MELBOURNE TESTING SERVICES

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TEST CERTIFICATE

FOR REPORT NO.(S): MT-19/0801-SWIFTCORE16
MT-19/0801-SWIFTCORE28-A
MT-19/0801-SWIFTCORE40

CLIENT: JIANGSU ERNEST TECHNOLOGY
215 MUDANJIANG ROAD
HUAIYIN DISTRICT
JIANGSU PROVINCE
PR CHINA

APPLICABLE STANDARD(S): ISO 15835-1: 2018, ISO 15835-2: 2018, ISO 15835-3: 2018 AND AS/NZS 4671: 2001

SLIP AND TENSILE TESTS:

As described and reported in the aforementioned Test Reports, MTS confirms that the SWIFTCORE 16, 28 & 40 coupled splice bar assemblies have ***PASSED*** the testing requirements for **TENSILE AND SLIP OPTION 2)** as specifically required by ISO 15835-1:2018 STEELS FOR THE REINFORCEMENT OF CONCRETE – REINFORCEMENT COUPLERS FOR MECHANICAL SPLICES OF BARS. PART 1: REQUIREMENTS.

The **TENSILE PROPERTIES** including yield strength, tensile strength & uniform elongation of the SWIFTCORE 16, 28 & 40 coupled splice bar assemblies are deemed compliant with the mechanical properties as required by AS/NZS 4671:2001 STEEL REINFORCING MATERIALS; TABLE 2.

Notes:

1) Melbourne Testing Services (MTS) Pty Ltd shall not be liable for loss, cost, damages or expenses incurred by the client or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Melbourne Testing Services Pty Ltd be liable for consequential damages including, but not limited to, lost profit, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested.
2) It remains the responsibility of the client to ensure that the samples tested are representative of the entire product batch.
3) MTS shall take no responsibility for the procurement and authenticity of the test product as described herein.
4) This report is specific to the test items in their state at the time of testing. It should not be taken as a statement that all products in all states of repair, would also perform in the same manner.
5) MTS shall take no responsibility for the appropriateness or validity of the coupler assembly procedure described in 'ON SITE INSTALLATION INSTRUCTIONS FOR SWIFTCORE STEEL BAR COUPLERS', as MTS was specifically instructed by the client to conduct the assembly in accordance with this document.
6) The reported uniform elongation of the spliced bar test specimens is the measured elongation in the spliced D500N rebars. The required uniform elongation of the spliced bar assemblies is computed to be 0.7x5.0% = 3.5% in accordance with ISO 15835-1:2018; whereby, the required elongation of a property class D500N bar is 5.0% as per AS/NZS 4671:2001.
7) The slip and tensile properties of the SWIFTCORE 16, 28 & 40 couplers are specific for assemblies having wire tied and twisted round the interlocking connection heads. MTS shall take no responsibility for the slip or tensile performance of SWIFTCORE 16, 28 or 40 spliced bar assemblies whereby tie wire is not utilised to prevent splaying of the interlocking connection heads.
8) MTS shall no take responsibility for the slip performance of the SWIFTCORE 16, 28 or 40 couplers as specifically required by Option 1) of ISO 15835-1:2018 Section 5.4. MTS advises the reader, that the reported slip performance of the SWIFTCORE 16, 28 & 40 spliced bar assemblies is specific for Option 2) only as this was exclusively requested by the client.
9) It should not be taken as a statement of fact that the spliced rebar assemblies as reported herein are compliant with the testing requirements of AS 3600, ISO 15835-1: 2009, ISO 15835-2: 2009, or NSW Government; Transport; Roads & Maritime Services; RMS Approval of Mechanical Reinforcing Bar Splices" Document No. SF2013/184115, Issue 3, May 2017.
10) Calculated bar diameters have been computed using a nominal steel density of 7,850kg/m^3.

DANIEL HUMFREY
AUTHORISED SIGNATORY
DATE: 26/09/2019

Accredited for compliance with ISO/IEC 17025-Testing.
Laboratory Accreditation No: 1047.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE