



SPECIALIST PIPE SYSTEMS



company profile



Demco's purpose-built plant manufactures pipe systems used throughout the rail, civil and geotechnical industries.

Demco has full approval by Link-up, recognised for more than a decade as the essential supplier approval system to the rail industry. Its TerraRange™ drainage system has Network Rail Certificate of Acceptance for high load shallow applications (300 - 1100mm below sleeper)



MANUFACTURING

Demco has been a manufacturer of specialist thermoplastic pipework systems for 30 years. In October 2001, Demco became part of Marton Geotechnical Services Ltd, a company with an annual turnover in excess of £12 million. Demco's purpose-built manufacturing plant in the West Midlands specialises in the manufacture of pipe systems which are used throughout the rail, civil, geotechnical and environmental industries.



TECHNICAL SUPPORT

From concept to installation, our engineers support and assist customers with product selection, design specification, costing and installation requirements. We specialise in high load applications and 'No-dig' pipe solutions. During the installation phase, our logistics department will liaise on a regular basis with site staff to ensure that delivery of goods matches the site programme. Demco offers delivery to suit all requirements, including a timed delivery service available 24 hours a day seven days a week.

STATIC CALCULATIONS

Computer generated static loading calculations are carried out using the RU Loading requirements in accordance with BS5400 Part 2 to verify the suitability of all products.

This ensures our products meet or exceed the anticipated loading requirements on railways within the UK.

These can be used for inclusion in Form A and B approvals.





terraline™

Heavy-duty polyethylene pipe for the rehabilitation of sewers and culverts. Also used as a carrier drain for railway line-side drainage. Has Network Rail Certificate of Acceptance

APPLICATIONS

UTX - Gravity Carrier and Ducting
Road & Waterway Crossings
Gravity Drainage Systems
Sewer Reline

INSTALLATION METHODS

Sliplining
Pipe Jacking
Pipe Bursting
Thrust Boring
Open Trenching

MATERIAL

DE120 - high performance polyethylene specially developed for Demco
PE80 & PE100
(Material specification sheets available on request)

SIZES

110 - 630mm

JOINTS

FTO - Flush thread, trapezoidal form, 2 or 4 TPI with O-ring seal
FPO - Flush push-fit, complete with O-ring seal
PL - Plain-ended
PFC - Push fit coupling with double O-ring seal

FEATURES

Tough high-strength material
Material suited to meet load conditions
WRc established renovation technique
Tough, durable Type II structural lining
Wide range of diameters & lengths
Lightweight, easily handled
Excellent chemical resistance
Low coefficient of friction
Jacking loads up to 105 tonnes
Suitable for CCTV inspection
Suitable for jetting up to 5500 psi
Minimum 50-year design life





terradrain™

A heavy-duty perforated polyethylene pipe for use as a collector drain in rail track line-side drainage.

Network Rail Certificate of Acceptance for high load shallow applications (300 - 1100mm below sleeper)

APPLICATIONS

Under track drainage systems for 4ft, 6ft and 10ft drains
Rehabilitation of undertrack drainage culverts

INSTALLATION METHODS

Sliplining
Open Trenching

MATERIAL

DE120 - high performance polyethylene specially developed for Demco
PE80 & PE100
(Material specification sheets available on request)

SIZES

110 - 630mm

PERFORATIONS

Standard Railtrack perforations (half circumference perforated, 1% open area)
Other perforations available on request up to 10% open area.

JOINTS

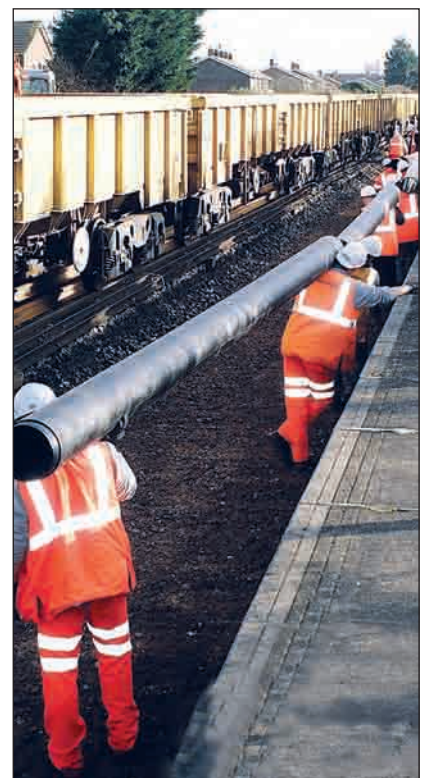
FTO - Flush thread, trapezoidal form, 2 or 4 TPI with O-ring seal
FPO - Flush push-fit, complete with O-ring seal
PL - Plain-ended
PFC - Push fit coupling with double O-ring seal

