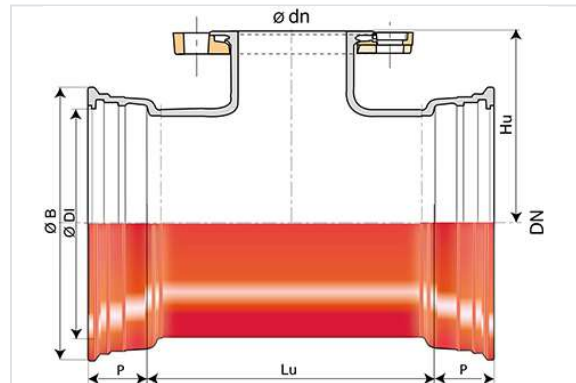
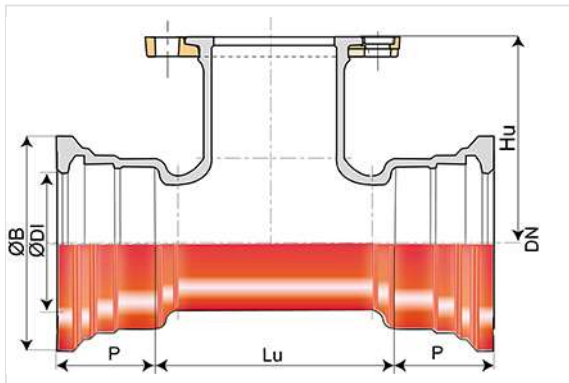


Tee INTEGRAL with 2 sockets STANDARD (and Rotatable Flange branch or Fixed Flange)



DN (mm)	Ødn (mm)	Lu (mm)	Hu (mm)	P (mm)	ØDI (mm)	ØB (mm)	PN 10		PN 16	
							Mass (kg)	References	Mass (kg)	References
80	80	183	165	85	101	167.5	12.800	TSA80UD1E	12.800	TSA80UD1E
100	80	185	177	88	121	187.5	15.000	TSB10UD1E	15.000	TSB10UD1E
100	100	210	180	88	121	187.5	16.800	TSB10UD1F	16.800	TSB10UD1F
150	80	165	210	94	173	241	20.200	TSB15UD1E	20.200	TSB15UD1E
150	100	190	215	94	173	241	22.000	TSB15UD1F	22.000	TSB15UD1F
150	150	305	220	94	173	241	30.100	TSB15UD1J	30.100	TSB15UD1J
200	200	360	260	100	225	294	45.500	TSB20UD1K	45.400	TSB20UD2K
200	80	170	240	100	225	294	27.800	TSB20UD1E	27.800	TSB20UD1E
200	100	195	245	100	225	294	29.900	TSB20UD1F	29.900	TSB20UD1F
250	250	404	300	105	277	351	70.600	TSB25UD1L	70.200	TSB25UD2L
250	80	234	250	105	277	351	44.600	TSB25UD1E	44.600	TSB25UD1E
250	100	234	270	105	277	351	44.500	TSB25UD1F	44.500	TSB25UD1F
250	150	251	280	105	277	351	48.000	TSB25UD1J	48.000	TSB25UD1J
250	200	344	290	105	277	351			60.200	TSB25UD2K
300	80	237	298	110	329	408	58.900	TSB30UD1E	58.900	TSB30UD1E
300	100	237	300	110	329	408	58.100	TSB30UD1F	58.100	TSB30UD1F
300	150	347	310	110	329	408	72.700	TSB30UD1J	72.700	TSB30UD1J
300	200	347	320	110	329	408			76.300	TSB30UD2K
300	300	467	340	110	329	408			98.700	TSB30UD2M
350	80	194	310	110	381.4	464.3	70.800	TSB35UD1E	70.800	TSB35UD1E

