



INSTALL IT. SAFEGUARD YOUR EQUIPMENT.

# Okapak

Full range, impact resistant and easy to clean PVC coverings for professional solutions

- // Long lifetime
- // Extensive range with tailor-made bends, T-pieces and tape
- // Up to eight combinations possible with one Okapak bend
- // Manufactured without the use of silicone, unplasticized
- // Impact resistant hard PVC foil



 **armacell**<sup>®</sup>  
ArmaClad<sup>™</sup>

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# ArmaClad Okapak



## // Okapak 90° two-piece bends

Two piece bends with strengthening welded back for perfect fitting. Overview of different application areas, depending on pipe radius and type:

**Okapak S bends:** Bends for standard application S shaped seamless steel pipe according to EN 10253-1, type 3 (1,5d) with insulation  $\leq 100$ .

**Okapak W bends:** Bends for standard application W shaped angled tempered cast fittings according to EN 10242, A1, A4 with insulation  $\leq 50$  mm.

**Okapak D bends:** Bends for application D shaped short tempered cast fittings according to EN 10242, D1, D4 with insulation  $\leq 50$  mm.

**Okapak SML:** Bends for application of cast iron pipes with insulation  $\leq 40$  mm.



## // Okapak 90° one-piece bends

Overview of different application areas, depending on pipe radius and type:

**Okapak S bends:** Bends for standard application S shaped seamless steel pipe according to EN 10253-1, type 3 (1,5d) with insulation  $\leq 100$  mm.

**Okapak W bends:** Bends for standard application W shaped angled tempered cast fittings according to EN 10242, A1, A4 with insulation  $\leq 50$  mm.

**Okapak D bends:** Bends for application D shaped short tempered cast fittings according to EN 10242, D1, D4 with insulation  $\leq 60$  mm.

**Okapak 5D bends:** Bends for application 5D shaped long insulated tempered cast fittings according to DIN2605-1 with insulation  $\leq 50$  mm.



## // Okapak flexible T-pieces

Patented solution for cladding branch pipes. With our new Okapak T-pieces, you can cover 100 percent of all common applications with just eight items. A manageable range for more efficient storekeeping.



## // Rivet Tool for PVC Claddings

Install PVC rivets straight or at an angle with one single tool. Even in tight spots. New stainless steel tips prevent the rivets from falling off. Grooved surfaces ensure a secure and firm hold. Fits perfectly in your hand.

# OVERVIEW ONE-PIECE ELBOWS

| Ø   | 20 mm | 25 mm | 30 mm | 35 mm | 40 mm | 45 mm | 50 mm | 60 mm | 80 mm | 100 mm |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 15  |       |       |       |       |       |       |       |       |       |        |
| 17  |       |       |       |       |       |       |       |       |       |        |
| 21  |       |       |       |       |       |       |       |       |       |        |
| 27  |       |       |       |       |       |       |       |       |       |        |
| 33  |       |       |       |       |       |       |       |       |       |        |
| 38  |       |       |       |       |       |       |       |       |       |        |
| 42  |       |       |       |       |       |       |       |       |       |        |
| 44  |       |       |       |       |       |       |       |       |       |        |
| 48  |       |       |       |       |       |       |       |       |       |        |
| 57  |       |       |       |       |       |       |       |       |       |        |
| 60  |       |       |       |       |       |       |       |       |       |        |
| 64  |       |       |       |       |       |       |       |       |       |        |
| 70  |       |       |       |       |       |       |       |       |       |        |
| 76  |       |       |       |       |       |       |       |       |       |        |
| 83  |       |       |       |       |       |       |       |       |       |        |
| 89  |       |       |       |       |       |       |       |       |       |        |
| 102 |       |       |       |       |       |       |       |       |       |        |
| 108 |       |       |       |       |       |       |       |       |       |        |
| 114 |       |       |       |       |       |       |       |       |       |        |
| 127 |       |       |       |       |       |       |       |       |       |        |
| 133 |       |       |       |       |       |       |       |       |       |        |
| 140 |       |       |       |       |       |       |       |       |       |        |
| 159 |       |       |       |       |       |       |       |       |       |        |
| 168 |       |       |       |       |       |       |       |       |       |        |
| 194 |       |       |       |       |       |       |       |       |       |        |
| 219 |       |       |       |       |       |       |       |       |       |        |
| 267 |       |       |       |       |       |       |       |       |       |        |

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# OVERVIEW TWO-PIECE (WELDED) ELBOWS

