. <p>- CEN Member: See CEN Standards</p> | | <p>ACS certificates are issued by 4 approved laboratories:</p> <ul style="list-style-type: none"> - CRECEP (Paris) www.crecep.fr - Institut Pasteur (Lille) www.pasteur-lille.fr - IRH Environment (Nancy) www.groupenvironnement.com - CARSO-LSEHL (Lyon) www.groupcarso.com  | <p>installations or for renovations. Manufacturers must obtain the ACS on their products. Operators must install products with ACS.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| <p>GERMANY</p> | <p>Regulations:</p> <ul style="list-style-type: none"> - Drinking water regulations Trinkwasserverordnung, TrinkwV 2001 - Lebensmittel- und Futtermittel Gesetzbuch (LFGB) (Foodstuff and Feedingstuff act) <p>Bedarfsgegenstaendeverordnung (BedGgstV) (Appliances in contact with food ordinance)</p> <p>- See EU Regulation and Directives</p> | <p>No There is no statutory regulation that products must be tested and approved – but the buyers and users expect products to be certified. Certification to DIN standards is accepted as a defence in a court of law – and selling a</p> | <p>Deutsche Vereinigung des Gas- und Wasserfaches Cert- DVGW CERT GmbH (Certified Bodies for water industry)/European Notified Bodies www.dvgw.de</p>  | <p>For registration under DVGW or DIN/DVGW marks for drinking-water applications, products must comply with KTW (Kunststoff Trinkwasser Empfehlungen) recommendations. All non-metallic substances used in a product must be listed in the KTW “Positive list”. Testing for organoleptic, migration, TOC and chlorine demand are carried out by DVGW authorised laboratories and for microbial growth in accordance with W270.</p> <p>Reciprocal recognition of these test results has been agreed between Austria, Germany, Switzerland and The Netherlands.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives.</i></p> |

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| | <p>Standards:</p> <ul style="list-style-type: none"> - KTW Guideline for Sanitary Assessment of Organic Materials in Contact with Drinking Water - DVGW-W270 Microbial growth on materials in contact with drinking water - DIN 50930-6 for metallic materials - CEN Member: See CEN Standards | product in Germany is almost impossible without certification. | | <p>Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</p> <p>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</p> |
| GREECE | <p>Regulations:</p> <ul style="list-style-type: none"> - See EU Regulation and Directives <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | No | <p>Ministry of Health and Welfare www.yypv.gr</p> <p>ELOT – Hellenic Organisation for Standardisation SA www.elot.gr</p> | <p>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</p> <p>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</p> |
| HUNGARY | <p>Regulations:</p> <ul style="list-style-type: none"> - Decree on hygienic regulations of materials used in drinking water supply (3/1971 (VII.17) Eu.M. - Quality requirements of drinking water and the method of control is detailed in Government Decree No. 201/2001. (X. 25.). - See EU Regulation and Directives <p>Standards:</p> <p>CEN Member: See CEN</p> | Yes | <p>Certification NIEH National Institute of Environmental Health</p> <p>Testing National Medical Public Health Office</p> | <p>Organoleptic and extraction tests are carried out. TOC is evaluated against the German KTW Recommendations.</p> <p>Activated carbon and membrane filters are not included.</p> <p>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</p> <p>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</p> |

