

# Declaration of Test Results

*BSI hereby declares that the items described  
below have been tested by BSI*

*BS EN 61386-1:2008 Clauses 10.2, 10.3, 10.7 and 14.2*

*The complete detail of the tests performed  
and the results are recorded in  
BSI Test Report Number: 2371/ 8730197 Dated 08 September 2017*

**Description of items tested:**

*20mm Diameter Class 4 GI Conduit and couplers  
25mm Diameter Class 4 GI Conduit and couplers  
32mm Diameter Class 4 GI Conduit and couplers*

**Submitted by:**

*ARDIC Cable Management Systems  
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**Declaration authorised by:**

*Mark Manito*

*Title*

*Team Manager*

*Date*

*12 September 2017*

Attention is drawn to the conditions upon which this declaration is issued, namely:

1. This declaration does not indicate provide or imply any measure of Approval, Certification, Supervision, Control or Surveillance by BSI to this or any related product.

2. This Declaration applied only to the particular sample tested and to the specific tests carried out as detailed in the Report referred to above.

3. The general and specific conditions of the 'BSI Terms of Service' apply in all respects. Copies of this leaflet are available on request.

BSI, Maylands Avenue, Hemel Hempstead, Hertfordshire HP2 4SQ

# Test Report 8730197.


## ARDIC Cable Management Systems

## Introduction.

This report has been prepared by Lucie McGill and relates to the activity detailed below:

Job/Registration Details	Client Details
<b>Job number:</b> 8730197 Job type: Testing Samples Submitted Start Date: 25/08/2017 Test type: Direct Sample ID: 10171154 <b>Registration:</b> NA Protocol: NA Quality system: NA <b>Registration:</b> NA Protocol: NA Quality system: NA	ARDIC Cable Management Systems Gunesli Mahallesi, Gulbahar Cad. Polat IS Merkezi C Blok D:8 Merkezi C Blok D:8, Bagcilar Istanbul 34212 Turkey

The report has been approved for issue by Mark Manito – Team Manager

Approved For Issue	
	Issue Date: 12 September 2017

## Objectives.

Direct test

## Product Scope.

Class 4 GI Conduit

## Report Summary.

The samples were received on 20 July 2017 and the testing was started on 26 August 2017.

The samples submitted complied with the requirements of the test work conducted.

## Test Samples.

Sample Id	ER Number	Description
1	10171154	GI Conduit

## Description of Test Samples.

Sample Description
20mm Diameter Class 4 GI Conduit and couplers
25mm Diameter Class 4 GI Conduit and couplers
32mm Diameter Class 4 GI Conduit and couplers

## Test Requirements.

BS EN 61386-1:2008 + Results Table - Conduit Systems for Cable Management – (Pt 21 Particular Requirements - Rigid Conduit Systems)

Clause	Requirements	
<b>10</b>	<b>Mechanical properties</b>	
<b>10.2</b>	<b>Compression</b>	PASS
<b>10.3</b>	<b>Impact test</b>	PASS
<b>10.7</b>	<b>Tensile test</b>	PASS
<b>14.2</b>	<b>Resistance against corrosion</b>	PASS
<b>Results table</b>	<b>Actual test results</b> <i>See Table A - BS EN 61386-1 2008 +Pt 21 Rigid Conduit</i>	

## Glossary of Terms.

PASS: Complies. Tested by BSI engineers at BSI laboratories.

## Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

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Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation.

Unless otherwise stated, any results not obtained from testing in a BSI laboratory are outside the scope of our UKAS accreditation.

## Table A - BS EN 61386-1 2008 + Pt 21 Rigid Conduit

### Test Results.

#### CLAUSE

#### 10. MECHANICAL PROPERTIES

#### 10.2 Compression test

The Conduits were tested in accordance with the method described in this clause. When a force of 4000N (Very heavy grade) was applied, the samples did not exceed 25% of the initial outside diameter

Test item	Sample	Compression (%)
20mm conduit	1	2.93
	2	3.14
	3	2.89
	Mean	2.99
25mm conduit	1	2.53
	2	2.30
	3	2.56
	Mean	2.46
32mm conduit	1	2.59
	2	2.42
	3	2.32
	Mean	2.44

The Force and the intermediate piece were then removed and, 60s after removal, the outside diameter of the samples, where they have flattened, were measured again. The difference between the initial diameter and the diameter of the flattened samples did not exceed 10% of the outside diameter, measured before test

Test item	Sample	Change in diameter (%)
20mm conduit	1	0.64
	2	0.68
	3	0.41
	Mean	0.58
25mm conduit	1	0.49
	2	0.36
	3	0.47
	Mean	0.44
32mm conduit	1	0.44
	2	0.26
	3	0.37
	Mean	0.36

## Test Results (Continued).

### CLAUSE

#### 10. MECHANICAL PROPERTIES (CONTINUED)

##### 10.3 Impact test

The Conduits were tested at -45°C in accordance with the method described in this clause. After the test, the samples showed no cracks visible to normal or corrected vision without magnification. It was possible to pass the appropriate gauges through the samples

Test item	Mass Used (kg)	Drop height (mm)	No. out of failures 12
20mm conduit	6.8	300 (Very heavy grade)	0
25mm conduit	6.8	300 (Very heavy grade)	0
32mm conduit	6.8	300 (Very heavy grade)	0

##### 10.7 Tensile test

The conduits and couplers were tested in accordance with the method described in this clause. When a tensile force of 2500N (Very heavy grade) was applied for 2 mins the conduit remained properly assembled to the couplers and there was no damage visible to normal or corrected vision without magnification

Test item	Actual Force Held (N)
20mm conduit/coupler	>2500
25mm conduit/coupler	>2500
32mm conduit/coupler	>2500

#### 14.2 Resistance against corrosion

##### 14.2.2 Tests for resistance to corrosion for steel conduit systems

The conduits were tested in accordance with the method described in clause 14.2.2.3 for high protection.

The 20mm and 25mm diameter conduits did not display any signs of corrosion

\*\*\* End of Report \*\*\*