| Ø   | 20 mm        | 25 mm        | 30 mm        | 35 mm | 40 mm     | 45 mm | 50 mm     | 60 mm | 80 mm | 100 mm |
|-----|--------------|--------------|--------------|-------|-----------|-------|-----------|-------|-------|--------|
| 15  | W            |              |              |       | W         |       |           |       |       |        |
| 17  | W, D, G      | W, D         | W, D, G      |       | W         |       |           | W     | W     |        |
| 21  | W, D, G      | W, D, G      | W, D, G      |       | W         |       |           |       |       |        |
| 27  | W, D, G, SML | W, D, G, SML | W, D, G, SML |       | W         |       |           |       |       |        |
| 33  | W, D, G, SML | W, D, G, SML | W, D, G, SML | W     | W, SML    |       | W         |       |       |        |
| 38  | W, SML       | W            | W, SML       |       | W, SML    |       |           |       |       |        |
| 42  | W, D, SML    | W, D, SML    | W, D, G, SML | W     | W, D, SML |       | W, SML    |       |       |        |
| 44  | W, D, SML    | W, D, SML    | W, D, G, SML | W     | W, SML    |       | W, SML    |       |       |        |
| 48  | W, SML       | W, D, SML    | W, D, G, SML | W     | W, D, SML | W     | W         |       |       |        |
| 57  | W            | W            | W            | W     | W         | W     | W         | W     |       |        |
| 60  | W, D, G      | W, D, G, SML | W, D, G, SML | W     | W, D, SML | W     | W, D, SML | W     |       |        |
| 64  | W            | W            | W            | W     | W         | W     | W         | W     |       |        |
| 70  | W, SML       | W            | W, SML       | W     | W, SML    | W     | W         | W     | W     |        |
| 76  | W, SML       | W, SML       | W, SML, 45°  | W     | W, SML    | W     | W, SML    | W     | W     |        |
| 83  | W            | W            | W            | W     | W         | W     | W         | W     | W     |        |
| 99  | W            | W, SML       | W, SML, 45°  | W     | W, SML    | W     | W, SML    | W     | W     |        |
| 102 | W, SML       |              | W, SML       | W     | W, SML    | W     | W         | W     | W     | W      |
| 109 | W            |              | W, SML       | W     | W         | W     | W         | W     | W     | W      |
| 114 | W            |              | W, G         | W     | W, SML    | W     | W, SML    | W     | W     | W      |
| 127 | W, SML       |              | W, SML       | W     | W, SML    | W     | W         | W     | W     | W      |
| 133 |              |              | W            | W     | W         | W     | W         | W     | W     | W      |
| 160 | W, SML       |              | W, SML       |       | W, SML    | W     | W         | W     | W     | W      |
| 159 |              |              |              |       | W         | W     | W         | W     | W     | W      |
| 168 |              |              |              |       | W         | W     | W         | W     | W     | W      |
| 194 |              |              |              |       |           | W     | W         | W     | W     | W      |
| 219 |              |              |              |       |           | W     | W         | W     | W     | W      |
| 267 |              |              |              |       |           |       | W         | W     | W     | W      |



## TECHNICAL DATA - OKAPAK

|                      |   |
|----------------------|---|
| Brief description    | Economic coating system according to DIN 4140.<br>Sheeting calender method, extruding; straight vacuum forming.<br>Manufactured without metals cadmium, lead, mercury, chrome and their compound, without use of silicone, unplasticised. |
| Material type        | Shock resistant hard PVC foil with fire protection equipment. Surface: semigloss and smooth.  |
| Product colour range | Light grey  |
| Special features     | No weakening of insulating thickness of bends.  |
| Product range        | Rolls, bends, fitting caps, valve caps, flange caps, front caps, cut-outs and complete accessories  |
| Applications         | Jacket for insulated pipes (including bends, branches, fittings, flanges, o.s.) for protection of damages of mechanical stress.   |

| Property                                 | Value / Assessment   | Standard / Test method |
|--|--|------------------------|
| <b>Temperature range</b>                 |  |                        |
| Service temperature <sup>1</sup>         | Min. °C<br>-20   | Max. °C<br>60          |
| <b>Operating temperature</b>             |  |                        |
| Operating temperature                    | -20 °C up to +60 °C<br>If the object is correctly insulated and no direct contact exists to the jacket, the medium temperature can essentially be higher or lower. |                        |
| <b>Fire Performance and Approvals</b>    |  |                        |
| Reaction to fire                         | Okapak SE: low flammability (DIN 4102-B1)<br>Okapak: moderately flammable (DIN 4102-B2)  | DIN 4102               |
| <b>Resistance to water vapour</b>        |  |                        |
| Water vapour diffusion resistance factor | μ approx. 60.000   | DIN 53122-1            |
| <b>Physical attributes</b>               |  |                        |
| Density                                  | Okapak SE: 1,43 ± 0,02 g/cm <sup>3</sup><br>Okapak: 1,39 ± 0,02 g/cm <sup>3</sup>  | EN ISO 1183            |
| <b>Mechanical properties</b>             |  |                        |
| Tensile strength                         | > 35 N/mm <sup>2</sup>   | EN ISO 527-3           |
| Tensile impact strength                  | ≥ 400 KJ/m <sup>2</sup>  | EN ISO 8256            |
| <b>Health and environment</b>            |  |                        |
| Health aspects                           | Physiologically harmless, even when used in food processing plants. Odourless.   |                        |
| <b>Other technical features</b>          |  |                        |
| Chemical resistance                      | Aging resistance: good.<br>Stability against usual building materials: very good.<br>Against chemicals: see separate list.   |                        |
| Storage                                  | Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35°C).  |                        |

<sup>1</sup>If the object is correctly insulated and no direct contact exists to the jacket, the medium temperature can essentially be higher or lower.

