



Test Report No EC/TO 13921/

LOADING TEST REPORT

ECCLES UK FOUNDRIES FE LTD PORTLAND STREET WALSALL WEST MIDLANDS WS2 8AA



REMIT

Eccles UK Foundries were requested to load test a TORiser 675 x 675 clear opening Plus a TORiser 450 x 450 clear opening by Torrent Water Management Criteria - BS5834 Grade A Heavy Duty (350KN Load) + BSEN124 Class D (400KN Load)

TORisers placed beneath an Eccles DU022 Wide Flange 675 x 675 x 150 deep D400 Ductile Iron Double Triangular Cover & Frame and a 450 x 450 D400 Grating

Test Block Size – 300mm as per BS5834/BESEN124

Test Machine – Hydraulic 600KN capacity Test Bed

Test Operative – Ross Thompson

Date of Test – Monday 13th September 2021

Witnessed by – A.Wilkins (TWM) C. Rothery (Eccles UK) A. Eccles (Eccles UK) S. Yøung (Eccles UK)



SET-UP 675 x 675

Cover positioned centrally on the test bed

300mm Circular test block positioned central on cover

Flange on the cover sat in a central position on the TORiser





SET-UP 450 x 450

450 x 450 TORiser shown sat on Eccles 450 x 450 D400 Ductile Iron Grating & Frame

Centrally placed as the 675 x 675 cover

Cardboard placed under Test blocks to ensure even distribution of load (BSEN124 protocol)





Load applied manually as per BSEN124 protocol

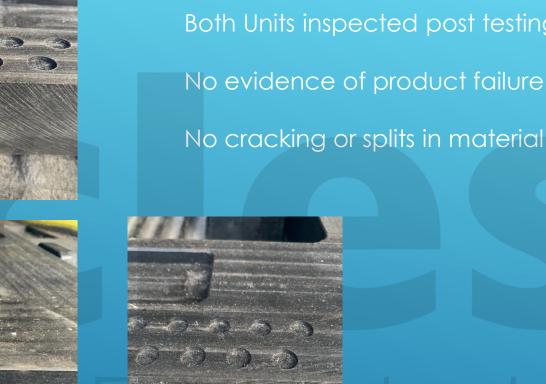
Load taken to 350KN (BS5834) Held for 30 seconds Result – Pass

Load then increased to 400KN D400 as per BSEN124 Held for 30 seconds

Result 675 x 675 - Pass 450 x 450 - Pass







Both Units inspected post testing No evidence of product failure



eccles



ECCLES Testing Equipment – Calibration Certification

EQUIPMENT LTD EL 1811 "TESTING QUALITY"	EQUIPMENT LTD IN 1911 "TESTING QUALITY"	EQUIPMENT LTD RA. 1931 "TESTING QUALITY"
Certificate of Calibration FORCE MEASUREMENT TEST MACHINE CUSTOMER: MACHINE DESCRIPTION: Solich Secondary Loadcell on 600kh Frame EGODE Foundry UK MACHINE REF NUMBER: Solich Secondary Loadcell on 600kh Frame MACHINE REF NUMBER: Bit Allow Waisall Certificate Number C68870	Certificate of Calibration FORCE MEASUREMENT TEST MACHINE CONTONNER: MACHINE DESCRIPTION: 20kN Pull Out Test Loadcell Ecces Foundry UK MACHINE REF NUMBER: 17201569 Valsall Walsell Walsell Walsell VS2 8AA Certificate Number T9414	Customer: Customer:
Method of Calibration: By Strain Gauge Loadcal(3) and associated Digital Indicator Certified 83 EW ISO 376 : 2011 Calibration Device Ref: 7 Calibration Device Expires: 07/07/21 Basis of Test: In accordance with International Standard ISO 7306-12018 Part 1: Trainio/Compression Testing Machines-Verification and calibration of the force measuring system Loads Applied: 10, 15, 20, 25, 30, 35, 40 & 50 Kilonewtons Calibration Figure: N/A Lat Range: 50 Kilonewtons down to 10 Kilonewtons Accurrey: 11% of Applied Load Grading: CLASS 1	Method of Calibration: By Strain Gauge Loadcall(s) and associated Digital Indicator Calibration Device Ref: 5 Calibration Device Expires: 20/09/22 Basis of Test: In accordance with International Standard ISO 7300-1:2018 Part 1: Transion/Compression Testing Machines-Verification and calibration of the force measuring system Losds Applied: 1, 4, 6, 10, 15 & 20 Kilonewtons Calibration Figure: N/A List Range: 20 Kilonewtons down to 1 Kilonewton Accurscy: 11% of Applied Load Greding: CLASS 1	Method of Calibration: By Strain Gauge Loadcel(t) and associated Digital Indicator Cartified BS EN ISO 376: 2011 Calibration Device Ref: 7 Calibration Device Expires: 07/07/21 Basis of Test: In accordance with International Standard ISO 7300-1:2018 Port 1: Tenion/Compression Testing Machines-Venification and calibration of the Iprace measuring system Loads Applied: 10, 30, 60, 100, 200, 300, 400, 500 & 600 Kilonewtons Calibration Figure: N/A Int Range: 600 Kilonewtons down to 10 Kilonewtons Accuracy: ±1% of Applied Load Grading: CLASS 1
2nd Range: Accuracy: Grading: BN/A Date of Calibration: 09th February 2021 Validity of Certification: 12 Months Average ambient temperature 12°C at time of verification: 12 C ton Gordon - MO Dote: 15/02/21 EXAMPLE OF CONTRACT	2nd Range: Accuracy: Grading: BN/A Date of Calibration: 9th February 2021 Validity of Certification: 12 Months Average ambient temperature 10°C at time of verification: 0°C Jon Gordon - MD Date: 15/02/21 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0	2nd Range: Accuracy: Grading: #N/A Date of Celibration: 9hh February 2021 Validity of Certification: 12 Months Average ambient temperature at time of verification: 10°C time Gordon - MD Date: 15/02/21 En Gordon - MD Date: 15/02/21

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