

## 佳力高試驗中心有限公司

### CASTCO TESTING CENTRE LTD.



香港新界粉嶺安樂村安全街29A號 29A, On Chuen Street, On Lok Tsuen, Fanling, N.T., Hong Kong. Tel: 2677 2032, 2677 2138 Fax: 2677 0351 E-mail: castco@netvigator.com Website: www.castco.com.hk

### **Test Certificate**

### Determination of dimensions of cast iron discharge and ventilating pipes and fittings, sand-cast or spun in cast iron

(BS 416: Part 1: 1990 Clause 4.1 and 4.2)

Date of issue: 29-12-2005 Page 1A of 1 page(s)

Castco LRN: DP251122-0552 DIM

Details as supplied by client

Sample Submitted by: Asia Development (HK) Ltd.

Client: Cheung Hing Foundry Limited

Client's ref. no.: --

Contract no.: --

Job title: --

Description of pipe:

Nominal internal bore (DN): 50 mm

Brand: CHF

Length: 1830 mm

Type: Cast Iron Pipe

Socket type: A

Manufacturer: Cheung Hing Foundry Limited

Laboratory test result

Date sample received: 22-11-2005

Date of test: 24-11-2005

**Dimensions Check** 

Specimen no.: DP251122-0552

Nominal internal bore (DN): 50 mm

		BS requirement from table 1 (mm)	Measured mean value (mm)	
Pipe	Internal diameter (min.)	48	51	
	Outside diameter (max.)	63	60	
	Thickness (nominal)	5	4.94	
Socket	Internal diameter (min.)	73	75	
	Outside diameter (max.)	89	85	
	Thickness (nominal)	6.5	8	
	Internal depth (nominal)	64	66	
	Outside diameter over beads (min.)	100	102	
Total length (pipe)		1830	1832	
Total length (fitting)				
Angles (fitting)				

Legend:

\* - The figure fails to comply with BS416: Part 1: 1990 Clause 4.1 / 4.2.

N/A - Not applicable.

Remarks:

1. Test result relates only to the specimen tested.

- 2. Test result complies with the requirement of BS416: Part 1: 1990 Clause 4.1 for dimensions.
- 3. This report supersedes previous test certificate of Castco LRN:DP251122-0552 DIM.

Checked by:	V

W.K. LEUNG

Certified by:

Form No. PIPE DIM416\_T1 dd 16/01/2004

PETER K. F. CHOI sc., C. Eng., MICE, MHKIE gistered Professional Engineer

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HONG) has a constant and the Hong Kong Laboratory (HON activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation. This report shall not be reproduced unless with prior written approval from this laboratory.



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### **Test Certificate**

# Determination of dimensions of cast iron discharge and ventilating pipes and fittings, sand-cast or spun in cast iron (BS 416 : Part 1 : 1990 Clause 4.1 and 4.2)

Date of issue : 29-12-2005

Page 1A of 1 page(s)

Details as supplied by client

Castco LRN: DP251122-0553 DIM

Sample Submitted by: Asia Development (HK) Ltd.

Client: Cheung Hing Foundry Limited

Client's ref. no.: --

Contract no.: --

Job title: --

Description of pipe:

Nominal internal bore (DN): 75 mm

Brand: CHF

Length: 1830 mm

Type: Cast Iron Pipe

Socket type: A

Manufacturer: Cheung Hing Foundry Limited

Laboratory test result

Date sample received: 22-11-2005

Date of test: 24-11-2005

**Dimensions Check** 

Specimen no.: DP251122-0553

Nominal internal bore (DN): 75 mm

		BS requirement from table 1 (mm)	Measured mean value (mm)
	Internal diameter (min.)	74	76
Pipe	Outside diameter (max.)	89	87
	Thickness (nominal)	5	4.9
Socket	Internal diameter (min.)	100	101
	Outside diameter (max.)	116	105
	Thickness (nominal)	6.5	6
	Internal depth (nominal)	70	70
	Outside diameter over beads (min.)	129	129
Γotal length (pipe)		1830	1823
Total length (fitting)			
Angles (fitting)			

Legend:

\* - The figure fails to comply with BS416: Part 1: 1990 Clause 4.1 / 4.2.

N/A - Not applicable.

Remarks:

1. Test result relates only to the specimen tested.

- 2. Test result complies with the requirement of BS416: Part 1: 1990 Clause 4.1 for dimensions.
- 3. This report supersedes previous test certificate of Castco LRN:DP251122-0553 DIM.

Checked by :	W.K. LEUNG	Certified by :	
Form No. PIPE DIM416_T1 dd 16/01/2004			PETER K. F. CHOI B.S., C. Eng., MICE, MHKIE Registered Professional Engineer

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香港粉嶺安居街33號 香港粉嶺安全街29A號 33, On Kui Street, Fanling, Hong Kong. 29A, On Chuen Street, Fanling, Hong Kong.