## End cap. Rosette Endcapping

| Item     | Description   | EAN           | Content [quantity] |
|----------|---|---------------|--------------------|
| PEMBA18B | Length: 5 m; Lamella length: 18 mm; Insulation thickness: 20 mm; Colour: Alu (Silver) | 7612207180886 | 10 roll            |
| PEMBA28B | Length: 5 m; Lamella length: 28 mm; Insulation thickness: 30 mm; Colour: Alu (Silver) | 7612207180909 | 10 roll            |
| PEMBA38B | Length: 5 m; Lamella length: 38 mm; Insulation thickness: 40 mm; Colour: Alu (Silver) | 7612207180923 | 10 roll            |
| PEMBA48B | Length: 5 m; Lamella length: 48 mm; Insulation thickness: 50 mm; Colour: Alu (Silver) | 7612207180947 | 10 roll            |
| PEMBA58B | Length: 5 m; Lamella length: 58 mm; Insulation thickness: 60 mm; Colour: Alu (Silver) | 7612207180961 | 10 roll            |
| PEMBG18B | Length: 5 m; Lamella length: 18 mm; Insulation thickness: 20 mm; Colour: Grey         | 7612207181036 | 10 roll            |
| PEMBG28B | Length: 5 m; Lamella length: 28 mm; Insulation thickness: 30 mm; Colour: Grey         | 7612207181050 | 10 roll            |
| PEMBG38B | Length: 5 m; Lamella length: 38 mm; Insulation thickness: 40 mm; Colour: Grey         | 7612207181074 | 10 roll            |
| PEMBG48B | Length: 5 m; Lamella length: 48 mm; Insulation thickness: 50 mm; Colour: Grey         | 7612207181098 | 10 roll            |
| PEMBG58B | Length: 5 m; Lamella length: 58 mm; Insulation thickness: 60 mm; Colour: Grey         | 7612207181111 | 10 roll            |

## Accessories. rivets

| Item  | Description   | EAN           | Content [quantity] |
|-------|---------------|---------------|--------------------|
| PMNG  | Rivets, grey  | 7612207181180 | 1000 piece         |
| PMN W | Rivets, white | 7612207181173 | 1000 piece         |

## Accessories. Tooling for closing PVC - Single

| Item  | Description                                 | EAN           | Content [quantity] |
|-------|---|---------------|--------------------|
| PMNWG | Tooling for closing PVC covering - angular  | 7612207181197 | 15 piece           |
| PMNWW | Tooling for closing PVC covering - straight | 7612207181203 | 15 piece           |

## Accessories. Tooling for closing PVC - Dual

| Item     | Description                                    | EAN           | Content [quantity] |
|----------|--|---------------|--------------------|
| PMNWDUAL | Tooling for closing PVC - angular and straight | 7612207460223 | 10 piece           |

## Bend – 45°, two-piece (welded)

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item     | Insulation thickness [mm] | Content [quantity] |
|-------------|-----------------------|----------|---------------------------|--------------------|
| 21          |                       | PB452120 | 20                        | 400 piece          |
| 27          |                       | PB452720 | 20                        | 300 piece          |
| 27          |                       | PB452725 | 25                        | 250 piece          |
| 27          |                       | PB452730 | 30                        | 250 piece          |
| 33          |                       | PB453320 | 20                        | 260 piece          |
| 33          |                       | PB453325 | 25                        | 200 piece          |
| 33          |                       | PB453340 | 40                        | 160 piece          |

## Bend – 45°, two-piece (welded)

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item     | Insulation thickness [mm] | Content [quantity] |
|-------------|-----------------------|----------|---------------------------|--------------------|
| 42          | 44                    | PB454225 | 25                        | 140 piece          |
| 42          | 44                    | PB454230 | 30                        | 160 piece          |
| 48          |                       | PB454825 | 25                        | 180 piece          |
| 48          |                       | PB454840 | 40                        | 160 piece          |
| 60          |                       | PB456025 | 25                        | 160 piece          |
| 60          |                       | PB456030 | 30                        | 160 piece          |
| 60          |                       | PB456040 | 40                        | 160 piece          |
| 60          |                       | PB456050 | 50                        | 140 piece          |
| 76          |                       | PB457630 | 30                        | 140 piece          |
| 76          |                       | PB457640 | 40                        | 120 piece          |
| 76          |                       | PB457650 | 50                        | 100 piece          |
| 89          |                       | PB458930 | 30                        | 140 piece          |
| 89          |                       | PB458940 | 40                        | 100 piece          |
| 89          |                       | PB458950 | 50                        | 100 piece          |

## Other information

**Remarks** Dimensions can be ordered in smaller quantities

## Bend – 90°, one-piece

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item     | Insulation thickness [mm] | Alternative application size                    | Content [quantity] |
|-------------|-----------------------|----------|---------------------------|---|--------------------|
| 15          | 17                    | PBS1740E | 40                        | 42/25, 44/25, 33/30, 21/35, 27/35               | 300 piece          |
| 15          | 17                    | PBS1750E | 50                        | 76/20, 33/40, 38/40, 21/45, 27/45               | 200 piece          |
| 17          |                       | PBS1720E | 20                        |   | 500 piece          |
| 21          |                       | PBS2120E | 20                        |   | 400 piece          |
| 21          |                       | PBS2125E | 25                        | 33/20   | 500 piece          |
| 21          |                       | PBS2130E | 30                        |   | 300 piece          |
| 21          |                       | PBS2140E | 40                        | 60/20, 48/25                                    | 300 piece          |
| 21          |                       | PBS2150E | 50                        | 60/30, 42/40, 44/40                             | 200 piece          |
| 27          |                       | PBS2720E | 20                        | 15/25, 17/25                                    | 450 piece          |
| 27          |                       | PBS2725E | 25                        | 38/20, 15/30, 17/30                             | 400 piece          |
| 27          |                       | PBS2730E | 30                        | 42/20, 44/20, 48/20, 33/25, 38/25, 15/35, 17/35 | 300 piece          |
| 27          |                       | PBS2740E | 40                        | 44/30, 48/30, 33/35                             | 200 piece          |
| 27          |                       | PBS2750E | 50                        | 76/25, 44/40, 48/40, 27/50                      | 200 piece          |
| 33          |                       | PBS3320E | 20                        | 21/25   | 450 piece          |
| 33          |                       | PBS3330E | 30                        | 42/25, 44/25                                    | 300 piece          |
| 33          |                       | PBS3340E | 40                        | 60/25, 38/35, 42/35, 44/35                      | 200 piece          |
| 33          |                       | PBS3350E | 50                        | 89/20, 76/30, 38/45, 42/45, 44/45               | 180 piece          |
| 38          | 42, 44                | PBS4230E | 30                        | 48/25   | 400 piece          |
| 38          | 42                    | PBS4250E | 50                        | 89/25, 48/45                                    | 100 piece          |
| 42          | 44                    | PBS4220E | 20                        | 21/30   | 500 piece          |
| 42          | 44                    | PBS4260E | 60                        | 76/40   | 100 piece          |

