

Manufacturer:
Polypipe

Issue : 4
Valid From : 07-01-2014

Ridgidrain Drainage Pipe

Product Description

Ridgidrain is a high strength HDPE drainage pipe with a structured wall design and a low friction inner wall.

Product Image



Scope of Acceptance

Full Acceptance

Drainage pipes approved for use in track drainage and suitable for use in the 6ft, cess, 10ft and under track crossing.

See specific conditions for restrictions on use.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.
Authorised by:

Cosmas Okoye
Technology Introduction Coordinator

Andy Jones
Professional Head – TRACK

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section. Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

- 1) These products hold accreditation from the BBA for surface water drainage applications under certificate number 00/3678 and also HAPAS for highways drainage applications under certificate number 02/H068. The products must conform to the characteristics specified in this accreditation.

User

- 1) The user/ designer must follow the manufacturer's instructions in the application/installation of this product on Network Rail infrastructure.
- 2) Maximum recommended pipe size to be used in 6ft is 450mm
- 3) 600mm pipes restricted to the cess and away from the dynamic loading from trains generated at the sleeper ends. Must not be used in 6ft situation due to the physical size of the pipes.
- 4) Pipes used as under track crossing must be installed with 900mm cover to crown and a maximum diameter of 375mm

Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
BRD100X11.25	100mm x 11.25deg Ridgidrain Bend	057/100446
BRD100X22.5	100mm x 22.50deg Ridgidrain Bend	057/100447
BRD100X45	100mm x 45.00deg Ridgidrain Bend	057/100448
BRD100X87.5	100mm x 87.50deg Ridgidrain Bend	057/100449
BRD150X15	150mm x 15.00deg Ridgidrain Bend	057/100450
BRD150X30	150mm x 30.00deg Ridgidrain Bend	057/100451
BRD150X45	150mm x 45.00deg Ridgidrain Bend	057/100452
BRD150X87.5	150mm x 87.50deg Ridgidrain Bend	057/100453
BRD225X11.25	225mm x 11.25deg Ridgidrain Bend	057/100454
BRD225X22.5	225mm x 22.50deg Ridgidrain Bend	057/100455
BRD225X45	225mm x 45.00deg Ridgidrain Bend	057/100456
BRD225X90	225mm x 90.00deg Ridgidrain Bend	057/100457
BRD300X11.25	300mm x 11.25deg Ridgidrain Bend	057/100458
BRD300X22.5	300mm x 22.50deg Ridgidrain Bend	057/100459
BRD300X45	300mm x 45.00deg Ridgidrain Bend	057/100460
BRD300X90	300mm x 90.00deg Ridgidrain Bend	057/100461
BRD375X11.25	375mm x 11.25deg Ridgidrain Bend	057/100462
BRD375X22.5	375mm x 22.50deg Ridgidrain Bend	057/100463
BRD375X45	375mm x 45.00deg Ridgidrain Bend	057/100464
BRD375X90	375mm x 90.00deg Ridgidrain Bend	057/100465
BRD450X11.25/1	450mm x 11.25deg Ridgidrain Bend	057/100466
BRD450X22.5/1	450mm x 22.50deg Ridgidrain Bend	057/100467

