BU INSULATION
DHP
(DISTRICT HEATING PILLOW)
BASE SPECIFICATION
V-CUT SHEETS



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Updates to previous version:

- *Added new NA 33 product, page 4, 5 and 6*

1. GENERAL DESCRIPTION

Sheets in cross-linked polyolefin foam, natural colour, with appropriate V-cuts, which allow the application on curved surface.

DISTRICT HEATING PILLOW

Characteristics

District heating pillows are made from chemically cross-linked PE foam.
The excellent characteristics of PE foam make it suitable for this district heating application.
District heating pillows has cut standing compression tolerance to ensure the free dilatational movement of the pre-insulated pipes.
Whenever the extra compression abates the district heating pillow regains its original form repeatedly thus the pipes are well-protected against physical damage.
Additionally, district heating pillow has a great heat tolerance range.
The product is environmentally friendly as it contains no water-soluble harmful substances such as Freon, chlorides, and heavy metals (Pb, Cd, Cr).

Application

Pre-insulated district-heating pipes transport hot water to homes and businesses for heating purposes. The high water temperature inside the pipes causes dilatation especially at bends and T-crossings. To compensate this dilatational movement it is regulated to use district heating pillows on these pipe sections.

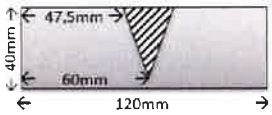
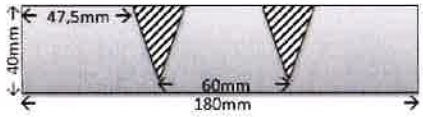
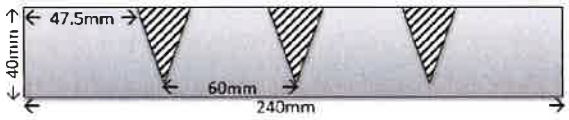
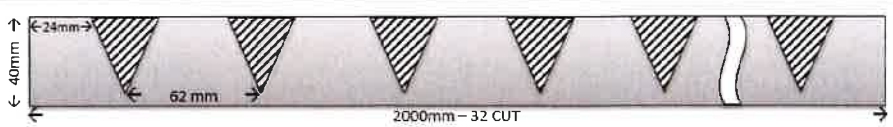
The district heating pillows must applied at the outer and inner curves at the pipe bends.
As a last step the district heating pillow supported sections must be wrapped with 5 mm laminating bands to protect the district heating pillows from damage by sand, soil and water.

Recommendation

Pillow must to be fixed on district heating pipes at the outer and inner curves. Fixing could be by filament tape (width 12mm) or with welding. Before welding hot air or open flame can be used in order to heat up the surface of DHP.
During the heating process Carbon monoxide (CO) and Carbon dioxide (CO2) can be released. HBr just in case of Fire retardant containing materials.
In this case appropriate ventilation must be applied if possible, or the workers have to use individual protection devices. In any case, workers can not be above the smoke.
In bad weather conditions like big air pressure or rain, mentioned gases could accumulate in the working area (in the ditch).
Also if DHP is being fixed by hot air or open flame continually it is recommended for one person working on it to have a 15-minute break after every hour.
As a last step the district heating pillow supported sections must be wrapped with 5 mm laminating bands to protect the district heating pillows from damage by sand, soil and water.

2. PRODUCT RANGE

	WIDTH	LENGTH	V-Cut	V-cut wide	V-cut interval
	mm	mm	Nr	mm	mm
NA1	120	1000	1	25	-
NA2	180	1000	2	25	60
NA3	240	1000	3	25	60
NA5	360	1000	5	25	60
NA7	480	1000	7	25	60
NA12	1000	1000	12	25	79
NA25	2000	1000	25	25	78
NA32	2000	1000	32	30	62
NA33	2030	1000	33	23	60

	Typical dimensions
NA1	
NA2	
NA3	
NA5	
NA7	
NA12	
NA25	
NA32	
NA33	

3. TOLERANCES

PROPERTY	STANDARD	UNIT	TOLERANCES
Thickness	ISO 1923	mm	40 ± 10%
Density	ISO 845	Kg/m3	30 ± 5
Width < 1000 mm	IS0 1983	mm	-0/+10
Width 1000 mm	IS0 1983	mm	-0/+20
Width 2000 mm	IS0 1983	mm	-0/+40
Width 2030 mm	IS0 1983	mm	-0/+40
Length	ISO 1893	mm	1000 ÷ 1020
Cut interval 60 mm	ISO 1923	mm	± 10%
Cut interval 62 mm	ISO 1923	mm	± 10%
Cut interval 78 mm	ISO 1923	mm	± 10%
Cut interval 79 mm	ISO 1923	mm	± 10%

4. PACKAGING

	DIMENSION of SHEET	INDIVIDUAL PACK	FINAL PACKAGING
NA1	40mm x 120mmx 1000mm	28 pcs (7x4) 	Large pack (4 x individual pack) 
NA2	40mm x 180mmx 1000mm	21 pcs (7x3) 	Large pack (4 x individual pack) 
NA3	40mm x 240mm x 1000mm	28 pcs (14x2) 	Large pack (2 x individual pack) 
NA5	40mm x 360mmx 1000mm	21 pcs (7x3) 	Large pack (2 x individual pack) 
NA7	40mm X 480mm x 10mm	14 pcs (7x2) 	Large pack (2 x individual pack) 
NA12	40mm x 1000mm x 1000mm	4 plates (4x1) 	60+60 sheets on pallet + Individual packs to complete the truck
NA25	40mm x 2000mm x 1000mm	4 plates (4x1) 	60 sheets on pallet + Individual packs to complete the truck
NA32	40mm x 2000mm x 1000mm	4 plates (4x1)	60 sheets on pallet + Individual packs to complete the truck
NA33	40mm x 2000mm x 1000mm	4 plates (4x1) 	60 sheets on pallet + Individual packs to complete the truck

on request anonymous label in English with our production information

5. WARNINGS

Handling and storage. Advice on protection against fire and explosion
The product is combustible. During handling TROCELLEN / POLIFOAM foam could generate an electrostatic charge which could give rise to an explosion if adjacent to ignitable material such as solvent vapours or dust laden air. Therefore note the presence of grounding measures.

Exposure controls / personal protection. General measures
Avoid contact of molten material with skin. For processing above the melting point of the polymer please take care for very well ventilated rooms.

Toxicological Information.
No indications on irritability and sensitization; only hardly noticeable odour.

For any further information related to our foams, please refer to the Safety Use Data Sheet

Thermal Stability



Due to the thermal expansion of our products the measurements in not normal conditions (23 ± 5 ° C) may diverge from those stated.

Exposure to heat



Direct exposure or prolonged exposure to heat can compromise the technical and mechanical characteristics of the product. It's also advisable to avoid exposure to direct sunlight or indirect as it may show changes in the physical or mechanical properties

Warranty



We guarantee that our products comply with this specification. Nevertheless customers have to check the conformity of the products supplied or the possible presence of faults and, in case, promptly inform Trocellen. In the absence of any complaint goods will be considered conform unless the defect can't be noticed through a first check. If a defect is detected at a later stage it must be reported immediately, otherwise goods will be considered conform despite the defect. A prompt reporting to Trocellen is enough to grant consumer rights. The aforesaid rights won't be granted only if a defect is not reported. Given the countless use possibilities and storage conditions we can't grant a general warranty of constant product characteristics and unlimited lifespan.
If you have special requirements with regard to the warranty of our products, please contact our sales department.