

Test Report



Report No EP002638

Client
Fibrelite Composites Ltd
Snaygill Industrial Estate
Keighley Road
Skipton
North Yorkshire
BD23 2QR

Authority & date BSI Invoice No JI020449 dated 3 November 1994

Items tested 6 off Composite Manhole Tops

Specifications
Tested against requirements of BS EN 124:1994
Clause 8 - Load Tests only

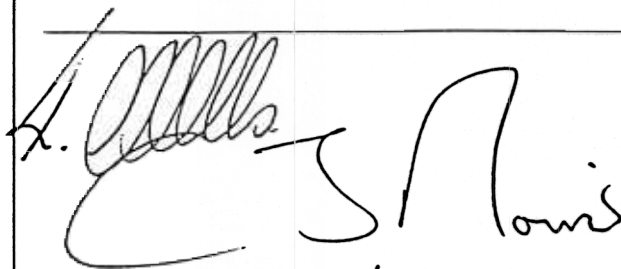
Results See Summary of Results on Page 2

Prepared by

Authorized by

Issue date

Conditions of issue


C J Morris
22 November 1994

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TESTING, EXAMINATION AND ASSESSMENT OF MANHOLE TOPS

DEFINITION

Manhole top:- That part of a manhole consisting of a frame and a cover.

INTRODUCTION

At the request of Fibrelite Composites Ltd the manhole tops detailed below, were tested and assessed using BS EN124:1994 - Clause 8 - as the basis for load testing, as indicated on the following pages of this Report. This request is as detailed in BSI Invoice No JI020449 dated 3 November 1994. It is emphasized that assessments have not been made against the other clauses of the Specification.

This Report only relates to the actual samples which have been tested and assessed. The results obtained do not necessarily relate to samples from the production line and in no way imply the performance or quality of the continuing production.

TEST ITEMS

Manhole top, Type FL42 - 1070mm diameter clear opening
Manhole top, Type FL36 - 900mm diameter clear opening
Manhole top, Type FL3 - 770 x 600mm clear opening
Manhole top, Type FL10 - 770 x 770mm clear opening
Manhole top, Type FL5 - 600 x 600mm clear opening
Manhole top, Type FL1 - 600 x 600mm clear opening

SUMMARY OF RESULTS

The test samples met the requirements of clause 8 of BS EN124:1994, or parts thereof, against which assessments were made.

BS EN124:1994EXAMINATION AND TEST

<u>Clause No</u>	<u>Assessment</u>
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Component Description: Manhole top, Type FL428. Testing8.3.1 Measurement of permanent set of the cover or grating after the application of 2/3 of the test load

(Load applied 167 kN)

	<u>Specified</u>	<u>Actual</u>	
Permanent set (mm)	10.7 max	0.762	Pass

8.3.2 Application of the test load

The unit was capable of withstanding a test load of 250 kN without cracking

Pass

Component Description: Manhole top, Type FL368. Testing8.3.1 Measurement of permanent set of the cover or grating after the application of 2/3 of the test load

(Load applied 167 kN)

	<u>Specified</u>	<u>Actual</u>	
Permanent set (mm)	9.0 max	0.457	

8.3.2 Application of the test load

The unit was capable of withstanding a test load of 250 kN without cracking

BS EN124:1994EXAMINATION AND TEST (continued)Clause No AssessmentComponent Description: Manhole top, Type FL38. Testing8.3.1 Measurement of permanent set of the cover or grating after the application of 2/3 of the test load

(Load applied 167 kN)

	<u>Specified</u>	<u>Actual</u>	
Permanent set (mm)	6.0 max	0.508	Pass

8.3.2 Application of the test load

The unit was capable of withstanding a test load of 250 kN without cracking Pass

Component Description: Manhole top, Type FL108. Testing8.3.1 Measurement of permanent set of the cover or grating after the application of 2/3 of the test load

(Load applied 167 kN)

	<u>Specified</u>	<u>Actual</u>	
Permanent set (mm)	7.7 max	0.254	Pass

8.3.2 Application of the test load

The unit was capable of withstanding a test load of 250 kN without cracking Pass

BS EN124:1994EXAMINATION AND TEST (continued)Clause NoAssessmentComponent Description: Manhole top, Type FL58. Testing8.3.1 Measurement of permanent set of the cover or grating after the application of 2/3 of the test load

(Load applied 167 kN)

Specified Actual

Permanent set (mm)

6.0 max 0.381

Pass

8.3.2 Application of the test load

The unit was capable of withstanding a test load of 250 kN without cracking

Pass

Component Description: Manhole top, Type FL1.8. Testing8.3.1 Measurement of permanent set of the cover or grating after the application of 2/3 of the test load

(Load applied 167 kN)

Specified Actual

Permanent set (mm)

6.0 max 0.432

Pass

8.3.2 Application of the test load

The unit was capable of withstanding a test load of 250 kN without cracking

Pass