



NATAL CC.  
 Registration No.: 1995/021676/23 VAT Reg. No.: 4770124792

emailed 23.04.2018

**ENGINEERING INSPECTION & CALIBRATION SERVICE**

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**WITNESS TEST**

NO: ON 28.04.20

**COMPANY:** EAST COAST COLUMNS & MOULDINGS  
 P O BOX 716  
 WESTVILLE  
 3610

**WITNESS DATE: DATE:** 19/04/2018

**PAGES:** 1 of 3

**ATTENTION:** MR LOFTY SAAIMAN

**YOUR ORDER NO:**

**EQUIPMENT WITNESSED**

**TYPE:** POLYMER CONCRETE MANHOLE COVER 410 x 45 mm AND MANHOLE 500 x 500 mm

**MAKE:** ECCM **SR NO:** SAMPLE

**SITE:** UNIT 3, BA BUSINESS PARK, 2 TORLAGE ROAD, NEW GERMANY, 3610.

**CALIBRATION PROCEDURE:** ON UTM

**EQUIPMENT USED:**

**TYPE:** STANDARD PRESSRIG

**MAKE:** HOME MADE

**SR NO:** N/A

**TYPE:** DIGITAL READOUT

**MAKE:** IEM

**SR NO:** KJM2

**TYPE:** LOAD CELL: 200 kN

**MAKE:** TDC

**SR NO:** 20613

**TEMPERATURE BEFORE:**  $20 \pm 2^{\circ}\text{C}$

**TEMPERATURE AFTER:**  $20 \pm 2^{\circ}\text{C}$

**RESULTS**

(See results on second page)

**WITNESSED BY:**

NOMINATED REPRESENTATIVE & AUTHORISED TECHNICAL SIGNATORY - TJD Beveridge

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NO: ON 28.04.20  
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## RESULTS

(Results continued)

**SPECIFICATION:** SANS 1882:2003 Edition 1

The test sample was set up and tested, photograph/s are attached.  
The load was increased slowly until the sample was destructed.

### Sample

**MANHOLE COVER** - The unit was tested insitu with the lid in position . The lid failed at 43.99 kN and no damage to the lip or chamber was noted.

**MANHOLE INSIDE LIP** - Exceeded 41.00 kN. - No failure.

**MANHOLE CHAMBER** - Tested to 41 kN - No failure

### CONCLUSION

Although the customers requirement was for a pedestrian manhole according to SANS 1882:2003 only requires a 7 kN load however we tested it to medium duty of 40 kN.

Equipment used is traceable to National Standards. The measurement results recorded in this certificate were correct at the time of calibration. The subsequent accuracy will depend on factors such as care, handling and frequency of use. It is recommended that recalibration be undertaken at an interval that will ensure that the instrument remains within the desired limits.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k = 2$  providing a level of confidence of approximately 95%, the uncertainty of measurement has been estimated in accordance with the principles defined in the GUM, Guide to Uncertainty of Measurement, ISO, Geneva, 1993.

**UNCERTAINTY:** As above + 1 LSD

**METHOD :** The verification was carried out using standard press and equipment listed above test station .

**TEMPERATURE:** Temperature recorder used: Major Tech serial No. 10097430

WITNESSED BY:

  
NOMINATED REPRESENTATIVE & AUTHORISED TECHNICAL SIGNATORY - TJD Beveridge

~ END OF CERTIFICATE ~