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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Heating range  **CALPEX PUR KING** district heating pipe, heating, suitable up to max. 95°C (sliding) and 6 bar, longitudinally watertight, consisting of: **Medium pipe:** made of cross-linked polyethylene (PEXa) with oxygen diffusion barrier (EVOH) Insulation: made of continuously manufactured CFC-free, polyurethane foam with following -values: CPX PUR-KING: 50 ≤ 0.0199 W/mK (≤ Ø 142 mm) CPX PUR-KING: 50 ≤ 0.0260 W/mK (> Ø 202mm) **Outer casing:** sinusoidally corrugated, seamlessly extruded-on polyethylene (LLD-PE) outer casing, including factory test. Delivery on drums or in rings.  Single pipe, CALPEX UNO  cont. m CALPEX PUR-KING 25/76  cont. m CALPEX PUR-KING 25/91 PLUS  cont. m CALPEX PUR-KING 32/76  cont. m CALPEX PUR-KING 32/91 PLUS  cont. m CALPEX PUR-KING 40/91  cont. m CALPEX PUR-KING 40/111 PLUS  cont. m CALPEX PUR-KING 50/111  cont. m CALPEX PUR-KING 50/126 PLUS  cont. m CALPEX PUR-KING 63/126  cont. m CALPEX PUR-KING 63/142 PLUS  cont. m CALPEX PUR-KING 75/142  cont. m CALPEX PUR-KING 75/162 PLUS  cont. m CALPEX PUR-KING 90/162  cont. m CALPEX PUR-KING 90/182 PLUS  cont. m CALPEX PUR-KING 110/162  cont. m CALPEX PUR-KING 110/182 PLUS  cont. m CALPEX PUR-KING 110/202 PLUS\*\* |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | cont. m CALPEX PUR-KING 125/182  cont. m CALPEX PUR-KING 125/202 PLUS\*\*  cont. m CALPEX PUR-KING 140/202  cont. m CALPEX 160/250 (only available in bars 6 or 12 m)  Dual pipe, CALPEX-**DUO**  cont. m CALPEX PUR-KING 2 x 25/91  cont. m CALPEX PUR-KING 2 x 25/111 PLUS  cont. m CALPEX PUR-KING 2 x 32/111  cont. m CALPEX PUR-KING 2 x 32/126 PLUS  cont. m CALPEX PUR-KING 2 x 40/126  cont. m CALPEX PUR-KING 2 x 40/142 PLUS  cont. m CALPEX PUR-KING 2 x 50/162  cont. m CALPEX PUR-KING 2 x 50/182 PLUS  cont. m CALPEX PUR-KING 2 x 63/182  cont. m CALPEX PUR-KING 2 x 63/202 PLUS\*\*  cont. m CALPEX PUR-KING 2 x 75/202 PLUS\*\*  \*\*delivery on request  Combined range for heating/sanitary  Quadriple pipe, CALPEX-QUADRIGA  cont. m CALPEX H 25+25/S 28+22/142  cont. m CALPEX H 32+32/S 28+22/142  cont. m CALPEX H 32+32/S 32+22/142  cont. m CALPEX H 40+40/S 40+28/162  Dual pipe, CALPEX-**DUO**  cont. m CALPEX PUR-KING 2 x 25/91  cont. m CALPEX PUR-KING 2 x 25/111 PLUS  cont. m CALPEX PUR-KING 2 x 32/111  cont. m CALPEX PUR-KING 2 x 32/126 PLUS  cont. m CALPEX PUR-KING 2 x 40/126  cont. m CALPEX PUR-KING 2 x 40/142 PLUS  cont. m CALPEX PUR-KING 2 x 50/162  cont. m CALPEX PUR-KING 2 x 50/182 PLUS  cont. m CALPEX PUR-KING 2 x 63/182  cont. m CALPEX PUR-KING 2 x 63/202 PLUS\*\*  cont. m CALPEX PUR-KING 2 x 75/202 PLUS\*\*  \*\*delivery on request  Combined range for heating/sanitary  Quadriple pipe, CALPEX-QUADRIGA  cont. m CALPEX H 25+25/S 28+22/142  cont. m CALPEX H 32+32/S 28+22/142  cont. m CALPEX H 32+32/S 32+22/142  cont. m CALPEX H 40+40/S 40+28/162 |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEXhouse entry bend, 90°  Flank length 1.1 x 1.6 m, longitudinally watertight medium pipe made of cross-linked polyethylene (PEXa) with oxygen diffusion barrier (EVOH), insulation made of 100% CFC-free CO2-blown rigid polyurethane foam, PE foil and protective casing made of PE-HD.  Bend, CALPEX UNO  Unit: CALPEX 25/76  Unit: CALPEX 25/91 PLUS  Unit: CALPEX 32/76  Unit: CALPEX 32/91 PLUS  Unit: CALPEX 40/91  Unit: CALPEX 40/111 PLUS  Unit: CALPEX 50/111  Unit: CALPEX 50/126 PLUS  Unit: CALPEX 63/126  Unit: CALPEX 63/142 PLUS  Unit: CALPEX 75/142  Unit: CALPEX 75/162 PLUS  Unit: CALPEX 90/162  Unit: CALPEX 90/182 PLUS  Unit: CALPEX 110/162  Unit: CALPEX 110/182 PLUS  Unit: CALPEX 110/202 PLUS  Unit: CALPEX 125/182  Unit: CALPEX 125/202 PLUS  Unit: CALPEX 140/225  Unit: CALPEX 160/250 |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Bend, CALPEX-DUO  Unit: CALPEX 2 x 25/91  Unit: CALPEX 2 x 25/111 PLUS  Unit: CALPEX 2 x 32/111  Unit: CALPEX 2 x 32/126 PLUS  Unit: CALPEX 2 x 40/126  Unit: CALPEX 2 x 40/142 PLUS  Unit: CALPEX 2 x 50/162  Unit: CALPEX 2 x 50/182 PLUS  Unit: CALPEX 2 x 63/182  Unit: CALPEX 2 x 63/202 PLUS  Unit: CALPEX 2 x 75/202 PLUS  Bend, CALPEX -QUADRIGA  Unit: CALPEX H 25+25/S 28+22/142  Heating 2 x DN 20/San. DN 20+16  Unit: CALPEX H 32+32/S 28+22/142  Heating 2 x DN 25/San. DN 20+16  Unit: CALPEX H32+32/S 32+22/142  Heating 2 x DN 25/San. DN 25+16  Unit: CALPEX H 40+40/S 40+28/162  Heating 2 x DN 32/San DN 32+20  CALPEX connection piece (screwed connection)  To connect onward pipes  PEX connection piece (screwed connection)  With external thread suitable for:  Unit: PEX 25 mm  Unit: PEX 32 mm  Unit: PEX 40 mm  Unit: PEX 50 mm  Unit: PEX 63 mm  Unit: PEX 75 mm  Unit: PEX 90 mm  Unit: PEX 110 mm |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX connection piece (screwed connection)  With weld-on end in steel, St 37.0 suitable for:  Unit: PEX 25 mm  Unit: PEX 32 mm  Unit: PEX 40 mm  Unit: PEX 50 mm  Unit: PEX 63 mm  Unit: PEX 75 mm  Unit: PEX 90 mm  Unit: PEX 110 mm  CALPEX connection piece (compression joint)  With external thread suitable for:  Unit: PEX 25 mm  Unit: PEX 32 mm  Unit: PEX 40 mm  Unit: PEX 50 mm  Unit: PEX 63 mm  Unit: PEX 75 mm  Unit: PEX 90 mm  Unit: PEX 110 mm  Unit: PEX 125 mm  Unit: PEX 160 mm |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX connection piece (compression joint)  With weld-on end in steel, St 37.0 suitable for:  Unit: PEX 25 mm  Unit: PEX 32 mm  Unit: PEX 40 mm  Unit: PEX 50 mm  Unit: PEX 63 mm  Unit: PEX 75 mm  Unit: PEX 90 mm  Unit: PEX 110 mm  Unit: PEX 125 mm  Unit: PEX 160 mm  CALPEX coupling (screwed connection)  To connect two CALPEX district heating pipes (without insulating material) suitable for:  Unit: PEX 25 mm to 25 mm  Unit: PEX 32 mm to 25 mm  Unit: PEX 32 mm to 32 mm  Unit: PEX 40 mm to 32 mm  Unit: PEX 40 mm to 40 mm  Unit: PEX 50 mm to 40 mm  Unit: PEX 50 mm to 50 mm  Unit: PEX 63 mm to 50 mm  Unit: PEX 63 mm to 63 mm  Unit: PEX 75 mm to 63 mm  Unit: PEX 75 mm to 75 mm  Unit: PEX 90 mm to 75 mm  Unit: PEX 90 mm to 90 mm  Unit: PEX 110 mm to 90 mm  Unit: PEX 110 mm to 110 mm |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX coupling (compression joint)  Unit: PEX 25 mm to PEX 25 mm  Unit: PEX 32 mm to PEX 25 mm  Unit: PEX 32 mm to PEX 32 mm  Unit: PEX 40 mm to PEX 32 mm  Unit: PEX 40 mm to PEX 40 mm  Unit: PEX 50 mm to PEX 40 mm  Unit: PEX 50 mm to PEX 50 mm  Unit: PEX 63 mm to PEX 50 mm  Unit: PEX 63 mm to PEX 63 mm  Unit: PEX 75 mm to PEX 63 mm  Unit: PEX 75 mm to PEX 75 mm  Unit: PEX 90 mm to PEX 75 mm  Unit: PEX 90 mm to PEX 90 mm  Unit: PEX 110 mm to PEX 90 mm  Unit: PEX 110 mm to PEX 110 mm  Unit: PEX 125 mm to PEX 110 mm  Unit: PEX 125 mm to PEX 125 mm  Unit: PEX 160 mm to PEX 125 mm  Unit: PEX 160 mm to PEX 160 mm |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX shrink-on end cap for damp zones  Heat-shrunk closure for house lead-ins, consisting of:  molecular cross-links and modified polyolefin, coated with sealing adhesive with temperature resistance up to 125°C, including temperature measurement strip and abrasive strip  Shrink-on end cap for CALPEX UNO  suitable for:  Unit: CALPEX 25/76  Unit: CALPEX 32/76  Unit: CALPEX 40/91  Unit: CALPEX 50/111  Unit: CALPEX 63/126  Unit: CALPEX 75/142  Unit: CALPEX 90/162  Unit: CALPEX 110/162  Unit: CALPEX 110/182 Plus  Unit: CALPEX 125/182  Unit: CALPEX 160/250 DN 125 |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Shrink-on end cap for CALPEX-DUO  Unit: CALPEX 2x 25/91 DN 20  Unit: CALPEX 2x 32/111 DN 25  Unit: CALPEX 2x 40/126 DN 32  Unit: CALPEX 2x 50/162 DN 40  Unit: CALPEX 2x 63/182 DN 50  Shrink-on end cap for CALPEX-QUADRIGA  Unit: CALPEX H 25+25/S 28+22/142  Unit: CALPEX H 32+32/S 28+22/142  Unit: CALPEX H 32+32/S 32+22/142  Unit: CALPEX H 40+40/S 40+28/162  CALPEX end cap for dry zones  Closure for house lead-ins, consisting of:  plug-on cap made of PE-LD  End cap for CALPEX UNO  Unit: CALPEX 25/76  Unit: CALPEX 32/76  Unit: CALPEX 40/91  Unit: CALPEX 50/111  Unit: CALPEX 63/126  Unit: CALPEX 75/142  Unit: CALPEX 90/162  Unit: CALPEX 110/162  Unit: CALPEX 110/182 Plus DN 100 |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | End cap for CALPEX-DUO  Unit: CALPEX 2x 25/91  Unit: CALPEX 2x 32/111  Unit: CALPEX 2x 40/126  Unit: CALPEX 2x 50/162  Unit: CALPEX 2x 63/182  End cap for CALPEX-QUADRIGA  Unit: CALPEX H 25+25/S 28+22/142  Unit: CALPEX H 32+32/S 28+22/142  Unit: CALPEX H 32+32/S 32+22/142  Unit: CALPEX H 40+40/S 40+28/162  CALPEX sealing ring  Comprising a specially profiled neoprene ring  suitable for:  Unit: outer pipe 76 mm  Unit: outer pipe 91 mm  Unit: outer pipe 111 mm  Unit: outer pipe 126 mm  Unit: outer pipe 142 mm  Unit: outer pipe 162 mm  Unit: outer pipe 182 mm  Unit: outer pipe 250 mm |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Sealing ring for wall leadthrough for CALPEX district heating pipe in buildings or shafts, impermeable to water pressure < 0.5 bar, seal insert type A (centering) and type C40 (sealing) for core bore or cement pipe liners. The pipe liner must be provided and installed by the customer or others.  