# 详與鑄鐵有限公司 CHEUNG HING FOUNDRY (HK) LIMITED







# Cast Iron Rainwater Two-way Side Outlets - Alu series

with Stainless Steel / Cast Iron Elbow Grating or Stainless Steel / Cast Iron Slant Grating

For Aboveground Surface, Rooftop and Other Areas

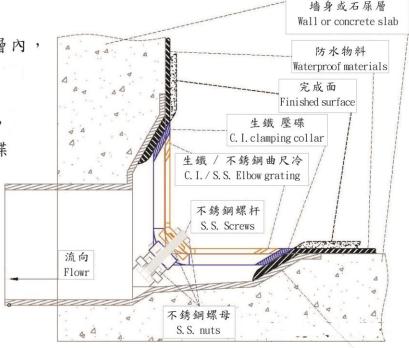
# 安裝指南 Installation Guide

# ALU-雙向水斗(斗身)安裝指南

# 程序:

1) 斗身依設計已藏於墻身或石屎層內,

- 防水物料舖於斗身內週邊與 地板層或墻身上,
- 3)生鐵壓碟則壓在防水物料之上, 及用不銹鋼螺杆及絲母栓緊壓碟 作保護防水物料之用,
- 基礎可視乎完成面厚薄而可作出調整,
- 5)蓋上生鐵 / 不銹鋼拱冷或 曲尺冷後用不銹鋼螺母栓緊,
- 6)拱冷及曲尺冷,需要時可互換 (只供參考)



# ALU-Two-way outlet body (body) Installation Guide

## Procedures:

- 1) Embed the body into the wall and concrete slab.
- 2) Apply waterproofing materials around the circumference of the outlet body and the surrounding concrete.
- 3) Place the clamping collar on top of the waterproofing materials and to tighten the S.S. set of screws and nuts to join with the outlet body.
- 4) The clearance between the clamping collar and Concrete level can be adjusted by means of the set of S.S. screws and nuts to accommodate different choice of floor finishing materials such as tiles, etc.
- 5) Place the C.I.or S.S. Elbow and Stant Grating in position with the collar and fasten the S.S. nuts to complete the installation.
- 6) The C.I.or S.S. Elbow and Stant Grating are interchangeable to suit on site drainage requirement. (For reference)

Alu-Two way outlet body 墙身或石屎層 Wall or concrete slab 防水物料 Waterproof materials 生鐵 壓碟 完成面 C. I. clamping collar Finished surface 生鐵 / 不銹鋼拱冷 C. I. / S. S. Slant grating 不銹鋼螺杆 S. S. Screws 不銹鋼螺母 S. S. nuts 流向 Flowr

Alu-雙向水斗(斗身)



# 祥興鑄鐵有限公司 CHEUNG HING FOUNDRY (HK) LIMITED

# **Cast Iron Rainwater Two-way Side Outlets - Alu series**

with Stainless Steel / Cast Iron Elbow Grating or Stainless Steel / Cast Iron Slant Grating
For Aboveground Surface, Rooftop and Other Areas



香港外觀設計專利號碼:0010312.3及0010313.5

中華人民共和國外觀設計專利號碼: ZL00303076.8 及 ZL00303075.X

## **TECHNICAL SPECIFICATIONS**

# A. MATERIALS

1.	Outlet Body	Cast Iron
2.	Clamping Collar	Cast Iron
3.	Removable Grating	Stainless Steel 316
	Elbow Type/Slant Type	/
	*Both gratings are interchangeable	Cast Iron
4.	Screws	Stainless Steel 304

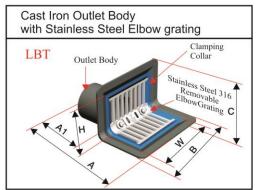
#### **B. PROTECTIVE COATINGS**

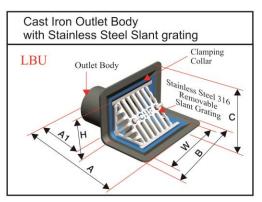
1.	Outlet Body	Primer/Bitumen
2.	Clamping Collar	Primer
3.	Removable Grating	Stainless Steel
	Elbow Type/Slant Type	/
		Primer

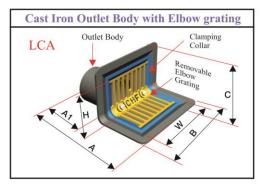
## C. DIMENSIONS (For Reference only)