## Bend – 90°, one-piece

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item       | Insulation thickness [mm] | Alternative application size             | Content [quantity] |
|-------------|-----------------------|------------|---------------------------|--|--------------------|
| 42          | 44, 48                | PBS4830E   | 30                        | 64/20, 57/25, 60/25, 27/40               | 300 piece          |
| 42          |                       | PBW4250E   | 50                        |  | 100 piece          |
| 44          | 48                    | PBS4850E   | 50                        | 89/30, 48/40, 57/45                      | 100 piece          |
| 44          | 48                    | PBS4860E   | 60                        | 89/40, 76/45, 64/50                      | 100 piece          |
| 48          |                       | PBS4820E   | 20                        |  | 300 piece          |
| 48          |                       | PBS4840E   | 40                        | 64/30, 57/35                             | 200 piece          |
| 48          |                       | PBW4850E   | 50                        |  | 100 piece          |
| 57          | 60                    | PBS6020E   | 20                        | 42/25, 44/25, 33/30                      | 200 piece          |
| 57          | 60                    | PBS6030E   | 30                        | 76/20, 64/25, 70/25, 48/35, 42/40, 44/40 | 300 piece          |
| 57          | 60                    | PBS6050E   | 50                        | 70/45                                    | 100 piece          |
| 60          |                       | PBS6040E   | 40                        | 70/35                                    | 180 piece          |
| 60          | 64                    | PBS6060E   | 60                        |  | 100 piece          |
| 60          |                       | PBW6040E   | 40                        |  | 180 piece          |
| 60          |                       | PBW6050E   | 50                        | 114/20                                   | 100 piece          |
| 70          |                       | PBS7020E   | 20                        | 33/40                                    | 300 piece          |
| 70          | 76                    | PBS7630E   | 30                        | 60/35, 64/35, 33/50                      | 180 piece          |
| 70          | 76                    | PBS7640E   | 40                        | 83/35, 89/35, 60/45, 48/50               | 100 piece          |
| 70          | 76                    | PBS7650E   | 50                        | 83/45, 57/60                             | 100 piece          |
| 70          | 76                    | PBS7660E   | 60                        |  | 100 piece          |
| 70          | 76                    | PBS7670E   | 80                        |  | 100 piece          |
| 76          |                       | PBS7625E   | 25                        | 83/20, 42/40, 44/40                      | 200 piece          |
| 83          | 89                    | PBS8950E   | 50                        | 89/45                                    | 100 piece          |
| 83          | 89                    | PBS8960E   | 60                        |  | 100 piece          |
| 83          | 89                    | PBS8980E   | 80                        |  | 60 piece           |
| 89          |                       | PBS8920E   | 20                        | 83/25, 89/40                             | 180 piece          |
| 89          |                       | PBS8925E   | 25                        | 83/30                                    | 180 piece          |
| 89          |                       | PBS8930E   | 30                        | 76/35, 48/50                             | 180 piece          |
| 89          |                       | PBS8940E   | 40                        | 60/50                                    | 100 piece          |
| 102         | 108                   | PBS10220E  | 20                        | 76/30, 60/40                             | 100 piece          |
| 102         | 108                   | PBS10230E  | 30                        | 114/25                                   | 100 piece          |
| 102         |                       | PBS10240E  | 40                        | 114/35                                   | 100 piece          |
| 102         | 108                   | PBS10250E  | 50                        | 114/45                                   | 50 piece           |
| 102         | 108                   | PBS10260E  | 60                        |  | 50 piece           |
| 102         | 108                   | PBS10280E  | 80                        |  | 50 piece           |
| 102         |                       | PBS102100E | 100                       |  | 30 piece           |
| 108         | 114                   | PBS11440E  | 40                        | 102/45, 108/45                           | 100 piece          |
| 108         | 114                   | PBS114100E | 100                       |  | 30 piece           |
| 114         |                       | PBS11420E  | 20                        | 102/25, 108/25, 76/40                    | 100 piece          |
| 114         |                       | PBS11430E  | 30                        | 102/35, 108/35, 76/50                    | 100 piece          |
| 114         |                       | PBS11450E  | 50                        | 133/40                                   | 50 piece           |
| 114         |                       | PBS11460E  | 60                        |  | 50 piece           |
| 114         |                       | PBS11480E  | 80                        |  | 50 piece           |



