



# STENCA PIPE

High quality pipe insulation

COLD HEAT FIRE INSULATION  
ACOUSTICS PROJECTING



## WELCOME TO STENCA Solutions ApS. Global focus with local service

Stenca Solutions ApS. offers optimal solutions for the offshore, marine, refineries and cogeneration industry.

Worldwide Stenca Solutions ApS. provide professional support in life cycle insulation, marine doors and passive fire protection systems for Drilling Platforms/Rigs, FPSO's, Tanker Vessels, onshore terminals.

Stenca Solutions ApS. are based in Aalborg, Denmark, with our production facilities located nearby.

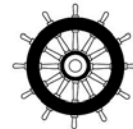
Our agents are strategic located in Vietnam, Singapore, Korea, Malaysia, China.

We are very focussed on the developments in the offshore and marine industry, and we are contributing to development and innovation of new products in these areas.

We work closely with our partners and suppliers which ensures our customers a wide range of services regarding our heat, cold, sound insulation and fire protection equipment.

We strive to engage in long term relationships and having a large group of satisfied customers.

Satisfied customers are our greatest asset - good and fast service is essential for us.



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## STENCA PIPE INSULATION

Stenca Pipe Insulation is made of a non-combustible product which a unique composition of ingredients that forms the basis of a good insulation material, which also has noise reduction abilities like it prevents corrosion.

Specially developed for insulation of pipes, tanks and vessels, and designed to provide a high efficient barrier for thermal and acoustical insulation of pipes.

The insulation system consists of prefabricated pipe insulation shells moulded in all kinds of pipe dimension, and prefabricated plates for tanks and vessel. The insulation is made with tracks on the inside for heat tracing.

The thickness of the prefabricated insulation material is 40 mm. The temperature range is between  $-50^{\circ}\text{C}$  to  $140^{\circ}\text{C}$ .

Stenca Pipe is pre-coated with an anti static silicone coated glass fabric, which makes the product waterproof and UV resistant like it makes steel covering unnecessary.

The insulations density is only  $66\text{ kg/m}^3$ .

Here to comes that the instalment time is about three times faster as other well-known products on the market, such as cellular glass, stone wool etc., because no steel cover is needed to finish the insulation.

Stenca Pipe has a long durability, high compressive strength – has a non-slip surface, can handle pressure and is able to withstand foot traffic both before and after installation. Furthermore, the insulation can be removed for inspections and then reused again.



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## DATA OF STENCA PIPE

### Facing

The Stenca Pipe-sections comes with a silicone coated glass fabric SCF/6 (Black) with a density of 600g/m<sup>2</sup>.

### Integral Lap

The integral lap ensures an easy installation of the pipe sections. Seal the sections with sealant Stenca Seal, which is a specially developed seal/adhesive.

### Density

The nominal density of the insulation sections is 66kg/m<sup>3</sup>. Total thickness is approximately 40 mm.

### Assembling

With tong and groove to ensure a waterproof installation of the pipe sections.

### Acoustics

Stenca Pipe can improve the level of environmental sound considerably. If a higher standard of acoustic insulation is necessary – please ask for acoustic documentation.

### Handling and storage

Easy to cut into any shape, bend, T-piece, pieces, etc. with an ordinary saw or knife. Stenca Pipe is waterproof. Can handle pressure and is able to withstand foot traffic both before and after installation. The items should be stored dry and clean before use and they must be stored upright to prevent ovality. After installation of the pipe sections wipe them off with a moist cloth.

### Maintenance

Do not need maintenance after installation. Can be moved for inspection and reused. Does not wear down the pipes on which they are installed.

### Environment

No CFCs, HFCs or HCFCs that are harmful to the environment is used in the manufacturing of Stenca Pipe products.

### Health and safety

By installment and cutting there are no release of any dangerous or harmful particles in the air, which can damage the respiratory, mucous membranes and skin of the workers. But because some dust will occur, we still recommend to wear a mask. A safety data sheet is available and can be replied by all of Stenca departments.

### Dimensions

Additional pipe dimensions can be carried out according to order – see technical data. Foam bends are divided into two sections, above six inches they are divided into four sections. Additional pipe dimensions can be carried out according to order.

### Bends

As standard the Stenca Pipe system comes with 90 degree elbows. However, we can provide you with different angles according to your request. As standard bends up to 10" comes without ceramic cloth - these must be wrapped with Stenca Insulation Tape.

## TECHNICAL DATA OF STENCA PIPE

### MATERIAL

Stenca Pipe is made of Stenca Foam having fire retardant ingredients. The surface consist of a silicone-coated glass fabric: Code SCF/6

### COLOUR

Colour of the insulation is dark grey. Colour of the surface is black.