DN (mm)	Ødn (mm)	Lu (mm)	Hu (mm)	P (mm)	ØDI (mm)	ØB (mm)	PN 10		PN 16	
							Mass (kg)	References	Mass (kg)	References
350	100	195	330	110	381.4	464.3	71.800	TSB35UD1F	71.800	TSB35UD1F
350	200	314	350	110	381.4	464.3			91.000	TSB35UD2K
350	350	485	380	110	381.4	464.3			132.000	TSB35UD2Y
400	200	315	380	112	432.4	515.3	107.300	TSB40UD1K	107.200	TSB40UD2K
400	400	545	420	112	432.4	515.3	164.300	TSB40UD1N	168.400	TSB40UD2N
400	100	195	350	112	432.4	515.3	82.800	TSB40UD1F	82.800	TSB40UD1F
400	150	315	370	112	432.4	515.3	102.500	TSB40UD1J	102.500	TSB40UD1J
500	400	555	480	117.5	535.5	628	214.680	TSB50UD1N	218.800	TSB50UD2N
500	500	675	500	117.5	535.5	628	264.000	TSB50UD1Q	277.000	TSB50UD2Q
500	100	210	420	117.5	535.5	628	121.500	TSB50UD1F	121.500	TSB50UD1F
500	150	325	430	117.5	535.5	628	136.600	TSB50UD1J	136.600	TSB50UD1J
500	200	325	440	117.5	535.5	628			150.300	TSB50UD2K
600	200	335	500	132.5	638.6	737	192.000	TSB60UD1K	196.500	TSB60UD2K
600	400	570	540	132.5	638.6	737	270.680	TSB60UD1N	274.800	TSB60UD2N
600	600	800	580	132.5	638.6	737	373.000	TSB60UD1R	398.000	TSB60UD2R
700	200	365	525	150	742.2	861	272.200	TSB70UD1K	265.000	TSB70UD2K
700	400	585	555	150	742.2	861	354.000	TSB70UD1N	351.000	TSB70UD2N
700	700	915	600	150	742.2	861	498.000	TSB70TD1S	546.000	TSB70TD2S
700	150	365	520	150	742.2	861	269.200	TSB70UD1J	269.200	TSB70UD1J
800	200	355	585	160	846.3	972	335.000	TSB80UD1K	335.000	TSB80UD2K
800	400	575	615	160	846.3	972	430.000	TSB80UD1N	435.000	TSB80UD2N
800	800	1015	675	160	846.3	972	663.000	TSB80TD1T	674.000	TSB80TD2T
800	150	355	580	160	846.3	972	332.000	TSB80UD1J	332.000	TSB80UD1J
900	200	375	645	175	949.4	1080	420.000	TSB90UD1K	420.000	TSB90UD2K
900	400	595	675	175	949.4	1080	532.000	TSB90UD1N		
900	900	1145	750	175	949.4	1080	867.000	TSB90TD1U		
1000	200	379	705	185	1052.5	1189	510.000	TSC10UD1K		
1000	400	598.5	735	185	1052.5	1189	639.000	TSC10UD1N		
1000	1000	1258	830	185	1052.5	1189	1115.000	TSC10TD1V	1132.000	TSC10TD2V
1000	150	379	705	185	1052.5	1189	447.000	TSC10UD1J	447.000	TSC10UD1J

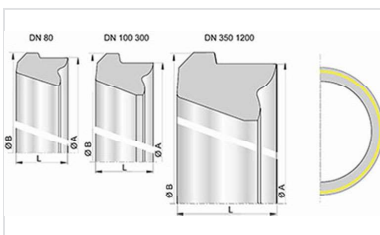
Field of use:

- Separate sewer system and combined sewer system
- Application: gravity flow and rising main sewerage systems
- Type of effluent: domestic wastewater and rainwater
- For networks with rising main under pressure
- For effluents between pH1 and pH13

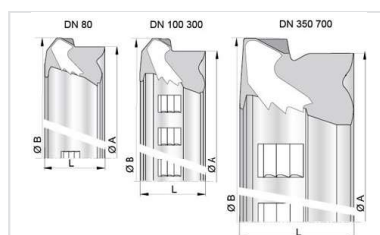
Main characteristics:

- External and internal coating: red epoxy powder 250µm (PECR)
- Type of joint: Standard
- Standard Gasket in Nitrile
- EN 598 / CE Marking
- Declaration of performances [DoP-INTEGRAL005EN](#)
- Mark NF
- Designed according to the regulatory texts:
 - NF EN 476: general prescriptions for components used in the networks
 - NF EN 752: Conception of sewage projects
 - NF EN 1610: Reception of the works
 - CCTG: Fascicule 70 (sewage work)

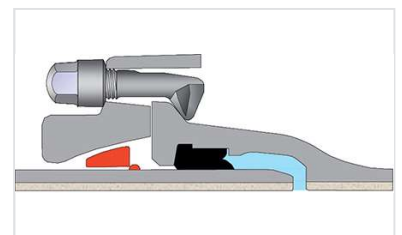
Linked products



Nitrile STD Gasket
DN80-2000



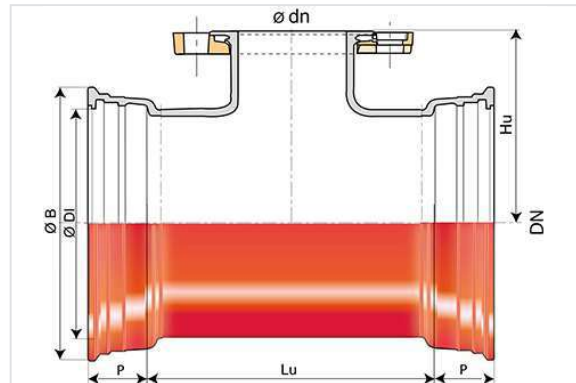
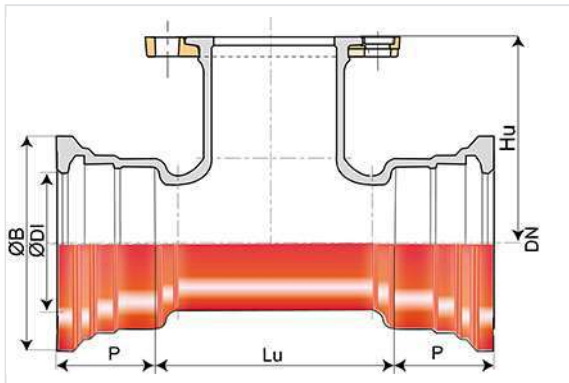
Gasket ViLoK® (NBR STD
Vi) DN80-700



STD Ve joint for INTEGRAL
STD Fittings

The information on this sketch is, to the best of our knowledge correct at the time of printing. However Saint-Gobain are constantly looking at ways of improving their products and services therefore reserve the right to change without prior notice, any of the data shown. Any orders placed will be subject to our Standard Conditions of Sale, available on request.

Tee INTEGRAL with 2 sockets STANDARD (and Rotatable Flange branch or Fixed Flange)



DN (mm)	Ødn (mm)	Lu (mm)	Hu (mm)	P (mm)	ØDI (mm)	ØB (mm)	PN 10		PN 16	
							Mass (kg)	References	Mass (kg)	References
80	80	183	165	85	101	167.5	12.800	TSA80UD1E	12.800	TSA80UD1E
100	80	185	177	88	121	187.5	15.000	TSB10UD1E	15.000	TSB10UD1E
100	100	210	180	88	121	187.5	16.800	TSB10UD1F	16.800	TSB10UD1F
150	80	165	210	94	173	241	20.200	TSB15UD1E	20.200	TSB15UD1E
150	100	190	215	94	173	241	22.000	TSB15UD1F	22.000	TSB15UD1F
150	150	305	220	94	173	241	30.100	TSB15UD1J	30.100	TSB15UD1J
200	200	360	260	100	225	294	45.500	TSB20UD1K	45.400	TSB20UD2K
200	80	170	240	100	225	294	27.800	TSB20UD1E	27.800	TSB20UD1E
200	100	195	245	100	225	294	29.900	TSB20UD1F	29.900	TSB20UD1F
250	250	404	300	105	277	351	70.600	TSB25UD1L	70.200	TSB25UD2L
250	80	234	250	105	277	351	44.600	TSB25UD1E	44.600	TSB25UD1E
250	100	234	270	105	277	351	44.500	TSB25UD1F	44.500	TSB25UD1F
250	150	251	280	105	277	351	48.000	TSB25UD1J	48.000	TSB25UD1J
250	200	344	290	105	277	351			60.200	TSB25UD2K
300	80	237	298	110	329	408	58.900	TSB30UD1E	58.900	TSB30UD1E
300	100	237	300	110	329	408	58.100	TSB30UD1F	58.100	TSB30UD1F
300	150	347	310	110	329	408	72.700	TSB30UD1J	72.700	TSB30UD1J
300	200	347	320	110	329	408			76.300	TSB30UD2K
300	300	467	340	110	329	408			98.700	TSB30UD2M
350	80	194	310	110	381.4	464.3	70.800	TSB35UD1E	70.800	TSB35UD1E

