Testing institutions for on-site treatment systems in the EU

Dr.rer.nat. Martina Defrain PIA Germany

Workshop on On-site Domestic Wastewater Treatment in Asia



New Approach in Europe

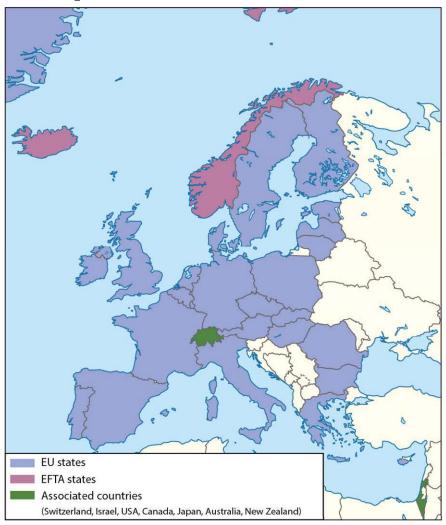




- free movement of goods within the European Union
- harmonised requirements for products placed on the European market



European Economic Area



Founded: 1994 Members: 30 states

EU states: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Lativa, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom

EFTA states adopt almost the EU legislation related to the single market, except laws on agriculture and fisheries.

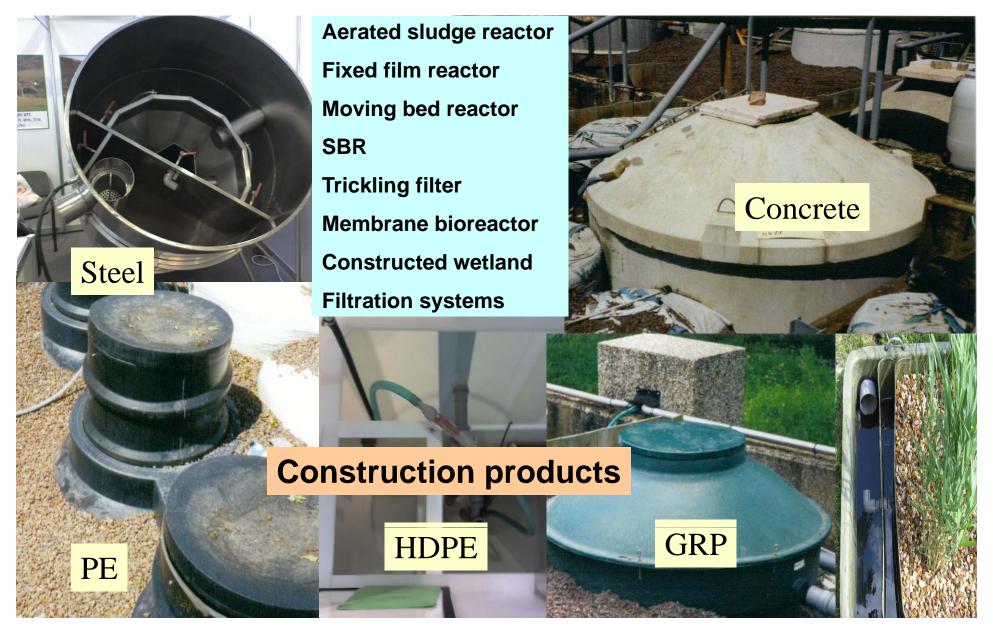
Norway, Iceland, Liechtenstein, (Switzerland)

Associated Countries have a mutual recognition of conformity assessment of products with the EU.

Switzerland, Israel, USA, Canada, Japan, Australia, New Zealand



Small Wastewater Treatment Systems up to 50 PE





Construction Products Regulation

Purpose of CPR

harmonising elements which previously led to barriers

- harmonised technical specifications
 - ▶ ca. 420 harmonised standards for construction products
- agreed system of attestation of conformity (AOC) + verification of constancy for each product family
 - system 3 for SWTS
- framework for Notified Bodies
- mandatory CE marking of products as a passport for the internal market

Requirements on application

Member States





CPR – Notifying Authorities

Member States have to designate a Notifying Authority

Notified Bodies

authorised to carry out third-party tasks in the process of assessment and verification of constancy of performance for the purposes of the CPR

Notifying Authority -> responsible for setting up and carrying out the necessary procedures for the assessment and notification of the Notified Bodies



- responsible for the monitoring of Notified Bodies, including their compliance with the provisions of the CPR
- setting up NBs in NANDO ec.europa.eu/enterprise/newapproach/nando/



CPR - Notified Bodies

National Accreditation Bodies

- undertake accreditation + monitoring of notified bodies
- Germany
 - → National Accreditation Body DAKKS



Application

- should be made to the national Notifying Authority
- Germany
 - → DIBT German Institute for Construction Technology





CPR - Notified Bodies

Requirements

- No involvement in the design, manufacturing, construction, marketing, installation, use, maintenance of the products which the NB assesses
- activities of subsidiaries or subcontractors do not affect the secrecy, objectivity and impartiality of its assessment and/or verification activities.
- ▶ technical knowledge, appropriate experience
- professional secrecy
 - → except in relation to the administrative authorities of the Member State
- Participation in the Group of Notified Bodies



CPR – Technical Specifications

Harmonized Standards hEN European Technical approvals ETA

Specifications should

include testing, calculation and other means in relation to the essential characteristics

Declaration and CE- marking mandatory where there is a hEN



CPR - CEN/CENELEC

CEN

European Committee for Standardisation



European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

CENELEC European Committee for Electrotechnical Standardisation



recognised organisations by the European Commission for the adoption of harmonised standards



