

S. S. Step Iron (Twist Test-1)

CASTCO

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

Test Report

Steps for Underground Man Entry Chambers - Twist Test
(BS EN 13101 : 2002 Clause 4.3.6 Annex A)

Date of issue : 31 August 2020

Page 1 of 2 page(s)

Castco LBN : NW0200810-001

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : - -

Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong

Contract no. : - -

Job title : - -

Sample description : Stainless Steel (SS316) Manhole Step Iron

Manufacturer : Cheung Hing Foundry (HK) Limited

Brand name : CHF

Origin : China

Sample submitted by : Asia Development (HK) Limited

Laboratory test results

Date of sample received : 10 August 2020

Date of test : 14 August 2020

Specimen no.	1
Maximum difference of height of front edge of the thread from surface (mm)	0.97
Requirement	The height of the front edge of the tread from the level surface shall not vary along its length by more than 3.0 mm

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 13101 : 2002 Clause 4.3.6 (effect of measurement uncertainty has not been taken into account).

Checked by : _____

FU LO MAN
Assistant Technical Manager

Certified by : _____

WONG KA MAN
Senior Manager

S. S. Step Iron (Twist Test-2)

CASTCO

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

Test Report

Steps for Underground Man Entry Chambers - Twist Test
(BS EN 13101 : 2002 Clause 4.3.6 Annex A)

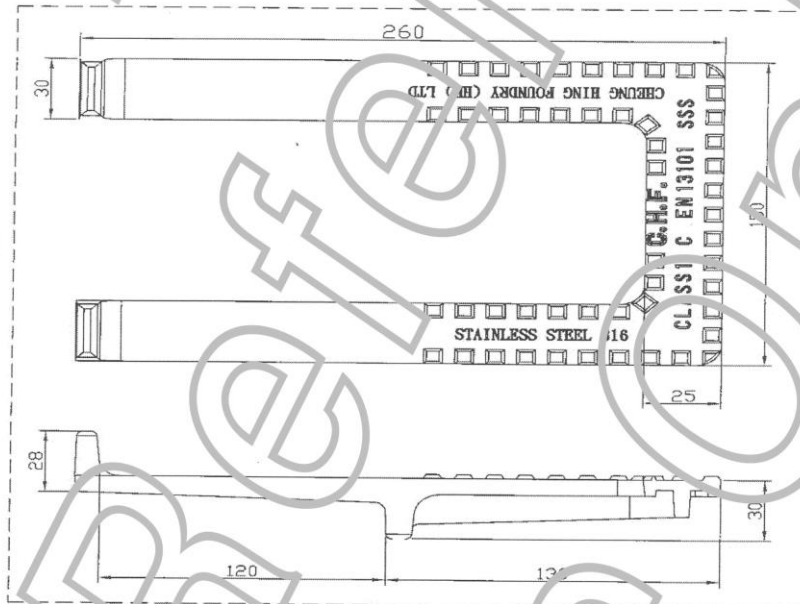
Date of issue : 31 August 2020

Page 2 of 2 page(s)

Castco LRN : NW0200810-001

Appendix A

祥興鑄造有限公司 CHEUNG HING FOUNDRY (HK) LTD	繪圖員: Hui	核圖員: Chui	日期: 31-07-2020
香港 元朗 公庵路 沙村 299號 299 Pak sha Tsuen Kung Ua Road Yuen Long, H.K.	比例: NIL	圖號:	頁碼: 1/1
TEL: (852) 2447-1262 FAX: (852) 2447-0198	產品要求:	重量要求: KG	尺寸: (mm) 公差: ± 0.5
產品名稱: Stainless Steel Manhole Step		產品重量:	



此圖貼於腳踏證書上

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End of Report

Form no.: NW_STP_TW-ST_BSEN13101-2002_T_dd_13/05/2020

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香港粉嶺安全街29A號 • 29A, On Chuen Street, Fanling, Hong Kong.
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S. S. Step Iron (Pull-out Test)

CASTCO**佳力高試驗中心有限公司
CASTCO TESTING CENTRE LIMITED**

Test Report
Steps for Underground Man Entry Chambers - Resistance to Pull-out
(BS EN 13101 : 2002 Annex D)

Date of issue : 31 August 2020

Page 1 of 1 page(s)

Castco I RN : NW0200810-003

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited
Address : 299 Pak Shui Tsuen, Kung Um Road, Yuen Long, Hong Kong
Job title : - -

Customer's ref. no. : - -
Contract no. : - -

Sample description : Stainless Steel (SS316) Manhole Step Iron
Manufacturer : Cheung Hing Foundry (HK) Limited
Brand name : CHF
Origin : China
Sample submitted by : Asia Development (HK) Limited

Laboratory test results

Date of sample received : 10 August 2020

Date of test : 15 to 29 August 2020

Specimen no.	2
Nominal dimensions of concrete block (mm)	100 x 200 x 250
Date of concrete block casted	15/08/2020
Age of concrete block at test (days)	14
Apply the load of 5 kN and sustain for 1 minute	Step resisted the load
Requirement	Step shall resist a force of 5kN

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 13101 : 2002 Clause 4.3.9 (effect of measurement uncertainty has not been taken into account).

Checked by : _____

FU HO MAN
Assistant Technical Manager

Certified by : _____

WONG KA MAN
Senior Manager

End of Report

Form no. : NW_STEP_PULL-OUT, BSEN13101:2002, T. dd 13/05/2020

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S. S. Step Iron (Loading Test)

CASTCO**佳力高試驗中心有限公司
CASTCO TESTING CENTRE LIMITED**

Test Report
Steps for Underground Man Entry Chambers - Vertical Loading Test
(BS EN 13101 : 2002 Annex B)

Date of issue : 31 August 2020

Page 1 of 1 page(s)

Castco LBN : NW0200810-002

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : - -

Address : 299 Pak Shui Tsuen, Kung Um Road, Yuen Long, Hong Kong

Contract no. : - -

Job title : - -

Sample description : Stainless Steel (SS316) Manhole Step Iron

Manufacturer : Cheung Hing Foundry (HK) Limited

Brand name : CHF

Origin : China

Sample submitted by : Asia Development (HK) Limited

Laboratory test results

Date of sample received : 10 August 2020

Date of test : 15 August 2020

Specimen no.		1
Initial load	Apply load (kN)	Deflection (mm)
	0.5	0.47
	1.0	0.92
	1.5	1.33
	2.0	1.87
	Hold for 1 minute & remove load	Permanent deflection (mm) :
	Present of cracking	No
Ultimate load	Apply load (kN)	
	4.0	
	Hold for 1 minute & remove load	Permanent deflection (mm) :
	Present of cracking	No

Compliance :-

- Step shall support of both initial and ultimate load without visible cracking and the deflection under load shall not exceed 5mm.
- After removal of the load, the permanent deflection shall not exceed 1mm of Initial load and 5mm of Ultimate load.

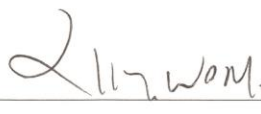
Remark(s) :

- Test results relate only to the specimen tested.
- Test results of sample comply with the requirement of BS EN 13101 : 2002 Clause 4.3.7 (effect of measurement uncertainty has not been taken into account).

Checked by :


FU HO MAN
Assistant Technical Manager

Certified by :


WONG KA MAN
Senior Manager

End of Report

Form no. : NW-STEP-VERTICAL LOAD, BS EN 13101:2002 T, dd. 13/05/2020

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