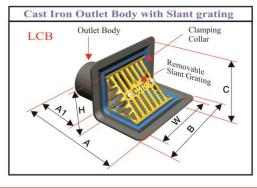
Cast l	ron Outlet Bo	ody with Stair	ıless Steel & Ca	st Iroi	n Grating	(Elbow/S	lant)				
	With Stainless	Cont				S	S. S. / C. I. Grating Elbow / Slant				
Item	Steel Grating Code No.	Cast Iron Code No.	Туре	DN mm	Length A mm	Length A1 mm	Net Tail Length mm	Width B mm	Height C mm	Width W mm	Height H mm
1.	LBT075	LCA075	Elbow grating	75	395	245	210	250	190	158	96
2.	LBT100	LCA100	Elbow grating	100	395	245	210	250	190	158	96
3.	LBT150	LCA150	Elbow grating	150	360	160	125	290	245	197	152
4.	LBU075	LCB075	Slant grating	75	395	245	210	250	190	158	96
5.	LBU100	LCB100	Slant grating	100	395	245	210	250	190	158	96
6.	LBU150	LCB150	Slant grating	150	360	160	125	290	245	197	152

#### D. DRAWINGS











## **TECHNICAL SPECIFICATIONS**

#### E. STANDARDS

Cast Iron comply with BS EN 1561 - EN-GJL-150

#### F. APPLICATIONS

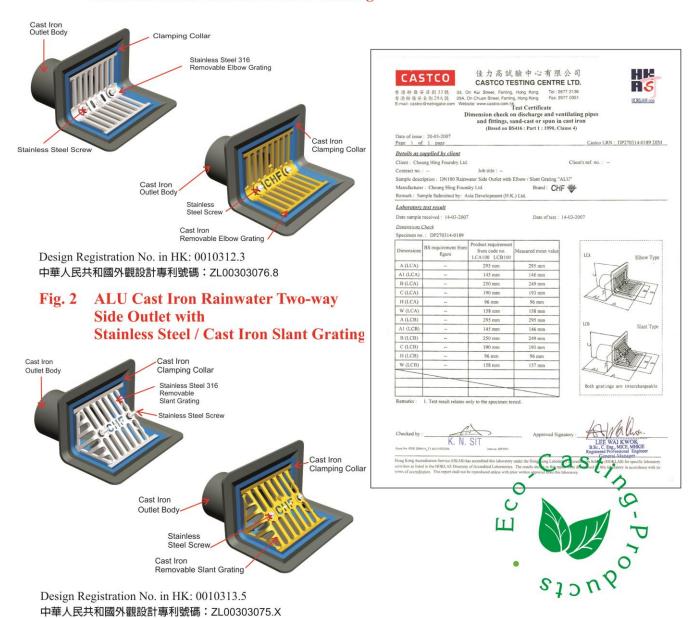
ALU Two-way Side Outlets are designed for applications where an angle is formed at the intersection of vertical and horizontal wall surfaces.

ALU Two-way Side Outlets can be connected to spigot and socket pipework, socketless cast iron pipework and other pipework system with appropriate application and proper installation method.

#### G. DESIGN REGISTRATION

ALU Rainwater Side Outlets have successfully registered their designs in China and Hong Kong

Fig. 1 ALU Cast Iron Rainwater Two-way Side Outlet with Stainless Steel / Cast Iron Elbow Grating





# Cast Iron Rainwater Two- way Side Outlets- Double Seal series

With Cast Iron Elbow Grating / Cast Iron Slant Grating

For Aboveground Surface, Rooftop and Other Areas

# **TECHNICAL SPECIFICATIONS**

# A. MATERIALS ( Stainless Steel Grating - complete of SS 316 Cast Iron - comply of EN 1561:1997/EN-GJL-150

1.	Outlet Body	Cast Iron
	Removable Grating	Cast Iron
2.	Elbow Type/Slant Type	/
	*Both gratings are interchangeable	Stainless Steel
3.	Stainless Steel Screws & Nut	SS 304

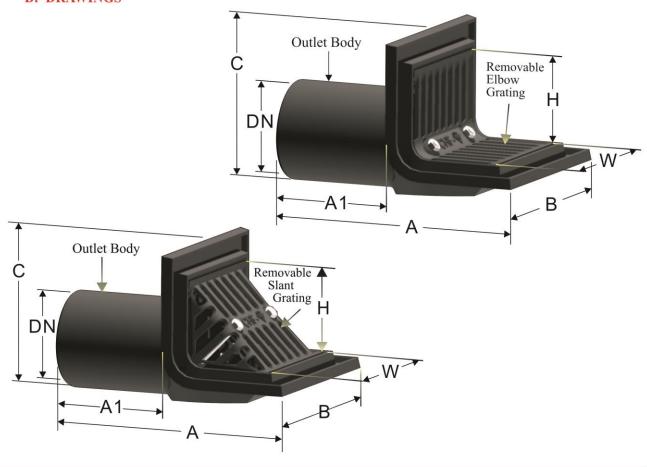
#### **B. PROTECTIVE COATINGS**

1.	Outlet Body	Bitumen
2.	Removable Grating	
	Elbow Type/Slant Type	Bitumen

## C. DIMENSIONS (For Reference only)

Cast l	ron Outlet I	Body with St	ainless Steel &	Cast I	ron Grati	ng (Elbo	w/Slant)					
	With Stainless	Cast									C. I. / S. S. Grating Elbow / Slant	
Item	Steel Grating Code No.	Iron Code No.	Туре	DN	Length A	Length A1	Net Tail Length	Width B	Height C	Width W mm	Height H mm	
1			Elbory quating	mm	mm	mm	mm	mm	mm	1,000,000	1000000000	
1.	LAAT075	LAA075	Elbow grating		300	150	130	222	177	158	96	
2.	LAAT100	LAA100	Elbow grating	100	300	150	130	222	177	158	96	
4.	LABU075	LAB075	Slant grating	75	300	150	130	222	177	158	96	
5.	LABU100	LAB100	Slant grating	100	300	150	130	222	177	158	96	
	5											

#### **D. DRAWINGS**







# Cast Iron Rainwater Two- way Side Outlets- Double Seal series

With Cast Iron Elbow Grating / Cast Iron Slant Grating

For Aboveground Surface, Rooftop and Other Areas



## **HOKLAS Endorsed Test Certificates**



End of Report

3. Test results of the sample comply with the requirement of BS416: Part 1: 1990, Clause 4. Approved Signatory : A W

CASTCO

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

港粉積安度街33號 33, On Kui Street, Fanling, Hong Kong. Tel: 2677 2138 港粉積安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2677 0351

Test Certificate
Dimension check on discharge and ventilating pipes
and fittings, sand-cast or spun in cast iron
(Based on BS416 : Part 1 : 1990, Clause 4)

Date of issue: 22 September 2014 Castco LRN: DP0140915-084 DIM

Page 1 of 1 page Details as supplied by client

Client: Cheung Hing Foundry (HK) Limited Client's ref. no. : -

Sample description: DN100 Rainwater two-way side double seal series outlet with elbow / slant grating

Manufacturer: Cheung Hing Foundry (HK) Limited Brand: CHF -

Remark: Sample Submitted by: Asia Development (HK) Limited

Laboratory test result

Date sample received: 15 September 2014 Date of test: 19 September 2014

Dimensions Check

Specimen no.: DP0140915-084

Dimensions	BS requirement from figure	Product requirement from code no. LAA100 / LAD100	Measured mean value
A		305 mm	304 mm
Al	12	130 mm	130 mm
B1		150 mm	150 mm
B2	100	100 mm	101 mm
D	>99 mm		102 mm
Н		177 mm	173 mm
Т	5(+0) mm		3.70 mm
W1	-	222 mm	223 mm
W2		165 mm	164 mm
bl	977)	150 mm	151 mm
b2		100 mm	100 mm

HK

AS

HOXLAS 032

Test result relates only to the specimen tested.
 Compliance of the test results to the specification is an opinion of the laboratory and is not or HOKLAS accreditation.
 Test results of the sample comply with the requirement of BS416: Part 1: 1990, Clause 4.

