



## 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 stell pipe according to EN 10253-1, type 3 ( 1,5 d) 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  $\leq 50$  mm.

**Okapak G bends:** Bends for application G shaped long tempered cast fittings according to EN 10242, G1, G4, G8 with insulation  $\leq 30$  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 stell pipe according to EN 10253-1, type 3 ( 1,5 d) 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 G bends:** Bends for application G shaped long tempered cast fittings according to EN 10242, G1, G4, G8 with insulation  $\leq 50$  mm.

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



## OKAPAK 45° TWO-PIECE BENDS

Okapak 45°, welded bends with back strengthening perfectly match bends according to DIN 2605, Norm 3 (1,5 d) with insulation  $\leq 50$  mm.

## Technical Data - Okapak

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

Property	Value/Assessment	Test <sup>*1</sup>	Special Remark
<b>Temperature Range</b>			
Temperature Range	max. service temperature	+60 °C	If the object is correctly insulated and no direct contact exists to the jacket, the medium temperature can essentially be higher or lower.
	min. service temperature	-20 °C	
<b>Water vapour diffusion resistance</b>			
Water vapour diffusion resistance	μ	approx. 60.000	Tested according to DIN 53122-1
<b>Fire performance</b>			
Reaction to fire	Okapak SE	Low flammability (DIN 4102-B1)	D 5598 D 5599 Tested according to DIN 4102
	Okapak	Moderately flammable (DIN 4102-B2)	
<b>Other technical features</b>			
Density	Okapak SE 1,43 ± 0,02 g/cm <sup>3</sup> Okapak 1,39 ± 0,02 g/cm <sup>3</sup>		Tested according to DIN EN ISO 1183
Biological / chemical behaviour	Aging resistance: good. Stability against usual building materials: very good. Against chemicals: see separate list.		
Tensile impact strength	≥ 400 KJ/m <sup>2</sup>		Tested according to DIN EN ISO 8256
Tensile strength	> 35 N/mm <sup>2</sup>		Tested according to DIN EN ISO 527
Health aspects	Physiologically harmless, even when used in food processing plants. Odourless.		

\*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area.

## Okapak bends, 90°, two-pieces (welded)



Pipe max. Outside-Ø [mm]	20,0 mm			25,0 mm		
	Code	Application angle type	Pieces/carton	Code	Application angle type	Pieces/carton
15	PB1720	S,W	440	-	-	-
17	PB1720	S,W	440	PB2720	S,W,D	300
17	PB2120	G	360	-	-	-
21	PB2120	S,W,D,G	360	PB3320	S,W,D,G	240
27	PB2720	S,W,D,G	300	PB2725	S,W,D,G	240
33	PB3320	S,W,D	240	PB3325	S,W,D	220
38	PB2130	S	260	PB4820	S	240
42	PB2130	S,W,D	260	PB3330	S,W,D	220
44	PB2130	S,W,D	260	PB3330	S,W,D	220
48	PB4820	S,W	240	PB4825	S,W,D	180
57	PB6020	S	180	PB6025	S	160
60	PB6020	S,W,G	180	PB6025	S,W,G	160
60	PB6420 ●	D	160	PB6425 ●	D	160
64	PB6420 ●	S	160	PB6425 ●	S	160
70	PBS7020 ●	S	140	PB7025 ●	S	120
76	PB7025 ●	S	120	PB4840	W	120
76	-	-	-	PBS7625 ●	S	120
83	PBS8325 ●	S	120	PBS8325 ●	S	120
89	PBS8325 ●	S	120	PB6040	W	80
89	-	-	-	PB8925 ●	S	80
102	PBS10820 ●	S	60	-	-	-
108	PBS10820 ●	S	60	-	-	-
114	PBS10830	S	80	-	-	-

  

Pipe max. Outside-Ø [mm]	30,0 mm			35,0 mm		
	Code	Application angle type	Pieces/carton	Code	Application angle type	Pieces/carton
17	PB2725	S,D,G	240	-	-	-
17	PBW1730	W	240	-	-	-
21	PB2130	S,D	260	-	-	-
21	PBW2130	W	260	-	-	-
27	PB2730	S,W	260	-	-	-
33	PB3330	S,W	220	PB4830	S	160
38	PB4430	S	160	-	-	-
42	PB4430	S,W,D	160	PB6030	S	160
42	PB6420 ●	G	160	-	-	-
44	PB4430	S,W,D	160	PB6030	S	160
44	PB6420 ●	G	160	-	-	-
48	PB4830	S,W,D	160	PB6030	S	160
57	PB6030	S	160	PB6040	S	80
60	PB6030	S,W	160	PB6040	S	80
60	PB7025 ●	D	120	-	-	-
64	PBS6430 ●	S	140	PBS7035 ●	S	80
70	PBS7630	S	80	PBS7035 ●	S	80
76	PBS7630	S	80	PBS7040 ●	S	80
76	PBW7630	W	100	-	-	-
83	PBS8930	S	80	PBS8935 ●	S	80
89	PBS8930	S	80	PBS8935 ●	S	80
89	PBW8930	W	80	-	-	-
102	PBS10830	S	80	PBS10835	S	40
108	PBS10830	S	80	PBS10835	S	40
114	PBS10835	S	40	PBS11435 ●	S	40
127	PBS13330	S	40	PBS13335	S	40
133	PBS13330	S	40	PBS13335	S	40

