

# Certificate of Acceptance

OFFICIAL  
PA05/07681

**Manufacturer:**  
Henry Williams

**Issue :** 1  
**Valid From :** 25/09/2024

## New Gen Large Location Case

### Product Description

The New Gen Large Location Case is designed to accommodate trackside equipment using BRS SM440 predesigned framework and/or industry standard 19" Racking. It provides a safe and secure environment developed & tested to LPS1175 SR2 for the protection of installed equipment. It has an IP54 rating and has solar mitigating properties during periods of hot weather.

### Product Image



### Scope of Acceptance – Full Acceptance

The New Gen Large Location Case is approved to house trackside equipment. The IP54 cabinets provide LPS 1175 security rating SR2, sealed cable entry and can accommodate both BRS SM440 and 19" racking. The New Gen Large Location Case incorporates passive thermal management providing the following internal environment:

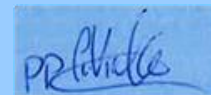
HW – New Gen Large Location Case: Thermal Performance			
Internal Equipment Losses	External Ambient in Full Sun	Internal Ambient	Temperature Rise
500W	40°C	47.1°C	+7.1°C

Note: The number of temperature related premature failures of equipment, including electronics and batteries will decrease due to the reduced temperature cycles and minimisation of peaks.

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:

Steve Rennolds  
Product Acceptance Specialist

Jerry Morling BEng MSc CEng MIET MIRSE  
Network Technical 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) Material, mild steel or 304/316 stainless steel.
- 2) Electro zinc plated to BS EN ISO 2081, painted to RAL 7001 Semi-Gloss 10-25% Gloss.
- 3) Labels required on ALL active doors.

### User

- 1) Designers should note: The New Gen Large Location Case has a larger footprint when compared to the standard legacy location case.
- 2) Designers should note the operating environment provided by the location case when selecting equipment to be installed within.
- 3) Operators and maintainers must maintain the equipment in line with the manufacturer's instructions and O&M manual.

## Product Configuration

### System or Complete Assembly

Part No.	Description	Catalogue No.
D2022.001-A1-001	New Gen Large Location Case (Mild Steel) c/w Full Width BRS SM 440 brackets	0086/036809
2023.005-A1-001	New Gen Large Location Case (Stainless Steel 304) c/w Full Width BRS SM 440 brackets	0086/036810
2023.006-A1-001	New Gen Large Location Case (Stainless Steel 316) c/w Full Width BRS SM 440 brackets	0086/036811
D2022.001-A1-500	New Gen Large Location Case (Mild Steel) c/w 2 x Half Width BRS SM 440 brackets	0086/036813
2023.005-A1-500	New Gen Large Location Case (Stainless Steel 304) c/w 2 x Half Width BRS SM 440 brackets	0086/036814
2023.006-A1-500	New Gen Large Location Case (Stainless Steel 316) c/w 2 x Half Width BRS SM 440 brackets	0086/036815
D2022.001-A1-600	New Gen Large Location Case (Mild Steel) c/w 1 x 19 Inch Rack & 1 x Half Width BRS SM 440 brackets	0086/036816
2023.005-A1-600	New Gen Large Location Case (Stainless Steel 304) c/w 1 x 19 Inch Rack & 1 x Half Width BRS SM 440 brackets	0086/036817
2023.006-A1-600	New Gen Large Location Case (Stainless Steel 316) c/w 1 x 19 Inch Rack & 1 x Half Width BRS SM 440 brackets	0086/036818
D2022.001-A1-700	New Gen Large Location Case (Mild Steel) c/w 2 x 19 Inch Rack	0086/036819
2023.005-A1-700	New Gen Large Location Case (Stainless Steel 304) c/w 2 x 19 Inch Rack	0086/036820
2023.006-A1-700	New Gen Large Location Case (Stainless Steel 316) c/w 2 x 19 Inch Rack	0086/036821