## Bend – 90°, one-piece

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item       | Insulation thickness [mm] | Alternative application size | Content [quantity] |
|-------------|-----------------------|------------|---------------------------|------------------------------|--------------------|
| 133         | 140                   | PBS14025E  | 25                        | 133/30                       | 100 piece          |
| 133         | 140                   | PBS14050E  | 50                        |                              | 25 piece           |
| 133         | 140                   | PBS14060E  | 60                        |                              | 25 piece           |
| 133         | 140                   | PBS14080E  | 80                        |                              | 25 piece           |
| 133         | 140                   | PBS140100E | 100                       |                              | 25 piece           |
| 140         |                       | PBS14030E  | 30                        | 133/35                       | 50 piece           |
| 140         |                       | PBS14040E  | 40                        | 133/45                       | 50 piece           |
| 159         |                       | PBS15925E  | 25                        |                              | 50 piece           |
| 159         |                       | PBS15940E  | 40                        |                              | 50 piece           |
| 168         |                       | PBS16825E  | 25                        | 159/30                       | 50 piece           |
| 168         |                       | PBS16830E  | 30                        |                              | 50 piece           |
| 168         |                       | PBS16840E  | 40                        |                              | 25 piece           |
| 168         |                       | PBS168100E | 100                       |                              | 50 piece           |

## Other information

## Remarks

Alternative application size: pipe diameter/insulation thickness (e.g. 17/20)  
Dimensions can be ordered in smaller quantities

## Bend – 90°, two-piece. welded

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item    | Insulation thickness [mm] | Alternative application size | Content [quantity] |
|-------------|-----------------------|---------|---------------------------|------------------------------|--------------------|
| 15          | 17                    | PB1720  | 20                        |                              | 440 piece          |
| 15          | 17                    | PB1740  | 40                        |                              | 180 piece          |
| 17          | 21                    | PB2120  | 20                        |                              | 360 piece          |
| 17          |                       | PB7670  | 80                        |                              | 40 piece           |
| 17          |                       | PBW1730 | 30                        |                              | 240 piece          |
| 21          |                       | PB2130  | 30                        | 38/20, 42/20, 44/20          | 260 piece          |
| 21          |                       | PB2140  | 40                        |                              | 160 piece          |
| 21          |                       | PBW2130 | 30                        |                              | 260 piece          |
| 27          |                       | PB2720  | 20                        | 17/25                        | 300 piece          |
| 27          |                       | PB2725  | 25                        | 17/30                        | 240 piece          |
| 27          |                       | PB2730  | 30                        |                              | 260 piece          |
| 27          |                       | PB2740  | 40                        |                              | 160 piece          |
| 33          |                       | PB3320  | 20                        | 21/25                        | 240 piece          |
| 33          |                       | PB3325  | 25                        |                              | 220 piece          |
| 33          |                       | PB3330  | 30                        | 42/25, 44/25                 | 220 piece          |
| 33          |                       | PB3340  | 40                        |                              | 160 piece          |
| 33          |                       | PB3350  | 50                        |                              | 80 piece           |
| 38          | 42,44                 | PB4430  | 30                        |                              | 160 piece          |
| 42          | 44                    | PB4240  | 40                        |                              | 120 piece          |
| 42          | 44                    | PB4250  | 50                        |                              | 80 piece           |
| 48          |                       | PB4820  | 20                        | 38/25, SML: DN40/20          | 240 piece          |
| 48          |                       | PB4825  | 25                        |                              | 180 piece          |
| 48          |                       | PB4830  | 30                        | 33/35, SML: DN40/30          | 160 piece          |

