

PE heater pipe

PE pipes can be used as heater pipes. Heater pipes are characterised by a higher heat resistance. Black/white heater pipe is a black HDPE pipe with white shell. The line is not diffusion-tight, the PE wall is permeable. Oxygen for example can thus pass through the wall. We recommend protecting the central heating installation against oxygen by using e.g. a stainless steel heat exchanger.

APPLICATION AS GREENHOUSE HEATER LINE

The greenhouse heater line is an HDPE line that is used to selectively bring extra heat to the crop or root area. If the line is suspended, it must be sufficiently supported to prevent sagging. The choice of wall thickness depends on the desired heat output and pressure class. This line has a higher heat output due to the thinner wall. The greenhouse heater line has a white shell.

APPLICATION AS UNDERFLOOR HEATER LINE

Underfloor heater lines are used e.g. in concrete floors for ebb and flood systems. The most common sizes are the 20 and 25 mm diameter lines. These lines are available with different wall thicknesses so that the right line can be chosen for every application. Lines with larger wall thicknesses are resistant to higher pressures and have a lower heat dissipation coefficient so that longer lengths are possible. Underfloor heater lines with a wall thickness of 2.2 or 2.7 mm are therefore preferred.

APPLICATION AS NAFF3 PIPE

Specially for heating and keeping sports fields free of snow, Netafim has developed a field heater line that maintains its characteristics at a higher temperature over a longer period and at higher pressure (5 years, 50°C, 5 bar). Ask Netafim for the possibilities.

APPLICATION FOR ECONAFF HEATING

As field heater line for soil-grown crops such as asparagus. This line has a slower heat transfer due to the larger wall thickness.

CHARACTERISTICS

- ✓ Heater pipe with high heat resistance for i.a. greenhouse horticulture, concrete floors and sports fields
- ✓ Not standardised or certified
- ✓ Not diffusion-tight
- ✓ All heater lines are pressure-tested with compressed air

INSTALLATION & MAINTENANCE

Note: Never use detergents during assembly and use with PE material.

		Greenhouse heating line	Underfloor heating line	Naff3 pipe	EcoNaff-heating
PE grade		PE100 / PE80	LDPE	HDPE	LDPE
Max. working pressure	bar	Different pressure classes depending on diameter and wall thickness	1	5	1
Diameter	mm	standard Ø 25, 32, 40 Ø 50 on request	Ø 20 en 25	Ø 20 en 25	Ø 25
Max. water temperature	°C	50	40	50	40
Outside colour		white or black pipe	black pipe	black pipe	black pipe
Heat diffusion	W/(m.K)	0,46 - 0,52	0,30 - 0,34	0,46 - 0,52	0,30 - 0,34