

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No.	NESA-T099
Approval date	08/11/2016
Approved by	Review Panel
Report no.	16/36471
<i>This certificate is issued to</i>	
Supplier	Solid Technologies Pty Ltd PO Box 426 Maroubra, NSW 2035
<i>In respect of</i>	
Manufacturer	Solid Technologies Pty Ltd
Product description	Solid Technologies Total Rail Repair Solutions – TRRS process For the repair and maintenance of rail network defects (wheel burns, squats, dips/surface damage on thermit welds, crossing repairs/build-ups) on AS 1085.1 Standard and Head Hardened high carbon rail as well as authentic manganese steel components.
Item identification	Procedures: <ul style="list-style-type: none"> - WPS R3016L2R40016L1 - WPS R3511L2R3516L1 - WPS 1418-24-25-16 - WPS 1418-24-25-12 Consumables: <ul style="list-style-type: none"> - Solid R30, 1.2 mm: P/N:1430B7D1215; - Solid R30, 1.6 mm: P/N:1430B7D1615; - Solid R35, 1.1 mm, PN:1430B7P1115; - Solid R35, 1.6 mm, PN:1435B7P1615; - Solid R400, 1.6 mm, PN:1440B7D1615; - RBM 24, 1,2 mm, P/N:1220B7D1203; 1220B7D1205; 1220B7D1213 - RBM 24, 1.6 mm, P/N:1220B7D1603; 1220B7D1605; 1220B7D1613 - RBM 25, 1.2 mm, P/N:1725B7D1203; 1725B7D1205; 1725B7D1213 - RBM 25, 1.6 mm, P/N:1725B7D1603; 1725B7D1605; 1725B7D1613 Machines: <ul style="list-style-type: none"> - Vantage 580 engine drive, P/N: K2963-1 - Ranger 305 D engine drive, P/N: K2922-1 - LN 25 PRO wire feeder, P/N: KA2613-5A
Application	Trial locations in Hunter Valley corridor
Relevant Standards	

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Approval**

1. Applicable to surface weld overlays/repairs. NOT to be used for joining of the rails.
2. Only to be applied by operators trained, experienced and qualified to AS1085.20 and Solid Technologies TRRS and certified to the requirements listed in ST document: 2a Solid Technologies Document List ST-DL-1603 Rev 1: Solid technologies operators certification/training satisfying ST 41 ST-TP-1407.
3. Only for a trial at selected locations in the Hunter Valley with the trial locations limited to a maximum of 4, which includes each of squats/wheel burns, dips/surface damage on thermit welds, and a fabricated crossing nose and wing repairs. Each weld shall be assessed and ultrasonically tested within the first 24 hrs of repair and then assessed once every week for the first month and then once every 2 months for up to 12 months, subject to the performance of the weld repair. A performance assessment report is to be provided to ARTC within 2 days of each assessment. Initial ultrasonic inspection of the welds are to record any defects in the weld including defects that are found to be undersize (as per ETM-01-04).
4. An inspection and test plan is to be provided prior to commencing any trial at ARTC.
5. The welds including hardness shall comply with AS1085.20 and Solid Technology test reports supporting this approval. The welds are also to comply with the requirements as set out in ARTC standards ETM-01-01 , ETM-01-04 and ETE-01-03
6. A wire feed welding return form shall be completed for every weld with the record handed to ARTC representative for acceptance.
7. All relevant Rail Safety and WHS requirements must be complied with.
8. An installation risk assessment must be completed and accepted by the Manager Maintenance Hunter Valley or a nominated representative.
9. Solid Technologies to comply with ARTC Rail repair quality processes and any other quality requirements provided as part of this type approval. Evidence of this must be documented and provided to the Manager Maintenance Hunter Valley.
10. Solid Technologies must prepare a detailed final report to form the basis of the full Type Approval. The report shall include welds that comply and/or do not comply with condition #5.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid certificate.

Note/Comments



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Issue date

Expiry date End of trial at each location

Issued by

John Furness

A handwritten signature in black ink, appearing to read 'John Furness', written over the printed name.

ARTC Manager Standards