## Bend – 90°, two-piece, welded

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item     | Insulation thickness [mm] | Alternative application size                  | Content [quantity] |
|-------------|-----------------------|----------|---------------------------|---|--------------------|
| 48          |                       | PB4840   | 40                        | 76/25   | 120 piece          |
| 48          |                       | PBS4850  | 50                        |   | 60 piece           |
| 48          |                       | PBW4840  | 40                        | SML: DN40/40                                  | 120 piece          |
| 57          | 60                    | PB6020   | 20                        | SML: DN50/20                                  | 180 piece          |
| 57          | 60                    | PB6025   | 25                        |   | 160 piece          |
| 57          | 60                    | PB6030   | 30                        | 42/35, 44/35, 38/40, SML:<br>DN50/20, DN50/30 | 160 piece          |
| 57          | 60                    | PB6050   | 50                        | SML: DN70/40                                  | 60 piece           |
| 57          | 60                    | PBS6060  | 60                        | 83/45, 89/45                                  | 60 piece           |
| 60          | 57                    | PB6040   | 40                        | 89/25, 57/35, 60/35, 48/45,<br>SML: DN50/40   | 80 piece           |
| 60          | 64                    | PB6420   | 20                        | 44/30   | 160 piece          |
| 60          | 64                    | PB6425   | 25                        |   | 160 piece          |
| 64          |                       | PBS6430  | 30                        |   | 140 piece          |
| 64          |                       | PBS6460  | 60                        |   | 40 piece           |
| 64          | 70                    | PBS7035  | 35                        |   | 80 piece           |
| 64          | 70                    | PBS7040  | 40                        | 76/35   | 80 piece           |
| 64          | 70                    | PBS7045  | 45                        |   | 40 piece           |
| 64          | 70                    | PBS7050  | 50                        | 76/45   | 60 piece           |
| 70          |                       | PB7025   | 25                        | 76/20   | 120 piece          |
| 70          |                       | PBS7020  | 20                        |   | 140 piece          |
| 70          | 76                    | PBS7630  | 30                        |   | 80 piece           |
| 70          | 76                    | PBS7660  | 60                        |   | 40 piece           |
| 70          | 76                    | PBS7680  | 80                        | SML: DN125/30                                 | 40 piece           |
| 76          |                       | PB7640   | 40                        | SML: DN100/20                                 | 60 piece           |
| 76          |                       | PB7650   | 50                        | SML: DN100/30                                 | 40 piece           |
| 76          |                       | PBS7625  | 25                        |   | 120 piece          |
| 76          |                       | PBW7630  | 30                        | SML: DN50/30                                  | 100 piece          |
| 83          | 89                    | PB8950   | 50                        | SML: DN125/20                                 | 40 piece           |
| 83          | 83                    | PBS8325  | 25                        | 83/20   | 120 piece          |
| 83          | 89                    | PBS8930  | 30                        |   | 80 piece           |
| 83          | 89                    | PBS8935  | 35                        |   | 80 piece           |
| 83          | 89                    | PBS8940  | 40                        |   | 40 piece           |
| 83          | 89                    | PBS8960  | 60                        |   | 40 piece           |
| 83          | 89                    | PBS8980  | 80                        | SML: DN150/40                                 | 40 piece           |
| 89          |                       | PB8925   | 25                        |   | 80 piece           |
| 89          |                       | PBW8930  | 30                        | 57/45, 60/45                                  | 80 piece           |
| 89          |                       | PBW8940  | 40                        |   | 40 piece           |
| 102         | 108                   | PBS10820 | 20                        |   | 60 piece           |
| 102         | 108                   | PBS10830 | 30                        | 114/20  | 80 piece           |
| 102         | 108                   | PBS10835 | 35                        | 114/30  | 40 piece           |
| 102         | 108                   | PBS10840 | 40                        |   | 40 piece           |
| 102         | 108                   | PBS10850 | 50                        |   | 40 piece           |

## Bend – 90°, two-piece. welded

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item      | Insulation thickness [mm] | Alternative application size | Content [quantity] |
|-------------|-----------------------|-----------|---------------------------|------------------------------|--------------------|
| 102         | 108                   | PBS10860  | 60                        |                              | 40 piece           |
| 102         | 108                   | PBS10880  | 80                        |                              | 40 piece           |
| 102         | 108                   | PBS108100 | 100                       |                              | 40 piece           |
| 108         | 114                   | PBS11445  | 45                        |                              | 40 piece           |
| 114         |                       | PBS11435  | 35                        |                              | 40 piece           |
| 114         |                       | PBS11440  | 40                        | 102/45                       | 40 piece           |
| 114         |                       | PBS11450  | 50                        |                              | 40 piece           |
| 114         |                       | PBS11460  | 60                        |                              | 40 piece           |
| 114         |                       | PBS11480  | 80                        |                              | 40 piece           |
| 114         |                       | PBS114100 | 100                       |                              | 40 piece           |
| 114         |                       | PBW11440  | 40                        | SML: DN125/30, DN100/40      | 40 piece           |
| 114         |                       | PBW11450  | 50                        | SML: DN125/20, DN125/40      | 40 piece           |
| 127         | 133                   | PBS13330  | 30                        |                              | 40 piece           |
| 127         | 133                   | PBS13335  | 35                        |                              | 40 piece           |
| 127         | 133                   | PBS13340  | 40                        |                              | 40 piece           |
| 127         | 133                   | PBS13345  | 45                        |                              | 40 piece           |
| 127         | 133                   | PBS13350  | 50                        |                              | 60 piece           |
| 127         | 133                   | PBS13360  | 60                        |                              | 40 piece           |
| 127         | 133                   | PBS13380  | 80                        |                              | 40 piece           |
| 127         | 133                   | PBS133100 | 100                       |                              | 40 piece           |
| 140         |                       | PBS14040  | 40                        |                              | 30 piece           |
| 140         |                       | PBS14045  | 45                        |                              | 40 piece           |
| 140         |                       | PBS14050  | 50                        |                              | 60 piece           |
| 140         |                       | PBS14060  | 60                        |                              | 40 piece           |
| 140         |                       | PBS14080  | 80                        |                              | 40 piece           |
| 140         |                       | PBS140100 | 100                       |                              | 40 piece           |
| 159         |                       | PBS15940  | 40                        |                              | 60 piece           |
| 159         |                       | PBS15945  | 45                        |                              | 60 piece           |
| 159         |                       | PBS15950  | 50                        | 168/45                       | 40 piece           |
| 159         |                       | PBS15960  | 60                        |                              | 40 piece           |
| 159         |                       | PBS15980  | 80                        |                              | 40 piece           |
| 159         |                       | PBS159100 | 100                       |                              | 40 piece           |
| 168         |                       | PBS16840  | 40                        |                              | 60 piece           |
| 168         |                       | PBS16850  | 50                        |                              | 40 piece           |
| 168         |                       | PBS16860  | 60                        |                              | 40 piece           |
| 168         |                       | PBS16880  | 80                        |                              | 40 piece           |
| 168         |                       | PBS168100 | 100                       |                              | 40 piece           |
| 194         |                       | PBS19450  | 50                        |                              | 40 piece           |
| 194         |                       | PBS19460  | 60                        |                              | 40 piece           |
| 194         |                       | PBS19480  | 80                        |                              | 40 piece           |
| 194         |                       | PBS194100 | 100                       |                              | 20 piece           |
| 219         |                       | PBS21950  | 50                        |                              | 40 piece           |