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E-mail: castco@netvigator.com Website: www.castco.com.hk





### **Test Certificate**

Determination of dimensions of cast iron discharge and ventilating pipes and fittings, sand-cast or spun in cast iron (BS 416: Part 1: 1990 Clause 4.1 and 4.2)

Date of issue: 03 January 2015

Page 1 of 1 Page

Castco LRN: DP0141106-057 DIM

Details as supplied by client

Client: Cheung Hing Foundry (HK) Limited

Client's ref. no.: --

Contract no.: --

Job title: --

Description of pipe:

Nominal internal bore (DN): 100 mm

Socket type: A

Length: 1830

Type: Cast Iron Pipe

Brand : CHF

Manufacturer: Liuzhou Lizhi Casting Co., Ltd.

Laboratory test result

Date sample received: 06 November 2014

Date of test: 26 November 2014

**Dimensions Check** 

Specimen no.: DP0141106-057

Nominal internal bore (DN): 100 mm

		BS requirement from table 1 (mm)	Measured mean value (mm)
	Internal diameter (min.)	99	101
Pipe	Outside diameter (max.)	114	113
	Thickness (nominal)	5(+0,-1.5)	4.9
Socket	Internal diameter (min.)	127	127
	Outside diameter (max.)	143	142
	Thickness (nominal)	6.5 (+0 )	6
	Internal depth (nominal)	76	76
	Outside diameter over beads (min.)	157	158
Total length (pipe)		1830 (±20)	1835
Total length (fitting)			
Angles (fitting)			

Legend:

\* - The figure fails to comply with BS416: Part 1: 1990 Clause 4.1 / 4.2.

N/A - Not applicable.

Remarks:

- 1. Test result relates only to the specimen tested.
- 2. Compliance of the test results to the specification is an opinion of the laboratory and is not covered under the HOKLAS accreditation.
- 3. Test result complies with the requirement of BS416: Part 1: 1990 Clause 4.1 for dimensions.
- 4. Sample Submitted by: Asia Development (HK) Limited.

Checked by :	6	FU HO MAN Assistant Technical Officer	Approved Signatory :	< kn. wn	
Form No. PIPE DIM416_T1 dd 01/09/2006	/11	Item no. DP/0501		WONG KA MAN Laboratory Manager	



香港粉嶺安居街33號

## 佳力高試驗中心有限公司 CASTCO TESTING CENTRE LTD.

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### **Test Certificate**

Determination of dimensions of cast iron discharge and ventilating pipes and fittings, sand-cast or spun in cast iron

(BS 416: Part 1: 1990 Clause 4.1 and 4.2)

Date of issue: 13 February 2015

Page 1 of 1 Page

Castco LRN: DP0141229-190 DIM

Details as supplied by client

Client: Cheung Hing Foundry (HK) Limited

Client's ref. no.: --

Contract no.: --

Job title: --

Description of pipe:

Nominal internal bore (DN): 150 mm

Socket type: A

Length: 1830

Type: Cast Iron Pipe

Brand : CHF

Manufacturer: Liuzhou Lizhi Casting Co., Ltd.

Laboratory test result

Date sample received: 29 December 2014

Date of test: 19 January 2015

**Dimensions Check** 

Specimen no.: 1

Nominal internal bore (DN): 150 mm

		BS requirement from table 1 (mm)	Measured mean value (mm)
	Internal diameter (min.)	150	154
Pipe	Outside diameter (max.)	165	164
	Thickness (nominal)	5 (+0 1.5 )	4.9
Socket	Internal diameter (min.)	181	181
	Outside diameter (max.)	197	196
	Thickness (nominal)	$6.5 \left( {{}^{+0}_{1.5}} \right)$	6
	Internal depth (nominal)	89	90
	Outside diameter over beads (min.)	213	213
Total length (pipe)		1830 (±20)	1839
Total length (fitting)			
Angles (fitting)			

Legend:

\* - The figure fails to comply with BS416: Part 1: 1990 Clause 4.1 / 4.2.

N/A - Not applicable.

Remarks:

- 1. Test result relates only to the specimen tested.
- 2. Compliance of the test results to the specification is an opinion of the laboratory and is not covered under the HOKLAS accreditation.
- 3. Test result complies with the requirement of BS416: Part 1: 1990 Clause 4.1 for dimensions.
- 4. Sample Submitted by: Asia Development (HK) Limited.

Checked by:

SIT KWAN NING

Approved Signatory:

WONG KA MAN Laboratory Manager

Laboratory Supervisor

**End of Report** 

Form No. PIPE DIM416\_T1 dd 01/09/2006

HKAS has accredited this laboratory (Reg. No. 032 - TEST) under HOKLAS for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report shall not be reproduced unless with prior written approval from this laboratory. This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communique dated January 2009)