DN (mm)	Ødn (mm)	Lu (mm)	Hu (mm)	P (mm)	ØDI (mm)	ØB (mm)	PN 10		PN 16	
							Mass (kg)	References	Mass (kg)	References
350	100	195	330	110	381.4	464.3	71.800	TSB35UD1F	71.800	TSB35UD1F
350	200	314	350	110	381.4	464.3			91.000	TSB35UD2K
350	350	485	380	110	381.4	464.3			132.000	TSB35UD2Y
400	200	315	380	112	432.4	515.3	107.300	TSB40UD1K	107.200	TSB40UD2K
400	400	545	420	112	432.4	515.3	164.300	TSB40UD1N	168.400	TSB40UD2N
400	100	195	350	112	432.4	515.3	82.800	TSB40UD1F	82.800	TSB40UD1F
400	150	315	370	112	432.4	515.3	102.500	TSB40UD1J	102.500	TSB40UD1J
500	400	555	480	117.5	535.5	628	214.680	TSB50UD1N	218.800	TSB50UD2N
500	500	675	500	117.5	535.5	628	264.000	TSB50UD1Q	277.000	TSB50UD2Q
500	100	210	420	117.5	535.5	628	121.500	TSB50UD1F	121.500	TSB50UD1F
500	150	325	430	117.5	535.5	628	136.600	TSB50UD1J	136.600	TSB50UD1J
500	200	325	440	117.5	535.5	628			150.300	TSB50UD2K
600	200	335	500	132.5	638.6	737	192.000	TSB60UD1K	196.500	TSB60UD2K
600	400	570	540	132.5	638.6	737	270.680	TSB60UD1N	274.800	TSB60UD2N
600	600	800	580	132.5	638.6	737	373.000	TSB60UD1R	398.000	TSB60UD2R
700	200	365	525	150	742.2	861	272.200	TSB70UD1K	265.000	TSB70UD2K
700	400	585	555	150	742.2	861	354.000	TSB70UD1N	351.000	TSB70UD2N
700	700	915	600	150	742.2	861	498.000	TSB70TD1S	546.000	TSB70TD2S
700	150	365	520	150	742.2	861	269.200	TSB70UD1J	269.200	TSB70UD1J
800	200	355	585	160	846.3	972	335.000	TSB80UD1K	335.000	TSB80UD2K
800	400	575	615	160	846.3	972	430.000	TSB80UD1N	435.000	TSB80UD2N
800	800	1015	675	160	846.3	972	663.000	TSB80TD1T	674.000	TSB80TD2T
800	150	355	580	160	846.3	972	332.000	TSB80UD1J	332.000	TSB80UD1J
900	200	375	645	175	949.4	1080	420.000	TSB90UD1K	420.000	TSB90UD2K
900	400	595	675	175	949.4	1080	532.000	TSB90UD1N		
900	900	1145	750	175	949.4	1080	867.000	TSB90TD1U		
1000	200	379	705	185	1052.5	1189	510.000	TSC10UD1K		
1000	400	598.5	735	185	1052.5	1189	639.000	TSC10UD1N		
1000	1000	1258	830	185	1052.5	1189	1115.000	TSC10TD1V	1132.000	TSC10TD2V
1000	150	379	705	185	1052.5	1189	447.000	TSC10UD1J	447.000	TSC10UD1J

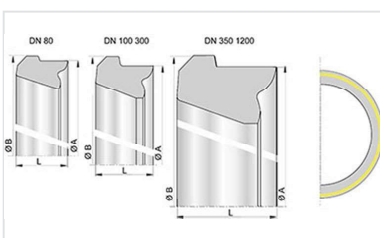
Field of use:

- Separate sewer system and combined sewer system
- Application: gravity flow and rising main sewerage systems
- Type of effluent: domestic wastewater and rainwater
- For networks with rising main under pressure
- For effluents between pH1 and pH13

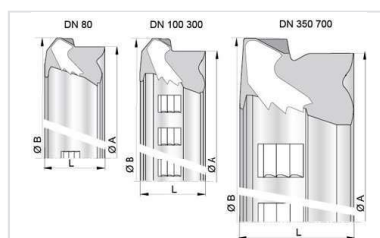
Main characteristics:

- External and internal coating: red epoxy powder 250µm (PECR)
- Type of joint: Standard
- Standard Gasket in Nitrile
- EN 598 / CE Marking
- Declaration of performances [DoP-INTEGRAL005EN](#)
- Mark NF
- Designed according to the regulatory texts:
 - NF EN 476: general prescriptions for components used in the networks
 - NF EN 752: Conception of sewage projects
 - NF EN 1610: Reception of the works
 - CCTG: Fascicule 70 (sewage work)