Unit: for CALPEX outer pipe ∅ 76 mm  core bore ∅ 150 mm  Unit: for CALPEX outer pipe ∅ 91 mm  core bore ∅ 150 mm  Unit: for CALPEX outer pipe ∅ 111 mm  core bore ∅ 200 mm  Unit: for CALPEX outer pipe ∅ 126 mm  core bore ∅ 200 mm  Unit: for CALPEX outer pipe ∅ 142 mm  core bore ∅ 200 mm  Unit: for CALPEX outer pipe ∅ 162 mm  core bore ∅ 250 mm  Unit: for CALPEX outer pipe ∅ 182 mm  core bore ∅ 250 mm  Unit: for CALPEX outer pipe ∅ 250 mm  core bore ∅ 350 mm |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX pipe warning tape  printed with the words "Caution! District heating pipe!"  m warning tape  CALPEXUNO T-piece  For PEX pipes (without insulating material) up to multiple-stage reductions, suitable for:  CALPEX UNO T-piece: (screwed connection)  Unit: PEX 22-22-22 mm  Unit: PEX 25-25-25 mm  Unit: PEX 28-28-28 mm  Unit: PEX 32-32-32 mm  Unit: PEX 32-28-32 mm  Unit: PEX 32-25-32 mm  Unit: PEX 32-22-32 mm  Unit: PEX 32-28-28 mm  Unit: PEX 32-25-25 mm  Unit: PEX 40-40-40 mm  Unit: PEX 40-32-40 mm  Unit: PEX 40-28-40 mm  Unit: PEX 40-25-40 mm  Unit: PEX 40-22-40 mm  Unit: PEX 40-32-32 mm  Unit: PEX 40-28-32 mm  Unit: PEX 40-25-32 mm  Unit: PEX 40-22-32 mm  Unit: PEX 50-50-50 mm  Unit: PEX 50-40-50 mm  Unit: PEX 50-32-50 mm  Unit: PEX 50-28-50 mm  Unit: PEX 50-25-50 mm  Unit: PEX 50-22-50 mm  Unit: PEX 50-40-40 mm  Unit: PEX 50-32-40 mm  Unit: PEX 50-28-40 mm  Unit: PEX 50-25-40 mm  Unit: PEX 50-22-40 mm |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Unit: PEX 63-63-63 mm  Unit: PEX 63-50-63 mm  Unit: PEX 63-40-63 mm  Unit: PEX 63-32-63 mm  Unit: PEX 63-28-63 mm  Unit: PEX 63-25-63 mm  Unit: PEX 63-22-63 mm  Unit: PEX 63-50-50 mm  Unit: PEX 63-40-50 mm  Unit: PEX 63-32-50 mm  Unit: PEX 63-28-50 mm  Unit: PEX 63-25-50 mm  Unit: PEX 63-22-50 mm  Unit: PEX 75-75-75 mm  Unit: PEX 75-63-75 mm  Unit: PEX 75-50-75 mm  Unit: PEX 75-40-75 mm  Unit: PEX 75-32-75 mm  Unit: PEX 75-28-75 mm  Unit: PEX 75-25-75 mm  Unit: PEX 75-22-75 mm  Unit: PEX 75-63-63 mm  Unit: PEX 75-50-63 mm  Unit: PEX 75-40-63 mm  Unit: PEX 75-32-63 mm  Unit: PEX 75-28-63 mm  Unit: PEX 75-25-63 mm  Unit: PEX 75-22-63 mm  Unit: PEX 90-90-90 mm  Unit: PEX 90-75-90 mm  Unit: PEX 90-63-90 mm  Unit: PEX 90-50-90 mm  Unit: PEX 90-40-90 mm  Unit: PEX 90-32-90 mm  Unit: PEX 90-28-90 mm  Unit: PEX 90-25-90 mm  Unit: PEX 90-22-90 mm  Unit: PEX 90-75-75 mm  Unit: PEX 90-63-75 mm  Unit: PEX 90-50-75 mm  Unit: PEX 90-40-75 mm  Unit: PEX 90-32-75 mm  Unit: PEX 90-28-75 mm  Unit: PEX 90-25-75 mm |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Unit: PEX 110-110-110 mm  Unit: PEX 110-90-110 mm  Unit: PEX 110-75-110 mm  Unit: PEX 110-63-110 mm  Unit: PEX 110-50-110 mm  Unit: PEX 110-40-110 mm  Unit: PEX 110-32-110 mm  Unit: PEX 110-28-110 mm  Unit: PEX 110-25-110 mm  Unit: PEX 110-22-110 mm  Unit: PEX 110-90-90 mm  Unit: PEX 110-75-90 mm  Unit: PEX 110-63-90 mm  Unit: PEX 110-50-90 mm  Unit: PEX 110-40-90 mm  Unit: PEX 110-32-90 mm  Unit: PEX 110-28-90 mm  Unit: PEX 110-25-90 mm  Unit: PEX 110-22-90 mm  CALPEX UNO T-piece: (compression joint)  Unit: PEX 22-22-22 mm  Unit: PEX 25-25-25 mm  Unit: PEX 28-28-28 mm  Unit: PEX 32-32-32 mm  Unit: PEX 32-28-32 mm  Unit: PEX 32-25-32 mm  Unit: PEX 32-22-32 mm  Unit: PEX 32-28-28 mm  Unit: PEX 32-25-25 mm  Unit: PEX 40-40-40 mm  Unit: PEX 40-32-40 mm  Unit: PEX 40-28-40 mm  Unit: PEX 40-25-40 mm  Unit: PEX 40-22-40 mm  Unit: PEX 40-32-32 mm  Unit: PEX 40-28-32 mm  Unit: PEX 40-25-32 mm |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Unit: PEX 50-50-50 mm  Unit: PEX 50-40-50 mm  Unit: PEX 50-32-50 mm  Unit: PEX 50-28-50 mm  Unit: PEX 50-25-50 mm  Unit: PEX 50-22-50 mm  Unit: PEX 50-40-40 mm  Unit: PEX 50-32-40 mm  Unit: PEX 