Certificate of Acceptance PA05/06168

Manufacturer: Predator Equipment

Issue : 3
Valid From : 18/09/2015

RT4M, 5M And 6M Rail Trailer

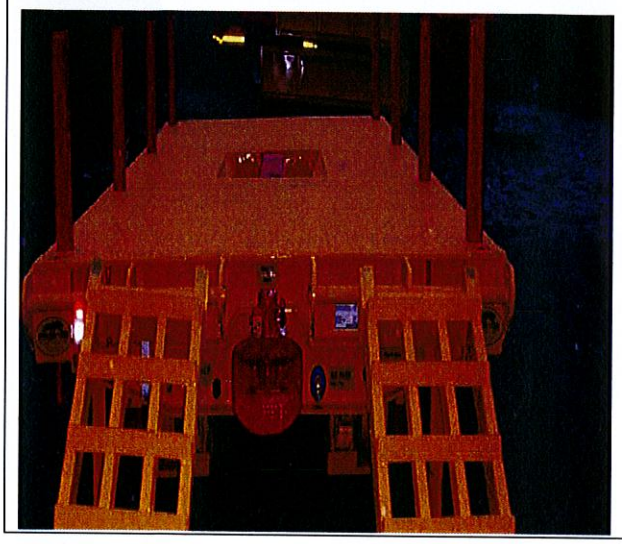
Product Description
The RT4M is a rail mounted trailer with a maximum load capacity of 22 .2 tonnes and is designed to be pulled by compatible Road Rail Vehicles when inside a possession.

The RT5M is a rail mounted trailer with a maximum load capacity of 22 tonnes and is designed to be pulled by compatible Road Rail Vehicles when inside a possession

The RT6M is a rail mounted trailer with a maximum load capacity of 21.7 tonnes and is designed to be pulled by compatible Road Rail Vehicles when inside a possession.

All Trailer models fitted with new wheel profile with options of loading ramp, and jack leg stabiliser.

Product Image



Scope of Acceptance

Full Acceptance

Products fully approved inline with the controls and limitations specified on this certificate and/or in the referenced documentation

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:

Vanessa Cumine
Process & Change Specialist

Paul Conway - CEng
(Acting) Head of Plant

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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) See General Terms and Conditions

User

1) These products must only be used with compatible vehicles as defined by the Original Equipment Manufacturer and in line with host vehicles Engineering Acceptance limitations.
2) Before operation a full pre use inspection of the product must be conducted by the operator to confirm it is serviceable, fully maintained and correctly configured for use. If the product is found defective it must be removed from use immediately, labelled 'Do Not Use', placed in quarantine and returned to the supplier
3) These products must only be operated by persons competent to undertake towing operations with the respective vehicle and by persons who have been trained to use the trailer
4) These products must not be ridden on – they are Not passenger vehicles
5) Before towing operations take place the operator is to ensure the following:-
   - all pre use inspections and brake testing has been conducted
   - the trailer is securely and correctly coupled to the towing vehicle
   - all loads are adequately secured to the trailer
   - loads are not placed on the trailer so as to come into contact with infrastructure assets, adjacent line movement and workers in proximity of the operation
   - all loads are evenly distributed throughout the loading area
6) Towing speeds:
   - Max 10mph
   - Through Switches and Crossings 5mph
   - Through raised check rails 5mph
7) Track limitations:
   - Max 'on/off tracking' cant: 100mm
   - Max gradient: 1:25
   - Max track cant when being towed: 200mm or 1:25 gradient
   - Minimum Curve radius: 80m
8) Loads and load limitations: 4M.
   - 25 t Gross Weight
   - 3.12 t Tare Weight
   - 21.88 t Max Load

   Loads and load limitations: 5M.
   - 25 t Gross Weight
   - 3.36t Tare Weight
   - 21.64 t Max Load

   Loads and load limitations: 6M.
   - 25 t Gross Weight
   - 3.31t Tare Weight
   - 21.69 t Max Load
9) These product are only to be used in a Possessions arrangements, in accordance with task and product relevant Safe System of Work.

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10) Trailer not to be on / off tracked when laden.

11) All trailer type including models fitted with loading ramps Shall "Not to be used in LIVE third or fourth rail areas"

12) Operators using trailer fitted with loading ramps, Shall ensure that the loading ramps, are NOT resting on Sleepers, Switches and Crossings during Loading/Unloading activities.

Configuration

RT4M Rail Trailer

Part No.	Description	Catalogue No.
PRT4M	RT4M Rail Trailer	094/002317
PRTCH4M	RT4M Chassis	094/002318

PRT5M Rail Trailer

Part No.	Description	Catalogue No.
PRT5M	RT5M Rail Trailer	094/002319
PRTCH5M	RT5M Chassis	094/002320

PRT6M Rail Trailer

Part No.	Description	Catalogue No.
PRT6M	RT6M Rail Trailer	094/002321
PRTCH6M	RT6M Chassis	094/002322

Parts Applicable to all trailer variants

Part No.	Description	Catalogue No.
PRTAX300X135	AXLE – AXLE – 750 Series GRANNING AXLE 750 Series 300 x 135 brake – 1460mm track	094/002405
PRT68154	WHEEL NUT- M22 X 1.5	0094/002371
PRTWNW	WHEEL NUT WASHER M20	0094/002372
PRTRW	RAIL WHEEL	094/002323
PRTSUS7L	AXLE SPRING	094/002324
PRTUB90	U-BOLT - 750 SERIES AXLE U-BOLT 265MM(L) X 90MM(W) X 22MM(D) COMES WITH 1.5MM THREAD PITCH	0094/002373
PRTUBP90	U BOLT PLATE -- U BOLT FIXING PLATE MILD STEEL, 170MM X 155MM X 20MM	0094/002374
PRTUBN	U BOLT NUT M22 X 1.5 PITCH	0094/002375
PRTSBN	22MM SPRING EYE BOLT & NUT	094/002325
PRTSEBN	14MM SLIPPER END BOLT & NUT	094/002326
PRTSNB	SPRING NYLON BUSHING -28MMOD / 20MMID X 72MM(L)	0094/002376
PRTLSBBA	LEAF SCRAPER BOTTOM BRACKET ASSEMBLY	094/002327
PRTLSRBK	LEAF SCRAPER RUBBER BOLT KIT	094/002328
PRTLSR	LEAF SCRAPER RUBBER	094/002329

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PRTLH	LAMP HOLDER -12 VOLTS, MILD STEEL PLATE: 160MM X 50MM X 8MM	0094/002377
PRTCP	CARGO POSTS - 80MM X 80MM X 5MM, BOX SECTION: 690MM(L)	0094/002378
PRTBALLB	BALLAST BOX	094/002330
PRTRTH	RINGFEDER TOWING HITCH	094/002331
PRTRTHBK	RINGFEDER TOWING HITCH BOLT KIT	094/002332
PRTSTB	STRAIGHT TOWBAR -	094/002333
PRTZTB	Z TOWBAR	094/002334
PRTBATTB	12 VOLTS BATTERY BOX	094/002335
PRTDH	DOCUMENT HOLDER - WATERPROOF DOCUMENT HOLDER	0094/002379
PRT12VB	12V BATTERY	094/002336
Part No.	**Description**	**Catalogue No.**
PRTFH	20 AMPS FUSE HOLDER	094/002337
PRT20AF	20 AMP FUSE	094/002338
PRTSP	SOLAR PANEL	094/002339
PRTRML	RED MARKER LIGHT (INDICATOR)	094/002340
PRTWML	WHITE MARKER LIGHT (INDICATOR)	094/002341
PRTJB	JUNCTION BOX - PLASTIC WATERPROOF JUNCTION BOX, 68MM X 23MM X 24MM	0094/002380
PRT12VCS	12 VOLT CHARGING SOCKET -)	094/002342
PRTRBI	ROTOWINK BRAKE INDICATOR)	094/002343
PRTLDS	LIGHT DIRECTION SENSOR)	094/002344
PRT2CORE	2 CORE CABLE- FLAT TWIN 2 CORE CABLE, BLACK, 2 X 1.0	0094/002381
PRT7CORE	7 CORE CABLE BLACK, 7 X 16/0.20	0094/002382
PRTLS	TRAILER LIGHT SWITCH, WEATHER PROOF	094/002345
PRTTL	TWIST LOCK- HOUSING IS FIXED TO TRAILER BED, LOCKING LEVER ATTACHES TO HOUSING	0094/002383
PRTAT	AIR TANK- 40 LITRE AIR TANK	0094/002384
PRTATBK	AIR TANK BOLT KIT	094/002346
PRT2430ABC	24/30 ANCHOR LOCK BRAKE CHAMBER	094/002406
PRTBCCK	BRAKE CHAMBER CLEVIS KIT	094/002347
PRT61142	BRAKE CHAMBER RETURN SPRING	094/002349
PRTBSA	BRAKE SLACK ADJUSTER	094/002350
PRTSAC	SLACK ADJUSTER CIRCLIP	094/002351
PRTMB	C-TYPE MALE BUNG -, M22	0094/002385
PRTMCSSV	C-TYPE MALE COUPLING COMES WITH SELF SEALING VALVE	094/002352
PRTFC	C-TYPE FEMALE COUPLING	094/002353
PRTREV	RE VALVE - RELAY EMERGENCY VALVE	0094/002386
PRTQRV	QUICK RELEASE VALVE -	0094/002387

