

Manufacturer:
JFC Manufacturing Ltd

Issue : 3
Valid From : 08-03-2016

JFC Drainage Pipe

Product Description

Plastic pipes for use in track drainage systems.

Product Image



Scope of Acceptance

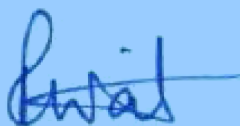
Full Acceptance

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:



Rebecca Wait
Product Acceptance Coordinator



John Edgley
Head of 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) N/A

User

- 1) Slotted pipes to be used for collector drains and un slotted for carrier drains.
- 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.
	Solid twinwall CorriPipe (Sticks)	
110TPU	110mm Unperforated CorriPipe™	057/100065
150TPU	150mm Unperforated CorriPipe™	057/100066
225TPU	225mm Unperforated CorriPipe™	057/100068
300TPU	300mm Unperforated CorriPipe™	057/100070
375TPU	375mm Unperforated CorriPipe™	057/100072
450TPU	450mm Unperforated CorriPipe™	057/100074
600TPU	600mm Unperforated CorriPipe™	057/100076
	Bends	
150TB15	150mm CorriPipe™ 15° Bend	057/100091
150TB30	150mm CorriPipe™ 30° Bend	057/100092
150TB45	150mm CorriPipe™ 45° Bend	057/100093
150TB90	150mm CorriPipe™ 90° Bend	057/100094
225TB15	225mm CorriPipe™ 15° Bend	057/100095
225TB30	225mm CorriPipe™ 30° Bend	057/100096
225TB45	225mm CorriPipe™ 45° Bend	057/100097
225TB90	225mm CorriPipe™ 90° Bend	057/100098
300TB15	300mm CorriPipe™ 15° Bend	057/100099
300TB30	300mm CorriPipe™ 30° Bend	057/100100
300TB45	300mm CorriPipe™ 45° Bend	057/100101
300TB90	300mm CorriPipe™ 90° Bend	057/100102

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Part No.	Description	Catalogue No.
	<i>Couplers</i>	
110TC	94/110mm Twinwall Coupler	057/100103
150TC	150mm Twinwall Coupler	057/100067
225TC	225mm Twinwall Coupler	057/100069
300TC	300mm Twinwall Coupler	057/100071
TC375	375mm Twinwall Coupler	057/100073
TC450	450mm Twinwall Coupler	057/100075
TC600	600mm Twinwall Coupler	057/100077
	<i>Ring Seals</i>	
150TRS	150mm Ø Ring Seal	057/100104
225TRS	225mm Ø Ring Seal	057/100105
300TRS	300mm Ø Ring Seal	057/100106
375TRS	375mm Ø Ring Seal	057/100107
450TRS	450mm Ø Ring Seal	057/100108
600TRS	600mm Ø Ring Seal	057/100109
	<i>Wyes</i>	
150TY45	150mm CorriPipe™ Equal 45° Wye	057/100110
225TY45	225mm CorriPipe™ Equal 45° Wye	057/100111
300TY45	300mm CorriPipe™ Equal 45° Wye	057/100112
225/150TY45	225/150mm CorriPipe™ Unequal 45° Wye	057/100113
300/225TY45	300/225mm CorriPipe™ Unequal 45° Wye	057/100114
375/150TY45	375/150mm CorriPipe™ Unequal 45° Wye	057/100115
	<i>Tees</i>	
150TT90	150mm CorriPipe™ Equal 90° Tee	057/100116
225TT90	225mm CorriPipe™ Equal 90° Tee	057/100117
300TT90	300mm CorriPipe™ Equal 90° Tee	057/100118
225/150TT90	225/150mm CorriPipe™ Unequal 90° Tee	057/100119
300/150TT90	300/150mm CorriPipe™ Unequal 90° Tee	057/100120
300/225TT90	300/225mm CorriPipe™ Unequal 90° Tee	057/100121
375/150TT90	375/150mm CorriPipe™ Unequal 90° Tee	057/100122
	<i>Perforated Twinwall CorriPipe (Sticks)</i>	
110TP	110mm Fully Perforated CorriPipe™*	057/100078
150TP	150mm Fully Perforated CorriPipe™	057/100079
150TPH	150mm Half Perforated CorriPipe™	057/100123
225TP	225mm Fully Perforated CorriPipe™	057/100081
225TPH	225mm Half Perforated CorriPipe™	057/100124
300TP	300mm Fully Perforated CorriPipe™	057/100083

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Part No.	Description	Catalogue No.
300TPH	300mm Half Perforated CorriPipe™	057/100125
375TP	375mm Fully Perforated CorriPipe™	057/100085
375TPH	375mm Half Perforated CorriPipe™	057/100126
450TP	450mm Fully Perforated CorriPipe™	057/100087
450TPH	450mm Half Perforated CorriPipe™	057/100127
600TP	600mm Fully Perforated CorriPipe™	057/100089
600TPH	600mm Half Perforated CorriPipe™	057/100128
	CorriDuct General Purpose Ducting	
11TPED	94mm Black GP duct (6m length Incl. coupler)	057/100129
110TPED	94mm GP duct (6m Length Incl. coupler)	057/100130
100TPED	100mm GP duct (6m Length Incl. coupler)	057/100060
150TPED	150mm GP duct (6m Length Incl. coupler)	057/100061
225TPED	225mm GP duct (6m Length Incl. coupler)	057/100062
300TPED	300mm GP duct (6m Length Incl. coupler)	057/100063
	CorriDuct Coil	
63CDBK50	50mm Black GP duct*	057/100131
110CDBK50	94mm Black GP duct*	057/100132
	CorriDuct Fittings	
50LRB90	50mm 90° Long Radius - Double Socket Bend	057/100133
50LRB45	50mm 45° Long Radius - Double Socket Bend	057/100134
94LRB90	94mm 90° Long Radius - Double Socket Bend	057/100135
94LRB45	94mm 45° Long Radius - Double Socket Bend	057/100136
94LRB30	94mm 30° Long Radius - Double Socket Bend	057/100137
100LRB90	100mm 90° Long Radius - Double Socket Bend	057/100138
100LRB45	100mm 45° Long Radius - Double Socket Bend	057/100139
100LRB30	100mm 30° Long Radius - Double Socket Bend	057/100140
150LRB90	150mm 90° Long Radius - Double Socket Bend	057/100141
150LRB45	150mm 45° Long Radius - Double Socket Bend	057/100142
150LRB30	150mm 30° Long Radius - Double Socket Bend	057/100143

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.
	Supporting information – Ducting systems		1
	Supporting information – HAPAS Fitting		1

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.
	Supporting information – HAPAS Pipes		1
	BBA, HAPAS Roads & Bridges Certificate No 02/H069		1

Certificate History

Issue	Date	Issue History
1	24/09/2012	First accepted for use
2	09/01/2014	Change to conditions of use
3	08/03/2016	Certificate up issued for increased product range

Contact Details

Manufacturer

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Applicant

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional Head or nominated delegate. Any alterations made by a other persons 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 Product Acceptance:
 - 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 Product Acceptance or National Supply Chain (NSC) 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 Network Rail Product Acceptance.
- 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 Product Acceptance.
- 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 Product Acceptance.
- 4) Inform Network Rail Product Acceptance 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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Issue : 3**Valid From :** 08-03-2016**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.