## Bend – 90°, two-piece, welded

| Pipe Ø [mm] | Also fits pipe Ø [mm] | Item      | Insulation thickness [mm] | Alternative application size | Content [quantity] |
|-------------|-----------------------|-----------|---------------------------|------------------------------|--------------------|
| 219         |                       | PBS21960  | 60                        |                              | 40 piece           |
| 219         |                       | PBS21980  | 80                        |                              | 20 piece           |
| 219         |                       | PBS219100 | 100                       |                              | 20 piece           |
| 267         |                       | PBS26760  | 60                        |                              | 40 piece           |
| 267         |                       | PBS26780  | 80                        |                              | 20 piece           |
| 267         |                       | PBS267100 | 100                       |                              | 20 piece           |

## Other information

## Remarks

Alternative application size: pipe diameter/insulation thickness (e.g. 17/20)  
Dimensions can be ordered in smaller quantities

## Prefabricated part – t-piece

| Pipe Ø [mm] | Item    | Description               | Main pipe outer diameter [mm] | Branch pipe outer diameter [mm] | EAN           | Content [quantity] |
|-------------|---------|---------------------------|-------------------------------|---------------------------------|---------------|--------------------|
| 27          | PBA2721 | 20mm insulation thickness | 27                            | 21                              | 7612207179958 | 1 pack             |
| 33          | PBA3333 | 20mm insulation thickness | 33                            | 33                              | 7612207179989 | 1 pack             |
| 33          | PBA3327 | 20mm insulation thickness | 33                            | 27                              | 7612207179972 | 1 pack             |
| 33          | PBA3321 | 20mm insulation thickness | 33                            | 21                              | 7612207179965 | 1 pack             |
| 42          | PBA4221 | 20mm insulation thickness | 42                            | 21                              | 7612207179996 | 1 pack             |
| 42          | PBA4233 | 20mm insulation thickness | 42                            | 33                              | 7612207180015 | 1 pack             |
| 42          | PBA4227 | 20mm insulation thickness | 42                            | 27                              | 7612207180008 | 1 pack             |
| 48          | PBA4827 | 20mm insulation thickness | 48                            | 27                              | 7612207180022 | 1 pack             |
| 48          | PBA4833 | 20mm insulation thickness | 48                            | 33                              | 7612207180039 | 1 pack             |
| 48          | PBA4842 | 20mm insulation thickness | 48                            | 42                              | 7612207180046 | 1 pack             |
| 60          | PBA6033 | 20mm insulation thickness | 60                            | 33                              | 7612207180060 | 1 pack             |
| 60          | PBA6042 | 20mm insulation thickness | 60                            | 42                              | 7612207180077 | 1 pack             |
| 60          | PBA6027 | 20mm insulation thickness | 60                            | 27                              | 7612207180053 | 1 pack             |
| 60          | PBA6048 | 20mm insulation thickness | 60                            | 48                              | 7612207180084 | 1 pack             |

## Other information

## Remarks

1 pack = 10 pieces

## Prefabricated part – t-piece (flexible)

| Item   | Description  | EAN           | Content [quantity] |
|--------|--|---------------|--------------------|
| PBT 65 | Flexible T-Piece: Main pipe = 57-67mm;<br>branch pipe = 67-100mm | 7612207463415 | 1 pack             |
| PBT 75 | Flexible T-Piece: Main pipe = 74-108mm;<br>branch pipe = 74mm    | 7612207463392 | 1 pack             |
| PBT 85 | Flexible T-Piece: Main pipe = 83-120mm;<br>branch pipe = 83-88mm | 7612207463422 | 1 pack             |

Prefabricated part – t-piece (flexible)

| Item    | Description   | EAN           | Content [quantity] |
|---------|---|---------------|--------------------|
| PBT 95  | Flexible T-Piece: Main pipe = 94-140mm;<br>branch pipe = 94mm       | 7612207463408 | 1 pack             |
| PBT 105 | Flexible T-Piece: Main pipe = 100-156mm;<br>branch pipe = 100-108mm | 7612207463439 | 1 pack             |
| PBT 125 | Flexible T-Piece: Main pipe = 116-182mm;<br>branch pipe = 116-128mm | 7612207463446 | 1 pack             |
| PBT 145 | Flexible T-Piece: Main pipe = 136-194mm;<br>branch pipe = 136-149mm | 7612207463460 | 1 pack             |
| PBT 160 | Flexible T-Piece: Main pipe = 156-218mm;<br>branch pipe = 156-169mm | 7612207463453 | 1 pack             |

