

ADVANTAGES OF EVOPIPES DRAINAGE PIPES AND CHAMBERS





Mechanical

Excellent balance between product ring stiffness, ring flexibility and impact resistance.

Thermal

The products can be installed in low temperatures until -10 °C





Chemical

Products are resistant to exposure to aggressive substances present in sewage and subsoil from pH2 (acidic medium) until pH12 (alkaline medium)

Ecologic

The products are environment-friendly and recyclable after several decades in operation





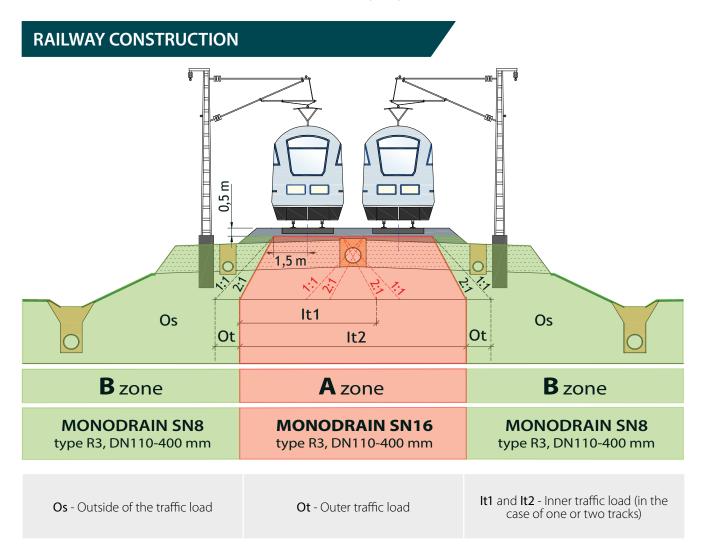
Product lifetime ≥ **100 years.**



According to Deutsche Bahn specification DBS 918 064

Product name	Description	Standard
MONODRAIN SN8	R3 type drainage pipe with smooth internal and external surface	• DBS 918 064 • EN 1852-1 • DIN 4262-1 • DIN 4102-1*
MONODRAIN SN16	R3 type drainage pipe with smooth internal and external surface	• DBS 918 064 • EN 1852-1 • DIN 4262-1 • DIN 4102-1*

^{*}On request available pipe conform to DIN 4102-1 (used for tunnel construction, self-extinguishing, class B2).





ID:BR.RW.EN-4V.24





MONODRAIN

DN/OD series R3 type drainage pipe with smooth internal and external surface. Water inlet perforation opening area ≥100 cm²/m. The products are supplied in straight 6m bars. Pipe is equipped with **SEAL LOCK** socket and integrated sealing ring. The supplied sealing ring grants a hermetic seal with a pressure rating of ≥0,5 bar (for coupling area). The supplied sealing rings conform to EN 681-1.

Conformity DBS 918 064, EN 1852-1, DIN 4262-1, DIN 4102-1*

Type: R3 (smooth-wall pipes) Material: polypropylene (PP)

Ring stiffness: SN8

Perforation opening width:

Perforation type: TP(360°), LP(220°±10°), MP(≤120°), UP

DN/OD: 110, 160, 200, 250 mm

Ring stiffness **SN8** Water inlet perforation opening area ≥100 cm²/m Perforation type Cross section View form top of the pipe Perforation opening, mm (360°) 110, 160, 200, 250 220°±10° LP (220°±10°) 110, 160, 200, 250 ≤120° MP 110, 160, 200, 250 (≤120°)

Notes

*On request available pipe conform to DIN 4102-1 (used for tunnel construction, self-extinguishing, class B2)





MONODRAIN

DN/OD series R3 type drainage pipe with smooth internal and external surface. Due to the SN16 ring stiffness class the pipe is perfectly suited for installation works in zones/places with large traffic loads. Water inlet perforation opening area ≥100 cm²/m. The products are supplied in straight 6m bars. Pipe is equipped with SEAL LOCK socket and integrated sealing ring. The supplied sealing ring grants a hermetic seal with a pressure rating of ≥0,5 bar (for coupling area). The supplied sealing rings conform to EN 681-1.

Conformity DBS 918 064, EN 1852-1, DIN 4262-1, DIN 4102-1*

Type: R3 (smooth-wall pipes)
Material: polypropylene (PP)

Ring stiffness: SN16

Perforation opening width:

5 mm

Perforation type: TP(360°), LP(220°±10°), MP(≤120°), UP **DN/OD:** 110, 160, 200 mm

Ring stiffness **SN16**Water inlet perforation opening area ≥100 cm²/m

Water inlet pe	rforation opening a	rea ≥100 cm²/m	
Perforation type	Cross section	View form top of the pipe	Perforation opening, mm
TP (360°)	\$ 1200	DN/OD 110, 160, 200	
LP (220°±10°)	220°±10°	DN/OD 110, 160, 200	5
MP (≤120°)	≤120°	DN/OD 110, 160, 200	

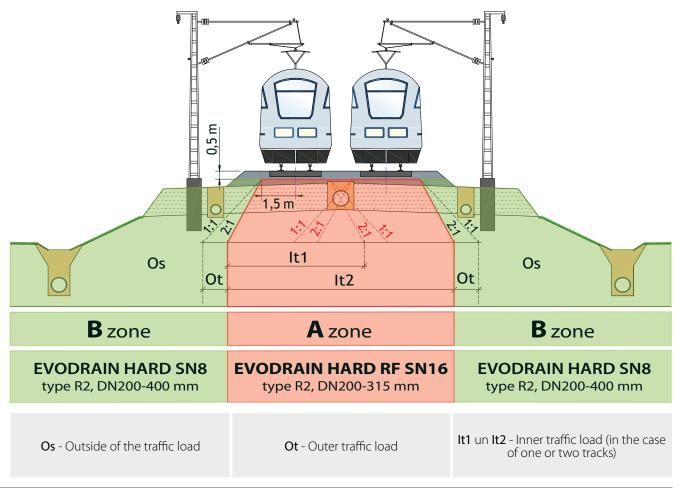
Notes

*On request available pipe conform to DIN 4102-1 (used for tunnel construction, self-extinguishing, class B2)



Product name	Description	Standard
EVODRAIN HARD PP DN/OD	R2 type drainage pipe with profiled (corrugated) external and smooth internal surface, SN16	• EN 13476-3 • DIN 4262-1
EVODRAIN HARD PP DN/OD	R2 type drainage pipe with profiled (corrugated) external and smooth internal surface, SN8	• EN 13476-3 • DIN 4262-1
EVODRAIN HARD PP DN/ID	R2 type drainage pipe with profiled (corrugated) external and smooth internal surface, SN16	• EN 13476-3 • DIN 4262-1
EVODRAIN HARD PP DN/ID	R2 type drainage pipe with profiled (corrugated) external and smooth internal surface, SN8	• EN 13476-3 • DIN 4262-1

RAILWAY CONSTRUCTION







EVODRAIN HARD PP DD/OD

DN/OD series R2 type double-wall pipe with profiled (corrugated) external and smooth internal surface. Due to the SN16 ring stiffness class the pipe is perfectly suited for installation works in zones/places with large traffic loads. The products are supplied in straight 6m bars. Each bar is equipped with welded on solid PP coupling and rubber sealing ring. The supplied sealing rings conform to EN 681-1.

Conformity DIN 4262-1, EN 13476-3

Type: R2 (double-wall pipes)
Material: polypropylene (PP)

Ring stiffness: SN16

Perforation opening width:

2 mm

Perforation type: TP(360°), LP(220°±10°) LP(180°±10°),

MP(≤120°), ÚP

DN/OD: 200, 250, 315, 400 mm

Ring stiffn	ess SN16			
Perforation type	Cross section	View form top of the pipe	Water inlet perforation opening area	Perforation opening, mm
TP (360°)	DN/OD200, 250, 315 DN/OD400	DN/OD 200, 250, 315 DN/OD 400	DN/OD 200, 250, 315, 400 ≥100 cm²/m	
LP (220°±10°)	220°±10° DN/OD200, 250, 315 DN/OD400	DN/OD 200, 250, 315 DN/OD 400	DN/OD 200, 250, 315, 400 ≥100 cm ² /m	2
MP (180°±10°)	180°±10° 180°±10° DN/OD200, 250, 315 DN/OD400	DN/OD 200, 250, 315 DN/OD 400	DN/OD 200, 250, 315 ≥100 cm²/m DN/OD 400 ≥50 cm²/m	
MP (≤120°)	DN/OD200, 250, 315, 400	DN/OD 200, 250, 315, 400	DN/OD 200, 250, 315, 400 ≥50 cm²/m	





EVODRAIN HARD PP DN/OD

DN/OD series R2 type double-wall pipe with profiled (corrugated) external and smooth internal surface. The products are supplied in straight 6m bars. Each bar is equipped with welded on solid PP coupling and rubber sealing ring. The supplied sealing rings conform to EN 681-1.