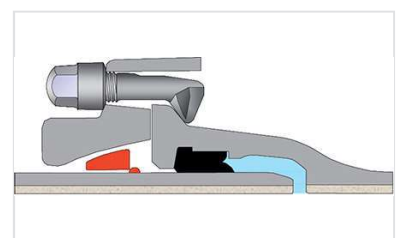
Linked products



Nitrile STD Gasket
DN80-2000



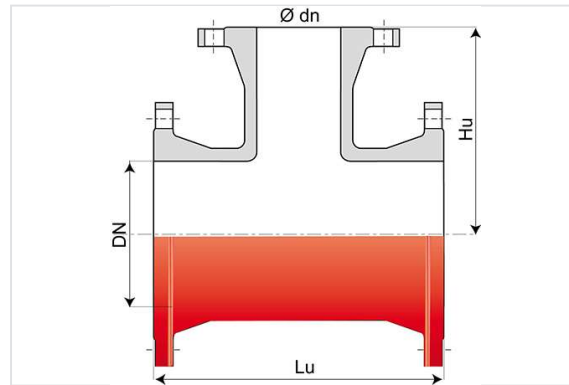
Gasket ViLoK® (NBR STD
Vi) DN80-700



STD Ve joint for INTEGRAL
STD Fittings

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Tee INTEGRAL with 3 Fixed Flanges



DN (mm)	Ø dn (mm)	Lu (mm)	Hu (mm)	PN 10		PN 16		PN 25	
				Mass (kg)	References	Mass (kg)	References	Mass (kg)	References
80	80	330	165	15.600 kg	BBA80TE1EFF	15.600 kg	BBA80TE1EFF	15.600 kg	BBA80TE1EFF
100	50	369	185	17.800 kg	BBB10TE1BFF	17.800 kg	BBB10TE1BFF		
100	80	360	175	18.400 kg	BBB10TE1EFF	18.400 kg	BBB10TE1EFF		
100	80	360	180	19.300 kg	BBB10TE1FFF	19.300 kg	BBB10TE1FFF		
150	80	440	205	24.000 kg	BBB15TE1EFF	24.000 kg	BBB15TE1EFF		
150	100	440	210	29.500 kg	BBB15TE1FFF	29.500 kg	BBB15TE1FFF		
150	150	440	220	32.500 kg	BBB15TE1JFF	32.500 kg	BBB15TE1JFF		
200	80	520	235			33.700 kg	BBB20TE2EFF		
200	100	520	240			42.500 kg	BBB20TE2FFF		
200	150	520	250			40.700 kg	BBB20TE2JFF		
200	200	520	260			49.100 kg	BBB20TE2KFF		
250	80	700	265			45.300 kg	BBB25TE2EFF		
250	100	700	275			47.200 kg	BBB25TE2FFF		
250	150	700	300			53.400 kg	BBB25TE2JFF		
250	200	700	325			60.000 kg	BBB25TE2KFF		
250	250	700	350			72.000 kg	BBB25TE2LFF		
300	200	800	350	103.000 kg	BBB30TE1KFF	103.000 kg	BBB30TE2KFF		
300	80	800	290			94.500 kg	BBB30TE2EFF		
300	100	800	300			88.700 kg	BBB30TE2FFF		
300	150	800	325			100.000 kg	BBB30TE2JFF		
300	250	800	380			85.000 kg	BBB30TE2LFF		

DN (mm)	Ø dn (mm)	Lu (mm)	Hu (mm)	PN 10		PN 16		PN 25	
				Mass (kg)	References	Mass (kg)	References	Mass (kg)	References
300	300	800	400			115.000 kg	BBB30TE2MFF		
350	80	850	325			120.000 kg	BBB35TE2EFF		
350	100	850	325			122.000 kg	BBB35TE2FFF		
350	150	850	325			123.000 kg	BBB35TE2JFF		
350	200	850	325			141.500 kg	BBB35TE2KFF		
350	250	850	325			132.000 kg	BBB35TE2LFF		
350	300	850	425			144.000 kg	BBB35TE2MFF		
350	350	850	425			153.000 kg	BBB35TE2YFF		
400	80	900	350			167.000 kg	BBB40TE2EFF		
400	100	900	350			154.000 kg	BBB40TE2FFF		
400	150	900	350			155.000 kg	BBB40TE2JFF		
400	200	900	350			159.000 kg	BBB40TE2KFF		
400	250	900	350			161.000 kg	BBB40TE2LFF		
400	300	900	450			177.000 kg	BBB40TE2MFF		
400	350	900	450			185.000 kg	BBB40TE2YFF		
400	400	900	450			173.200 kg	BBB40TE2NFF		
450	80	950	375			187.000 kg	BBB45TE2EFF		
450	100	950	375			188.000 kg	BBB45TE2FFF		
450	150	950	375			190.000 kg	BBB45TE2JFF		
450	200	950	375			193.000 kg	BBB45TE2KFF		
450	250	950	375			197.000 kg	BBB45TE2LFF		
450	300	950	475			213.000 kg	BBB45TE2MFF		
450	350	950	475			221.000 kg	BBB45TE2YFF		
450	400	950	475			229.000 kg	BBB45TE2NFF		
450	450	950	475			237.000 kg	BBB45TE2PFF		
500	100	1000	400			261.000 kg	BBB50TE2FFF		
500	150	1000	400			241.000 kg	BBB50TE2JFF		
500	200	1000	400			246.000 kg	BBB50TE2KFF		
500	250	1000	400			274.000 kg	BBB50TE2LFF		
500	300	1000	500			290.000 kg	BBB50TE2MFF		
500	350	1000	500			345.000 kg	BBB50TE2YFF		
500	400	1000	500			277.000 kg	BBB50TE2NFF		
500	450	1000	500			290.000 kg	BBB50TE2PFF		