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## Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
D2022.001-A2-001	Large case Side panel assembly	0086/036822
D2022.001-A3-001	Large case top stile	0086/036823
D2022.001-A4-001	Large case bottom stile	0086/036824
D2022.001-A5-001	Top angle large case	0086/036825
D2022.001-A6-001	Large case base panel	0086/036826
D2022.001-A12-001	Large case roof assembly	0086/036827
D2022.001-A8-001	LH Door assembly large case c/w document wallet	0086/036828
D2022.001-A8-100	LH Door assembly large case c/w laptop shelf	0086/036829
D2022.001-A9-001	RH Door large case	0086/036830
D2022.001-C1-010	Base angle assembly	0086/036831
D2022.001-C12-001	Large case gland panel	0086/036832
D2022.001-C3-002	Light bracket	0086/036833
D2022.001-UNISTRUT	P40000 UNISTRUT	0086/036834
MICO-TIN-001	SR2 Hasp & Staple	0086/036835
2005.059-A5-001	A3 Document Holder	0086/036836
D2022.001-C1001-001	Laptop Shelf Assembly	0086/036837
1987.008-C1-002	Lifting Bracket	0086/036838
D2022.001-C850-001	Locking Bar	0086/036839
D2022.001-C7-001	Door Stay	0086/036840
DIR-020	Door Hinges	0086/036841
D2022.001-C2000-001	Vent Hood	0086/036842
D2022.001-C11-100	Filter Housing	0086/036843
D2022.001-C11-005	Filter	0086/036844
2023.004-A1-100	19 Inch Rack Bracket Set <ul style="list-style-type: none"> <li>2 off - RH base mount fixing bracket. (2023.004-C2-001)</li> <li>2 off - LH base mount fixing bracket. (2023.004-C77-001)</li> <li>2 off - 19 Inch RH Upright. (2023.004-C5-001)</li> <li>2 off - 19 Inch LH Upright (2023.004-C5-002)</li> <li>4 off -Top mount bracket. (2023.004-C3-001)</li> <li>Fixings for the above.</li> </ul>	0086/036845
2023.004-A1-200	BRSM 440 Internal Bracket Set (Suitable for Half & Full width options) <ul style="list-style-type: none"> <li>4 off - BRSM 440 Upright. (2023.004-UNISTRUT)</li> <li>2 off - Centre Base Angle Bracket. (2023.004-C1-200)</li> <li>4 off - End Base Angle Bracket. (2023.004-C1-010)</li> <li>Fixings for the above</li> </ul>	0086/036846

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## Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
CR4 Mild low-carbon Steel (1.0312)	Cold-rolled sheet – Data sheet	-	-	1
1050A Aluminium Alloy	Aluminium Allow 1050A H14 Sheet	18/7/2019	18/07/2019	1
304L Stainless Steel (1.4307)	Stainless Steel 1.4307 – 304L Material Data Sheet	11/2017	11/2017	1
P050000-1	Domed Blanking Plugs	2	18/12/2014	1
10195833	Threaded Index Plunger	1	19/07/2023	1
DIR-020-Door Hinge	7-201.01 Hinge Pr01 with Stud 180°	-	02/11/2023	1
Filter – DSP9	Technical Datasheet – DSP9	-	10/2018	1
275163E	Spring Loaded Latch Steel with Stud	1	09/10/2017	1
HW-Handle-001-Roof Handle Datasheet	Bow-type handle, Aluminium anodized; 1095-27-128NA	-	-	1
LEMUR-AG15 Datasheet	Technical Data Sheet LEMUR-AG15 ATL8590WL703-DA/AB	2	26/02/2020	1
Sealing Strip	Foam Tapes – RS Pro Black foam tape	-	-	1
C1245a-04	Assa Abloy Ltd T/A Abloy UK – Padlock	4	01/11/2019	1
MICO-TIN-001-Primary Door Hasp	Hasp & Staple SR2	-	-	1
HWL-SA-0064	Datasheet Hempadur 1555E paint	-	07/2022	1
Hempadur 17360	Datasheet Hempadur Zinc 17360	-	03/2022	1
Hempadur MIO 47950	Datasheet Hempadur MIO 47950	-	10/2017	1
Hempathane HS 55610	Datasheet Hempathane HS 55610	-	05/2018	1
HWL-SA-0013	Safety Data Sheet Hempadur MIO 47959	0.06	-	1
HWL-SA-0013	Safety Data Sheet Hempel's Curing Agent 98140	0.05	-	1
HWL-SA-0014	Safety Data Sheet Hempathane HS 55619	0.02	-	1
HWL-SA-0014	Safety Data Sheet Hempel's Curing Agent 97050	0.01	-	1
LITHIUM EP3_sds	Safety Data sheet	05.12.2017	05/12/2017	1
Hempel Certificate of Compliance – NR/L3/CIV/039	Certificate of Compliance - N4-104	-	30/07/2020	1
M4 ZP Form A Washer Datasheet	Bright Zinc Plated Steel Plain Washer, 0.8mm Thickness, M4	-	-	1
M4 NP Nyloc Nut Datasheet	RS Pro, M4, Bright Zinc Plated Steel Nylon Insert Lock Nut	-	-	1
M6 Nyloc Nut Datasheet	RS PRO, M6, Plain Nylon Insert Lock Nut	-	-	1
M6 SS Nyloc Nut Datasheet	RS PRO, M6, Plain Nylon Insert Lock Nut	-	-	1
M6 SS Washer Datasheet	Stainless Steel Plain Washer, 1.6mm Thickness	-	-	1
M6 x 16 SS Hex Pin Button Datasheet	RS PRO M6 x 16mm Hex Socket Button Screw Plain Stainless Steel	-	-	1
M6 x 20 ZP Hex Head Datasheet	Zinc plated & clear Passivated Steel Hex M6 x 20mm Set Screw	-	-	1
M6 ZP Form A Washer Datasheet	Bright Zinc Plated Steel Plain Washer, 1.6mm Thickness, M6	-	-	1