Approved Signatory:







# **Cast Iron Rainwater Side Outlets- Double Seal series**

With Cast Iron Elbow Grating / Cast Iron Slant Grating

For Aboveground Surface, Rooftop and Other Areas

# **TECHNICAL SPECIFICATIONS**

# A. MATERIALS

1.	Outlet Body	Cast Iron
2.	Removable Grating Elbow Type/Slant Type *Both gratings are interchangeable	Cast Iron Comply of BS EN1561:1997 / EN-GJL-150
3.	Stainless Steel Screws	S. S. (304)

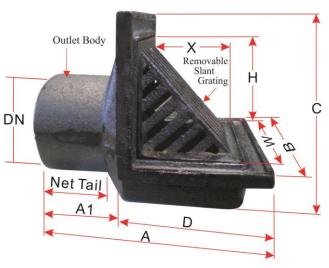
#### **B. PROTECTIVE COATINGS**

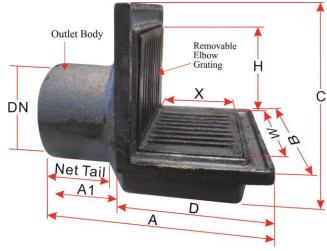
1.	Outlet Body	Bitumen
2.	Removable Grating	
	Elbow Type/Slant Type	Bitumen

## C. DIMENSIONS (For Reference only)

Cast I	ron Outlet	Body with Cas	st Iron	Grating	g (Elbow	/Slant)						
	Cost			Outlet Body Spigot End					C. I. Grating Elbow / Slant			
	Cast Iron	Туре	DN	Length A	Length     Length     Net Tail     Width     Height     Height       A     A1     Length     B     C     D					Width X	Width W	Height H
Item	Code No.		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1.	LAA150	Elbow grating	150	340	140	100/300	290	260	200	145	210	157
						×						
4.	LAB150	Slant grating	150	340	140	100/300	290	260	200	145	210	157
						8						

#### D. DRAWINGS





**All Cast Iron** 





# **Cast Iron Rainwater Side Outlets- Double Seal series**

With Cast Iron Elbow Grating / Cast Iron Slant Grating

For Aboveground Surface, Rooftop and Other Areas



# **HOKLAS Endorsed Test Certificates**



香港粉嶺安全街29A號

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

33, On Kui Street, Fanling, Hong Kong. Tel: 2677 2138 Fax: 2677 0351

29A, On Chuen Street, Fanling, Hong Kong. E-mail: castco@netvigator.com Website: www.castco.com.hk

**Test Report** 

Dimension check on discharge and ventilating pipes and fittings, sand-cast or spun in cast iron

(Based on BS416: Part 1: 1990, Clause 4)

Date of issue: 01 September 2016

Page 1 of 1 page(s)

Castco LRN: DP0160823-106 DIM

Details as supplied by customer

Customer: Cheung Hing Foundry (HK) Limited

Customer's ref. no. : --

Address: P.O. Box 1323, Yuen Long Delivery Office, Yuen Long

Contract no.: --

Job title: --Sample description: DN150 Rainwater Double Seal Series Outlet with Elbow / Slant Grating

Manufacturer: Cheung Hing Foundry (HK) Limited

Brand : CHF

Remark: Sample submitted by: Asia Development (HK) Limited

Sample marking: BS416 150 CHF

Laboratory test result

Date sample received: 23 August 2016

Date of test: 31 August 2016

Dimensions Check

Specimen no.: DP0160823-106

Dimensions	BS requirement from figure	Product requirement from code no. LAA150 / LAB150	Measured mean value	
Α		340 mm	336 mm	
A1		100 mm	105 mm	
В		290 mm	290 mm	
С		260 mm	260 mm	
D	**	200 mm	200 mm	
T	5 (+0.0 / -1.5) mm	5 mm	4.75 mm	
X		140 mm	140 mm	
W		210 mm	212 mm	
Н		155 mm	153 mm	
DN	≥150 mm	150 mm	150 mm	

Elbow Slant

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 results of the sample comply with the requirement of BS416: Part 1: 1990, Clause 4.

Checked by:

SIT KWAN NING

Approved Signatory **End of Report** 

Form No. PIPE DIM416\_T3 dd 20/08/2015 Laboratory Supervis

WONG KA MAN

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 reproduced unless with prior written approval from this laboratory. This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 178 accreditation demonstrates technical competence for a defined scope and the operation of a laboratory output propagating standard isolation.

CHEUNG HING FOUNDRY (HK) LIMITED Address: 299, Pak Sha Tsuen,

Kung Um Road, Yuen Long, Hong Kong Tel: (852) 2447-1262 Fax: (852)2447-0198 祥興鑄鐵有限公司

地址:香港 元朗公庵路白沙村 299 號 Email: chf@chfhk.com http://www.chfhk.com