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PRTDV	DRAIN VALVE	094/002354
PRTM22BH	M22 BULKHEAD	0094/002389
PRTM22TR	M22 THRUST RING	094/002355
PRTM22OR	M22 O-RING	094/002356
PRTM1610S	M16-10 STRAIGHT - M16 STEEL THREADED STRAIGHT, WITH 10MM PUSH-IN FEMALE PORT, LOCATES A 10MM NYLON BRAKE PIPE(METAL FITTING)	0094/002390
PRTM1610E	M16-10 ELBOW - M16 STEEL THREADED 90 DEGREE ELBOW , PUSH-IN FEMALE PORT:10MM (ATTACHES 10MM NYLON BRAKE PIPE)	0094/002391
PRTM1612E	M16-12 ELBOW - M16 STEEL THREADED 90 DEGREE ELBOW, PUSH-IN FEMALE PORT: 12MM (ATTACHES 10MM NYLON BRAKE PIPE)	0094/002392
PRTM2210E	M22-10 ELBOW - M22 STEEL THREADED 90 DEGREE ELBOW, PUSH-IN FEMALE PORT: 10MM (ATTACHES 10MM NYLON	0094/002393
PRTM2212E	M22-12 ELBOW M22-12 STEEL THREADED 90 DEGREE ELBOW, PUSH-IN FEMALE PORT: 12MM (ATTACHES 10MM NYLON BRAKE PIPE)	0094/002394
PRT10ET	10MM EQUAL TEE - METAL EQUAL TEE, 10MM X 3 (ATTACHES 10MM NYLON BRAKE PIPE)	0094/002395
PRT1/8"-6S	1/8"- 6mm STRAIGHT - 1/8"(6MM) STEEL THREADED STRAIGHT BAR, WITH A 6MM PUSH-IN FEMALE PORT (ATTACHES 6MM NYLON BRAKE PIPE)	0094/002396
PRT10-1/8"-10	10-1/8"-10 TEE - METAL EQUAL TEE 10MM X 10 MM PUSH-IN FEMALE AND 1/8" THREADED END	0094/002397
PRTM22B	M22 BUNG - M22 THREADED BUNG, TO CLOSE TANK SPARE PORTS	0094/002398
Part No.	**Axle Parts List**	**Catalogue No.**
PRTM16HT	16MM HOBBS TEE - 16MM METAL HOBBS TEE, 10MM X 10MM PUSH-IN FEMALE PORTS TO ATTACH 10/12MM NYLON BRAKE PIPE	0094/002399
PRTM166S	M16-6 STRAIGHT - M16 STEEL THREADED STRAIGHT, 6MM PUSH-IN FEMALE PORT (ATTACHES 6MM NYLON BRAKE PIPE)	0094/002400
PRT10P	10MM NYLON PIPE - 25M(L)	0094/002401
PRT12P	12MM NYLON PIPE - , 25M(L)	0094/002402
PRT68105	BRAKE SHOE ASSEMBLY WITH LINING	094/002357
PRT61142	PULL OFF SPRING SLACK ADJUSTER	094/002358
PRT61235	CAM ROLLER	094/ 002359
PRT61220	RETAINER CAM ROLLER	094/002360
PRT61080	BEARING SPHERICAL CAMSHAFT	094/002361
PRT68117	BRACKET SUPPORT CAMSHAFT	094/002362
PRT68155	SPRING RETURN – BRAKE RETURN SPRING	094/002407
PRT61359	SCREW M10 x 20 FLAT HEAD	094/002363
PRT71720	M16 LOCKNUT	094/002364

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PRT61055	BUSH SINTERED CAMSHAFT	094/002365
PRT61056	SEAL GREASE CAMSHAFT	094/002366
PRT68109	ABS MOUNTING BRACKET	094/002367
PRT61057	BEVELLED WASHER CAMSHAFT	094/002368
PRT61058	SUPPORT WASHER CAMSHAFT	094/002369
Part No.	**Axle Parts List**	**Catalogue No.**
PRT61120	CIRCLIP -, 35.2MM(ID) X 1.75MM(W)	0094/002403
PRT68141	AIR CHAMBER BRACKET-	094/002370
PRT61326	HUB CAP PRESSING "G"	094/002300
PRT68111	SPINDLE NUT CASTELLATED M45x2	094/002301
PRT68112	SPLIT PIN(7/32"x2.5)	094/002302
PRT68110	SPINDLE WASHER	094/002303
PRT61276	OUTER BEARING	094/002304
PRT61275	INNER BEARING	094/002305
PRT68154	WHEEL NUT M20	094/002306
PRT68120	HUB SPIGOT 8 STUD	094/002307
PRT68130	BRAKE DRUM 8 STUD	094/002308
PRT68160	SEAL GREASE COMPLETE	094/002309
PRT68150	WHEEL BOLT M20 TWIN	094/002310
PRT68156	DUST COVER	094/002311
PRT61358	SCREW M8x16 FLAT HEAD	094/002312
PRT71720	M16 LOCKNUT x 140mm	094/002313
PRT68152	CONE DIN - INNER 20mm	094/002314
PRT68153	CONE DIN - OUTTER 20mm	094/002315
PRTBCS	BRAKE CAM SHAFT	094/002316
Part No.	**Ramp / Jack Leg Parts List**	**Catalogue No.**
PRTJLO	JACK LEG OUTER (80x80x4mm Box Section x 540mm long)	094/015129
PRTJLOP	JACK LEG OUTER PIN (155mm long)	094/015130
PRTJLI	JACK LEG INNER (70x70x5mm Box Section x 360mm long)	094/015131
PRTJLIP	JACK LEG INNER PIN (Dia 24mm x 120mm)	094/015132
PRTJLPSP	JACK LEG INNER PIN SPRING PIN	094/015133
PRTLR	LOADING RAMP (2000mm x 570mm)	094/015134

