



HQ Acceptance Services  
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## IMPORTANT INFORMATION FOR USERS

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Date: 09.08.05

### Product Acceptance Advice Note

This advice note provides appropriate background information and any specific action that may be required in accordance with the **attached certificate**. It will enable you to meet your obligations in meeting the requirements of the Company procedure RT/LS/P/029.

Certificate Ref.	Issue	Product
PA05/02084	I	Demco TerraRange Pipework System

### Manufacturer

MGS Demco.  
Unit 11 & 12, Star Industrial Park,  
Bodmin Road,  
Coventry. CV2 5DB

### Background/ Reason for Issue

Acceptance of the pipework system is based on its ability to be used where direct track loading is applied to the drainage system i.e 6 foot and 10 foot locations.

### Network Rail action

Deficiencies in performance affecting the accepted functionality of the product or safety integrity identified by users of the product shall be reported in writing to Network Rail, HQ Acceptance Services.

**Peter Anderson**

Product Acceptance Specialist

## Certificate of Acceptance

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**Product:** Demco TerraRange Pipework System

**Manufacturer:** MGS Demco.  
Unit 11 & 12, Star Industrial Park,  
Bodmin Road,  
Coventry. CV2 5DB

*The product above is accepted for use on the Network Rail infrastructure within the defined scope of acceptance and any specific conditions in the certificate.*

### Scope of Acceptance

Demco Terradrain (11 & 17) and Terraline (11 & 17) pipework, for use in accordance with the manufacturers Product Data Sheets as water collector and carrying systems at shallow depths where direct track loading is applied to the drainage system.

### SPECIFIC CONDITIONS (Manufacturer/Supplier)

- Technical Data Sheets, Handling and Installation guides to be made available to users of the product.
- Any deficiency affecting the product quality, functionality and safety integrity shall be notified in writing within 48 hours (including corrective action undertaken or proposed) to Network Rail HQ Acceptance Services.
- Manufacturers/Suppliers are responsible for ensuring that they are in possession of the latest relevant standards and/or drawings, and for ensuring that their products are compliant.
- Any proposed change to the product configuration (to the actual product or its application) shall be put forward in writing to Network Rail, HQ Acceptance Services.

**Authorised by:**



David Ventry B.Eng (Hons), CEng, FICE  
Professional Head of Track Engineering



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### SPECIFIC CONDITIONS (User/Operators)

- Users are responsible for ensuring compliance with conditions shown in this certificate. If a condition is not understood guidance must be sought from the Product Acceptance Specialist.

### PRODUCT CONFIGURATION

- Terradrain(11 & 17) is a perforated heavy duty polyethylene pipe for railway track drainage.
- Terraline (11 & 17) is a smooth heavy duty polyethylene pipe for railway track drainage.
- Terradrain/ Terraline (11 & 17) external diameters range from 110mm to 630mm.
- 11 & 17 refer to the wall thickness, 11 being thicker than 17.
- Both Terradrain and Terraline are provided as flush push fit ends only.
- Where ends have to be cut, plain coupling rings are also available.

Part No.	Description	PADS No.
	Demco Terradrain/ Terraline (11 & 17) Pipework System	057/101100

**Terraline 17** solid wall carrier pipe with integral flush joint  
or plain ended for use with sleeve couplers in the following lengths :-  
0.5M, 1M, 2M, 3M, 6M, state length when ordering.

PADS Cat number	Demco part No	Outside Dia(mm)
057/101101	ATLV180159	180
057/101102	ATLV200177	200
057/101103	ATLV225199	225
057/101104	ATLV250221	250
057/101105	ATLV280248	280
057/101106	ATLV315279	315
057/101107	ATLV355315	355
057/101108	ATLV400355	400
057/101109	ATLV450399	450
057/101110	ATLV500443	500
057/101111	ATLV560497	560
057/101112	ATLV630559	630

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**Terraline 11** solid wall carrier pipe with integral flush joint or plain ended for use with sleeve couplers in the following lengths :-  
0.5M, 1M, 2M, 3M, 6M, state length when ordering.

Cat number	Demco part No	Outside Dia(mm)
057/101113	ATLV180147	180
057/101114	ATLV200164	200
057/101115	ATLV255184	225
057/101116	ATLV250204	250
057/101117	ATLV280229	280
057/101118	ATLV315258	315
057/101119	ATLV355290	355
057/101120	ATLV400327	400
057/101121	ATLV450368	450
057/101122	ATLV500409	500
057/101123	ATLV560458	560
057/101124	ATLV630516	630

**Terradrain 17** half perforated collector pipe with integral flush joint or plain ended for use with sleeve couplers in the following lengths :-  
0.5M, 1M, 2M, 3M, 6M, state length when ordering.

PADS Cat number	Demco part No	Outside Dia(mm)
057/101125	ATDV180159	180
057/101126	ATDV200177	200
057/101127	ATDV225199	225
057/101128	ATDV250221	250
057/101129	ATDV280248	280
057/101130	ATDV315279	315
057/101131	ATDV355315	355
057/101132	ATDV400355	400
057/101133	ATDV450399	450
057/101134	ATDV500443	500
057/101135	ATDV560497	560
057/101136	ATDV630559	630



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**Terradrain II** half perforated collector pipe with integral flush joint or plain ended for use with sleeve couplers in the following lengths :- 0.5M, 1M, 2M, 3M, 6M, state length when ordering.

PADS Cat number	Demco part No	Outside Dia(mm)
057/101137	ATDV180147	180
057/101138	ATDV200164	200
057/101139	ATDV225184	225
057/101140	ATDV250204	250
057/101141	ATDV280229	280
057/101142	ATDV315258	315
057/101143	ATDV355290	355
057/101144	ATDV400327	400
057/101145	ATDV450368	450
057/101146	ATDV500409	500
057/101147	ATDV560458	560
057/101148	ATDV630516	630

### Push fit sleeve couplers.

Female to female with 'O' ring for both Terraline (11 & 17) & Terradrain (11 & 17) pipes

PADS Cat number	Demco part No	Outside Dia(mm)
057/101149	C13-506	180
057/101150	C13-507	200
057/101151	C13-508	225
057/101152	C13-509	250
057/101153	C13-510	280
057/101154	C13-511	315
057/101155	C13-512	355
057/101156	C13-513	400
057/101157	C13-514	450
057/101158	C13-515	500
057/101159	C13-516	560
057/101160	C13-517	630



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**Fittings** for Terraline (11 & 17) & Terradrain (11 & 17)  
pipes (moulded)

### 90 Deg elbow

Cat number	Demco part No	Pipe OD(mm)
057/101161	B15-412	180
057/101162	B15-413	200
057/101163	B15-414	225
057/101164	B15-415	250
057/101165	B15-416	280
057/101166	B15-417	315
057/101167	B15-418	355

### 45 Deg elbow

057/101168	B14-412	180
057/101169	B14-413	200
057/101170	B14-414	225
057/101171	B14-415	250
057/101172	B14-416	280
057/101173	B14-417	315
057/101174	B14-418	355

### 90 Deg equal 'T'

PADS Cat number	Demco part No	Pipe OD(mm)
057/101175	B16-412	180
057/101176	B16-413	200
057/101177	B16-414	225
057/101178	B16-415	250
057/101179	B16-416	280
057/101180	B16-417	315
057/101181	B16-418	355
057/101182	90 Deg Reduced 'T', state O/D pipe size when ordering	
057/101183	Concentric reducers, state O/D sizes when ordering	



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### End caps

Cat number	Demco part No	Pipe OD(mm)
057/101184	B21-412	180
057/101185	B21-413	200
057/101186	B21-414	225
057/101187	B21-415	250
057/101188	B21-416	280
057/101189	B21-417	315
057/101190	B21-418	355

### Fittings for Terraline & Terradrain pipes (extruded)

057/101191	90 Deg long radius bend, state radius & O/D when ordering
057/101192	45 Deg long radius bend, state radius & O/D when ordering
057/101193	22.5 Deg long radius bend, state radius & O/D when ordering
057/101194	11.25 Deg long radius bend, state radius & O/D when ordering

### Fittings for Terraline & Terradrain pipes (fabricated)

057/101195	90 Deg mitred elbow state radius & O/D when ordering
057/101196	45 Deg mitred elbow state radius & O/D when ordering
057/101197	22.5 Deg mitred elbow state radius & O/D when ordering
057/101198	11.25 Deg mitred elbow state radius & O/D when ordering



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### Flex-seal straight coupler

Cat number	Demco part No	Pipe OD(mm)
057/101199	L17-040	180
057/101200	L17-041	200
057/101201	L17-048	225
057/101202	L17-049	250
057/101203	L17-050	315
057/101204	L17-046	355
057/101205	L17-051	400
057/101206	L17-052	500
057/101207	L17-054	560

057/101208	Adaptor coupling, state O/D size of connectors, both ways when ordering
057/101209	45 Deg swept 'T' state size and O/D when ordering
057/101210	"O" ring state O/D of pipe when ordering
057/101211	Silicon spray 250ml

### ASSESSED DOCUMENTATION

Reference	Title	Date.
	Demco submission	20.04.03
	Demco letter	31.03.04
	Trial report	20.06.05

### CERTIFICATE HISTORY

Issue Number	Date	Issue History
1	09.08.05	First accepted for use.





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### DISTRIBUTION

**Manufacturer**

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