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Part No.	Description	Catalogue No.
BRD450X45/1	450mm x 45.00deg Ridgidrain Bend	057/100468
BRD450X90/1	450mm x 90.00deg Ridgidrain Bend	057/100469
BRD500X11.25/1	500mm x 11.25deg Ridgidrain Bend	057/100471
BRD500X22.5/1	500mm x 22.50deg Ridgidrain Bend	057/100472
BRD500X45/1	500mm x 45.00deg Ridgidrain Bend	057/100473
BRD500X90/1	500mm x 90.00deg Ridgidrain Bend	057/100474
BRD600X11.25/1	600mm x 11.25deg Ridgidrain Bend	057/100475
BRD600X22.5/1	600mm x 22.50deg Ridgidrain Bend	057/100476
BRD600X45/1	600mm x 45.00deg Ridgidrain Bend	057/100477
BRD600X90/1	600mm x 90.00deg Ridgidrain Bend	057/100478
ARD150100	150mm to 100mm Ridgidrain Reducer	057/100479
ARD225150	225mm to 150mm Ridgidrain Reducer	057/100482
ARD300100	300mm to 100mm Ridgidrain Reducer	057/100483
ARD300150	300mm to 150mm Ridgidrain Reducer	057/100484
ARD300225	300mm to 225mm Ridgidrain Reducer	057/100485
ARD375150	375mm to 150mm Ridgidrain Reducer	057/100486
ARD375225	375mm to 225mm Ridgidrain Reducer	057/100487
ARD375300	375mm to 300mm Ridgidrain Reducer	057/100488
ARD500225/1	500mm to 225mm Ridgidrain Reducer	057/100489
ARD500375/1	500mm to 375mm Ridgidrain Reducer	057/101221
ARD500400/1	500mm to 400mm Ridgidrain Reducer	057/101222
ARD500450/1	500mm to 450mm Ridgidrain Reducer	057/101223
ARD600100/1	600mm to 100mm Ridgidrain Reducer	057/101224
ARD600150/1	600mm to 150mm Ridgidrain Reducer	057/101225
ARD600225/1	600mm to 225mm Ridgidrain Reducer	057/101226
ARD600300/1	600mm to 300mm Ridgidrain Reducer	057/101227
ARD600375/1	600mm to 375mm Ridgidrain Reducer	057/101228
ARD600450/1	600mm to 450mm Ridgidrain Reducer	057/101229
ARD600500/1	600mm to 500mm Ridgidrain Reducer	057/101236
RD100X6PE/1	Drain, Carrier, Plain Ended 100mmx6m, Stiffness Class SN6	004/103210
RD100X6PEHP/1	Drain, Filter, Plain Ended 100mmx6m, Half Perforated, Stiffness Class SN6	004/103222
RD100X6PEP/1	Drain, Filter, Plain Ended 100mmx6m, Perforated, Stiffness Class SN6	004/103221
RD150X6PE/1	Drain, Carrier, Plain Ended 150mmx6m, Stiffness Class SN6	004/103211
RD150X6PEHP/1	Drain, Filter, Plain Ended 150mmx6m, Half Perforated, Stiffness Class SN6	004/103224
RD150X6PEP/1	Drain, Filter, Plain Ended 150mmx6m, Perforated, Stiffness Class SN6	004/103223
RD225X6PE/1	Drain, Carrier, Plain Ended 225mmx6m, Stiffness Class SN6	004/103212
RD225X6PEHP/1	Drain, Filter, Plain Ended 225mmx6m, Half Perforated, Stiffness Class SN6	004/103226
RD225X6PEP/1	Drain, Filter, Plain Ended 225mmx6m, Perforated, Stiffness Class SN6	004/103225
RD300X6PE/1	Drain, Carrier, Plain Ended 300mmx6m, Stiffness Class SN6	004/103213
RD300X6PEHP/1	Drain, Filter, Plain Ended 300mmx6m, Half Perforated, Stiffness Class SN6	004/103228
RD300X6PEP/1	Drain, Filter, Plain Ended 300mmx6m, Perforated, Stiffness Class SN6	004/103227
RD375X6PE/1	Drain, Carrier, Plain Ended 375mmx6m, Stiffness Class SN6	004/103214

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Part No.	Description	Catalogue No.
RD375X6PEHP/1	Drain, Filter, Plain Ended 375mmx6m, Half Perforated, Stiffness Class SN6	004/103230
RD375X6PEP/1	Drain, Filter, Plain Ended 375mmx6m, Perforated, Stiffness Class SN6	004/103229
RD400X6PE/1	Drain, Carrier, Plain Ended 400mmx6m, Stiffness Class SN6	057/100410
RD400X6PEHP/1	Drain, Filter, Plain Ended 400mmx6m, Half Perforated, Stiffness Class SN6	057/100418
RD400X6PEP/1	Drain, Filter, Plain Ended 400mmx6m, Perforated, Stiffness Class SN6	057/100414
RD450X6PE/1	Drain, Carrier, Plain Ended 450mmx6m, Stiffness Class SN6	057/100411
RD450X6PEHP/1	Drain, Filter, Plain Ended 450mmx6m, Half Perforated, Stiffness Class SN6	057/100419
RD450X6PEP/1	Drain, Filter, Plain Ended 450mmx6m, Perforated, Stiffness Class SN6	057/100415
RD500X6PE/1	Drain, Carrier, Plain Ended 500mmx6m, Stiffness Class SN6	057/100412
RD500X6PEHP/1	Drain, Filter, Plain Ended 500mmx6m, Half Perforated, Stiffness Class SN6	057/100420
RD500X6PEP/1	Drain, Filter, Plain Ended 500mmx6m, Perforated, Stiffness Class SN6	057/100416
RD600X6PE/1	Drain, Carrier, Plain Ended 600mmx6m, Stiffness Class SN6	057/100413
RD600X6PEHP/1	Drain, Filter, Plain Ended 600mmx6m, Half Perforated, Stiffness Class SN6	057/100421
RD600X6PEP/1	Drain, Filter, Plain Ended 600mmx6m, Perforated, Stiffness Class SN6	057/100417
RD150X6/1	Drain, Carrier, Integral Socket 150mmx6m, Stiffness Class SN6	057/101230
RD150X6HP/1	Drain, Filter, Integral Socket 150mmx6m, Half Perforated, Stiffness Class SN6	057/101231
RD150X6P/1	Drain, Filter, Integral Socket 150mmx6m, Perforated, Stiffness Class SN6	057/101232
RD225X6/1	Drain, Carrier, Integral Socket 225mmx6m, Stiffness Class SN6	057/101233
RD225X6HP/1	Drain, Filter, Integral Socket 225mmx6m, Half Perforated, Stiffness Class SN6	057/101234
RD225X6P/1	Drain, Filter, Integral Socket 225mmx6m, Perforated, Stiffness Class SN6	057/101235
RD300X6/1	Drain, Carrier, Integral Socket 300mmx6m, Stiffness Class SN6	057/101236
RD300X6HP/1	Drain, Filter, Integral Socket 300mmx6m, Half Perforated, Stiffness Class SN6	057/101237
RD300X6P/1	Drain, Filter, Integral Socket 300mmx6m, Perforated, Stiffness Class SN6	057/101238
RD400X6/1	Drain, Carrier, Integral Socket 400mmx6m, Stiffness Class SN6	057/100422
RD400X6HP/1	Drain, Filter, Integral Socket 400mmx6m, Half Perforated, Stiffness Class SN6	057/100430
RD400X6P/1	Drain, Filter, Integral Socket 400mmx6m, Perforated, Stiffness Class SN6	057/100426
RD450X6/1	Drain, Carrier, Integral Socket 450mmx6m, Stiffness Class SN6	057/100423