## Okapak bends, 90°, two-pieces (welded)



Pipe max. Outside-Ø [mm]	40,0 mm			45,0 mm		
	Code	Application angle type	Pieces/carton	Code	Application angle type	Pieces/carton
15	PB1740 ●	S,W	180	-	-	-
17	PB1740 ●	S,W	180	-	-	-
21	PB2140	S,W	160	-	-	-
27	PB2740	S,W	160	-	-	-
33	PB3340	S,W	160	-	-	-
38	PB6030	S	160	-	-	-
42	PB4240	S,W,D	120	-	-	-
44	PB4240	S,W,D	120	-	-	-
48	PB4840	S,D	120	PB6040	S	80
48	PBW4840	W	120	-	-	-
57	PB6040	S	80	PBW8930	S	80
60	PB6040	S,D	80	PBW8930	S	80
64	PBS7040 ●	S	80	PBS7045 ●	S	40
70	PBS7040 ●	S	80	PBS7045 ●	S	40
76	PB7640	S,W	60	PBS7050 ●	S	60
83	PBS8940	S	40	PBS6060	S	60
89	PBS8940	S	40	PBS6060	S	60
89	PBW8940	W	40	-	-	-
102	PBS10840	S	40	PBS11440	S	40
108	PBS10840	S	40	PBS11445 ●	S	40
114	PBS11440	S	40	PBS11445 ●	S	40
114	PBW11440	W	40	-	-	-
127	PBS13340	S	40	PBS13345 ●	S	40
133	PBS13340	S	40	PBS13345 ●	S	40
140	PBS14040	S	30	PBS14045 ●	S	40
159	PBS15940	S	60	PBS15945 ●	S	60
168	PBS16840	S	60	PBS15950	S	40

  

Pipe max. Outside-Ø [mm]	50,0 mm			60,0 mm		
	Code	Application angle type	Pieces/carton	Code	Application angle type	Pieces/carton
17	-	-	-	PB7670	S	40
33	PB3350	S,W	80	-	-	-
42	PB4250	S,W	80	-	-	-
44	PB4250	S,W	80	-	-	-
48	PBS4850	S	60	-	-	-
57	PB6050	S	60	PBS6060	S	60
60	PB6050	S,W,D	60	PBS6060	S	60
64	PBS7050 ●	S	60	PBS6460 ●	S	40
70	PBS7050 ●	S	60	PBS7660	S	40
76	PB7650	S,W	40	PBS7660	S	40
83	PB8950	S	40	PBS8960 ▲	S	40
89	PB8950	S,W	40	PBS8960 ▲	S	40
102	PBS10850	S	40	PBS10860 ▲	S	40
108	PBS10850	S	40	PBS10860 ▲	S	40
114	PBS11450	S	40	PBS11460 ▲	S	40
114	PBW11450	W	40	-	-	-
127	PBS13350	S	60	PBS13360 ▲	S	40
133	PBS13350	S	60	PBS13360 ▲	S	40
140	PBS14050	S	60	PBS14060 ▲	S	40
159	PBS15950	S	40	PBS15960	S	40
168	PBS16850	S	40	PBS16860	S	40
194	PBS19450 ●	S	40	PBS19460 ●	S	40
219	PBS21950	S	40	PBS21960	S	40
267	-	-	-	PBS26760 ●	S	40

## Okapak bends, 90°, two-pieces (welded)



Pipe max. Outside- Ø [mm]	80,0 mm			100,0 mm		
	Code	Application angle type	Pieces/carton	Code	Application angle type	Pieces/carton
17	PB7670	S	40	-	-	-
70	PBS7680	S	40	-	-	-
76	PBS7680	S	40	-	-	-
83	PBS8980 ▲	S	40	-	-	-
89	PBS8980 ▲	S	40	-	-	-
102	PBS10880 ▲	S	40	PBS108100 ▲	S	40
108	PBS10880 ▲	S	40	PBS108100 ▲	S	40
114	PBS11480 ▲	S	40	PBS114100 ▲	S	40
127	PBS13380 ▲	S	40	PBS133100 ▲	S	40
133	PBS13380 ▲	S	40	PBS133100 ▲	S	40
140	PBS14080 ▲	S	40	PBS140100 ▲	S	40
159	PBS15980 ●▲	S	40	PBS159100 ▲	S	40
168	PBS16880 ▲	S	40	PBS168100 ▲	S	40
194	PBS19480 ●▲	S	40	PBS194100 ●▲	S	20
219	PBS21980 ▲	S	20	PBS219100 ▲	S	20
267	PBS26780 ●▲	S	20	PBS267100 ●▲	S	20

▲ Segment-similar form

● Item not in stock. Delivery on request. [MTO]

## Okapak bends 90° SML two-pieces (welded)



Nominal width DN	20,0 mm		30,0 mm	
	Code	Pieces/carton	Code	Pieces/carton
40	PB4820	240	PB4830	160
50	-	-	PB6030	160
50	PB6020	180	-	-
50	PB6030	160	PBW7630	100
100	PB7640	60	PB7650	40
125	PB8950	40	PBW11440	40
125	PBW11450	40	PBS7680	40

  

Nominal width DN	40,0 mm			
	Code	Pieces/carton		
40	PBW4840	120	-	-
50	PB6040	80	-	-
70	PB6050	60	-	-
100	PBW11440	40	-	-
125	PBW11450	40	-	-
150	PBS8980 ▲	40	-	-

▲ Segment-similar form

## Okapak bends 45° two-piece (welded)



Pipe max. Outside-Ø [mm]	20,0 mm		25,0 mm	
	Code	Pieces/carton	Code	Pieces/carton
21	PB452120	400	-	-
27	PB452720	300	PB452725	250
33	PB453320	260	PB453325	200
42	-	-	PB454225	140
44	-	-	PB454225	140
48	-	-	PB454825	180
60	-	-	PB456025	160