

# Certificate of Acceptance

PA05/06136

**Manufacturer: Fischer Fixings UK****Issue :** 1  
**Valid From :** 18-04-2016

## Fixing System for Signalling Equipment on Concrete Slab Track

### Product Description

Fischer Highbond Anchor System is a quick setting chemical fixing to facilitate attaching Signalling Equipment directly to Concrete Slab, (and with authority concrete sleepers and bearers).

### Product Image

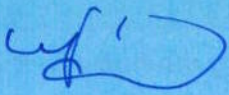


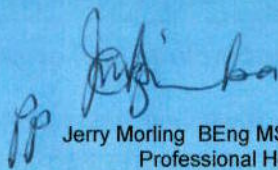
### Scope of Acceptance

#### Full Acceptance

To be used to fix the Signalling Equipment to Concrete Slab Track. May also may be used to fix Signalling Equipment to Concrete Sleepers & Concrete Bearers but only with the agreement of the Project Track Engineer.  
Has a maximum fixing thickness of 25mm.

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.  
Reviewed by: Authorised by:

  
PP Steve Rennolds  
Process & Change Specialist

  
PP Jerry Morling BEng MSc CEng MIET MIRSE  
Professional Head Signalling

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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) Shall manufacture to the configuration drawings listed in the Table 1 in "Product Configuration" section.
- 2) Shall take note of the General Conditions at rear of document.

### User

- 1) Shall use the products to fix the Signalling Equipment to concrete slab, sleepers & bearers to the approved method (Table A below).
- 2) Shall take precautions to avoid drilling into or through any pre-stressing bars of the Concrete Sleeper or Bearer.
- 3) Shall use an M12 Hardlock Flanged Stainless Steel Nut (Staytite ref HL-M12-FLR A2C), rather than the M12 standard nut supplied with the Anchor. The Washer supplied with Anchor is to be used.
- 3) During installation, the nut shall be started by hand to avoid the risk of cross-threading.
- 4) Shall take note of the General Conditions at rear of document.

## Product Configuration

**Table 1 Complete Fixing Kit**

Ref	Drawing Controlling Configuration	Description of Kit	PADS No.	Cert issue
1	Vortok Drawing: RF470003 Revision 4	Signalling Equipment Fastening Kit for Concrete Slab & Concrete Sleepers, comprising: <ol style="list-style-type: none"> <li>1. FHB II-PF 12 X 75, Resin Capsule FHB II-PF (Fast Curing), (from Fischer [Art No 500548]) 1 off.</li> <li>2. FHB II-A S M12 X 75/25, Stainless Steel Highbond M12 Anchor (from Fischer [Art No 097636]) 1 off.</li> <li>3. M12 A4 Stainless Steel Washer (comes with item 1 above) 1 off.</li> <li>4. HL-M12-FLR A2C, M12 Hardlock Stainless Steel Nut with Flange (from Staytite) 1 off.</li> </ol>	086/047491	T2

***This certificate does not include drill or drill bits for creating the holes in the concrete.***

**Table 2.1 Fischer Highbond Resin Adhesive**

Ref	Fischer Order No.	Fischer Article No.	Description of Product	PADS No.	Cert issue
1	FHB II-PF 12 x 75	500548	Resin Capsule FHB II-PF (fast curing) [pack of 10] Hole 12mm Ø, depth 90mm. Anchorage depth 75mm. Works with Anchor FHB II-A S M12 x 75	086/047492	T1

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**Table 2.2 Fischer Highbond Anchors**

Ref	Fischer Order No.	Fischer Article No.	Description of Product	PADS No.	Cert issue
1	FHB II-A S M12 x 75/25	097636	Stainless Steel Highbond M12 Anchor. Comes complete with Nut and Washer in packs of 10. Hole 12mm Ø, depth 90mm. Anchorage depth 75mm, fixture thickness 25mm max.	086/047493	T1

**Table 2.3 Fischer Accessories for Highbond System**

Ref	Fischer Order No.	Fischer Article No.	Description of Product	PADS No.	Cert issue
1	BS Ø 12	078179	Cleaning Brush for Concrete/Masonry for 12mm hole (1 off)	086/047494	T1
2	RA-SDS	062420	Machine Setting Tool (suitable for use with supplied set screw).	086/047495	T1
3	ABG	089300	Hole Cleaning Pump	086/047496	T1

## Assessed Documentation

**Table A European Approval Documentation**

Reference	Title	Doc. Rev.	Doc Date	Cert issue
Fischer 8.06.01-316/13	European Technical Approval ETA 05/0164 (includes installation and safety information)	---	20-06-2013	T1

**Table B Evidence Documents**

Ref	Title	Doc. Rev.	Doc Date	Cert issue
RF470003	Concrete Fastening Kit	4	21-07-2014	T2
E-mail	Email from Darren Keats on satisfactory use of Fischer Anchors	--	06-01-2016	1

## Manuals and Training Materials

Reference	Title	Doc. Rev.	Doc Date	Cert issue
Fischer 8.06.01-316/13	European Technical Approval ETA 05/0164 (includes installation and safety information)	---	20-06-2013	T1

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## Certificate History

Issue	Date	Issue History
T1	28-04-2014	First accepted for use on Thameslink
T2	08-08-2014	Change of anchor, nut and washer to stainless steel version (all were zinc plated steel).
1	18-04-2016	First Full Acceptance following successful trials on Thameslink.

## 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.