



Demco TerraLine™ is a heavy-duty pipe which is used as a carrier drain for the rehabilitation of sewers and culverts for railway line-side drainage. Manufactured from non-metallic PE80 and PE100 based polymers it is an extremely tough, high-strength material which is used worldwide for sewer and sewer relining applications.

The pipe has Network Rail Certificate of Acceptance and LUL approval for high load shallow applications (300 – 1100mm below sleeper level). This allows it to be installed at shallower depths than other pipes thus providing optimum solutions especially in difficult ground conditions. Demco TerraLine™ is suitable for open trenching and 'No-dig' methods such as slip lining, pipe jacking & bursting and thrust boring. Short lengths can be supplied for easy assembly in confined spaces such as manholes and small excavations.

Demco TerraLine™ pipe is designed to be easily connected to Demco TerraDrain™ pipe using the flush push fit with O-ring joint, or an external coupler as part of a gravity or pressure* outfall system. It meets Network Rail NR/L3/CIV/005 and London Underground M 3360 A2 drainage specifications.

* Contact MGS for advice.

Applications

- UTX – gravity carrying and ducting
- Road & waterways crossings
- Gravity drainage systems
- Sewer relining

Features

- Materials suited to meet load conditions
- Lightweight, easy to handle
- Excellent chemical resistance
- Jacking loads up to 105 tonnes
- Suitable for jetting up to 5,500 psi
- No external coupler

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 load tonnes FTO	Wall thickness mm	Inside diameter mm	Weight Kg/m	Safe end loading tonnes FPO	Max tension load 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	-

Pipe Lengths Threaded 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	-