

# PRE-INSULATED PIPES FOR DISTRICT HEATING

## INFLEX<sup>®</sup> HD quattro

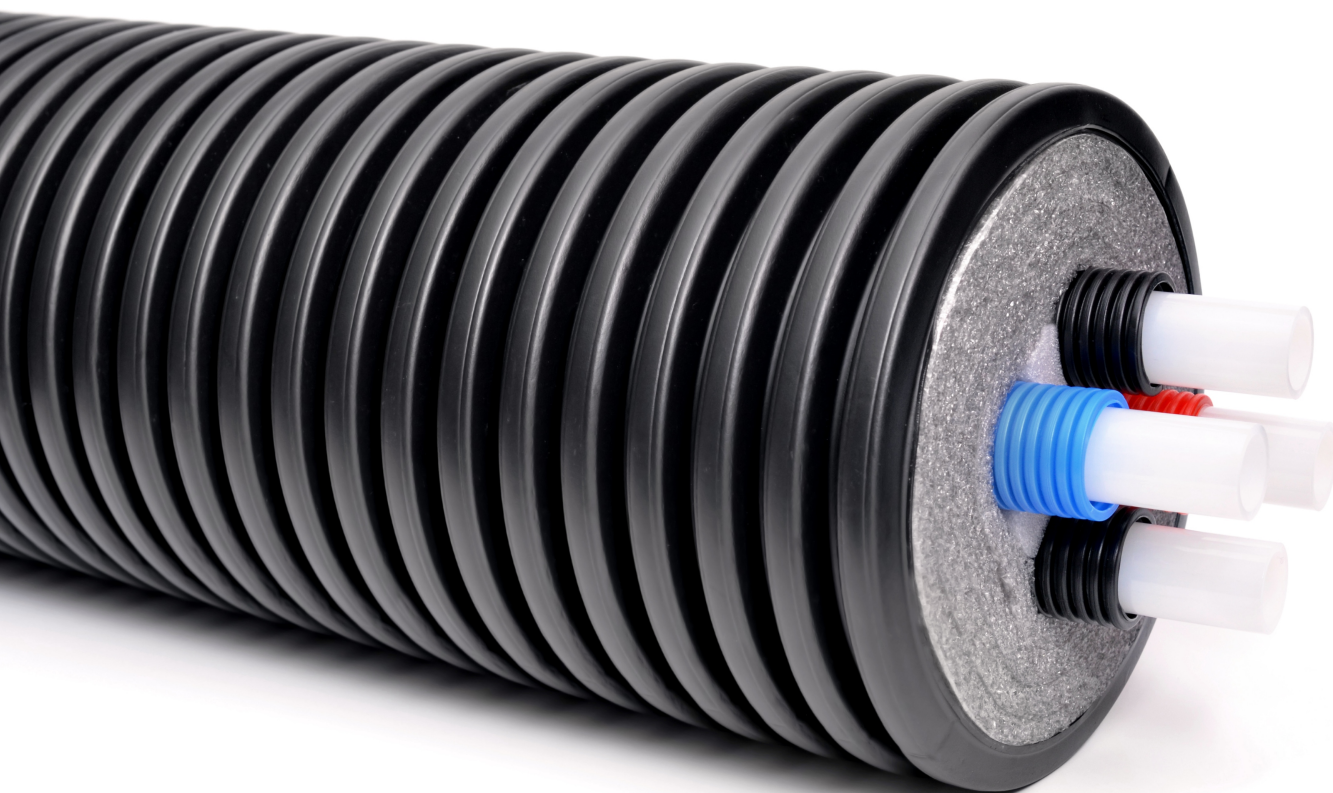
### Inflex HD quattro (Basic Heavy Duty)

Inflex HD quattro is designed for transporting liquids in heating, sanitary installations and district heating systems.

Pipe consists of four carrier pipes: two pipes for heating (flow and return), one pipe for sanitary hot water and one pipe for circulation. They are insulated with flexible EPE foam and enclosed in an external HDPE corrugated pipe. A multilayer layer of elastic foam provides excellent thermal insulation over a wide temperature range. Insulation's closed-cell structure prevents water absorption and water vapour permeability, and is resistant to mechanical deformation.

The system with internal corrugated pipe permits safe expansion and contraction of the carrier pipe, reducing the risk of uncontrolled leakage caused by inner pipe abrasion. It allows easy replacement of carrier pipes trough pulling it out and inserting a new one without the need to chisel it out of walls, floors or ground.

These pipes have high mechanical strength (500 N), high-impact resistance and flexibility which makes them easy to install. Pipes are recommended for outdoor use in grounds and in areas where special mechanical protection is required. Pipes are available in 6 meter straight lengths and in coils of 25, 50 and 100 meters.



# INFLEX HD quattro

Carrier pipe diameter (mm)	Pipe symbol (internal corrugated pipe inside diameter)	Outside diameter (mm)	Heat emission W/m*	Minimum bending radius (mm)**
4x25	HD q 4x25x160 (4x 29mm)	160	13,0	800
	HD q 4x25x200 (4x 29mm)	200	10,5	900
2x32 2x25	HD q 2x32+2x25x160 (2x 40mm + 2x 29mm)	160	13,5	800
	HD q 2x32+2x25x200 (2x 40mm + 2x 29mm)	200	11,0	900
3x32 1x25	HD q 3x32+25x160 (3x 40mm + 29mm)	160	14,0	800
	HD q 3x32+25x200 (3x 40mm + 29mm)	200	11,5	900

\*Average heat emission in W/m:

- T flow: 75°C
- T return: 40 °C
- T enviromental: 5°C
- T  $\Delta$ : 52,5K

## Carrier pipe

Available types of pipes: **PEX, PEX/AL/PEX, PB, PERT, PERT/AL/PERT, others**

Applications: **heating, sanitary, industrial installations**

Technical parameters conform to the type

## Internal protection pipe

Type: **RIW**

Material: **polyethylene mod. (HDPE-mod.)**

Water vapour permeability: **minimum**

Mechanical strength: **500N**

Impact resistance: **2,0kg/100mm**

Chemical resistance: **excellent**

Colour: **red, blue, black**

## Insulation

Material: **Extended polyethylene closed cell foam (EPE)**

Produced without (H)CFC's

Density: **30kg/m<sup>3</sup>, +/- 10%**

Water vapour permeability: **3.170  $\mu$**

Water absorption: **B - 1%**

The minimum working temperature: **-45°C**

The maximum working temperature: **+95°C**

Chemical resistance: **excellent**

Flammability (reaction to fire): **Class F / E / D**

## Exterior protection pipe

Type: **RIW**

Material: **polyethylene mod. (HDPE-mod.)**

Water vapour permeability: **minimum**

Mechanical strength: **500N**

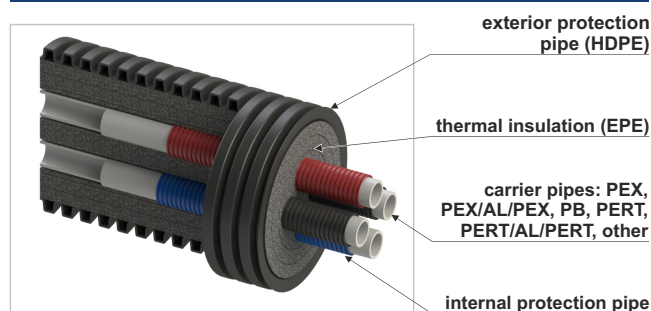
Impact resistance: **2,0kg/100mm**

Chemical resistance: **excellent**

UV resistance: **2 years**

Colour: **black**

## Pipe section



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The specification can be subject to change without notice.



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