Certificate of Acceptance PA05/04983

Manufacturer:
Polysafe Level Crossings Systems Ltd

Issue : 4
Valid From : 25-3-2021

Polysafe / Bomac Level Crossing Decking System

Product Description

Polysafe / Bomac Level Crossing Decking System (Concrete and Polymer) - vehicular, pedestrian, bridleway and track access system.

Product Image

Complete vehicular road system as built:

Scope of Acceptance

Full Acceptance

For use as a new or replacement footpath crossing surface system (as defined in Network Rail Standard NR/L2/TRK/4040).

For use with CEN56E1 (BS113A) and CEN60E1 rail profiles.

Full size vehicle system already approved under certificate PA05/041

Pedestrian/ Bridleway systems are approved under this Certificate PA05/04983

Other components that were in use 1992 and before are deemed to be approved under Grandfather rights to allow " like for like" replacement.

Issue 3 includes for additional specific parts for the application of level crossing panels on canted track.

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

Steve Rennolds
Product Acceptance Specialist

Authorised by

Gareth Evans
Network Technical 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) An installation manual shall be supplied with all purchases.
2) The latest relevant standards/ drawings are available and worked to, and that the product is compliant.
3) Notify Network Rail Product Acceptance:
   - Within 48 hours, of any deficiencies affecting the product quality, functionality and safety integrity of the product (including corrective action undertaken or proposed).
   - Of any intended change to the accepted product. Changes include:
   a) a change to the product configuration (to the actual product or its application);
   b) a variation to or addition of manufacturing locations or processes; and
   c) a change in the name or ownership of the manufacturing company.
4) Provide all documentation in the English (UK) language.
5) Provide operating and maintenance manuals to purchasers/users of the product.
6) Provide products in accordance with the changes to drawing LX005 as identified under separate image file LX005 cranked.png, for applications of cess crossing panels applied to canted track.

User

1) For new installations the level crossing components shall not be combined with components from other proprietary systems.
2) Users of the product are responsible for ensuring compliance with the certificate conditions. If a condition is not understood guidance shall be sought from Network Rail Product Acceptance.
3) Users are responsible for ensuring that the product is fit for purpose and that the application of use complies with the scope of acceptance. Any product defect should be taken up immediately with the supplier. If the defect is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway this shall be reported in writing to Network Rail Product Acceptance.
4) Anyone becoming aware of a change to the product configuration (to the actual product or its application) should inform Network Rail Product Acceptance in writing.
5) All staff required to use the equipment shall be suitably trained and, where appropriate, qualified as competent to use it.
6) Products shall be maintained in accordance with the manufacturer's recommendations.
7) Products shall be repaired / serviced by the manufacturer or its nominated agent only.
8) Where the product is to be used in areas where Network Rail is not the Duty Holder (e.g. Leased Stations), the sponsor shall obtain formal consent from the Duty Holder for the locality where the equipment is to be installed in compliance with Railway Group Standard GE/RT8270 to deploy that equipment on, or about, or as part of that party's on or about their infrastructure. The decision of that party is absolute, and cannot be overridden except through the escalation processes established in the ROGS regulations.

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Product Configuration

Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
AISPPB	Internal (4 ft) Steel Framed Polymer Panel 600mm (BOMAC STYLE)	0057/068489
AESPPB	External (Cess) Steel Framed Polymer Panel 1200mm (BOMAC STYLE)	0057/068488
AHESPPB	Half External (Cess) Steel Framed Polymer Panel 600mm (BOMAC STYLE)	0057/068493
AISCAP	Internal (4ft) Steel Framed Concrete Panel (BOMAC STYLE)	0057/068396
AESCAP	External (Cess) Steel Framed Concrete Panel (BOMAC STYLE)	0057/068397
AHESCP	Half External (Cess) Steel Framed Concrete Panel (BOMAC STYLE)	0057/068398
ACK48	Concrete Kerb 4.8m C/W Rubber Strip (BOMAC STYLE)	0057/068485
ACK42	Concrete Kerb 4.2m C/W Rubber Strip (BOMAC STYLE)	0057/068484
ACK36	Concrete Kerb 3.6m C/W Rubber Strip (BOMAC STYLE)	0057/068483
ACK24	Concrete Kerb 2.4m C/W Rubber Strip (BOMAC STYLE)	0057/068482
ACK18	Concrete Kerb 1.8m C/W Rubber Strip (BOMAC STYLE)	0057/068481
ACK12	Concrete Kerb 1.2m C/W Rubber Strip (BOMAC STYLE)	0057/068480
AGB36	Polysafe Ground Beam 3.6m C/W Road Plate	0057/068419
AGB24	Polysafe Ground Beam 2.4m C/W Road Plate	0057/068395
AGB12	Polysafe Ground Beam 1.2m C/W Road Plate	0057/068394
AKRS24	Additional Rubber Strip 2400mm	0057/068390
APB	Profile Boards (Per Pair)	0057/068387
AISD	Internal Panel Securing Device (Complete with Clips)	0057/068389
AESD	External Panel Securing Device (Complete with Clips)	0057/068388
APCLD	Panel Chain Lifting Device (Set)	0057/068380
AKCLD	Kerb Chain Lifting Device (Set)	0057/068381
AMPLD	Manual Panel Lifting Device (Pair)	0057/068382
ABIW	Bottom Internal Wedge 600mm 113a Rail	0057/068393
ATIW	Top Internal Wedge 600mm 113a Rail	0057/068392
AEW	External Wedge 600mm 113a Rail	0057/068391
ABIW60	Bottom Internal Wedge 600mm UIC60 Rail	0057/068611
ATIW60	Top Internal Wedge 600mm UIC60 Rail	0057/068612
AEW60	External Wedge 600mm UIC60 Rail	0057/068613
M1	External/ Cess/ 6 foot polymer panel with cover plate for clip	0057/027965
M2	Internal/ 4 foot polymer panel with cover plate for clip	0057/027966

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Part No.	Description	Catalogue No.
M3	Special size ref. Manningtree – M3	0057/027967
M4	Special size ref. Manningtree – M4	0057/027968
M5	Special size ref. Manningtree – M5	0057/027969
M6	Special size ref. Manningtree – M6	0057/027970
M7	Special size ref. Manningtree – M7	0057/027971
M8	Special size ref. Manningtree – M8	0057/027972
M9	Special size ref. Manningtree – M9	0057/027973
M10	Special size ref. Manningtree – M10	0057/027974
M11	Special size ref. Manningtree – M11	0057/027975
M12	Special size ref. Manningtree – M12	0057/027976
M13	Special size ref. Manningtree – M13	0057/027977
M14	Special size ref. Manningtree – M14	0057/027978
M15	Special size ref. Manningtree – M15	0057/027979
M16	Special size ref. Manningtree – M16	0057/027980
M17	Special size ref. Manningtree – M17	0057/027981
M18	Special size ref. Manningtree – M18	0057/027982
M19	Special size ref. Manningtree – M19	0057/027983
M20	Special size ref. Manningtree – M20	0057/027984
M21	Special size ref. Manningtree – M21	0057/027985
M22	Special size ref. Manningtree – M22	0057/027986
M23	Special size ref. Manningtree – M23	0057/027987
M24	Special size ref. Manningtree – M24	0057/027988
M25	Special size ref. Manningtree – M25	0057/027989
M26	Special size ref. Manningtree – M26	0057/027990
M27	Special size ref. Manningtree – M27	0057/027991
M28	Special size ref. Manningtree – M28	0057/027992
M29	Special size ref. Manningtree – M29	0057/027993
M30	Special size ref. Manningtree – M30	0057/027994
M31	Special size ref. Manningtree – M31	0057/027995
M32	Special size ref. Manningtree – M32	0057/027996
M33	Special size ref. Manningtree – M33	0057/027997
ATIW690	Top Internal wedge 685mm	0057/027998
ABIW690	Bottom Internal wedge 685mm	0057/027999
AEW690	External wedge 685mm	0057/028000
AESPPBCRANKUP	External (Cess) Steel Framed Polymer Panel 1200mm (BOMAC style) Cranked Up (allows for provision of installation on canted track)	0057/028003
AESPPDCRANKDOWN	External (Cess) Steel Framed Polymer Panel 1200mm (BOMAC style) Cranked Down (allows for provision of installation on canted track)	0057/028009

Part no.	Product Description	Catalogue No.
	Pulling Tools	
AWRTSET	Wedge Removal Tool set (2 tools)	**0057/028030**
AWRTSPARE	Wedge Removal Tool spare (1 tool)	**0057/028042**

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Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
LX-001	Polysafe level crossing		04/2007	1
-	Arrangement of internal securing bracket		04/1994	1
-	Installation & Maintenance notes for Polysafe level crossings		-	1
-	BS EN ISO 9001:2008 certificate		25/09/2009	1
-	Flange depth drawing			1
A-113	Polysafe internal top rubber		20/04/2007	1
JRD/VJB/750	Level crossing system design load assessment (Rowland Structural Consultants)		30/06/1999	1
-	Polymer concrete level crossing panels		-	1
-	Level crossing surface systems (electrical performance)		-	1
-	Electrical Impedance Test Report		Feb 1999	1
-	Link-Up certificate Exp date 14/04/2012		-	1
LX004	Details of Steel Frame for Internal Standard Polymer Panel	2	Apr97	2
LX005	Details of Steel Frame for External Standard Polymer Panel	2	Apr97	2
LX012	Manningtree Reinforcement details for 690 wide steel frame external panel	-	Feb 92	2
LX016	Manningtree General Arrangement of Crossing showing Unit Layout	-	July 92	2
LX017	Manningtree Details of Non Standard Steel Frame for Internal Polysafe Panel	-	July 92	2
LX018	Manningtree Reinforcement details of non-standard internal Polysafe panel	-	July 92	2
LX019	Manningtree Details of Non Standard Steel Frame for Infill Polysafe Panel	-	July 92	2
LX020	Manningtree Reinforcement details of non-standard infill Polysafe panel	-	July 92	2
A113M	Internal Top Rubber Wedge 685mm	-	1992	2
BK113MA	Bottom Internal Wedge 685mm		1992	2
A111M	External Wedge 685mm		1992	2
PDF	Untitled_20170217_141205_001	-	-	2
PDF	Untitled_20170217_141145_001	-	-	2
LX005 cranked.png	Image file showing specific modification to drawing LX005	-	February 2019	3
Appendix Ref: APP LX-005 Rev 3	Appendix identifying manufacturing requirements in addition to drawing notes annotated on drawing LX-005 and any associated amendments.		Feb 2019	3
Polysafe wedge removing tool drawing	Drawing title – Wedge Removing tool		1 Nov 2020	4
	Instructions for use Polysafe wedge removal tool			4
	HF Design file – the design and development of a puller bar for removing polysafe (Bomac) rubbers			4

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Certificate History

Issue	Date	Issue History
1	13 December 2011	First accepted for use
2	13 April 2017	New products added to the range combined PA05/041 to PA05/04983
3	21 February 2019	Family of standard components augmented with two addition panels that are configured for application on canted track. The additional parts are as described in a modification to the main drawing (LX005) under document (LX005 cranked.png) which shows the specific manufacturing changes.
4	25 March 2021	4th issue of the certificate to capture the addition of pulling tools

Contact Details

Manufacturer

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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.

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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.

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.