Conformity DIN 4262-1, EN 13476-3

Type: R2 (double-wall pipes) Material: polypropylene (PP)

Ring stiffness: SN8

Perforation opening width:

2 mm

Perforation type: TP(360°), LP(220°±10°), LP(180°±10°),

MP(≤120°), UP

DN/OD: 200, 250, 315, 400 mm

Ring stiffn	ess SN8			
Perforation type	Cross section	View form top of the pipe	Water inlet perforation opening area	Perforation opening, mm
TP (360°)	DN/OD200, 250, 315 DN/OD400	DN/OD 200, 250, 315 DN/OD 400	DN/OD 200, 250, 315, 400 ≥100 cm²/m	
LP (220°±10°)	220°±10° 220°±10° DN/OD200, 250, 315 DN/OD400	DN/OD 200, 250, 315 DN/OD 400	DN/OD 200, 250, 315, 400 ≥100 cm ² /m	2
MP (180°±10°)	180°±10° 180°±10° DN/OD200, 250, 315 DN/OD400	DN/OD 200, 250, 315 DN/OD 400	DN/OD 200, 250, 315 ≥100 cm²/m DN/OD 400 ≥50 cm²/m	
MP (≤120°)	DN/OD200, 250, 315, 400	DN/OD 200, 250, 315, 400	DN/OD 200, 250, 315, 400 ≥50 cm²/m	





EVODRAIN HARD PP DN/ID

DN/OD series R2 type double-wall pipe with profiled (corrugated) external and smooth internal surface. The products are supplied in straight 6m bars. Each bar is equipped with integrated expanded coupling for flawless connections. Rubber sealing ring (to be installed on the pipe at the construction site) conform to EN 681-1.

Conformity DIN 4262-1, EN 13476-3

Type: R2 (double-wall pipes)
Material: polypropylene (PP)

Ring stiffness: SN16

Perforation opening width:

2 mm

Perforation type: TP(360°), LP(220°±10°), LP(180°±10°),

MP(≤120°), ÚP

DN/ID: 300, 400, 500 mm

Ring stiffn	ess SN16			
Perforation type	Cross section	View form top of the pipe	Water inlet perforation opening area	Perforation opening, mm
TP (360°)	DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400, 500	DN/ID 300, 400, 500 ≥100 cm²/m	
LP (220°±10°)	220°±10° 220°±10° DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400, 500	DN/ID 400, 300, 500 ≥100 cm²/m	2
MP (180°±10°)	180°±10° 180°±10° DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400, 500	DN/ID 300, 400, 500 ≥50 cm²/m	
MP (≤120°)	S120° ≤120° DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400, 500	DN/ID 300 ≥50 cm²/m DN/ID 400 ≥75 cm²/m DN/ID 500 ≥50 cm²/m	





EVODRAIN HARD PP DN/ID

DN/OD series R2 type double-wall pipe with profiled (corrugated) external and smooth internal surface. The products are supplied in straight 6m bars. Each bar is equipped with integrated expanded coupling for flawless connections. Rubber sealing ring (to be installed on the pipe at the construction site) conform to EN 681-1. Conformity DIN 4262-1, EN 13476-3

Type: R2 (double-wall pipes) Material: polypropylene (PP)

Ring stiffness: SN8

Perforation opening width:

2 mm

Perforation type: TP(360°), LP(220°±10°), LP(180°±10°),

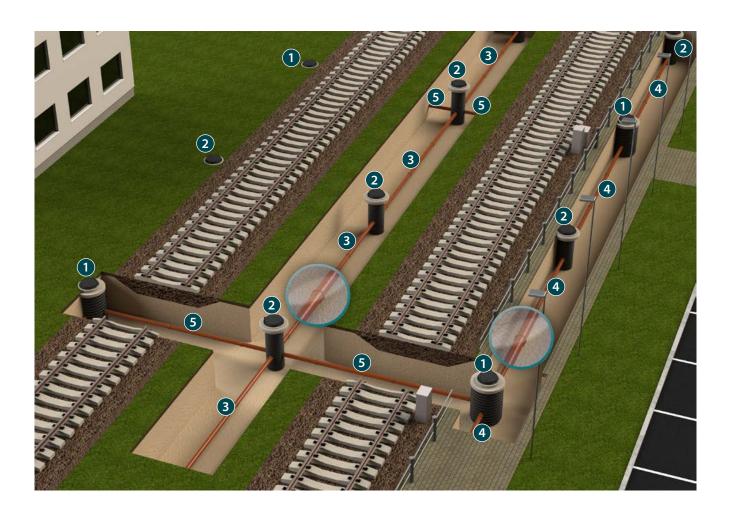
MP(≤120°), UP

DN/ID: 300, 400, 500 mm

Ring stiffn	ess SN8			
Perforation type	Cross section	View form top of the pipe	Water inlet perforation opening area	Perforation opening, mm
TP (360°)	DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400, 500	DN/ID 300, 400, 500 ≥100 cm²/m	
LP (220°±10°)	220°±10° 220°±10° DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400, 500	DN/ID 400, 300, 500 ≥100 cm²/m	2
MP (180°±10°)	180°±10° 180°±10° DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400,500	DN/ID 300, 400, 500 ≥50 cm²/m	
MP (≤120°)	S120° ≤120° DN/ID300 DN/ID400, 500	DN/ID 300 DN/ID 400, 500	DN/ID 300 ≥50 cm²/m DN/ID 400 ≥75 cm²/m DN/ID 500 ≥50 cm²/m	

