

Certificate of Acceptance

PA05/06822

Manufacturer:

Issue : 1

Consolis (Stanton Bonna Concrete Rail Ltd)

Valid From : 01/04/2017

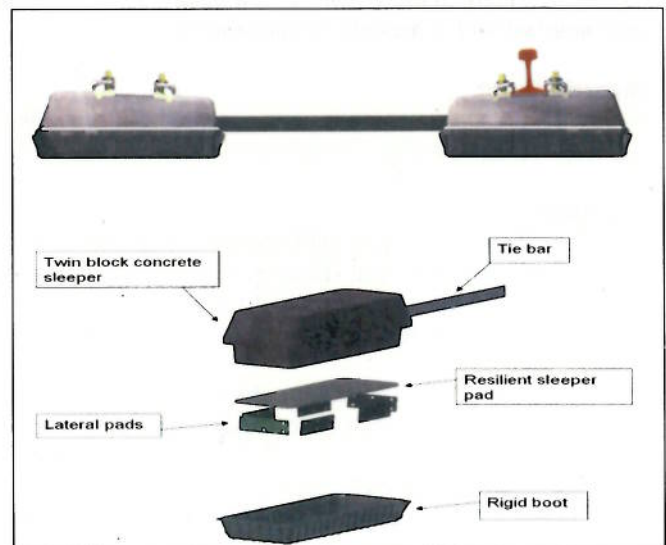
Consolis "Sateba" Type SAT S312 (non ballasted track)Twin Block Booted Sleeper

Product Description

The SAT S312 is a twin block concrete sleeper with a elastic booted element mounted within a rigid plastic shell. The system incorporates a resilient pad within the boot offering a second level of vertical and lateral elasticity within each sleeper block. The resilience of the sleeper system can be 'tuned' to the specific performance requirements of a project and are available in either standard twin block or mono-block and specific configurations for S&C bearers.

The system provides levels of vibration attenuation performance between 5db -15db. It is used as part of non-ballasted track construction and provides high levels of fixity and stable geometry.

Product Image



Scope of Acceptance

Full Acceptance

This certificate is valid for the applications of the Consolis "Sateba" Type SAT S312 (non ballasted track) Twin Block booted sleeper units on Network Rail Infrastructure from 1st April 2017 onwards.

The scope of the acceptance is for units in accordance with drawing SBC Rail C3253.

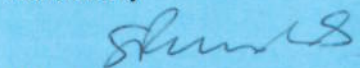
All units come complete with rail fasteners and booted components fully assembled.

The acceptance scope covers units fitted with Vossloh W14 type rail fastener systems for both CEN56 and CEN60 rail type applications with rail inclined at 1:20 and for standard UK gauge.

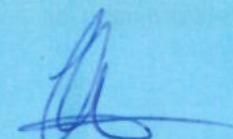
Aspects of design and installation methodology to complete a track system implementation, including, formation, drainage, base slab layers and setting out are subject to project specific requirements and shall follow the requirements for design, checking and approval according to the applicable Network Rail Standards, specifically NR/L2/TRK/2500.

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



Steve Rennolds
Technology Introduction Coordinator



Gareth Evans
Acting 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) All units to comply with stated dimensions in SBC C3253 and all other stated manufacturing requirements.

Designer

- 1) Continuity of structural support of the twin block units shall be provided through a continuously reinforced concrete pavement (base slab) or other bound systems of suitable depth, width, strength, reinforcement, and foundation according to the prevalent soil conditions and designed in accordance with appropriate load models and requirements in Network Rail, Group, National and European Standards.
- 2) The track system design shall incorporate suitable drainage to ensure the long-term performance of the track with reference to the specified design life for the project assets.
- 3) At interfaces between different sub-structures (tunnel portals, bridge abutments), consideration shall be given to dealing with risk of differential settlement, with additional measures specified as necessary.
- 4) Depth of the final phase concrete shall comply with the boot embedment and structural support requirements shall be specified on drawings submitted for design approval.
- 5) The overall typical construction depth of the units from TOR (top of rail) to top of first stage base slab is 490mm (indicative value with 60E1 rail).
- 6) The specification for the required rail section (CEN60 E2 or CEN56 E1) and any protection coatings shall be defined at the appropriate NR project GRIP stage.
- 7) The Design checking and approval shall be conducted in accordance with applicable Group & Network Rail Standards, specifically NR/L2/TRK/2500 where the system shall be considered as requiring a Cat 3 design check under the authority of this Product Acceptance Certificate.

