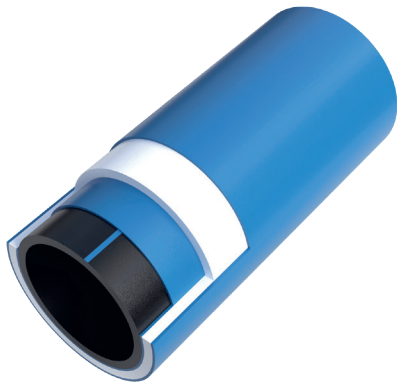


**SELF SUBMERGING PIPE**

# SESU-pipe

PE100RC pipe with mineral filled heavy jacket/coating for underwater pipeline.



Polyethylene (PE) has through the years been the natural choice for submerged pipelines for Water and Sewage. The pipes flexibility is in many cases a necessity to allow the installation of such pipes without the need for heavy equipment. Since the density of the pipe is lower than water, there has been a need for concrete weights to give the pipe negative buoyancy.

SESU-pipe from Hallingplast is next generation submerged pipesystems made of PE100RC. The standard PE100RC-pipe is suited with a heavy jacket placed on the outside of the main pipe. The result is a solution that provides simpler logistics and handling for the installer, as well as a faster delivery and a more robust solution that will last for generations.

SESU-pipe – the natural choice for submerged pipes!

**Technical data PE (inner pipe)**

Dimensions	32-315mm
SDR classes	SDR17 - SDR7,4
Material	PE100RC (Polyethylene)
Color	Black with colored stripes
Density	0,96 kg/dm <sup>3</sup>

**Technical data PP (coating/jacket)**

Material	Mineral filled PP
Density	2,45 kg/dm <sup>3</sup>
Color	Blue, brown or by area of use

**Certification**

Hallingplast is ISO9001:2015 certified. The pipe is INSTA-Cert Approved, and marked with Nordic Polymark. Drinking water approved according to DK-VAND and FI. Other pipe-certifications on request.

**Weighting**

Necessary weighting of the pipeline can be specified in the same way that is done with conventional pipes fitted with concrete weights. The pipe is produced on specification according to the needed air-filling-rate of the pipeline. Guideline values for such pipes in calm waters are 30% for pressure-water and 70% for pressure-sewer. The weight is adjusted with the coating thickness, so a high air-filling-rate will result in a thick coating.

For smaller dimensions we can supply pipes with air-filling-rate well above 100%, but for larger dimensions the weighting is limited due to the maximum coating thickness. For dimension 315mm the maximum air-filling-rate is approx. 60%. For higher weighting and large dimensions we can supply SESU-XL pipes.

**Welding**

SESU-pipe is welded in the same way as conventional PE-pipes, using butt-fusion or electrofusion welding. The pipes are delivered without coating in the welding area for both butt- and electrofusion, so normal welding parameters and equipment can be used.

**Supply length**

SESU-pipe is supplied as straight lengths of up to 20mtr, or as coils or drums. The supply length may vary in different dimensions, SDR-classes and the degree of weighting of the pipe. Guideline values for the pipe is:

- Coils: 32-90mm (SDR13,6 and thicker)
- Drums: 32-63mm (SDR13,6 and thicker)
- Straight pipes: 75-315mm (SDR17 and thicker)
- Larger dimensions are supplied as SESU-XL

**Advantages**

- Well proven and standard procedure of welding PE-pipes
- No corrosion or tearing on the bolts or concrete weights
- No sliding of the concrete blocks during installation
- Simpler logistics and faster installation on the building site
- Installation can be done with less equipment on the building site
- Larger safety against anchors, fishing-equipment etc.
- Smooth pipe is better for the seabed environment
- Larger stiffness provides more safety