50-28-40 mm  Unit: PEX 50-25-40 mm  Unit: PEX 50-22-40 mm  Unit: PEX 63-63-63 mm  Unit: PEX 63-50-63 mm  Unit: PEX 63-40-63 mm  Unit: PEX 63-32-63 mm  Unit: PEX 63-28-63 mm  Unit: PEX 63-25-63 mm  Unit: PEX 63-22-63 mm  Unit: PEX 63-50-50 mm  Unit: PEX 63-40-50 mm  Unit: PEX 63-32-50 mm  Unit: PEX 63-28-50 mm  Unit: PEX 63-25-50 mm  Unit: PEX 63-22-50 mm  Unit: PEX 75-75-75 mm  Unit: PEX 75-63-75 mm  Unit: PEX 75-50-75 mm  Unit: PEX 75-40-75 mm  Unit: PEX 75-32-75 mm  Unit: PEX 75-28-75 mm  Unit: PEX 75-25-75 mm  Unit: PEX 75-22-75 mm  Unit: PEX 75-63-63 mm  Unit: PEX 75-50-63 mm  Unit: PEX 75-40-63 mm  Unit: PEX 75-32-63 mm  Unit: PEX 75-28-63 mm  Unit: PEX 75-25-63 mm  Unit: PEX 75-22-63 mm |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Unit: PEX 90-90-90 mm  Unit: PEX 90-75-90 mm  Unit: PEX 90-63-90 mm  Unit: PEX 90-50-90 mm  Unit: PEX 90-40-90 mm  Unit: PEX 90-32-90 mm  Unit: PEX 90-28-90 mm  Unit: PEX 90-25-90 mm  Unit: PEX 90-22-90 mm  Unit: PEX 90-75-75 mm  Unit: PEX 90-63-75 mm  Unit: PEX 90-50-75 mm  Unit: PEX 90-40-75 mm  Unit: PEX 90-32-75 mm  Unit: PEX 90-28-75 mm  Unit: PEX 90-25-75 mm  Unit: PEX 90-22-75 mm  Unit: PEX 110-110-110 mm  Unit: PEX 110-90-110 mm  Unit: PEX 110-75-110 mm  Unit: PEX 110-63-110 mm  Unit: PEX 110-50-110 mm  Unit: PEX 110-40-110 mm  Unit: PEX 110-32-110 mm  Unit: PEX 110-28-110 mm  Unit: PEX 110-25-110 mm  Unit: PEX 110-22-110 mm  Unit: PEX 110-90-90 mm  Unit: PEX 110-75-90 mm  Unit: PEX 110-63-90 mm  Unit: PEX 110-50-90 mm  Unit: PEX 110-40-90 mm  Unit: PEX 110-32-90 mm  Unit: PEX 110-28-90 mm  Unit: PEX 110-25-90 mm  Unit: PEX 110-22-90 mm  Unit: PEX 125-125-125 mm\*  Unit: PEX 125-110-125 mm\*  Unit: PEX 125-90-125 mm\*  Unit: PEX 125-75-125 mm\*  Unit: PEX 125-63-125 mm\*  Unit: PEX 125-50-125 mm\*  Unit: PEX 125-40-125 mm\*  Unit: PEX 125-32-125 mm\*  Unit: PEX 125-25-125 mm\* |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Unit: PEX 160-160-160 mm\*  Unit: PEX 160-125-160 mm\*  Unit: PEX 160-110-160 mm\*  Unit: PEX 160-90-160 mm\*  Unit: PEX 160-75-160 mm\*  Unit: PEX 160-63-160 mm\*  Unit: PEX 160-50-160 mm\*  Unit: PEX 160-40-160 mm\*  Unit: PEX 160-32-160 mm\*  Unit: PEX 160-25-160 mm\*  \* Dimensions 125 mm and 160 mm are  delivered fully pre-insulated  CALPEX Y-pipe  Pre-insulated longitudinally watertight connecting element between two single pipes and one CALPEX-DUO pipe. CALPEX -DUO to CALPEX UNO medium pipe (PE-Xa) suitable for:  Unit: 25+25/91 to 1 x 25/76 ea.  Unit: 32+32/111 to 1x 32/76 ea.  Unit: 40+40/126 to 1 x 40/91 ea.  Unit: 50+50/162 to 1 x 50/111 ea.  Unit: 63+63/182 to 1 x 63/126 ea. |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX Y-pipe plastic casing pipe  Plastic casing pipe to CALPEX-DUO  Medium pipe in steel, St 37.0  suitable for:  Unit: 2 x 26.9-110 to 25+25/91 (reduction joint)  Unit: 2 x 33.7-110 to 32+32/111  Unit: 2 x 42.4-125 to 40+40/126  Unit: 2 x 48.3-125 to 50+50/162  Unit: 2 x 60.3-140 to 63+63/182  Tool for rent for compression connector  Dimensions: ø 22 – 40 mm  Tool for dimensions DN 16 – 32, consisting of: tool box, opening/widening tool and compression tool    Unit  Tool set for rent for compression connector  Dimensions: ø 50 – 110 mm  Set consisting of: 2 tool boxes  1 tool box with opening/widening tool, DN 40 - 100  1 tool box with compression tool, DN 40 - 100  Both tool boxes are needed  1 Set  Tool set for rent for compression connector  Dimensions: ø 125 – 160 mm  Set consisting of: 2 tool boxes  1 tool box with opening/widening tool, DN 125 - 160  1 tool box with compression tool, DN 125 - 160  Both tool boxes are needed  1 Set |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Sanitary  CALPEX district heating pipe, sanitary standard  Suitable up to max. 95°C (sliding) and 10 bar, longitudinally watertight, consisting of: medium pipe made of cross-linked polyethylene (PE-Xa) with oxygen diffusion barrier (EVOH), insulation made of continuously manufactured CFC-free, CO2-blown flexible rigid polyurethane foam, PE foil and a sinusoidally corrugated, seamlessly extruded-on polyethylene (LLD-PE) outer casing, including factory test. Delivery on drums or in rings.  Single pipe, CALPEX UNO  cont. m CALPEX 22/76 DN 16  cont. m CALPEX 28/76 DN 20  cont. m CALPEX 32/76 DN 25  cont. m CALPEX 40/91 DN 32  cont. m CALPEX 50/111 DN 40  cont. m CALPEX 63/126 DN 50  Dual pipe, CALPEX-DUO  cont. m CALPEX 28+22/91 DN 20+16  cont. m CALPEX 32+22/111 DN 25+16  cont. m CALPEX 40+28/126 DN 32+20  cont. m CALPEX 50+32/126 DN 40+25 |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX district heating pipe, sanitary, with heating strip conduit for hot water tracing or frost protection  Suitable up to max. 95°C (sliding) and 10 bar, longitudinally watertight, consisting of medium pipe made of cross-linked polyethylene (PE-Xa) with oxygen diffusion barrier (EVOH), foamed-in heating strip conduit, insulation made of continuously manufactured CFC-free, CO2 -blown flexible rigid polyurethane foam, PE foil and a sinusoidally corrugated, seamlessly extruded-on polyethylene (LLD-PE) outer casing, including factory test.  Delivery on drums or in rings.  Single pipe, CALPEX UNO with heating strip cable  cont. m CALPEX 32/111 DN 25  cont. m CALPEX 40/126 DN 32  cont. m CALPEX 50/126 DN 40  CALPEXhouse entry bend, 90°  Flank length 1.1 x 1.6 m, longitudinally watertight,  medium pipe made of cross-linked polyethylene (PE-Xa) with oxygen diffusion barrier (EVOH), insulation made of 100% CFC-free CO2-blown rigid polyurethane foam, PE foil and protective casing made of PE-HD.  Bend, CALPEX UNO  Unit: CALPEX 22/76 DN 16  Unit: CALPEX 28/76 DN 20  Unit: CALPEX 32/76 DN 25  Unit: CALPEX 40/91 DN 32  Unit: CALPEX 50/111 DN 40  Unit: CALPEX 63/126 DN 50  Bend, CALPEX Duo  Unit: CALPEX 28+22/91 DN 20+16  Unit: CALPEX 32+22/111 DN 25+16  Unit: CALPEX 40+28/126 DN 32+20  Unit: CALPEX 50+126 DN 40+25 |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX connection piece  To connect onward pipes  PEX connection piece (screwed connection)  With external thread  suitable for:  Unit: PEX 22 mm  Unit: PEX 28 mm  Unit: PEX 32 mm  Unit: PEX 40 mm  Unit: PEX 50 mm  Unit: PEX 63 mm  PEX connection piece (screwed connection)  With weld-on end in steel, St 37.0  suitable for:  Unit: PEX 22 mm  Unit: PEX 28 mm  PEX connection piece (compression joint)  With external thread suitable for:  Unit: PEX 22 mm  Unit: PEX 28 mm  Unit: PEX 32 mm  Unit: PEX 40 mm  Unit: PEX 50 mm  Unit: PEX 63 mm |  |  |

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|  |  | PEX connection piece (compression joint)  With weld-on end in steel, St 37.0  suitable for:  Unit: PEX 22 mm  Unit: PEX 28 mm  CALPEX coupling  To connect two CALPEX district heating pipes (without insulating material) suitable for:  CALPEX coupling (screwed connection)  Unit: PEX 22 mm to PEX 22 mm  Unit: PEX 28 mm to PEX 28 mm  Unit: PEX 32 mm to PEX 28 mm  Unit: PEX 32 mm to PEX 32 mm  Unit: PEX 40 mm to PEX 32 mm  Unit: PEX 40 mm to PEX 40 mm  Unit: PEX 50 mm to PEX 40 mm  Unit: PEX 50 mm to PEX 50 mm  Unit: PEX 63 mm to PEX 50 mm  Unit: PEX 63 mm to PEX 63 mm  CALPEX coupling (compression joint)  Unit: PEX 22 mm to PEX 22 mm  Unit: PEX 28 mm to PEX 28 mm  Unit: PEX 32 mm to PEX 28 mm  Unit: PEX 32 mm to PEX 32 mm  Unit: PEX 40 mm to PEX 32 mm  Unit: PEX 40 mm to PEX 40 mm  Unit: PEX 50 mm to PEX 40 mm  Unit: PEX 50 mm to PEX 50 mm  Unit: PEX 63 mm to PEX 50 mm  Unit: PEX 63 mm to PEX 63 mm |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX shrink-on end cap for damp zones  Heat-shrunk closure for house installations, consisting of:  molecular cross-linked and modified polyolefin, coated with sealing adhesive with temperature resistance up to 125° C. Including temperature measuring strip and abrasive strip.  Shrink-on end cap for CALPEX UNO  suitable for:  Unit: CALPEX 22/76  Unit: CALPEX 28/76  Unit: CALPEX 32/76  Unit: CALPEX 32/111  Unit: CALPEX 40/91  Unit: CALPEX 40/126  Unit: CALPEX 50/111  Unit: CALPEX 50/126  Unit: CALPEX 63/126  Shrink-on end cap for CALPEX-DUO  suitable for:  Unit: CALPEX 28+22/91  Unit: CALPEX 32+22/111  Unit: CALPEX 40+28/126  Unit: CALPEX 50+32/126 |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX end cap for dry zones  Closure for house lead-ins  Comprising: plug-on cap made of PE-LD  End cap for CALPEX UNO  suitable for:  Unit: CALPEX 22/76  Unit: CALPEX 28/76  Unit: CALPEX 32/76  Unit: CALPEX 32/111  Unit: CALPEX 40/91  Unit: CALPEX 40/126  Unit: CALPEX 50/111  Unit: CALPEX 50/126  Unit: CALPEX 63/126  End cap for CALPEX-DUO  suitable for:  Unit: CALPEX 28+22/91  Unit: CALPEX 32+22/111  Unit: CALPEX 40+28/126  Unit: CALPEX 50+32/126 |  |  |