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Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.
NS565614	Engineering Acceptance Certificate - Atkins	1	18/12/2014,1
NS564314	Engineering Acceptance Certificate -Atkins	1	12/12/2014,1
WC-01	Welding Competency testing	Issue 1	07/07/2014,1
Technical Doc	Granning Axle and suspension system 750 series drum braked	--	15/01/2015,1
IP	Intellectual Property Rights Declaration	Issue 1	20/08/2014,1
Technical Doc	EC Deceleration of Conformity	---	15/01/2015
Technical Doc	General Ringfeder 40mm trailer coupling manual	--	15/01/2015,1
Technical Drawing	4m and 6 M Platform Rail Trailer, General arrangement drawings	--	15/01/2015,1
PERT 640	Report of Thorough Examination of Equipment PUWER 1998, Regulation 6	6	24/11/2014,1
PERT 715	Report of Thorough Examination of Equipment PUWER 1998, Regulation 6	6	15/12/2014,1
Technical Doc	Trailer Usage	---------	15/01/2015
NS550214	Engineering Acceptance Certificate - Atkins	1	22/08/2014,1
NS550314	Engineering Acceptance Certificate	1	22/08/2014,1
NS550414	Engineering Acceptance Certificate	1	22/08/2014,1
NS550514	Engineering Acceptance Certificate	1	22/08/2014,1
WC-01	Welding Competency testing	Issue 1	03/11/2014,1
Technical Doc	5m Granning Axle and suspension system 750 series drum braked	--	03/11/2014,1
Technical Doc	ISO 9001:2008 certificate	-	28/07/2014,1
RT1101	EC Deceleration of Conformity	---	03/11/2014,1
Technical Doc	Ringfeder 40mm trailer coupling manual	--	03/11/2014,1
Technical Doc	5m Platform Rail Trailer, General arrangement drawings	--	03/11/2014,1
PERT 605 – 608	5m Report of Thorough Examination of Equipment PUWER 1998, Rev 6	6	03/11/2014,1
Technical Doc	5m Intellectual Property Rights declaration	1	03/11/2014,1
Predator Equipment Ltd –RT-ATT Technical Doc	Rail Cart –Attachment –FEA Report	B	17/06/2015,3
Predator Equipment Ltd Technical Doc	Rail Cart –Engineering Drawing	2	17/06/2015,3
Predator Equipment Ltd Technical Doc	Loading/Unloading Risk Assessment Analysis	2	17/06/2015,3
Predator Equipment Ltd –RT-ATT Technical Doc	New Product Configuration Photographic Evidence	2	10/07/2015
Predator Equipment Ltd –RT-ATT Technical Doc	Rail Cart – Orderable Part list	2	17/06/2015,3

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NS508915	Engineering Acceptance Certificate - Atkins	2	26/06/2015, 3
NS508815	Engineering Acceptance Certificate - Atkins	2	26/06/2015, 3
NS508715	Engineering Acceptance Certificate - Atkins	2	26/06/2015, 3
NS510915	Engineering Acceptance Certificate - Atkins	2	26/06/2015, 3
NS511015	Engineering Acceptance Certificate - Atkins	2	26/06/2015, 3
NS511115	Engineering Acceptance Certificate - Atkins	2	26/06/2015, 3
Predator Equipment Ltd Technical Doc	EC Deceleration of Conformity-RT 1101	2	03/08/2015, 3
Predator Equipment Ltd Technical Doc	Intellectual Property Rights declaration- RT 1101	2	20/07/2015, 3
Predator Equipment Ltd Technical Doc	Product / Process FMEA	1	17/07/2015, 3

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
RT4 2014	Rail Trailer Operation and Maintenance Manual	1	15/01/2014	1
RT5 2014	Rail Trailer Operation and Maintenance Manual	1	03/11/2014	1
RT6 2014	Rail Trailer Operation and Maintenance Manual	1	15/01/2014	1
RT4,RT5,RT6	Rail Trailer Operation and Maintenance Manual	3	01/05/2015	3

Certificate History

Issue	Date	Issue History
1	3/11/2014	First granted full approval within the terms and conditions listed on this certificate and/or within the referenced documentation
2	28/01/2015	First granted full approval within the terms and conditions listed on this certificate and/or within the referenced documentation
3	18/09/2015	Issue for the introduction of loading ramps, jack support leg and S1002 MM wheel profile

Certificate of Acceptance PA 05/06168

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Contact Details

Manufacturer

Eamon McVeigh
eamon@predatorni.com

Applicant

See manufacturer

Product Approval Lead Reviewer

Timi Ajasa – Engineer (Plant and T&RS)
Timi.Ajasa@networkrail.co.uk

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.

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.