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| ICELAND | <p>Standards:</p> <p><i>CEN Member: See CEN Standards -</i></p> | | <p>Directorate of Town and Country Planning (Skipulag rikisins)</p> <p>IBRI -Icelandic Building Research Institute www.rabygg.is</p> | <p>Iceland participates in the Nordic Committee on Building Regulations – NKB for the national building authorities in Denmark, Finland, Iceland, Norway and Sweden.</p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| IRELAND | <p>Regulations:</p> <p><i>- See EU Regulation and Directives</i></p> <p>Standards:</p> <p><i>CEN Member: See CEN Standards -</i></p> | No | <p>Department of Environment and Local Government www.environ.ie</p> | <p>There are no regulations currently in force relating to materials or products used in drinking water applications.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| ITALY | <p>Regulations:</p> <p>- Ministerial Decree No 443 Regulations to implement technical provisions concerning equipment for the domestic treatment of drinking water</p> <p>- Ministerial Decree No 174 Regulation on materials and objects that can be used in permanent plants for collection, treatment, conveyance and distribution of water intended for human consumption</p> <p>- Ministerial Decree No 31 Transposition of European Directive 98/83/EC on water</p> | Yes | <p>Government Body Ministry of Health Department of Prevention Via Sierra Nevada 60 00144 Rome Tel: +39 0659944259</p> <p>Test bodies</p> <p>1. CERMET SOC. Cons. a r.l. (Certification and Quality Service)</p> <p>2. DVN Italia (Det Norske Veritas Italia)</p> | <p>Decree 443 mandates approval by the Italian Ministry of Health for water treatment equipment including softeners, chemical dosers, reverse osmosis, mechanical filters, physical devices, carbon and composite filters. Requirements are onerous:</p> <ul style="list-style-type: none"> - Carbon filtration devices must incorporate some form of microbial control. - Softeners require automatic regeneration every 4 days and post-disinfection. - Reverse osmosis systems require disinfection when a bladder tank is used - Mechanical filters minimum rating of 50 microns <p>Product water quality must comply with Decree 31 including minimum hardness requirements when hardness is reduced.</p> <p>Materials of construction must comply with Decree 174.</p> <p>Application for approval must be made to the</p> |

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| | <p>quality for human consumption</p> <p>- See EU Regulation and Directives</p> <p>Standards: - CEN Member: See CEN Standards</p> | | | <p>Ministry of Health by a company registered in Italy.</p> <p>A revision to Decree 443 has been proposed by the Ministry of Health but has not yet been implemented.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| LATVIA | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | | | <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| LIECHTENSTEIN | | | | <p>Products must comply with the Swiss approval scheme and meet the requirements of the reciprocal recognition of test results agreed between Austria, Germany, Switzerland and The Netherlands.</p> |
| LITHUANIA | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | | | <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| LUXEMBOURG | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> | No | Administration de L'Environnement www.aev.etat.lu | <p>Imported products may require evidence of approval in country of origin.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> |


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| MALTA | <p>Regulations:</p> <p><i>- See EU Regulation and Directives</i></p> <p>Standards:</p> <p><i>CEN Member: See CEN Standards -</i></p> | | | <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| THE NETHERLANDS | <p>Regulations:</p> <ul style="list-style-type: none"> - Regulation of December 7th 2002 Nr BWL 2002095022 - Guideline quality of materials and chemicals for drinking water supplies, Publication 94-01 - <i>EU Member: See EU Regulations and Directives</i> <p>Standards:</p> <ul style="list-style-type: none"> - ISO 1006 'General requirements for tap water installations (AVWI-2002). - Water work sheets (Waterwerkbladen) 4.6 - NEN-EN 806-1: Specification for installations inside building conveying water for human consumption – Part 1: General 09-2001 - KQ 17901 part A Evaluation Guideline for product certificate for Domestic Appliances. Part A, General | Yes | <p>Government Body:</p> <p>VROM – Ministry of Housing Physical Planning and Environment www.vrom.nl</p> <p>Testing</p> <p>Kiwa NV The Netherlands - Kiwa Certification and Inspection www.kiwa.nl</p>  | <p>Under the Building Act, the Water Order and the connection conditions of the water companies in the Netherlands must tap facilities meet ISO 1006. Water work sheets (Waterwerkbladen) 4.6 (www.infodwi.nl) gives advice on compliance for water conditioning equipment. For example, ion exchange water softeners must have a minimum hardness of 100 mg/l and automatic regeneration every 96 hours.</p> <p>ATA (Attestation of Toxicological aspects) certification, based on the Guideline for products in contact with drinking water, is issued by Kiwa following acceptable materials review and tests on organoleptic, microbiological and migration tests with reference to Positive List of materials and acceptable migration limits.</p> <p>. Kiwa will issue a KQ certificate based on compliance with the Guideline KQ 17901.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these</i></p> |