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Part No.	Description	Catalogue No.
RD450X6HP/1	Drain, Filter, Integral Socket 450mmx6m, Half Perforated, Stiffness Class SN6	057/100431
RD450X6P/1	Drain, Filter, Integral Socket 450mmx6m, Perforated, Stiffness Class SN6	057/100427
RD500X6/1	Drain, Carrier, Integral Socket 500mmx6m, Stiffness Class SN6	057/100424
RD500X6HP/1	Drain, Filter, Integral Socket 500mmx6m, Half Perforated, Stiffness Class SN6	057/100432
RD500X6P/1	Drain, Filter, Integral Socket 500mmx6m, Perforated, Stiffness Class SN6	057/100428
RD600X6/1	Drain, Carrier, Integral Socket 600mmx6m, Stiffness Class SN6	057/100425
RD600X6HP/1	Drain, Filter, Integral Socket 600mmx6m, Half Perforated, Stiffness Class SN6	057/100433
RD600X6P/1	Drain, Filter, Integral Socket 600mmx6m, Perforated, Stiffness Class SN6	057/100429
SRD100	100mm Ridgidrain Seal	004/103272
SRD150	150mm Ridgidrain Seal	004/103273
SRD225	225mm Ridgidrain Seal	004/103274
SRD300	300mm Ridgidrain Seal	004/103275
SRD375	375mm Ridgidrain Seal	004/103276
SRD400/1	400mm Ridgidrain Seal	057/100434
SRD450/1	450mm Ridgidrain Seal	057/100435
SRD500/1	500mm Ridgidrain Seal	057/100436
SRD600/1	600mm Ridgidrain Seal	057/100437
CRD400DS/1	400mm Double Socket Coupler	057/100438
CRD450DS/1	450mm Double Socket Coupler	057/100439
CRD500DS/1	500mm Double Socket Coupler	057/100440
CRD600DS/1	600mm Double Socket Coupler	057/100441
CRD100	100mm Single Socket Coupler	004/103261
CRD150	150mm Single Socket Coupler	004/103262
CRD225	225mm Single Socket Coupler	004/103263
CRD300	300mm Single Socket Coupler	004/103264
CRD375	375mm Single Socket Coupler	004/103265
CRD400/1	400mm Single Socket Coupler	057/100442
CRD450/1	450mm Single Socket Coupler	057/100443
CRD500/1	500mm Single Socket Coupler	057/100444
CRD600/1	600mm Single Socket Coupler	057/100445

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
RT/CE/C/008/185C, Issue: 1B	Sections 185 – 186 Track Drainage		September 2012	1
NR/L2/TRK/2102	Design and Construction of Track		September 2012	1

Certificate of Acceptance

PA05/05460

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Certificate History

Issue	Date	Issue History
1	19/09/2012	First accepted for use
2	06/01/2014	Incorporation of extended product range
3	13/01/2014	Certificate amended to capture missing catalogue number - 057/101236
4	13/01/2014	Certificate scope extended to include under track and 6ft.

Contact Details

Manufacturer

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person will invalidate the entire certificate.
- 2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
- 3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Acceptance Requirements and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Technology Introduction Group:
 - a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
 - b. Of any intended change to the accepted product; changes include:
 - i. a change to the product configuration (to the actual product or its application);
 - ii. a variation to or addition of manufacturing locations or processes;
 - iii. a change in the name or ownership of the manufacturing company;
 - iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Technology Introduction Group at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to the Network Rail Technology Introduction Group.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

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4) Compliance

Railways and Other Guided Systems (ROGS) Regulations

- 1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations
- 2) As required in Railway Group Standard GE/RT8270, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:

- a. All rail vehicle types that have access rights over the area affected by the change
- b. Infrastructure managed by others
- c. Neighbours.

Railway Interoperability Regulations

- 3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.
- 4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail Regulation) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

- 1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.
- 2) Products may be purchased by Network Rail or its agents, suppliers or contractors.
- 3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers