

Private Bag X28 Auckland Park 2006 South Africa Tel: +27 11 482 1300

Delivery Address: Cnr Menton Road & Frost Avenue Cottesloe 2092 Johannesburg

CERTIFICATE OF TEST

Test of one roof bolt (MB20 mm x 1.8 m)

Application Received: 19 July 2024

Certificate No.: T31823

Order No.: COD

Date of test: 24 July 2024

SUBMITTED TO

Mr Jerry Mtsweni Reunko Steel Suppliers (Pty) Ltd 35 Radio Street Alberton 1450

1. INTRODUCTION

At the request of Mr Jerry Mtsweni of Reunko Steel Suppliers (Pty) Ltd, one roof bolt (MB20 mm x 1.8 m) was submitted for tensile testing to destruction. The test was conducted according to the customer's specification.

2. TEST PROCEDURE

Testing machine:	1 000 kN Amsler Universal testing machine
Test type:	Destruction in tension
Test specification:	Customer's request

The roof bolt was installed in the 1 000 kN Amsler Universal testing machine using suitable fittings as shown in Figure 1. A gradually increasing tensile load was applied to the specimen until failure occurred.





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Figure 1. Roof bolt (MB20 mm x1.8 m) installed in the testing machine.

3. TEST RESULTS

Maximum load attained: 219.6 kN. Test comment: The specimen fractured as shown in Figure 2.





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Figure 2. Roof bolt (MB20 mm x 1.8 m) after the test.

4. **DISCLAIMER**

- 1. The CSIR cannot be held responsible for product indifferences and cannot be held responsible for any accidents or incidents as a result thereof.
- 2. Due to the limited amount of sample(s) tested and the type of testing done, CSIR can only account for the results from those specific samples tested.
- 3. All CSIR Routine Testing General Contract Conditions and conditions of testing apply.
- This Certificate of Test may not be published without prior written consent of the CSIR.
 This Certificate of Test must be reproduced in its entirety if published or reproduced by the client.
- 6. This report does not constitute any type of certification.

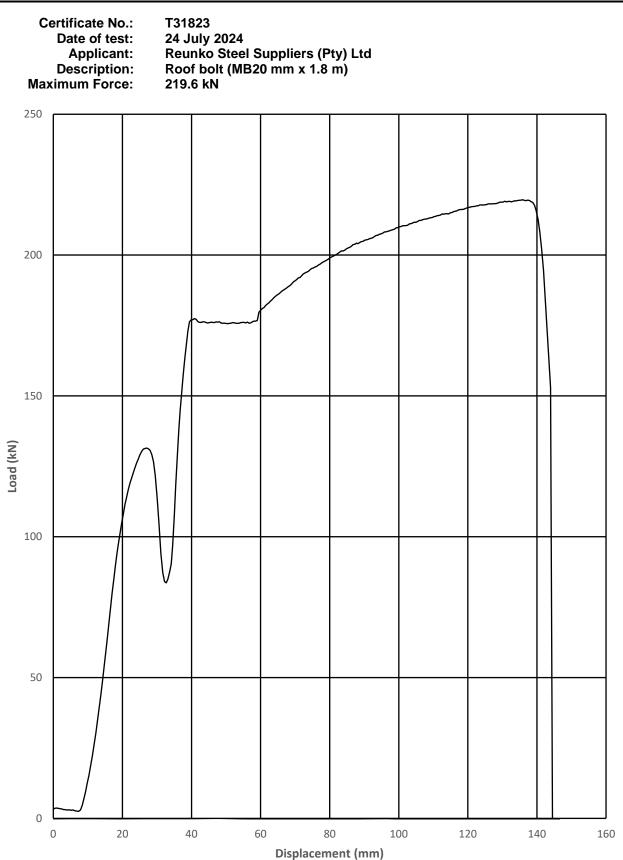


Certificate #: T31823

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Private Bag X28 Auckland Park 2006 South Africa Tel: +27 11 482 1300

Delivery Address: Cnr Menton Road & Frost Avenue Cottesloe 2092 Johannesburg

CERTIFICATE OF TEST

Test of one roof bolt (MB25 mm x 1.0 m)

Application Received: 19 July 2024

Certificate No.: T31824

Order No.: COD

Date of test: 24 July 2024

SUBMITTED TO

Mr Jerry Mtsweni Reunko Steel Suppliers (Pty) Ltd 35 Radio Street Alberton 1450

1. INTRODUCTION

At the request of Mr Jerry Mtsweni of Reunko Steel Suppliers (Pty) Ltd, one roof bolt (MB25 mm x 1.0 m) was submitted for tensile testing to destruction. The test was conducted according to the customer's specification.