FEATURES

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

Material suited to meet load conditions
Lightweight, easily handled
Excellent chemical resistance
Low coefficient of friction
Suitable for CCTV inspection
Suitable for jetting up to 5500 psi
Minimum 50-year design life





A threaded, perforated pipe with multi-layered filter screen to provide a hydraulically efficient low head-loss drainage system.

APPLICATIONS

Relief Wells for Under-track drainage
Embankments & cuttings
Cliff face stabilisation
Tunnel roofs & side walls

INSTALLATION METHODS

Cased or open hole drilling techniques
Vertical, horizontal or inclined

MATERIAL

DE120 - high performance polyethylene specially developed for Demco
PE80 & PE100
(Material specification sheets available on request)

SIZES

63 -110mm

PERFORATIONS

Fully slotted or perforated up to 10% open area

JOINTS

FT - Flush Thread

FILTER

Three layer filter mesh - 600, 450, 250, 150, 100 micron

FEATURES

Hydraulically efficient
High Open Area
Quick & easy to install
High crush resistance
Can be back flushed
Visual monitoring
UV resistant
Compatible with standard metric PE pipe systems



pe pipe, fittings & fabrications

All products are manufactured to the highest quality in accordance with ISO 9001.

PRODUCTS

- FULL RANGE OF PE METRIC PIPES & FITTINGS
- PE FABRICATIONS
- CATCHPITS
- RODDING EYES
- SPECIALIST PREFABRICATED JUNCTIONS

FABRICATIONS

Demco offers a wide range of plastic fabrications utilising the latest thermoplastic welding techniques, including butt fusion, electro-fusion, socket and extrusion welding in accordance with DVS 2207.

All fabrication is carried out in-house, ensuring total quality control and prompt deliveries.

QUALITY

We operate a Quality Management System in accordance with ISO 9001 which maintains traceability of manufactured products.

DESIGN & ENGINEERING

Our engineers have many years experience in design and engineering to enable the development and continued improvement of products. This also enables us to provide tailor-made products and to bring innovative solutions for our customers.



pipe selection

Product specification tables to assist selection of Terradrain™, Terraline™ & Terrafilter®.

pipe dimensions & weights to DIN 8074/5

Outside Diameter mm	TERRALINE™/TERRADRAIN™ 17					TERRALINE™/TERRADRAIN™ 11				
	Wall thickness	Inside diameter	Weight	Safe end loading tonnes FPO	Max tension load tonnes FTO	Wall thickness	Inside diameter	Weight	Safe end loading tonnes FPO	Max tension load tonnes FTO
	mm	mm	Kg/m			mm	mm	Kg/m		
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						
63	450	700	950	1450	1950	2950	5950
90-125	425	675	925	1425	1925	2925	5925
160-225	415	665	915	1415	1915	2915	5915
250-355	400	650	900	1400	1900	2900	5900
400-630	400	650	900	1400	1900	-	-

TERRAFILTER®				
Nominal Diameter	mm	50	70	90
Outside Diameter	mm	63	90	110
Inside Diameter	mm	51	74	90
Outside Diameter over Mesh	mm	67	95	117
Weight per metre	Kg	1.05	2.0	2.7

TERRAFILTER®		
Filter Type	Equivalent Slot Size	Nominal Open Area
Filter 600	600 microns	23%
Filter 475	475 microns	23%
Filter 375	375 microns	23%
Filter 250	250 microns	20%
Filter 150	150 microns	12.5%
Filter 100	100 microns	7.5%



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A division of Marton Geotechnical Services Ltd