### PROPERTY

Dimensional stability: < 1% / PH value: 9,2

### LAMBDA

Lambda  $\lambda$  by 10<sup>0</sup> C is 0,039 W/mK

Lambda  $\lambda$  by 10<sup>0</sup> C after 140 days ageing is 0,042 W/mK

Lambda  $\lambda$  by 50<sup>0</sup> C by 150<sup>0</sup> C is 0,042 W/mK

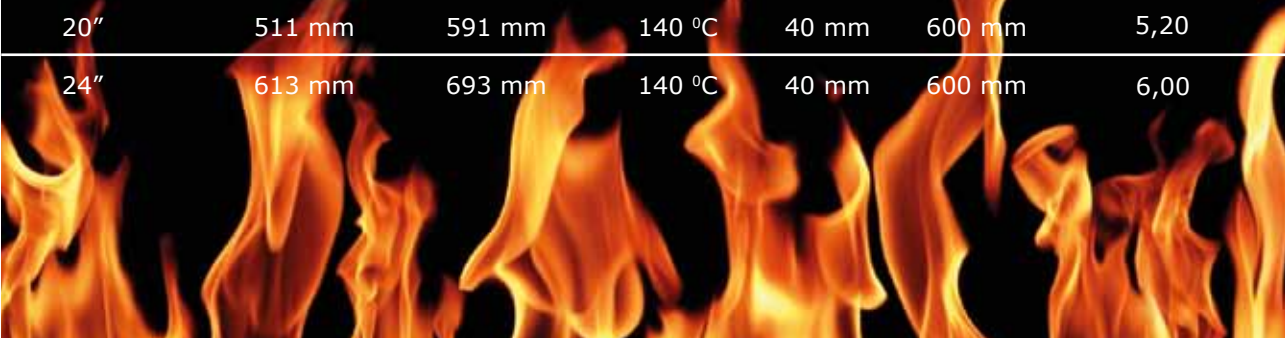
Lambda  $\lambda$  by 50<sup>0</sup> C after 140 days ageing by 150<sup>0</sup> C is 0,045 W/mK



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## STANDARD PRE-FORMED STENCA PIPE WITH SILICONE COATED GLASS FABRIC

Pipe section dimension	Inside dimension (D)	Outer dimension (A)	*Heat-resistance maximum	Insulation thickness	Section Length (L)	Weight in kg/pc
1/2"	24 mm	88 mm	140 °C	32 mm	600 mm	0,37
3/4"	30 mm	110 mm	140 °C	40 mm	600 mm	0,59
1"	36 mm	116 mm	140 °C	40 mm	600 mm	0,68
1 1/2"	51 mm	115 mm	140 °C	32 mm	600 mm	0,60
2"	63 mm	143 mm	140 °C	40 mm	600 mm	1,12
3"	92 mm	172 mm	140 °C	40 mm	600 mm	1,26
4"	117 mm	197 mm	140 °C	40 mm	600 mm	1,47
5"	144 mm	224 mm	140 °C	40 mm	600 mm	1,59
6"	171 mm	251 mm	140 °C	40 mm	600 mm	1,96
8"	222 mm	302 mm	140 °C	40 mm	600 mm	3,15
10"	276 mm	356 mm	140 °C	40 mm	600 mm	3,30
12"	327 mm	407 mm	140 °C	40 mm	600 mm	3,40
14"	358 mm	438 mm	140 °C	40 mm	600 mm	4,10
16"	409 mm	489 mm	140 °C	40 mm	600 mm	4,90
18"	460 mm	540 mm	140 °C	40 mm	600 mm	5,05
20"	511 mm	591 mm	140 °C	40 mm	600 mm	5,20
24"	613 mm	693 mm	140 °C	40 mm	600 mm	6,00



Please note that these dimensions is only guidance and can have a variation of  $\pm 5\%$ .

Other dimensions can be delivered after special request.



## PRE-INSTALLED INSULATION & LOAD CAPABILITY OF STENCA PIPE

To be able to pre-insulate pipes and tanks on land, before the materials are shipped to its final destination is time saving. But one of the problems that often occur is the durability of the insulation, when it is transported on board to be installed. Most general insulation types are not developed to withstand high pressures, like it has to have a steel cover protection. The steel cover is too thin to keep shape by high pressure, which often results in expensive and time consuming re-insulation of the material after installation.

Therefore, we have developed Stenca Pipe insulation, which is able to resist high pressures. This makes the material suitable for pre-insulation of pipes and vessels on land. To make this statement valid the material has made a load-pressure test. However, the real capacity test was made, when a 13 tons pre-insulated pipe had to be moved from a container to its destination by crane, with only two straps placed directly on the insulated pipe. The mission succeeded without damage or pressure marks on the insulation.

## DOCUMENTATION AND TEST

- **Report of NORSOK classification**
- **Life Cycle Test for Offshore conditions**
- **Non-combustible Test**
- **Load Test**
- **Mounting Instruction Guide**
- **Fire Certificate**



C O L D   H E A T   F I R E  
I N S U L A T I O N  
A C O U S T I C S   P R O J E C T I N G

D E N M A R K

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