DN (mm)	Ø dn (mm)	Lu (mm)	Hu (mm)	PN 10		PN 16		PN 25	
				Mass (kg)	References	Mass (kg)	References	Mass (kg)	References
500	500	1000	500			304.000 kg	BBB50TE2QFF		
600	80	1100	450			349.000 kg	BBB60TE2EFF		
600	100	1100	450			330.000 kg	BBB60TE2FFF		
600	150	1100	450			398.000 kg	BBB60TE2JFF		
600	200	1100	450			408.000 kg	BBB60TE2KFF		
600	250	1100	450			358.000 kg	BBB60TE2LFF		
600	300	1100	550			417.000 kg	BBB60TE2MFF		
600	350	1100	550			385.000 kg	BBB60TE2YFF		
600	400	1100	550			436.000 kg	BBB60TE2NFF		
600	450	1100	550			404.000 kg	BBB60TE2PFF		
700	700	1200	600	510.000 kg	BBB70TE1SFF	510.000 kg	BBB70TE2SFF		
900	900	1500	750	907.000 kg	BBB90TE1UFF	940.000 kg	BBB90TE2UFF	1083.000 kg	BBB90TE3UFF
1000	1000	1650	830	1194.000 kg	BBC10TE1VFF	1260.000 kg	BBC10TE2VFF		
1200	700	1470	900	1586.000 kg	BBC12TE1SFF				
1200	800	1470	915	1602.000 kg	BBC12TE1TFF				
1200	1000	1700	945	1577.000 kg	BBC12TE1VFF	1686.000 kg	BBC12TE2VFF		
1200	1200	1900	950	1810.000 kg	BBC12TE1BFF	1979.000 kg	BBC12TE2BFF		
1400	1400	2470	1100	2676.000 kg	BBC14TE1CFF	2833.000 kg	BBC14TE2CFF		
1500	1500	2470	1100	2807.000 kg	BBC15TE1DFF	3093.000 kg	BBC15TE2DFF		
1600	1000	2065	1150	3216.000 kg	BBC16TE1VFF				
1600	1600	2730	1240	3670.000 kg	BBC16TE1EFF				
1800	800	1885	1230	3290.000 kg	BBC18TE1TFF				
1800	900	1885	1245			3700.000 kg	BBC18TE2UFF		

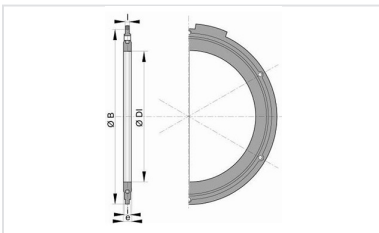
Field of use:

- Separate sewer system and combined sewer system
- Application: gravity flow and rising main sewerage systems
- Type of effluent: domestic wastewater and rainwater
- For networks with rising main under pressure
- For effluents between pH1 and pH13

Main characteristics:

- External and internal coating: red epoxy powder 250µm (PECR)
- EN 598 / CE Marking
- Declaration of performances [DoP-INTEGRAL005EN](#)
- Designed according to the regulatory texts:
 - NF EN 476: general prescriptions for components used in the networks
 - NF EN 752: Conception of sewage projects
 - NF EN 1610: Reception of the works
 - CCTG: Fascicule 70 (sewage work)

Linked products



Flanged joint with hot galvanized steel bolts, nuts and washers for sewage

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