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|  |  | CALPEX sealing ring  Comprising a specially profiled neoprene ring, suitable for:  Unit: outer pipe 76 mm  Unit: outer pipe 91 mm  Unit: outer pipe 111 mm  Unit: outer pipe 126 mm  Sealing ring for wall leadthrough for CALPEX district heating pipe in buildings or shafts, impermeable to water pressure < 0.5 bar, available as seal insert type A (centering) and type C40 (sealing) for core bore or cement pipe liners. The pipe liner must be provided and installed by the customer or others.  Unit: for CALPEX outer pipe ∅ 76 mm  core bore ∅ 150 mm  Unit: for CALPEX outer pipe ∅ 91 mm  core bore ∅ 150 mm  Unit: for CALPEX outer pipe ∅ 111 mm  core bore ∅ 200 mm  Unit: for CALPEX outer pipe ∅ 126 mm  core bore ∅ 200 mm  CALPEXpipe warning tape  printed with the words "Caution! District heating pipe!"  m warning tape |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEXUNO T-piece  In brass, for PEX pipes (without insulating material) up to multiple-stage reductions, suitable for:  On request:  Tool for rent for compression connector  Dimensions: ø 22 – 40 mm  Tool for dimensions DN 16 – 32, consisting of: tool box, opening/widening tool and compression tool    Unit  Tool set for rent for compression connector  Dimensions: ø 50 – 110 mm  Set consisting of: 2 tool boxes  1 tool box with opening/widening tool, DN 40 - 100  1 tool box with compression tool, DN 40 - 100  Both tool boxes are needed  1 Set  Tool set for rent for compression connector  Dimensions: ø 125 – 160 mm  Set consisting of: 2 tool boxes  1 tool box with opening/widening tool, DN 125 - 150  1 tool box with compression tool, DN 125 - 150  Both tool boxes are needed  1 Set |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX joint set  Type CALPEX-CALPEX  For 6 and 10 bar pipes, with PE foam, consisting of: one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves and one abrasive strip.  Joint set, CPX-CPX for CALPEX UNO with PE foam, suitable for:  Unit: outer pipe 76 mm to 76 mm  Unit: outer pipe 91 mm to 91 mm  Unit: outer pipe 91 mm to 76 mm  Unit: outer pipe 111 mm to 111 mm  Unit: outer pipe 111 mm to 91 mm  Unit: outer pipe 126 mm to 126 mm  Unit: outer pipe 126 mm to 111 mm  Unit: outer pipe 142 mm to 142 mm  Unit: outer pipe 142 mm to 126 mm  Unit: outer pipe 162 mm to 162 mm  Unit: Outer pipe, 162 mm to 142 mm  Unit: outer pipe 182 mm to 182 mm  Unit: outer pipe 182 mm to 162 mm |  |  |

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|  |  | Joint set, CPX-CPX for CALPEX-DUO with PE foam, suitable for:  Unit: outer pipe 91 mm to 91 mm  Unit: outer pipe 111 mm to 111 mm  Unit: outer pipe 111 mm to 91 mm  Unit: outer pipe 126 mm to 126 mm  Unit: outer pipe 126 mm to 111 mm  Unit: outer pipe 142 mm to 142 mm  Unit: outer pipe 142 mm to 126 mm  Unit: outer pipe 162 mm to 162 mm  Unit: outer pipe 162 mm to 142 mm  Unit: outer pipe 182 mm to 182 mm  Unit: outer pipe 182 mm to 162 mm |  |  |

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|  |  | CALPEX joint set  Type CALPEX - plastic casing pipe (PCP)  For 6 and 10 bar pipes, with PE foam,  consisting of:  one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves, PE foam and one abrasive strip.  Joint set, CPX-PCP  for single pipe with PE foam, suitable for:  Unit: outer pipe 91 mm to 76 mm  Unit: outer pipe 76 mm to 90 mm  Unit: outer pipe 76mm to 110 mm  Unit: outer pipe 76 mm to 125 mm  Unit: outer pipe 91 mm to 90 mm  Unit: outer pipe 91 mm to 110 mm  Unit: outer pipe 91 mm to 125 mm  Unit: outer pipe 91 mm to 140 mm  Unit: outer pipe 111 mm to 90 mm  Unit: outer pipe 111 mm to 110 mm  Unit: outer pipe 111 mm to 125 mm  Unit: outer pipe 111 mm to 140 mm  Unit: outer pipe 126 mm to 110 mm  Unit: outer pipe 126 mm to 125 mm  Unit: outer pipe 126 mm to 140 mm  Unit: outer pipe 126 mm to 160 mm  Unit: outer pipe 142 mm to 125 mm  Unit: outer pipe 142 mm to 140 mm  Unit: outer pipe 142 mm to 160 mm  Unit: outer pipe 142 mm to 180 mm  Unit: outer pipe 162 mm to 140 mm  Unit: outer pipe 162 mm to 160 mm  Unit: outer pipe 162 mm to 180 mm  Unit: outer pipe 162 mm to 200 mm  Unit: outer pipe 162 mm to 225 mm  Unit: outer pipe 162 mm to 250 mm  Unit: outer pipe 182 mm to 140 mm  Unit: outer pipe 182 mm to 160 mm  Unit: outer pipe 182 mm to 180 mm  Unit: outer pipe 182 mm to 200 mm  Unit: outer pipe 182 mm to 225 mm  Unit: outer pipe 182 mm to 250 mm |  |  |
