



Demco TerraDrain™ is a heavy-duty perforated pipe which is used as a collector in track bed drainage systems. It can be installed at shallower depths than twinwall and solid pipes such as SDR26 and SDR33, directly under or adjacent to the track where loads of up to 82 Tonnes can be experienced.

Manufactured from PE80 and PE100 based polymers it is an extremely tough, high strength pipe, expected to resist static and dynamic loading. Demco TerraDrain™ has Network Rail Certificate of Acceptance and LUL approval for high load shallow applications.

Demco TerraDrain™ can be installed at shallower depths than other pipes and so provides optimum solutions especially in difficult ground conditions.

Available in a range of jointing systems, Demco TerraDrain™ can be quickly and easily installed so that more metres per track closure possession can be achieved. It meets Network Rail NR/L3/CIV/005 and London Underground M 3360 A2 drainage specifications.

Applications

- Undertrack drainage systems and cess drains
- Rehabilitation of undertrack drainage culverts

Features

- Network Rail acceptance
- PADS approved
- RISQS certified
- Market leading for more than 14 years
- Heavy-duty drainage pipe
- Tough high-strength material
- Minimum 60-year design life
- Quicker to install due to:
 - Robust semi-rigid construction
 - Holds its invert during installation
 - Integral flush jointing system
 - No additional tamping required
 - No concrete haunching required
 - Graduated 20mm stone bedding & surround
 - Reduced trench depth
- Materials suited to meet load conditions
- Lightweight, easily handled
- Weld compatible with all PE fittings
- Excellent chemical resistance
- Low coefficient of friction
- Suitable for CCTV inspection
- Suitable for jetting up to 5500 psi

Material				
Property	Standard	Unit	Value PE80	Value PE100
Density	ISO 1183	g/cm	0.94	0.95
Melt Flow Index (190/5)	ISO 1133	g/10min	0.9	0.3
Tensile stress at yield	ISO 527	MPa	20	25
Elongation at yield	ISO 527	%	10	9
Elongation at break	ISO 527	%	>600	>600
Impact strength (notched)	ISO 179	kJ/m ²	12	16
Modulus of elasticity	ISO 527	MPa	750	1100

Pipe Dimensions & Weights to Din 8074/5										
Outside Diameter mm	TerraDrain™ 17					TerraDrain™ 11				
	Wall thickness mm	Inside diameter mm	Weight kg/m	Safe end loading tonnes FPO	Max tension tonnes FTO	Wall thickness mm	Inside diameter mm	Weight kg/m	Safe end loading tonnes FPO	Max tension tonnes FTO
110	6.3	97.4	2.08	-	0.70	10.0	90.0	3.14	3.20	1.05
125	7.1	110.8	2.66	-	0.90	11.4	102.2	4.08	4.10	1.40
160	9.1	141.8	4.35	-	1.50	14.6	130.8	6.67	6.80	2.33
180	10.2	159.6	5.48	-	1.90	16.4	147.2	8.42	8.60	2.90
200	11.4	177.2	6.79	4.70	2.35	18.2	163.6	10.40	10.60	3.60
225	12.8	199.4	8.55	5.90	2.95	20.5	184.0	13.10	13.40	4.60
250	14.2	221.6	10.60	7.30	3.70	22.8	204.4	16.20	16.60	5.65
280	15.9	248.2	13.20	9.20	4.60	25.5	229.0	20.30	20.80	7.10
315	17.9	279.2	16.70	11.60	4.75	28.7	257.6	25.70	26.40	7.40
355	20.1	314.8	21.20	14.80	4.90	32.3	290.4	32.60	33.50	7.60
400	22.7	354.6	26.90	18.80	6.20	36.4	327.2	41.40	42.50	9.60
450	25.5	399.0	34.00	23.80	7.80	40.9	368.2	52.40	53.80	12.25
500	28.3	443.4	41.90	29.40	9.50	45.4	409.2	64.60	66.50	15.00
560	31.7	496.6	52.50	36.80	12.00	50.8	458.4	81.10	83.40	18.70
630	35.7	558.8	66.50	46.20	15.00	57.2	515.6	102.50	105.60	23.50

Pipe Lengths Flush Push Fit Ends							
Overall Length mm	500	750	1000	1500	2000	3000	6000
Outside Diameter mm	Effective Length mm						
225-355	440	690	940	1425	1940	2940	5940
400-450	430	680	930	1415	1930	2930	-
500	425	675	925	1400	1925	2925	-
560-630	415	665	915	1400	1915	2915	-