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| | <p>Document and Part B, Water treatment for domestic use. 2007</p> <p>- NSF / ANSI 42 Drinking Water Treatment Units - Aesthetic Effects 2005</p> <p>- CEN Member: See CEN Standards</p> | | | <p>standards are not mandatory and compliance can be claimed by self-declaration.</p> |
| NORWAY | <p>Regulations Norwegian Food Act (Naeringmiddeloven, 1933, Statutory regulations on drinking water, No 68, February 1995)</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | No | <p>Regulatory Norwegian Food Control Authority www.snt.no</p> <p>Approval NIPH – National Institute for Public Health www.folkehelsa.no</p> | <p>Norway participates in the Nordic Committee on Building Regulations – NKB for the national building authorities in Denmark, Finland, Iceland, Norway and Sweden.</p> <p>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</p> |
| POLAND | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | Yes | <p>Ministry of Health Polish Institute of Hygiene – PZH www.pzh.gov.pl</p> | <p>Approval through PZH is mandatory. Registration Dossier (a technical file for the product being submitted for registration), Product Samples, Literature Required.</p> <p>The Registration Dossier will include:</p> <ol style="list-style-type: none"> 1. Certificate of free sale (document attesting to the fact that the product being submitted and can be freely sold in the country or origin). 2. Product Drawing 3. Parts Listing 4. Product Literature 5. Claims Documentation 6. 3rd party Certification - (where appropriate) 7. Manufacturer's/3rd party test report - performance/material safety/structural/etc. <p>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</p> <p>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these</p> |

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| | | | | <i>standards are not mandatory and compliance can be claimed by self-declaration.</i> |
| PORTUGAL | <p>Regulations: - Drinking Water Decree No 306/2009</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p><i>CEN Member: See CEN Standards -</i></p> | No | <p>INSA - Institute of Public Health www.insarj.pt</p> <p>LNEC – National Laboratory of Civil Engineering www.inec.pt</p> | <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| ROMANIA | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p><i>CEN Member: See CEN Standards -</i></p> | Yes | Ministry of Health | <p>Registration Dossier (a technical file for the product being submitted for registration), Product Samples, Literature Required.</p> <p>The Registration Dossier will include:</p> <ol style="list-style-type: none"> 1. Certificate of free sale (document attesting to the fact that the product being submitted and can be freely sold in the country or origin). 2. Product Drawing 3. Parts Listing 4. Product Literature 5. Claims Documentation 6. 3rd party Certification - (where appropriate) 7. Manufacturer's/3rd party test report - performance/material safety/structural/etc. <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| SLOVAKIA | <p>Regulations:</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> | Yes | Ministry of Health | <p>Registration Dossier (a technical file for the product being submitted for registration), Product Samples, Literature Required.</p> <p>The Registration Dossier will include:</p> <ol style="list-style-type: none"> 1. Certificate of free sale (document attesting to the fact that the product being submitted and can be freely sold in the country or origin). |

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| | <p><i>CEN Member: See CEN Standards -</i></p> | | | <p>2. Product Drawing 3. Parts Listing 4. Product Literature 5. Claims Documentation 6. 3rd party Certification - (where appropriate) 7. Manufacturer's/3rd party test report - performance/material safety/structural/etc.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| SLOVENIA | <p>Regulations: National Drinking Water Act (OG RS No 46/97)</p> <p><i>- See EU Regulation and Directives</i></p> <p>Standards:</p> <p><i>CEN Member: See CEN Standards -</i></p> | | <p>NIPH RS – National Institute of Public Health www.gov.si/ivz/indexang</p> | <p>Approval is informal and is obtained by submission of intended use, chemical composition, manufacturing process and approval/certification from other countries to the NIPH. Migration tests are evaluated against the German KTW Guidelines.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| SPAIN | <p>Regulations: Royal Decree 1138/1990, Technical, sanitary regulations for the provision and control of the quality of water for public consumption</p> <p>Royal Decree 1769/1993 Approval of permitted substances for plastic materials and objects in contact with food and</p> | No | <p>Ministry of Health and Food www.msc.es</p> | <p>If required by local municipalities, certification on materials compliance is submitted based on materials composition and evaluation against the Positive List.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by</i></p> |

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| | <p>regulations concerning conditions of testing</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>CEN Member: See CEN Standards -</p> | | | <p><i>self-declaration.</i></p> |
| SWEDEN | <p>Regulations:</p> <p>- Drinking Water Ordinance 1993:35</p> <p>- Planning and Building Act (PBL 1987:10)</p> <p>- Code of Statutes of National Board of Housing, Building and Planning (Boverket) BFS 2002:19</p> <p>- See EU Regulation and Directives</p> <p>Standards:</p> <p>- CEN Member: See CEN Standards</p> | | <p>Regulating body</p> <p>- National Food Administration – SLV www.svl.se</p> <p>National Board of Housing, Building and Planning www.boverket.se</p> <p>Approval body</p> <p>- SWEDCERT AB www.swedcert.se</p> <p>- SITAC www.sitac.se</p> <p>Sitac and Swedcert are two private companies that are accredited to issue type approvals for material in contact with water</p> | <p>Type approval covers structural and assessment of effects on water quality.</p> <p>Sweden participates in the Nordic Committee on Building Regulations – NKB for the national building authorities in Denmark, Finland, Iceland, Norway and Sweden.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| SWITZERLAND | <p>Regulations</p> <p>Swiss Food Ordinance</p> <p>Standards:</p> <p>- CEN Member: See CEN Standards -</p> | Yes | <p>Regulating body</p> <p>BAG – Swiss Federal Office of Public Health www.admin.ch/bag</p> <p>Certification body</p> <p>Swiss Gas and Water industry Association www.sgwa.ch</p> <p>Testing</p> <p>Technical Test Laboratory for Water - TPW</p> | <p>The certification body for water-related products issues a certificate for products, which have been tested according to the relevant W/ Technical Laboratory for Water (TPW) rules. This certificate allows the applicant to offer his product as certified by SGWA and to use the SGWA conformity mark.</p> <p>Reciprocal recognition of test results has been agreed between Austria, Germany, Switzerland and The Netherlands.</p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to</i></p> |

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| | | | | <p><i>adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |
| <p>UK</p> | <p>Regulations: - Water Supply (Water Fittings Regulations) 1999 - Water Supply (Water Quality) Regulations 2000 - EU Member: See EU Regulations and Directives</p> <p>Standards: - BS8427:2004 Jug Water Filter Systems - <i>CEN Member: See CEN Standards</i></p> | <p>No</p> <p>Note: The Water Fittings Regulations contain a requirement for approval by the local Water Undertaker before installing a water softener, RO or treatment device that uses water. This requirement is only observed by one or two of the thirty Water Undertakers in the UK but, as a condition of their approval, they may insist on WRAS approval.</p> | <p>Government Body: Drinking Water Inspectorate (DWI)</p> <p>Certification Body: Water Regulations Advisory Scheme (WRAS) www.wras.co.uk</p> <p>Approved Testing Laboratories: WRC-NSF Ltd www.wrcnsf.com</p> <p>ITS Testing and Certification www.intertek.com</p> <p>Law Laboratories Ltd www.lawlabs.com</p> <p>The Water Quality Centre www.materialstesting.co.uk</p>  | <p>The Water Fittings regulations require that "No person shall install a water fitting....that is likely to cause waste, misuse, undue consumption or contamination of the supply."</p> <p>The Water Regulations Guide supplied by WRAS, contains guidance from the regulators and recommendations from the water supply industry. It includes requirements for materials suitability, structural integrity, backflow prevention. The recommendations from the water supply industry include references to specific standards for some fittings including pipe connectors and pipes. However, the government guidance for non-metallic products is compliance with BS6920.</p> <p>WRAS is an organisation funded and managed by the water supply industry. WRAS will test and list products and the listing is confirmation that the material or fitting meets the requirements for the water Fittings Regulations. It is not mandatory that such products are listed and tested by WRAS or any other organisation but compliance with the regulations is. WRAS also publishes Information and Guidance Notes on its website, which give guidance on compliance with the Regulations. The website also contains information on testing methods and certification procedure.</p> <p><i>Sale of products within the European Union (EU) must comply with EU Regulations and Member States must adopt EU Directives. Potentially relevant EU Regulations and Directives are listed under EU Regulatory Requirements.</i></p> <p><i>European Standards are managed and set by the Comité Européen de Normalisation (CEN) and members of CEN are obligated to adopt those standards. Potentially relevant CEN standards are listed under CEN standards. Unless specified by regulation, these standards are not mandatory and compliance can be claimed by self-declaration.</i></p> |