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|  |  | Joint set, CPX-PCP for dual pipe with PE foam, suitable for:    Unit: outer pipe 91 mm to 90 mm  Unit: outer pipe 111 mm to 110 mm  Unit: outer pipe 126 mm to 125 mm  Unit: outer pipe 142 mm to 140 mm  Unit: outer pipe 162 mm to 160 mm  Unit: outer pipe 182 mm to 180 mm |  |  |

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|  |  | CALPEX joints  Insulating material: PUR foam packing  CALPEX joint set  Type CALPEX-CALPEX  For 6 and 10 bar pipes, with polyurethane foam packing, consisting of: one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves, foam packing and one abrasive strip.  Joint set, CPX-CPX  for CALPEX UNO with PUR foam packing  suitable for:  Unit: outer pipe 76 mm to 76 mm  Unit: outer pipe 91 mm to 91 mm  Unit: outer pipe 91 mm to 76 mm  Unit: outer pipe 111 mm to 111 mm  Unit: outer pipe 111 mm to 91 mm  Unit: outer pipe 126 mm to 126 mm  Unit: outer pipe 126 mm to 111 mm  Unit: outer pipe 142 mm to 142mm  Unit: outer pipe 142 mm to 126 mm  Unit: outer pipe 162 mm to 162 mm  Unit: outer pipe 162 mm to 142 mm  Unit: outer pipe 182 mm to 182 mm  Unit: outer pipe 182 mm to 162 mm  Unit: outer pipe 250 mm to 250 mm  Unit: outer pipe 250 mm to 182 mm |  |  |

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|  |  | Joint set, CPX-CPX  for CALPEX Duo with PUR foam packing  suitable for:  Unit: outer pipe 91 mm to 91 mm  Unit: outer pipe 111 mm to 111 mm  Unit: outer pipe 111 mm to 91 mm  Unit: outer pipe 126 mm to 126 mm  Unit: outer pipe 126 mm to 111 mm  Unit: outer pipe 142 mm to 142 mm  Unit: outer pipe 142 mm to 126 mm  Unit: outer pipe 162 mm to 162 mm  Unit: outer pipe 162 mm to 142 mm  Unit: outer pipe 182 mm to 182 mm  Unit: outer pipe 182 mm to 162 mm |  |  |

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| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | CALPEX joint set  Type CALPEX - plastic casing pipe (PCP)  For 6 and 10 bar pipes, with foam packing, consisting of: one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves, foam packing and one abrasive strip.  Joint set, CPX-PCP for single pipe with PUR foam packing, suitable for:  Unit: outer pipe 76 mm to 90 mm  Unit: outer pipe 76 mm to 110 mm  Unit: outer pipe 76 mm to 125 mm  Unit: outer pipe 91 mm to 90 mm  Unit: outer pipe 91 mm to 110 mm  Unit: outer pipe 91 mm to 125 mm  Unit: outer pipe 91 mm to 140 mm  Unit: outer pipe 111 mm to 90 mm  Unit: outer pipe 111 mm to 110 mm  Unit: outer pipe 111 mm to 125 mm  Unit: outer pipe 111 mm to 140 mm  Unit: outer pipe 126 mm to 110 mm  Unit: outer pipe 126 mm to 125 mm  Unit: outer pipe 126 mm to 140 mm  Unit: outer pipe 126 mm to 160 mm  Unit: outer pipe 142 mm to 125 mm  Unit: outer pipe 142 mm to 140 mm  Unit: outer pipe 142 mm to 160 mm  Unit: outer pipe 142 mm to 180 mm  Unit: outer pipe 162 mm to 140 mm  Unit: outer pipe 162 mm to 160 mm  Unit: outer pipe 162 mm to 180 mm  Unit: outer pipe 162 mm to 200 mm  Unit: outer pipe 162 mm to 225 mm  Unit: outer pipe 162 mm to 250 mm  Unit: outer pipe 182 mm to 140 mm  Unit: outer pipe 182 mm to 160 mm  Unit: outer pipe 182 mm to 180 mm  Unit: outer pipe 182 mm to 200 mm  Unit: outer pipe 182 mm to 225 mm  Unit: outer pipe 182 mm to 250 mm |  |  |
| Pos. | Qty. | Designation | Item price  EUR | Total price  EUR |
|  |  | Joint set, CPX-PCP for CALPEX DUO pipe with PUR foam packing  suitable for:  Unit: outer pipe 91 mm to 90 mm  Unit: outer pipe 111 mm to 110 mm  Unit: outer pipe 126 mm to 125 mm  Unit: outer pipe 142 mm to 140 mm  Unit: outer pipe 162 mm to 160 mm  Unit: outer pipe 182 mm to 180 mm  CALPEX assembly T-piece: (≤ ø 126 mm)  CALPEX UNO T-piece set consisting of:  two ABS half-shells made of highly resistant  acrylonitrile-butadiene-styrene (ABS), including reduction rings for the relevant outer pipe diameters, fast-action adhesive, venting plugs (3 x), fast-action clamps (16 x) and one polyurethane foam pack,  suitable for:  Unit: outer