




Client Ref. : --
Report No. : 195909PC190345

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REPORT ON TESTING OF DUCTILE IRON CONNECTOR

Information Supplied by Client

Client : Wah Hung Fire Prevention Equipment Co., Limited
Client Address : G/F, No.75, Bedford Road, Tai Kok Tsui, Kowloon, Hong Kong
Sample Description : Ductile iron tank connector (puddle flange) with screw ends, pressure rating PN16
Item No. : WH026B
Brand : WAH HUNG
Body Markings :  DI DN50X600 PN16 BS143 & 1256
Country of Origin : China
Model : DI-5024A
Manufacturer : Wah Nan Fire Fighting Equipment Co., Ltd

Laboratory Information

Lab. Sample I.D. : PC190345/1
Date Received : 11 November 2019
Date Test Started : 15 November 2019
Date Test Completed : 06 December 2019
Test Method : BS EN 12266-1 : 2012, BS EN 1563 : 2011, BS EN 545 : 2010 and BS143&1256 : 2000

Test Results

1. Dimensions

BS 143 & 1256 : 2000 (Base on Manufacturer Requirement)

Lab. Sample I.D.	Nominal Size (DN)	Length (mm)	BS 143 & 1256 : 2000 Requirement (DN)
PC190345/1	50 mm	610	50 mm

The threads of DI pipe comply with BS 21

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2. Leak Tightness

BS EN 12266-1 : 2012

Lab Sample I.D.	Test (shell)				
	Nominal Pressure PN (bar)	Test Pressure (bar)	Duration (min.)	Observation	Results
PC190345/1	16	24	10	No leakage	Pass
BS EN 12266-1 : 2012 Clause A.4.3 Requirement	16	16x1.5=24	10	No leakage during the test period	

3. Coating Thickness

BS EN 545 : 2010 Clause 4.6

Lab Sample I.D.	Average Coating Thickness (μm)	BS EN 545 : 2010 Requirement (μm)	Results
PC190345/1	118	min. 70	Pass

4. Tensile Test

BS EN 1563 : 2011

Min. Diameter of Specimen (mm)	Effective Cross Sectional Area (mm ²)	Tensile Load (kN)	Tensile Stress (N/mm ²)	Gauge Length (mm)	Final Gauge Length (mm)	Elongation (%)	Failure Mode	BS EN Requirement
20.16	319.206	165.6	519	30	33.48	12	Break at Shank	Tensile Strength min. 445N/mm ² Elongation min.10%
19.98	313.531	166.5	531	30	33.21	11	Break at Shank	
19.86	309.776	163.9	529	30	33.51	12	Break at Shank	

Remarks : Sample test satisfy the tensile strength requirement of BS EN 1563 : 2011 material designation EN-GJS-450-10

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5. Summary of Results (apply only to sample tested)

Dimensions	-- Pass
Leak Tightness	-- Pass
Coating Thickness	-- Pass
Tensile Test	-- Pass (EN-GJS-450-10 of BS EN 1563 : 2011)

Remark : 1.) An epoxy coating was visible on the visual internal water contact surface of the sample.
2.) The test sample is shown in the photograph on page 4 of this report.

Checked by :  Date : 11 FEB 2020 Certified by :  Date : 11 FEB 2020
Ng Shu Shing Chris
Assistant Manager (Plumping Components)

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Test Sample
Sample I.D.: PC190345/1



Body Marking
Sample I.D.: PC190345/1



Body Marking
Sample I.D.: PC190345/1

****End of Report****