



Stenca

TRADING



Stenca Pipe
High quality pipe insulation





The Company

Stenca Trading has existed since 1995 and is owned as well as lead by Sten Nielsen and Thøger Jokumsen. Today, Stenca Trading is among the top suppliers of insulation for cold, heat, fire and noise reduction, plus marine and ship interior design products. However, during the last couple of years the company has also moved in to other industrial areas with new developed quality products.

Stenca Trading has a constant influence upon the continuous development and the creation of products within the insulation, Offshore and marine industry. We already deliver materials in many parts of the world from the North Sea to Singapore to Qatar.

The people behind Stenca Trading have been involved with the insulation and marine industry for several decades. They have hand-on knowledge of the business as well as theoretical knowledge (B.Sc.). Thus, your company will be given the utmost guidance within both the application of a product in addition to its advantages with respect to the given insulation challenge.

Stenca Trading always intends to inspire a dynamic development within all the industries where we operate. We are dedicated to develop and produce high quality products in terms of insulation capabilities in addition to safety and environmental issues. Thus, our products are undertaken thorough testing before they are introduced to the market.

Today Stenca Trading has four locations in Denmark, like sales offices in Norway and Germany, and we have partner agencies in different parts of the world.

The philosophy of the company is to supply our customer with good products and know-how service as fast as possible.

Stenca Motto:

- There is always a solution
- Innovative thinking
- Rather quality than quantity
- Fast delivery



The Stenca Pipe

Stenca Pipe made of a low-flame spread material with a unique composition that form the basis of a good insulation material which also has noise reduction abilities like is does not prevent corrosion.

Stenca Pipe is specially developed for insulation of pipes, tanks and vessels, and it is designed to provide a high efficient barrier for thermal and acoustical insulation of pipes.

The Stenca Pipe system consist of prefabricated pipe insulation shells produced in all kinds of pipe dimension, and prefabricated plates for tanks and vessel. The pipe system is made with tracks on the inside to fit heat tracing.

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

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

The density of the pipes is only 66 kg/m^3 .

Hereto comes that the instalment time is about three times faster as other well-known products on the market due to no steel cover is necessary why you need only one working phase.

Stenca Pipe has a long durability and is very strong as well as it can withstand high pressure both before and after instalment. Furthermore, the pipe system can be removed for inspections and then refitted again.





Data sheet of Stenca Pipe



MATERIAL VERIFICATION

Facing:

The Stenca Pipe-sections comes with a fire resistant factory applied ceramic-cloth. The ceramic-cloth is silicone coated with a density of 600g/m³

Integral Lap:

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

Density:

The nominal density of the pipes sections is 66kg/m³

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:

Stenca Pipe sections are easy to cut to any shape with an ordinary saw.

Stenca Pipe is waterproof. After installation of the pipe sections they are wiped off with a moist cloth. Stenca Pipe can handle pressure and has a non-slip surface. Thus, employees standing up on the insulated pipe will not reduce or damage the insulation.

Maintenance:

Once the Stenca Pipe sections have been installed they do not need maintenance.

Environment:

No CFCs, HFCs or HCFCs are used in the manufacturing of Stenca Pipe products.

Health and safety:

A safety data sheet is available and can be replied by all of Stenca Trading departments.

Dimensions:

Additional pipe dimensions can be carried out according to order – see Technical data. Foam bends are divided into 2 sections however above 6 inches they are divided into 4 sections. Pre-formed pipe sections can be delivered with or without ceramic cloth facing. Additional pipe dimensions can be carried out according to order.

Elbows:

As standard the Stenca Pipe system comes with 90 degree elbows. However, we can provide you with different angles according to your request.



Technical data of Stenca Pipe



Material:

Stenca Pipe is made of polyurethane foam: Formtex daltofoam TE 42200
The surface cloth consists of a silicone-coated glass fabric: code SCF/6

Colour:

Colour of insulation material is dark grey.
Colour of Surface is black or grey.

Property:

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

Lambda:

Lambda λ by 10 °C is 0,039 W/m²K
Lambda λ by 10 °C after 140 days ageing is 0,042 W/m²K
Lambda λ by 50 °C is 0,042 W/m²K
Lambda λ by 50 °C after 140 days ageing by 150 °C is 0,045 W/m²K

Standard Pre-formed Stenca Pipe with ceramic-cloth facing:

Pipe sections dimensions	Inside dimensions (D)	Outside dimensions (A)	*Heat-resistance maximum	Insulation thickness	Section Length (L)
½"	16,0 mm	96,0 mm	140 °C	40 mm	600 mm
¾"	28,9 mm	108,9 mm	140 °C	40 mm	600 mm
1"	35,7 mm	115,7 mm	140 °C	40 mm	600 mm
1 ½"	50,3 mm	130,3 mm	140 °C	40 mm	600 mm
2"	62,3 mm	142,3 mm	140 °C	40 mm	600 mm
3"	90,9 mm	170,9 mm	140 °C	40 mm	600 mm
4"	116,3 mm	196,3 mm	140 °C	40 mm	600 mm
6"	170,3 mm	250,3 mm	140 °C	40 mm	600 mm
8"	223,1 mm	303,1 mm	140 °C	40 mm	600 mm
10"	277,0 mm	357,0 mm	140 °C	40 mm	600 mm
12"	325,9 mm	405,9 mm	140 °C	40 mm	600 mm
16"	410,4 mm	490,4 mm	140 °C	40 mm	600 mm
18"	461,2 mm	541,2 mm	140 °C	40 mm	600 mm
20"	512,0 mm	592,0 mm	140 °C	40 mm	600 mm
24"	613,6 mm	693,6 mm	140 °C	40 mm	600 mm

Other dimensions can be delivered after special request.

When applying Stenca Pipe insulation to your pipe system you should note that you can yourself change the angels with a conventional saw.



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 transferred onboard and are being installed. Most general insulation products are not developed to withstand high pressures like it has to have a steel cover protection but the steel cover is too thin to keep shape by high pressure, which often results in re-insulation of the material after installment.

Therefore, Stenca Trading has developed its Stenca Pipe insulation to be able to resist high pressures which 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 pre-insulated pipe of 13 tons had to be removed from the container to its destination by crane with only two strings placed directly on the insulated pipe. This turned out with satisfaction due to the material did not get damaged or was had any defaults afterwards.



Unloading a 13 ton pre-insulated steel pipe in Norway



31.07.2008 16:31



31.07.2008 06:53



31.07.2008 16:31



31.07.2008 16:32




31.07.2008 07:20



31.07.2008 16:31



Stenca Pipe Certification


DET NORSKE VERITAS
EC TYPE-EXAMINATION CERTIFICATE

Application of Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutsty" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-4537

This Certificate consists of 2 pages

This is to certify that the

Surface materials and floor coverings with low flame-spread characteristics: pipe insulation covers

A1/3.18d

with type designation(s)

Stenca Pipe / Stenca Tank

Manufacturer


Stenca Trading A/S
Aalborg, Denmark

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/3.18d and Annex B, Module B in the Directive, SOLAS 74 as amended, Reg. II-2/3.29, II-2/3.40.4, II-2/3.40.5, II-2/5.3.1.1, II-2/6.2, II-2/9.7.1.1.1, II-2/9.7.4.3.1 & X/3, 2000 HSC Code 7.4.3.4, 7.4.3.5, 7.4.3.6 and IMO FTP Code

Further details of the product and conditions for certification are given overleaf.

Place and date
Hovik, 2007-12-03
for Det Norske Veritas AS


 Notified Body No. 0575

This Certificate is valid until
2012-12-03

Kristen Ulveseter
Manager, MIPNO370

Håkon Laskemoen
Surveyor

Department Systems & Components


DET NORSKE VERITAS
QS - CERTIFICATE OF ASSESSMENT - EC

Application of Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2008/67/EC, issued as "Forskrift om Skipsutsty" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-D-1265

This is to certify that the Quality System for the
Surface materials and floor coverings with low flame-spread characteristics
with type designation(s) as specified in the Appendix to this Certificate

Manufacturer
Stenca Trading A/S
Aalborg Ø, Denmark

is found to comply with the requirements applicable to it.
The quality system for the product, defined in Annex A, 1, Item No. A.1/3.18, has been assessed with respect to the procedure of conformity assessment described in Annex B, Module D in the directive.

Limitations:
Modifications made to the Quality System shall immediately be reported to Det Norske Veritas AS in order to examine whether this Certificate remains valid. Annual periodical audits will be held to verify the validity of the certificate.

Hovik, 2008-12-07
for Det Norske Veritas AS


 Notified Body No.: 0575


 Eivind Mykland
 Head of Section


 Amir Ozafert
 Surveyor


 DNV local office:
 DNV Aalborg

This Certificate is valid until
2014-12-07

The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

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Other Documentation and Test

- ❖ Report of NORSOK classification
- ❖ Life Cycle Test for Offshore conditions
- ❖ Low Flame Test
- ❖ Load Test
- ❖ Mounting Instruction Guide



Offices

Do not hesitate to call us, if you need further information, or we can be helpful in any way at all.

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Reference:

