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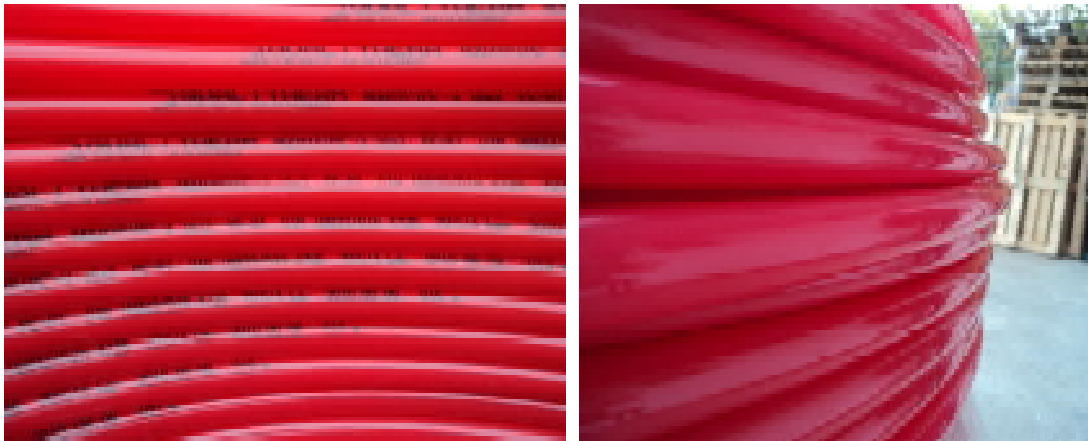


Certificat nr: 2015 C/2008

## Tubulatura pentru incalzire prin pardoseala

**QUALITERM** high quality pipe by **Tiemme** =PE-Xb EN ISO 15875= **Oxystop**  
EVOH DIN4726 =16x2,0 C= =Clase 5/8 bar= =PE max 6 bar a 95C=  
Made in Italy

### Under-floor heating pipe



**Standard:** DIN 16833 : 2001, DIN 16834 : 2001, DIN 4726 : 2000

#### Aplicatie:

Pentru sisteme de incalzire prin pardoseala, prin perete-tavan, sisteme de climatizare, incalzire cu radiatoare cu temperaturta scazuta a agentului termic

**/Application field:** Pipes are applicable for heating systems, like wall and under-floor heating, climate and heating systems with radiators of low temperature with the following network profiles (working temperature / pressure.)/

Wall and under-floor heating system, climate and radiator heating of low and high temperature: 95°C / 6 bar

Pipe's dimensions should be selected as a function of working temperature and pressure 12 bar./

Tubulatura este tripla stratificata, fiind prevazuta cu un strat exterior de protectie cu bariera de oxygen  
/ The three-layer pipeline have a protective layer preventing oxygen diffusion./

**Material:**

Polietilena de inalta densitate reticulata chimic cu calitati imbunatatite (PE-Xb)

/Polyethylene with hygh density chemical rethiculated increased heat-proof quality ( PE – Xb )/

**Executie /execution/:**

*Prin procesul de reticulare se modifica structura chimica a materialului, ceea ce duce la:*

- *cresterea temperaturii maxime de exercitiu*
- *reducerea deformarii sub presiunea greutatii*
- *cresterea rezistentei chimice*
- *cresterea rezistentei la razele UV*
- *cresterea rezistentei la abraziune si lovire*

During the rethiculation process the chemical structure of the material is modified generating:

- increase of working temperature
- smaller possibility of deformation under weighes
- increse of chemial resistance
- increase of resistance to UV sun rays
- increse to endurance mechanical actions

**Culoare /Colour/:**

Culoare proprie (alb-galbui), sau in functie de solicitarile beneficiarului

***In cazul concret al tubului QUALITHERM/ tubul este de culoare rosie cu suprafata extra fina si lucioasa***

self-colour  
or according to customers' requirements/

**Lungime role/Execution:**

Role de 300 m lungime, diametru estimativ 1-1,2 m

/in 300 metres long rolls/

**Dimensiuni fabricate/Nominal dimensions:**

**Tubulatura QUALITHERM pentru incalzire prin pardoseala se livreaza numai in diametrul de 16x2**

**Calitatea structurala a polietilenei utilizate in fabricatie:**

**/Structural properties of the polyethylene pipes with increased heat-proof quality:/**

**Tubul de baza /Basic pipe/:**

Polietilena de inalta densitate reticulata chimic cu calitati imbunatatite (PE-Xb) Polyethylene with high density chemical rethculated increased heat-proof quality ( PE – Xb )/

/The inner pipe is called, which is in direct connection with the heating-agent and meets the necessary requirements (lifetime, temperature, pressure, etc.)

**Material:** Polyethylene with high density chemical rethculated increased heat-proof quality ( PE – Xb )/

**Stratul exterior/Outer layer/:**

Strat de bariera de oxygen, care nu permite difuzia oxigenului

**Material:** Ethylene – vinyl-alcohol ( EVOH ) copolymer

**Stratul din mijloc/Middle layer/:**

Este un strat adeziv pentru aderenta stratului exterior de bariera de oxygen pe stratul de baza.

**Material:** special plastic polymer

Tripla stratificare este realizat in procesul tehnologic de productie, formand corp comun unitary, astfel incat aderenta straturilor este indestructibila.

**Proprietati de calitate/Quality properties/:**

**Material de baza/Raw material/:**

Etilen/octen copolymer cu calitati imbunatatite pentru incalzire.

/Ethylene-octen copolymer with increased heat-proof quality and high density,

**Produsul finit/Finished product/:**

**Dimensiuni/Dimension/:**

Dimensions and tolerances meets the requirements of Standard's prescription DIN 16834 : 2001.

By multi-layer pipe the wall thickness is related only to the basic pipe!

Grosime strat bariera oxygen /Thickness of preventing layer/: 0,08 mm

Grosime strat adeziv /Thickness of adhesive layer/: 0,04 mm

Grosimea celor doua straturi impreuna maxim /Thickness of preventing and adhesive layer together/: max. 0,12 mm

**Suprafata/Surface/:**

Suprafata extrafina lucioasa. Nu se permite existenta de zgarieturi pe suprafata tubulaturii.

/Smooth outer and inner surface. On the outer surface any scratches, which can be damaging the preventing layer are not permitted. On the inner surface some linear slight scratches, which developed during the production and does not influence the rigidity and lifetime of the pipe can be permitted./

**Raza de indoire/Bending radius/:** min. 5 d

**Gradul de difuzie a oxigenului/Degree of Oxygen diffusion/ :** mai putin de /less, than/ 0,1 g/m<sup>3</sup>/day

**Coefficient linear de dilatare termica/Linear coefficient of thermal expansion/:** according to Standard DIN 52612:  $1,95 \exp - 4 / k$

**Mod de utilizare, exploatare:**

**/Application guide/:**

Cu conditia respectarii parametrilor tehnici de exploatare in sisteme de incalzire cu temperature maxima de 70C si 4 bari, eventual cu expunere pentru scurta perioada la temperature egentului termic de 100C, durata de viata estimate a tubulaturii este de 50 ani.

/- The working parameters of the heating systems cannot exceed the 70°C, 4 bar. For a short period of time the pipe wears out the temperature of 100 C. In these circumstances the expecting lifetime of the pipe is 50 years according to DIN 16834./

**PRODUCATOR:**

Producatorul tubulaturii este TIEMME RACCORDERIE Spa, 25045 Castegnato, (BS) via Cavallera 6/A, ITALIA tel. 00390302142211, fax. 00390302142206