Installer

- 1) Installation to be undertaken by an NR approved contractor.

User

- 1) Normal track inspection and incident interventions and timescales to apply as per NR/L2/TRK/001

Variants

- 1) Variations in rail fastener components that deviate from the W14 fastener system shall be subject to specific separate product acceptance applications supported by both SBC Rail and the relevant rail fastener system supplier.

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Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
C3253	Consolis "Sateba" Type SAT S312 (non ballasted track)Twin Block Booted Sleeper	0057/060140

Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
CRLSLPCOMP10001	60 X 60 X 8MM HOT DIPPED GALVANISED TIE BARS	0057/060141
CRLSLPCOMP10002	AE120 1200X9MM BLACK CABLE TIES	0057/060142
CRLSLPCOMP10003	MAGTAPE XTRA GLOSS TAPE FOR CUSHION MATS (supplied in rolls of 50m)	0057/060143
CRLSLPCOMP10005	TYPE S1 RESILIENT PAD	0057/060144
CRLSLPCOMP10006	TYPE S2 RESILIENT PAD	0057/060145
CRLSLPCOMP10007	TYPE S3 RESILIENT PAD	0057/060146
CRLSLPCOMP10008	LATERAL PAD	0057/060147
CRLSLPCOMP10009	RIGIT BOOT C/W ASSEMBLED LATERAL PADS	0057/060148
CRLSLPCOMP10010	SBR B6002 GASKET	0057/060149
CRLSLPCOMP10011	KOROPOP 225 2K ADHESIVE (supplied in 270kg drums or as part of a combined 490ml cartridges)	0057/060150
CRLSLPCOMP10012	KORACUR 310 ADHESIVE (supplied in 28kg drums of as part of a 490ml combined cartridge)	0057/060151
CRLSLPCOMP10016	VOSSLOH SKL 14 V TENSION CLAMP (W14 FASTENING SYSTEM)	0057/060152
CRLSLPCOMP10017	VOSSLOH SKL 14 V ANGLED GUIDE PLATES (W14 FASTENING SYSTEM)	0057/060153
CRLSLPCOMP10018	VOSSLOH ZW RAIL PAD (W14 FASTENING SYSTEM)	0057/060154
CRLSLPCOMP10019	VOSSLOH SLEEPER SCREW C/W WASHER (W14 FASTENING SYSTEM)	0057/060155
CRLSLPCOMP10020	VOSSLOH PLASTIC DOWEL (W14 FASTENING SYSTEM)	0057/060156
CRLSLPCOMP10021	VOSSLOH HEIGHT ADJUSTMENT PLATE (W14 FASTENING SYSTEM)	0057/060157
CRLSLPCOMP10022	400 X 230 X 7MM CUSHION MATS	0057/060158

Software

Part No.	Description	Version No.
N/A	N/A	N/A

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
1	Technical specification S312 System Rev 00 Date: 25/04/2014	1	01/04/17	1

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
2	Calculation of design bending moment of SAT S 312 Sleeper according UIC leaflet 713R, Rev 0, Date: 11/04/2014	1	01/04/17	1
3	Qualification tests, Rev 01, Date: 11/04/2014	1	01/04/17	1
4	Drawing C 3253  C3253.pdf	1	01/04/17	1
5	ISO 9001 Certificate	1	01/04/17	1

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
N/A				

Certificate History

Issue	Date	Issue History
1	01/04/2017	First full certificate Issue to comprise Full Acceptance from April 2017

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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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