550X550X125 Double Triangle-(5 ton)

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

香港粉嶺安居街33號 香港粉嶺安全街29A號

31, O Kui Steet Fanling, Hong Kong. 29A, On Churn Street, Fanling, Hong Kong. 育港粉領女王国 270 w.o.stco.com.hk E-mail: castco@netvigator.com w.obsite: . w.c. stco.com.hk Test Certificate

Tel: 2677 2138

Fax: 2677 035 1



Mass Determination and Loading Test to Cast Iron Drainage Goods (Tested to G.S. for C.F. Works: 1992: Cl. 5.94(2) and Appendix 5.3)

Date of issue: 20-10-2006

Page of page Castco L. b. Ref. No., DP260925-0627 MISCEL

Details as supplied by the client

Client: Cheung Hing Foundry Lu1

Client's Ret. No.: --

Contract No.:

Sample Description, 550 Clear Opening x 125 Height Cast Iron Pouble Friangle Man'hole Cover & Frame

Grade: medium duty

Laboratory Test Result

Date received: 25-09-2006

Patr tested: 30-09-2006

Dia. of bearing block: 100 mm

A		1 1	12			Loading Test	
			G ade	Measured	(Test le	30 sec)	
7	Specimen	Specimen	claimed	n'ass	Test	Loadn g	
	No.	Description	by chient	(kg)	load	test result	Observation
					(kN)	(passed/fai'ed)	
	DP260925-	550 Clear Opening x 125	Mec'iu i	-	49.1	Passed	N/V
	0627	Height Cast Iron Double	du'y	!)	(5 tonnes)		
		Triangle Manhole Cover & Frame					
		France					
		~//			(0)	\wedge	

Legend:

FC - Fracture at cover.

F - Fracture at frame.

No visible fracture.

Remarks:

- 1. Test result relates only to the specimen tested.
- 2. Compliance criterion as specified in Clause 5.95: Manhole covers and grany traings shall withstand the test load without fracture or cracking.

Item no. DP/04.

Checked by

No. STL M ANHO LE GS T1 dd 15/07/2003

Certifies, by

KEITH CHOI C.Eng., MHKIE MICE Laboratory Engineer

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory 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.

550X550X150 Double Triangle-(30 ton)

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

香港粉嶺安居街33號 香港粉嶺安全街29A號

35, On Kui Sireet Fanling, Hong Kong. 29A, On Churn St eet, Fanling, Hong Kong. E-mail: castco@netvigator.com v/ebsite. vvw.c .stco.com.hk
Test Certificate

Tel: 2677 2138 Fax: 2677 0351

Mass Determination and Loading Test to Cast Iron Dramage Goods (Tested to G.S. for C.F. Works: 1992: Cl. 5.94(2) and Appendix 5.3)

Date of issue: 13-06-2006

Page 1 of

Castro Lab. Ref. No.:DP260607-0294 MISCEL

Details as supplied by the client

Manufacturer: Cheung Hing Foundry Limited

Client: Cheung Hing Found y Limite.'

Client's Ref. No.: --

Contract No.:

Job Title: --

Sample Description. 550 mi. x 550 mm Clear Opening x 150 Hright Cast Iron Louble Triangle Manhole Cover and Frame

Grade: heavy duty

Brand name:

CHF

Laboratory Test Result

Date r :ceived: 07-06-2006

Data tested: 07-06-2006

Dia. of bearing block: 300

					Loading Test	
		Crade	Measured	(Trust loa	a maintainea for _	30 sec)
Specimen	Specimen	claimed	mass	Test	Loading	Y
No.	Description	by client	(kg)	load	test rest lt	Observation
		$\Omega L \Delta$		(17N)	(passed failed)	
DP260607-	550 mm x 550 mm Clear	F'eavy		294 3	Passed	N/V
0294	Opening x 150 Height Cast Iron					
	Double Triangle Manhole Cover					
	and Frame					
	14/0	7				
		~		Ω / Λ		

Legend:

FC - Fracture at cover.

FF - Fracture at frame

No visible fracture.

Remarks:

- 1. Test result relates only to the specimen tested.
- 2. Compliance criterion as specified in Clause 5.95: Manhole covers and gully graings shall withstand the test load without fracture or cracking.

Checked by

W. K. Leung

Certified by:

C. SIN B.Sc., C.Eng., MICE, MHKIE

Technical Manager

Hong Kong Ac reditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory 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.

750X900X165 Double Triangle-(30 ton)

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

香港粉嶺安全街29A號 E-mail: castco@netvigator.com

3', O' Kui S' eet Fanling, Hong Kong. 29A, On Churn Street, Fanling, Hong Kong.

Mebsite. w. vw.c.astco.com.hk

Tel: 2677 2138 Fax: 2677 0351





Test Certificate

Mass Determination and Loading Test to Cast Iron Drainage Coods (Tested to G.S. for CE, Works: 2006: Cl. 5.95(2) and Appendix 5.3)

Date of issue: 05 January 2016 Page 1 of 1 page(s)

Castco I RN: DP0151202-005 MISCEL

Contract No.:

Details as supplied by the sustomer

Customer: Cheung Hing Foundry (HK) Limited

Customer's Ref. No.: --

Address: 2 19 Pak Sha Tsue I, Kung Um Poad, Yuen Long, NT, HK

Title: --

Sample Description. 750m. x 900mm Clear Opening x 165mm Leight Cast Iron Double Triangle Manhole Cover & Frame

Grade: Heavy Duty

Laboratory Test Result

Date r ceived: 02 December 2015

Date tested: 08 December 2015

Dia. of bearing block: 300 mm

V		(4	7			Loading Test	V
		7.1	Grade	Measured	(Test load	maintained for	<u>30</u> sec)
1	Spesiman	Specimen	claimed	mass	Test	Yoading	
	No.	Description	by customer	(kg)	load	test result	Observation
			7		((N)	(passed/failed)	
	DP0151202-005	750mm x 900mm Clear Cpening x 165m n Height Cast Iron Double 7 riar gle Man tole Cover & Frame	neavy Duty	Cover: 304.2 Frame: 166.0	294.3 (30 Tonnes)	Passed	N/V

Legend:

FC - Fracture at cover.

FF - Fracture at frame.

No visible fracture.

Remarks:-

- 1. Test result relates only to the specimen tested.
- 2. Compliance criterian is specified in Clause 5.96: Manhole covers and sully gratings shall withstand the test load without fracture or cracking.
- 3. Compliance of the test results to the specification is an epinion of the laboratory and is not covered under the HOKLAs accorditation.
- 4. Test results of the camp'e comply with the requirement of C.S. for C.E. Works: 2006: Cl. 5.95(2) and Appendix 5.3.
- 5. Sample 3ut mitted by: As a Development (HK) Limited

6. Manufacturer Cheung Hing Foundry (HK) Limited

Chicked by:

SIT KWAN NING

Approved Signatory:

Laboratory Supervisor For. No. PIP M NHOLE_GS_T2 dd 08/10/2010

End of Report

WONG KA MAN Laboratory Manager

HKAS has accrecited this a poratory (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 pricy written approval from this laboratory. This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. This accreditation demonstrate such chinical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communique dated January 2009)