EUROPEAN REGULATIONS AND DIRECTIVES

Although there may be national regulations relating to water treatment equipment, there are no European level Regulations or Directives which relate specifically to POU/POE water treatment equipment. The following may be applicable depending on the type of equipment – e.g. for electrical or electronic components.

EU Regulations issued by the Commission of the European Union (EU) are administered at European Level.

EU Directives are issued by the Commission but must be adopted at national level. National interpretation is permitted to be more onerous than the EU Directive, so Directives may vary in interpretation between Member States

REGULATIONS

REACH – EC 1907/2006ⁱ - Registration, Evaluation, Authorisation and Restriction of Chemical substances

Standby Power Consumption EC 1275/2008ⁱⁱ – requirements for standby and off-mode electric power consumption of electrical and electronic household and office equipment.

External Power Supply Efficiency EC 278/2009ⁱⁱⁱ – no load condition electric power consumption and average active efficiency of external power supplies

DIRECTIVES

WEEE – 2002/96/EC^{iv} – Waste Electrical and Electronic Equipment

RoHS – 2002/95/EC^v - Restriction of the use of certain hazardous substances in electrical and electronic equipment

LVD – 2006/95/EC^{vi} - Low Voltage Directive

EMC – 2004/108/EC^{vii} – Electromagnetic compatibility

Ecodesign Framework – 2005/32/EC^{viii} Ecodesign requirements for energy using products

Ecodesign Requirements for Energy-related Products – 2009/125/EC^{ix}

DWD – 98/83/EC^x on the quality of water for human consumption

CEN
European Standards for Water Treatment Equipment

| European Standard | Title |
|------------------------------|---|
| EN 13443-1: 2002+A1:2007 | Water conditioning equipment inside buildings – Mechanical filters – part 1 Particle rating 80 um to 150 um |
| EN 13443-2:2005 + A1:2007 | Water conditioning equipment inside buildings – Mechanical filters – Part 2 Particle rating 1 um to less than 80 um |
| EN 14095: 2003 | Water Conditioning Equipment inside buildings – Electrolytic treatment systems with aluminium anodes |
| EN 14652: 2005+A1:2007 | Water conditioning equipment inside buildings – Membrane separation devices |
| EN 14743: 2005+A1:2007 | Water conditioning equipment inside buildings – Softeners |
| EN 14812: 2005+A1:2007 | Water Conditioning Equipment inside buildings – Chemical dosing systems – pre-set dosing system |
| EN14897: 2006+A1:2007 | Water conditioning equipment inside buildings – Devices using mercury low-pressure ultraviolet radiators |
| EN 14898: 2006+A1:2007 | Water condition equipment inside buildings – Active media filters |
| EN 15161: 2006 | Water conditioning equipment inside buildings – Installation, operation, maintenance and repair |
| EN 15219: 2006+A1:2007 | Water equipment inside buildings – Nitrate removal devices |
| prEN15848:2004 | Water Conditioning Equipment inside building – Adjustable chemical dosing systems |

ⁱ <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=oj:l:2006:396:0001:0849:en:pdf>

ⁱⁱ <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:339:0045:0052:EN:PDF>

ⁱⁱⁱ <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:093:0003:0010:EN:PDF>

^{iv} <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2003:037:0024:0038:en:PDF>

^v <http://www.rohs.gov.uk/Docs/Links/RoHS%20directive.pdf>

^{vi} <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:374:0010:0019:en:PDF>

^{vii} <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2004:390:0024:0037:en:PDF>

^{viii} <http://eurlex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2005:191:0029:0058:EN:PDF>

^{ix} <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:285:0010:0035:en:PDF>

^x <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:1998:330:0032:0054:EN:PDF>