Other information

Remarks 1 pack = 10 pieces

Foil cut-outs

| Outer diameter [mm] | Item  | Description                      | Cut-out length [mm] | EAN           | Content [quantity] |
|---------------------|-------|----------------------------------|---------------------|---------------|--------------------|
| 60                  | PZA22 | PZA - latch effect               | 220                 | 7612207181500 | 1 pack             |
| 60                  | PZB22 | PZB self-adhesive - latch effect | 220                 | 7612207181517 | 1 pack             |
| 65                  | PZA24 | PZA - latch effect               | 240                 | 7612207181524 | 1 pack             |
| 65                  | PZB24 | PZB self-adhesive - latch effect | 240                 | 7612207181531 | 1 pack             |
| 70                  | PZB26 | PZB self-adhesive - latch effect | 260                 | 7612207181555 | 1 pack             |
| 70                  | PZA26 | PZA - latch effect               | 260                 | 7612207181548 | 1 pack             |
| 82                  | PZB29 | PZB self-adhesive - latch effect | 290                 | 7612207181579 | 1 pack             |
| 82                  | PZA29 | PZA - latch effect               | 290                 | 7612207181562 | 1 pack             |
| 89                  | PZA31 | PZA - latch effect               | 310                 | 7612207181586 | 1 pack             |
| 89                  | PZB31 | PZB self-adhesive - latch effect | 310                 | 7612207181593 | 1 pack             |
| 95                  | PZB33 | PZB self-adhesive - latch effect | 330                 | 7612207181616 | 1 pack             |
| 95                  | PZA33 | PZA - latch effect               | 330                 | 7612207181609 | 1 pack             |
| 100                 | PZA35 | PZA - latch effect               | 350                 | 7612207181623 | 1 pack             |
| 100                 | PZB35 | PZB self-adhesive - latch effect | 350                 | 7612207181630 | 1 pack             |
| 105                 | PZB36 | PZB self-adhesive - latch effect | 360                 | 7612207181654 | 1 pack             |
| 105                 | PZA36 | PZA - latch effect               | 360                 | 7612207181647 | 1 pack             |
| 110                 | PZB38 | PZB self-adhesive - latch effect | 380                 | 7612207181678 | 1 pack             |
| 115                 | PZA40 | PZA - latch effect               | 400                 | 7612207181685 | 1 pack             |
| 124                 | PZB42 | PZB self-adhesive - latch effect | 420                 | 7612207181715 | 1 pack             |
| 124                 | PZA42 | PZA - latch effect               | 420                 | 7612207181708 | 1 pack             |
| 130                 | PZB44 | PZB self-adhesive - latch effect | 440                 | 7612207181739 | 1 pack             |
| 130                 | PZA44 | PZA - latch effect               | 440                 | 7612207181722 | 1 pack             |
| 136                 | PZB46 | PZB self-adhesive - latch effect | 460                 | 7612207181753 | 1 pack             |
| 136                 | PZA46 | PZA - latch effect               | 460                 | 7612207181746 | 1 pack             |

## Foil cut-outs

| Outer diameter [mm] | Item   | Description                      | Cut-out length [mm] | EAN           | Content [quantity] |
|---------------------|--------|----------------------------------|---------------------|---------------|--------------------|
| 150                 | PZA50  | PZA - latch effect               | 500                 | 7612207181760 | 1 pack             |
| 150                 | PZB50  | PZB self-adhesive - latch effect | 500                 | 7612207181777 | 1 pack             |
| 165                 | PZA55  | PZA - latch effect               | 550                 | 7612207181784 | 1 pack             |
| 165                 | PZB55  | PZB self-adhesive - latch effect | 550                 | 7612207181791 | 1 pack             |
| 180                 | PZB60  | PZB self-adhesive - latch effect | 600                 | 7612207181814 | 1 pack             |
| 180                 | PZA60  | PZA - latch effect               | 600                 | 7612207181807 | 1 pack             |
| 195                 | PZB65  | PZB self-adhesive - latch effect | 650                 | 7612207181838 | 1 pack             |
| 195                 | PZA70  | PZA - latch effect               | 700                 | 7612207181845 | 1 pack             |
| 229                 | PZB75  | PZB self-adhesive - latch effect | 750                 | 7612207181869 | 1 pack             |
| 229                 | PZA75  | PZA - latch effect               | 750                 | 7612207255812 | 1 pack             |
| 260                 | PZA85  | PZA - latch effect               | 850                 | 7612207181883 | 1 pack             |
| 308                 | PZB100 | PZB self-adhesive - latch effect | 1.000               | 7612207181920 | 1 pack             |

## Other information

## Remarks

Cut outs width: 1,000 mm, 1 pack = 10 pieces ( $\leq$  82 mm diameter), 1 pack = 5 pieces ( $\geq$  89 mm diameter)  
All cut outs have 30mm overlapping

## Covering, endless

| Item       | Thickness [mm] | Width [mm] | Length [m] | EAN           | Content [metric]    |
|------------|----------------|------------|------------|---------------|---------------------|
| PF251 B2   | 0,35           | 1.000      | 25         | 7612207180329 | 1250 m <sup>2</sup> |
| PFSE251 B1 | 0,35           | 1.000      | 25         | 7612207180350 | 1250 m <sup>2</sup> |

## Tape - PVC. Grey

| Item   | Thickness [mm] | Width [mm] | Length [m] | EAN           | Content [quantity] |
|--------|----------------|------------|------------|---------------|--------------------|
| PSKB19 | 0,15           | 19         | 25         | 7612207181210 | 32 roll            |
| PSKB25 | 0,15           | 25         | 25         | 7612207181234 | 24 roll            |
| PSKB30 | 0,15           | 30         | 25         | 7612207181258 | 20 roll            |
| PSKB50 | 0,15           | 50         | 25         | 7612207181272 | 12 roll            |