2. TEST PROCEDURE

Testing machine:	1 000 kN Amsler Universal testing machine
Test type:	Destruction in tension
Test specification:	Customer's request

The roof bolt (MB25 mm x 1.0 m) was installed in the 1 000 kN Amsler Universal testing machine using suitable fittings as shown in Figure 1. A gradually increasing tensile load was applied to the specimen until failure occurred.





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Figure 1. Roof bolt (MB25 mm x 1.0 m) installed in the testing machine.

3. TEST RESULTS

Maximum load attained: 266.8 kN.

Test comment: The specimen fractured as shown in Figure 2.



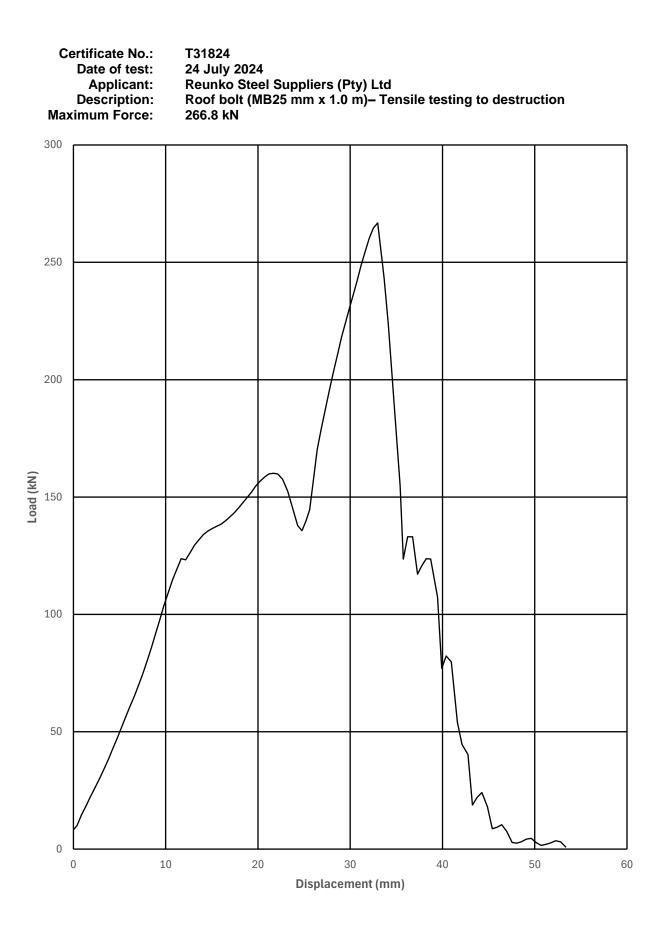


Figure 2. Roof bolt (MB25 mm x 1.0 m) after the test.

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Delivery Address: Cnr Menton Road & Frost Avenue Cottesloe 2092 Johannesburg

CERTIFICATE OF TEST

Test of one roof bolt (MB18 mm x 1.2 m)

Application Received: 19 July 2024

Certificate No.: T31825

Order No.: COD

Date of test: 24 July 2024

SUBMITTED TO

Mr Jerry Mtsweni Reunko Steel Suppliers (Pty) Ltd 35 Radio Street Alberton 1450

1. INTRODUCTION

At the request of Mr Jerry Mtsweni of Reunko Steel Suppliers (Pty) Ltd, one roof bolt (MB18 mm x 1.2 m) was submitted for tensile testing to destruction. The test was conducted according to the customer's specification.

2. TEST PROCEDURE

Testing machine:	1 000 kN Amsler Universal testing machine
Test type:	Destruction in tension
Test specification:	Customer's request

The roof bolt (MB18 mm x 1.2 m) was installed in the 1 000 kN Amsler Universal testing machine using suitable fittings as shown in Figure 1. A gradually increasing tensile load was applied to the specimen until failure occurred.





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Figure 1. Roof bolt (MB18 mm x 1.2 m) installed in the testing machine.

3. TEST RESULTS

Maximum load attained: 211.9 kN. Test comment: The specimen fractured as shown in Figure 2.





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Figure 2. Roof bolt (MB18 mm x 1.2 m) after the test.

4. DISCLAIMER

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Certificate #: T31825

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