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
M6 ZP Form B Datasheet	RS Pro New Steel Plain Washer, 0.9mm Thickness, M6 (Form B)	-	-	1
M8 ZP Washer Datasheet	Bright Zinc Plated Steel Plain Washer, 1.6mm Thickness, M8	-	-	1
M8 x 20 ZP Hex Head Datasheet	Zinc plated & clear Passivated Steel Hex M8 x 20mm Set Screw	-	-	1
M8 x 20 ZP Mushroom Head Datasheet	RS PRO Bright Zinc Plated Steel Coach Bolt, M8 x 40mm	-	-	1
M8 x 35 Full Thread Datasheet	A2 S/Steel hex head set screw, M8x35mm	-	-	1
M8 ZP Form F Washer 210D Datasheet	M8 Form F Flat Washer	-	03/09/2024	1
M8 ZP Nyloc Nut Datasheet	RS PRO, M8, Bright Zinc Plated Steel Nylon Insert Lock Nut	-	-	1
M12 ZP Nyloc Nut Datasheet	RS PRO, M12, Bright Zinc Plated Steel Nylon Insert Lock Nut	-	-	1
M12 SS Washer Datasheet	Stainless Steel Plain Washer, 1.6mm Thickness, M12 (Form B), A4 316	-	-	1
M12 x 30 ZP Hex Head Datasheet	Hexagon Head Set Screw	-	-	1
M12 x 50 ZP Hex Head Datasheet	Hexagon Head Set Screw	-	-	1
M12 ZP Form B Washer Datasheet	RS PRO New Steel Plain Washer, 1.8mm Thickness, M12 (Form B)	-	-	1
4 Cases Study Vandalism 4 of 5	LEMUR Trial Vandalism	-	06/11/2020	1
D2022-001-DOC-03	New Generation Location Case Product Profile	1.2	-	1
GLS-HW-1-2023	Simulated Ground Level Solar Gain – Test SA3 (NR)	1	23/11/2023	1
D2022-001-DOC-19 V1.0	Retesting of Internal Losses for New Gen Location Case	1	11/06/2024	1
AXTF23021	Environmental Test – New Gen Location Case	2	18/01/2024	1
25128-01	IP Ingress Protection Testing	1	27/03/2024	1
DLE306642	Record of Proof Load Test – 22658	-	11/04/2024	1
P127728	BRE Attack Test Record Sheet	-	13/03/2024	1
D2022.001-A1-001	New Gen Large Location Case	M3	20/03/2024	1
D2022.001-C12-001	Gland Plate	M3	24/01/2023	1
D2022-001-E001	New Location Case Earthing Diagram	A	16/11/2023	1
7.1.1 – BSI Cert ISO 14001	bsi – Certificate of Registration – Environmental Management System	04-05-2022	09/05/2022	1
7.1.2 – BSI-Cert-ISO 9001	bsi - Certificate of Registration – Quality Management System	09-11-2021	20/11/2021	1
7.1.3 – CIRAS	CIRAS Certificate of Membership	-	01/04/2024	1
7.1.4 – RIA	RIA Member Certificate	-	Apr 2024	1
7.1.5 – RISQS-Certificate-2024/2025	RISQS Certificate of Verification	-	03/06/2025	1
7.1.6 – IMSD05-06	Quality Policy	-	27/04/2023	1
7.1.7 – IMSD06-06	Environmental Policy	-	27/04/2023	1

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
D2022-001-DOC-05	COSHH Statement	1.0	05/12/2023	1
D2022-001-DOC-11	Rail Carbon Tool – New Gen Location Case	-	12/03/2024	1
D2022-001-DOC-09	Carbon Calculation Tree of Henry Williams' New Gen Location Case	1.0	12/03/2024	1
D2022-001-DOC-13	Declaration of Conformity	1.0	Jun 2024	1
DfR - HWL Process Flows folder	HWL Process Flows	-	29/08/2024	1
D2022-001 PFEF-01D-01	Design Review Form	-	04/03/2024	1
D2002-001-DOC-014	New Gen Loc Priced Spares List	1.0	-	1
D2022-001-DOC-01	New Gen Location Cases Statement of Use	2.0	-	1
D2022-001-DOC-02	Manufacturing Instructions for New Location Case	1.0	15/11/2023	1
D2022-001-DOC-06	Location Case Reliability Report	2.0	12/09/2024	1
D2022-001-DOC-15	Models Table	2.0	-	1
D2022-001-DOC-16	New Gen Location Case Final Inspection Checklist	1.0	-	1
HW-NGL-DfR-001	RAM Programme	1.0	26/07/2024	1
HW-NGL-DfR-002	Functional Block Diagram	1.0	26/07/2024	1
HW-NGL-DfR-003	New Generation Location Case – Design FMEA	1.0	26/07/2024	1
HW-NGL-DfR-004	New Generation Location Case – Manufacturing FMEA	1.0	26/07/2024	1
HW-NGL-DfR-005	New Generation Location Case – Installation FMEA	1.0	26/07/2024	1
HW-NGL-DfR-006	Test Plan	1.0	26/07/2024	1
HW-NGL-DfR-007	Supporting Documentation Reference Guide	1.0	26/07/2024	1
HW-NGL-DfR-008	New Generation loc – Parts List	1.0	15/08/2024	1
HW-NGL-DfR-009	IPR Statement	1.0	09/08/2024	1
Email	New Gen Location Case – Progress and Technical Queries	-	02/01/2024	1
D2022-001 TQ Register	TQ Register – New Gen Location Case	7.0	-	1

## Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
D2022-001-DOC-04	New Gen Large Location Case – Operation and Maintenance Manual	5	29/08/2024	1

## Certificate History

Issue	Date	Issue History
1	25/09/2024	First accepted for use



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## Contact Details

### Manufacturer

Henry Williams  
[markburdon@hwilliams.co.uk](mailto:markburdon@hwilliams.co.uk)

### Applicant

Mick Turner  
[Mick.Turner2@networkrail.co.uk](mailto:Mick.Turner2@networkrail.co.uk)

### Lead Reviewing Engineer

Michelle Anderton  
[Michelle.Anderton@networkrail.co.uk](mailto:Michelle.Anderton@networkrail.co.uk)

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## General Terms & Conditions

### 1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the relevant Network Technical 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) If this is a Trial Certificate which includes a Trial Monitoring Period or Trial Expiry date, evidence should be submitted to meet the included trial criteria before the date has passed for the Lead Reviewing Engineer to assess if the product can be given Full Acceptance. If this cannot be achieved, the Product Acceptance team should be contacted via [prodacc@networkrail.co.uk](mailto:prodacc@networkrail.co.uk) to seek guidance. If this is a Full Certificate and includes a review date, the Product Acceptance team should be contacted via [prodacc@networkrail.co.uk](mailto:prodacc@networkrail.co.uk) to seek guidance.

### 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 Network Rail Design for Reliability Standard (DFR) NR-L2-RSE-0005 and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Product Acceptance in writing (email [prodacc@networkrail.co.uk](mailto:prodacc@networkrail.co.uk)):
  - 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, where the specification and/or Product Acceptance Certificates specify quality assurance classifications 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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#### 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 sponsoring applicant 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 RIS-8270-RST, 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 and Road) 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.