Notified Bodies - NBs

- over 440 NBs from 25 countries across the European Economic Area
- Listed on Commission`s "NANDO" website
- organised in the Group of Notified Bodies
 - → GNB CPD





Group of Notified Bodies GNB



21 product SG's

2 horizontal SG`s

SG12

pipes, tanks and related engineering products

SG12 WG2

Small wastewater treatment systems founded 2008 EN 12566-3/EN 12566



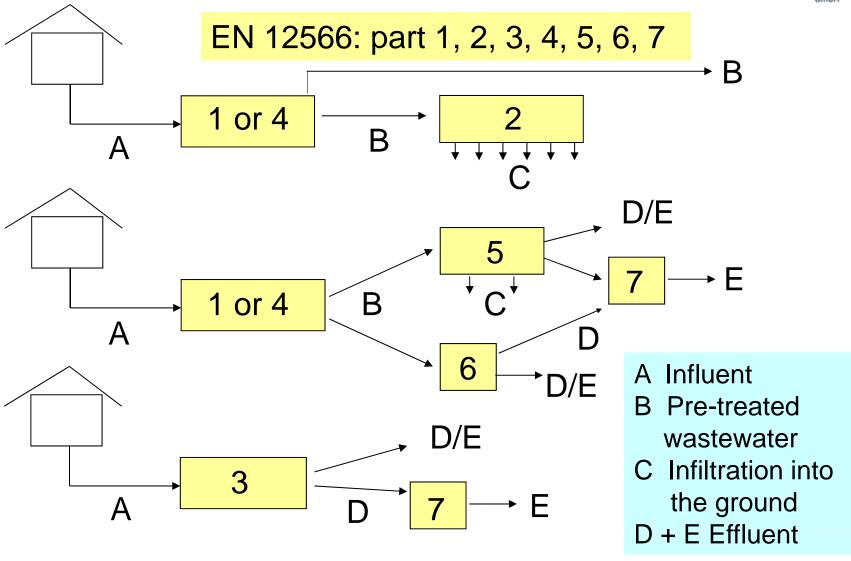
EN 12566

Small wastewater treatment systems up to 50 PT

Standard	Use	
EN 12566-1+A1 : 2003	Prefabricated septic tanks	
CEN/TR 12566-2 : 2004	Soil infiltration systems	
EN 12566-3+A1 : 2009 prEN12566-3+A2 : 2013	9	
EN 12566-4 : 2007	Septic tanks assembled in situ from prefabricated kits	
CEN/TR 12566-5 : 2004	Pre-treated effluent filtration systems	
EN 12566-6 : 2013	Prefabricated treatment units for septic tank effluent	
pr <i>EN 12566-7 : 201</i> 3	Prefabricated tertiary treatment units	



Arrangement of parts of EN 12566





EN 12566-3: Tasks of Notified Bodies

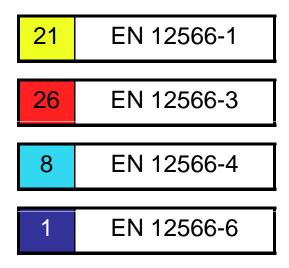
prEN 12566-3+A2: 2013

Requirements for ITT	Models to be tested	
Overall dimensions, volume inlets, outlets and connections, accessibility	each	
Watertightness	each	
Structural behaviour		biggest
Treatment efficiency		smallest (38 weeks)
Durability		one representative
Reaction to fire		one representative
Release of dangerous substances		one representative



EN 12566 – Notified Bodies in Europe

27 NB's



October 2013



CPR - Notified Bodies

Europe wide bodies

- do not represent their country of notification
- may work for manufacturer from any country



work equivalently according to common rules/guidance



SG12 WG2 - small wastewater treatment plants

Notified Bodies for EN 12566



foto: CENTA 2010

SG12 WG2

meetings 1-2/year 14 NBs of 10 EU countries active

objectives

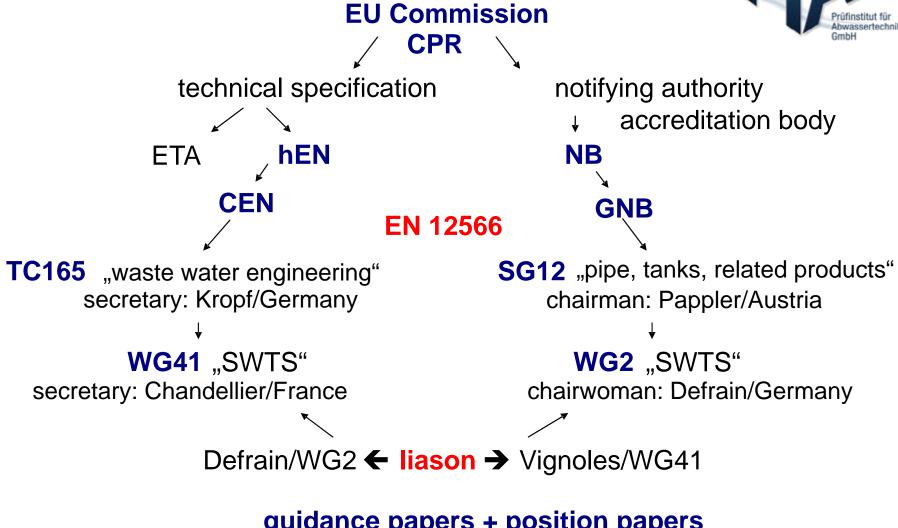
- discussion about problems arising in practice
- same interpretation of the standard
- same testing procedures
- clarification of the standard

working on Position Papers

- cooperation with the CEN (TC165 WG41)
- contact to other NB's
- confidence in the work of all NB's

confidence in the product





guidance papers + position papers→ support for NBs