pipe 76-76-76 mm  Unit: outer pipe 91-91-91 mm  Unit: outer pipe 91-76-91 mm  Unit: outer pipe 91-76-76 mm  Unit: outer pipe 111-111-111 mm  Unit: outer pipe 111-91-111 mm  Unit: outer pipe 111-76-111 mm  Unit: outer pipe 111-76-91 mm  Unit: outer pipe 111-76-76 mm  Unit: outer pipe 111-91-91 mm  Unit: outer pipe 111-76-91 mm  Unit: outer pipe 111-76-76 mm  Unit: outer pipe 126-126-126 mm  Unit: outer pipe 126-111-126 mm  Unit: outer pipe 126-91-126 mm  Unit: outer pipe 126-76-126 mm  Unit: outer pipe 126-111-111 mm  Unit: outer pipe 126-91-111 mm  Unit: outer pipe 126-76-111 mm  Unit: outer pipe 126-91-91 mm  Unit: outer pipe 126-91-76 mm  Unit: outer pipe 126-76-91 mm  Unit: outer pipe 126-76-76 mm |  |  |

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|  |  | CALPEX assembly T-piece: (≥ ø 126 mm)  CALPEX UNO T-piece set consisting of:  two GFK half-shells in break-resistant glass fiber polyester (incl. reduction rings for the corresponding outer pipe diameters), screw valve in brass, sealing strip, screw set and one polyurethane foam pack, suitable for:  Unit: outer pipe 142-142-142 mm  Unit: outer pipe 142-126-142 mm  Unit: outer pipe 142-111-142 mm  Unit: outer pipe 142-91-142 mm  Unit: outer pipe 142-76-142 mm  Unit: outer pipe 142-126-126 mm  Unit: outer pipe 142-111-126 mm  Unit: outer pipe 142-91-126 mm  Unit: outer pipe 142-76-126 mm  Unit: outer pipe 162-162-162 mm  Unit: outer pipe 162-142-162 mm  Unit: outer pipe 162-126-162 mm  Unit: outer pipe 162-111-162 mm  Unit: outer pipe 162-91-162 mm  Unit: outer pipe 162-76-162 mm  Unit: outer pipe 162-142-142 mm  Unit: outer pipe 162-126-142 mm  Unit: outer pipe 162-111-142 mm  Unit: outer pipe 162-91-142 mm  Unit: outer pipe 162-76-142 mm  Unit: outer pipe 182-182-182 mm  Unit: outer pipe 182-162-182 mm  Unit: outer pipe 182-142-182 mm  Unit: outer pipe 182-126-182 mm  Unit: outer pipe 182-111-182 mm  Unit: outer pipe 182-91-182 mm  Unit: outer pipe 182-182-162 mm  Unit: outer pipe 182-162-162 mm  Unit: outer pipe 182-142-162 mm  Unit: outer pipe 182-126-162 mm  Unit: outer pipe 182-111-162 mm  Unit: outer pipe 182-91-162 mm  Unit: outer pipe 182-182-142 mm  Unit: outer pipe 182-162-142 mm  Unit: outer pipe 182-142-142 mm  Unit: outer pipe 182-126–142 mm  Unit: outer pipe 182-111–142 mm  Unit: outer pipe 182-91–142 mm |  |  |

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|  |  | CALPEXdistributor shaft  In polyethylene with 8 x pipe connection sockets for all CALPEX dimensions to fit T-pieces, couplings and shut-off valves. The heat insulation for the shaft pipework must be provided by the customer or others.  Seal set for pipe connection socket, distributor shaft  Unit: for CALPEX outer pipe ∅ 76 mm with additional centering ring  Unit: for CALPEX outer pipe ∅ 91 mm with additional centering ring  Unit: for CALPEX outer pipe ∅ 111 mm  Unit: for CALPEX outer pipe ∅ 126 mm with additional centering ring  Unit: for CALPEX outer pipe ∅ 142 mm  Unit: for CALPEX outer pipe ∅ 162 mm with additional centering ring  Unit: for CALPEX outer pipe ∅ 182 mm |  |  |

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|  |  | Transport of de CALPEX rings  Max. delivery height: 2800 mm  Max. delivery width: 800/1200 mm  Max. delivery length: up to 760 m depending on dimension  Delivery weight: 1 – 6.38 kg/m  Accessories: cardboard-packs  When using a fork-lift to unload the rings, the forks should be protected in order to avoid cutting into the pipe casing.  Storage of the CALPEX rings  Before laying, pipes must be stored at min. 5 °C  Do not remove protective caps before laying  Store dry cardboard with accessories  Laying of the CALPEX rings  Do not roll the CALPEX-ring out over edges, and do not pull the unrolled pipe over long distances on the asphalt. This can cause damage to the protective polyethylene casing. Damaged points on the casing can be repaired, using the shrink socket.  If necessary (e.g. if the laying temperature is low, or the pipe diameter is large) curved pipe ends can be bent straight with the help of an aligning rail.  IMPORTANT!  CALPEX-rings are under tension! Under no circumstances must you cut all the fixing tapes together.  Uncontrolled release of the tension in the rings is DANGEROUS (spring effect). |  |  |