DRAINAGE CHAMBERS FOR RAILWAY CONSTRUCTION





Legend

1	Drainage manhole with sediment trap CSL 1000/600D
2	Drainage chamber with sediment trap CSL 600D
3	Drainage pipe MONODRAIN SN16 DN/OD 110-400 mm, type R3, perforation type TP (360°)
4	Drainage pipe MONODRAIN SN8 DN/OD 110-400 mm, type R3, perforation type TP (360°)
5	Drainage pipe MONODRAIN SN16 DN/OD 110-400 mm, type R3, perforation type UP (unperforated)

DRAINAGE CHAMBERS FOR RAILWAY CONSTRUCTION





CRS 400/315D

Drainage chamber with diameter of DN/OD 400 mm and sediment trap.* Double-wall PP height adjustment shaft with welded on base. Industrially welded connections. Cast iron cover, conform to EN 124-2, traffic load class D400(40t), with PP smooth-wall telescopic pipe DN 315mm, height of the telescopic pipe — 0,6m. Rubber cuff DN400/315 mm.

*standard set 0,4m with volume 38l=38dm³; on request available chamber with other height of sediment trap (or without it).

Chamber top: EN 124-2

Telescopic pipe: EN 13476-2

Shaft: EN 13476-3, EN 14802

Connections: DN/OD 110, 160, 200, 250 mm DN/ID

300 mm



CSL 600D

Drainage chamber with diameter of DN/ID 600 mm and sediment trap.* Double-wall PP height adjustment shaft with welded on base. Industrially welded connections. Reinforced concrete support ring, h=160mm. Reinforced concrete height adjustment ring, h=80mm (adjustment height 60mm, installed if necessary, no more than 4 pieces can be stacked). Stationary type cast iron cover, conform to EN 124-2, traffic load class D400(40t), opening DN/ID>600 mm.

*standard set 0,4m with volume 145l=145dm³; on request available manhole with other height of sediment trap (or without it).

Chamber top: EN 124-2

Reinforced concrete support

rings: EN 206, EN 1917, EN 1917/AC

Shaft: EN 13476-3, EN 14802

Connections:

DN/OD

110, 160, 200, 250, 315 mm

DN/ID 300, 400 mm





Drainage manhole with diameter of DN/ID 1000 mm and sediment trap.* Double-wall PP height adjustment shaft with welded on base. Industrially welded connections. Reinforced concrete support ring, h=160mm. Reinforced concrete height adjustment ring, h=80mm (adjustment height 60mm, installed if necessary, no more than 4 pieces can be stacked). Stationary type cast iron cover, conform to EN 124-2, traffic load class D400(40t), opening DN/ID>600 mm.

*standard set 0,4m with volume 309l=309dm³; on request available manhole with other height of sediment trap (or without it).

Manhole top: EN 124-2

Reinforced concrete support

rings: EN 206, EN 1917,

EN 1917/AC

Shaft: EN 13476-3, EN 14802

Connections:

DN/OD

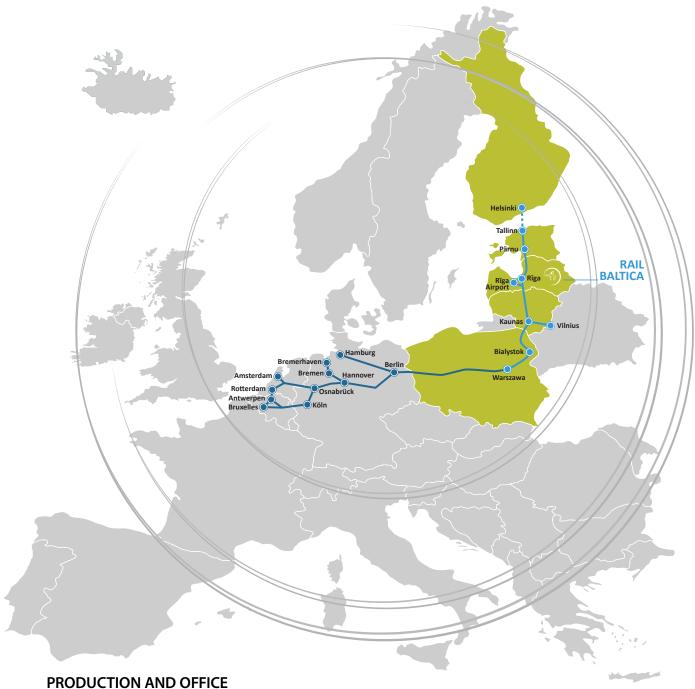
110, 160, 200, 250, 315, 400 mm

DN/ID

300, 400, 500 mm



Drainage systems for railway construction



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