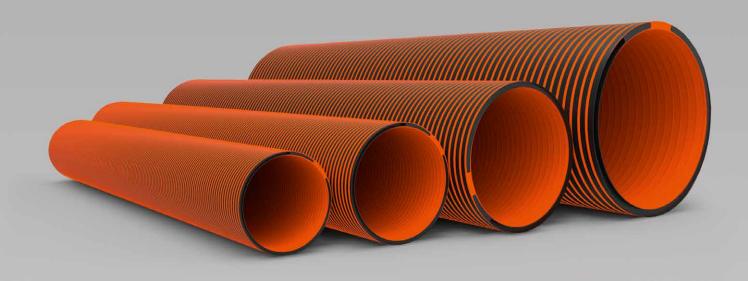


SEWAGE AND CULVERT PIPES



Product range, Pg. 2 **Technical characteristics,** Pg. 3 **Installation,** Pg. 3

IWS INNOVATIVE WATER SYSTEMS

CREATED TO LAST

PRODUCT RANGE





STRONG pipes are made of PE (polyethylene) material. The pipes have double wall and are smooth on the inside and the outside.

STRONG pipes are used for gravity-flow pipe systems:

- 1. Sewerage
- 2. Stormwater
- 3. Culverts
- 4. Industry
- 5. Ventilation

Thanks to our manufacturing method, we can manufacture pipes to customers' needs in terms of diameters, lengths and ring stiffness values.

SELECTION OF PIPES

Internal diameter	Ring stiffness class (kN/m ²)
365 mm 500 mm 520 mm 600 mm 700 mm 1000 mm 1200 mm 1250 mm 1400 mm 1600 mm 2000 mm 2200 mm	SN4, SN8 SN2, SN4, SN8 SN2, SN4, SN8, SN16 SN2, SN4, SN8 SN2, SN4 SN2, SN4 SN2, SN4 SN2, SN4

The lenght of the pipes up to 13.5 m.

CONNECTION METHODS

There are four methods for watertight connection of pipes:

- PE electricity welded band,
- Mechanical connection socket,
- handweld extruder,
- heat-shrinkable tape.

The most convenient and most common connection method is to use the mechanical connection socket. The connection socket is made of a rubber sleeve and a stainless steel fixation and tensioning band.

TECHNICAL CHARACTERISTICS

elastic material. Under normal usage conditions, PE material is chemically

PE material is a very wear-resistant and inert i.e. pipes made of PE material do not rot, rust or corrode due to chemical or electrical reactions underground and

PHYSICAL PROPERTIES

PROPERTY	UNIT
Density	kg/m³
Elastic modulus short-term	N/mm ²
Thermal expansion rate	mm/m °C
Ring stiffness	kN/m²
Thermal conductivity	W/m °C
Temperature resistance	°C
Temperature resistance	°C









STRONG pipes are determined by EN 13476. The pipes have Nordic Poly Mark, INSTA-CERT approval for dimensions ID600–2000 mm.

We perform a ring stiffness test for every product batch.

Ring stiffness test pursuant to the relevant standard EVS-EN ISO 9969 (Thermoplastics pipes – Determination of ring stiffness).

Nordic Poly Mark

INSTALLATION

STRONG pipes are installed pursuant to the guide RIL 77-1990 "Plastic pipes installed underground and into water. Installation guide."



2





nothing will emit or dissolve into the environment from them.

VALUE	STANDARD
>950	ISO 1183
1000	ISO 527
0.18	
2-16	ISO 9969
0.40	
max +45	long-term
max +80	short-term

Resistant to

mechanical

damage

 \searrow



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The PE material's

is 50 years

guaranteed lifetime

Pipes are marked according to the standard as follows:

- approval mark
- dimensions (ID)
- manufacturer
- ring stiffness (kN/m²)
- raw material
- production data







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