Produs EXCLUSIV Pentru QUALITERM SRL

ROMANIA, Tg. Mureş, Str. Paul Chinezu Nr.10, tel/fax.: 00 40 265 267895,

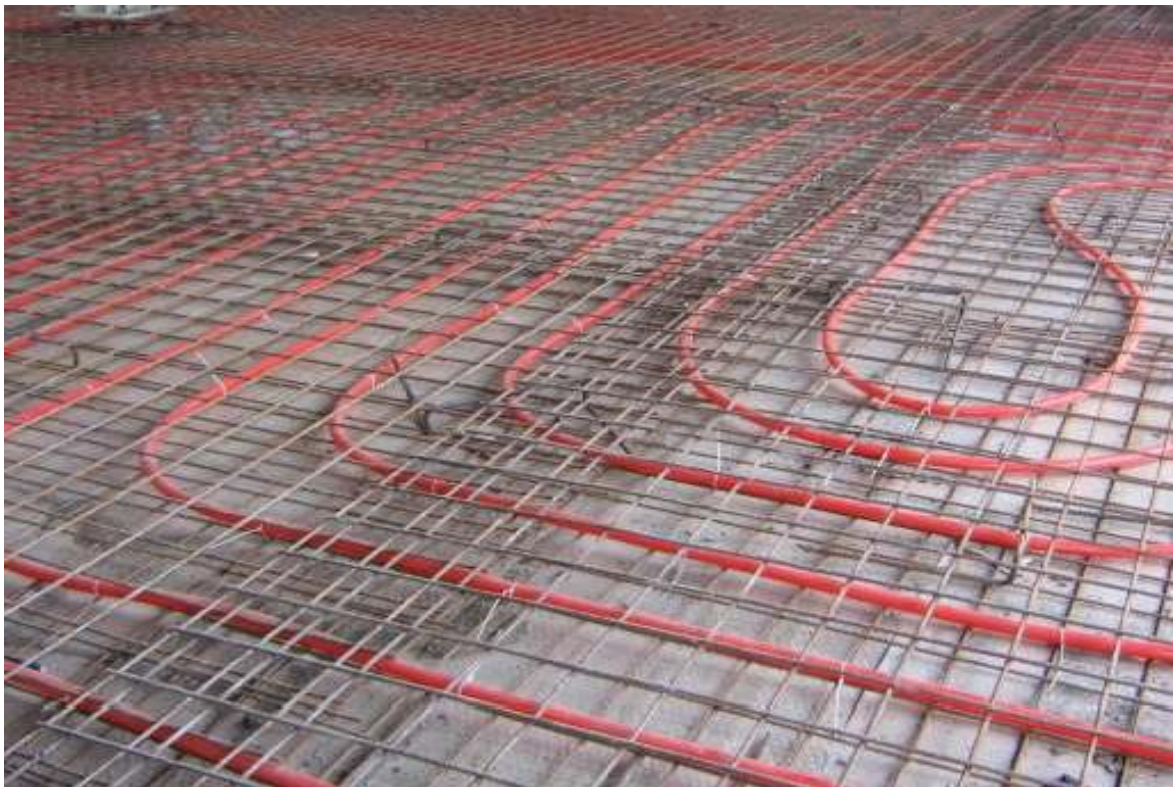
**LUCRARI, CALITATE, FIABILITATE, SATISFACTIE TOTALA**

QUALITERM (LAING) liveaza pe piata din Romania inca din 1993 sisteme de incalzire prin pardoseala la biserici, institutii publice, sali de sport, care functioneaza si astazi impecabil. Dupa 2003 odata cu dezvoltarea constructiilor private au aparut tot mai multe solicitari pentru case familiale, vile, case de vacanta, sedii de firme, hale industriale, statii de carburanti, showroomuri auto.

Instalatiile de incalzire prin pardoseala QUALITERM (LAING) montate in Romania pot fi estimate la peste 500.000 mp, montate la aproximativ 2300 de obiective.

QUALITERM in calitate de Reprezentanta LAING pe Romania, detonator al marcii inregistrate LAING, asigura furnizarea echipamentelor si materialelor, proiectarea si montarea instalatiilor, precum si punerea in functiune si garantia acestora.

Sistemele QUALITERM au o garantie de 10 ani.





**CONTACT:**

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