



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

**ENGINEERING INSPECTION & CALIBRATION SERVICE**

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**WITNESS TEST**

**NO: ON 28.10.05 B**

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

**WITNESS DATE: DATE:** 08/10/2018

**PAGES:** 1 of 2

**ATTENTION:** MR LOFTY SAAIMAN

**YOUR ORDER NO:**

**EQUIPMENT WITNESSED**

**TYPE:** POLYESTER RESIN AND FIBRE COMPOSITE MANHOLE COVER 600 x 600

**MAKE:** ECCM **SR NO:** SAMPLE  
**SITE:** 90 INTERSITE AVENUE, SPRINGFIELD PARK, DURBAN, KZN

**CALIBRATION PROCEDURE:** ON UTM (W)

**EQUIPMENT USED:**

<b>TYPE:</b> STANDARD PRESSRIG	<b>MAKE:</b> ADENDORE	<b>SR NO:</b> N/A
<b>TYPE:</b> DIGITAL READOUT	<b>MAKE:</b> IEM	<b>SR NO:</b> KJM2
<b>TYPE:</b> LOAD CELL: 200 kN	<b>MAKE:</b> TDC	<b>SR NO:</b> 20613
<b>TEMPERATURE BEFORE:</b> 22 ± 2° C	<b>TEMPERATURE AFTER:</b> 22 ± 2° C	

**RESULTS**

(See results on second page)

**WITNESSED BY:**

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 NOMINATED REPRESENTATIVE & AUTHORISED TECHNICAL SIGNATORY - T.J.D. BEVERIDGE

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NO: ON 28.10.05 B  
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PAGES: 2 of 2

## RESULTS

(Results continued)

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

The test sample was set up and tested, photographs are available on request.  
The load was increased slowly until the sample failed.

### Sample

**MANHOLE COVER** - The unit was tested insitu with the lid in position .

### CONCLUSION

The cover deflected at 30.5 kN. At 45.5 kN cracking sounds were heard. As the desired result of 43 kN had been achieved, the unit was not destroyed. There was no damage to the chamber or lip.

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: Standard serial No. 130900509

**WITNESSED BY:**

  
NOMINATED REPRESENTATIVE & AUTHORISED TECHNICAL SIGNATORY - TJD Beveridge

~ END OF CERTIFICATE ~