

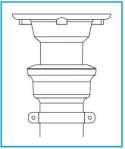


Rainwater Outlet / Floor Drain - CHAMELEON Series

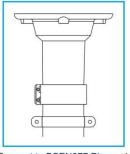




Connect to BS416 Pipework



Connect to BS437 Pipework



Connect to BSEN877 Pipework



Finished Flooring

Cement Mortar

Waterproof Membrane

Asphalt with Reflective Paint

Reinforced Concrete Slab

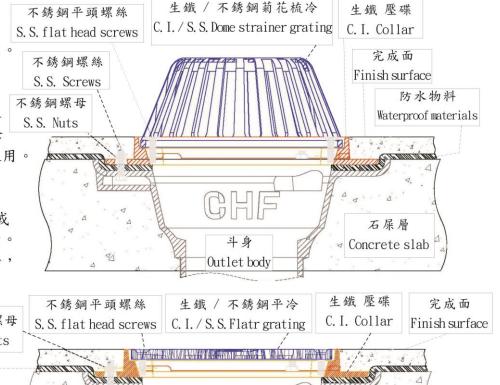


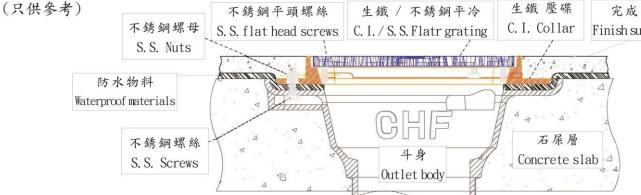


安裝指南 Installation Guide

多功能斗(斗身)-安裝指南 程序:

- 1) 斗身依設計已藏於石屎層內。
- 防水物料舖於斗身內週邊與地板層上。
- 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。
- 4)壓碟可視乎完成面物料 厚薄而可作出調整。
- 5)蓋上生鐵 / 不銹鋼菊花冷或 平冷用不銹鋼平頭螺絲栓緊。
- 6)生鐵或不銹鋼菊花冷及平冷, 應要求時可互換。





<u>Chameleon - Rainwater Outlet/Floor Drain Installation Guide</u>

Procedures:

- 1) Embed the outlet body into the concrete slab.
- 2) Apply waterproofing materials around the circumference of the outlet body and the surrounding concrete.
- 3) Place the collar on top of the waterproofing materials and to tighten the set of S.S. screws and nuts to join with the outlet body.
- 4) The clearance between the 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. Dome/Flat Grating in position with the collar and fasten the S.S. flat-head screws to complete the installation.
- 6) The C.I.or S.S. Dome and Flat Grating are interchangeable to suit on site drainage requirement. (For reference)



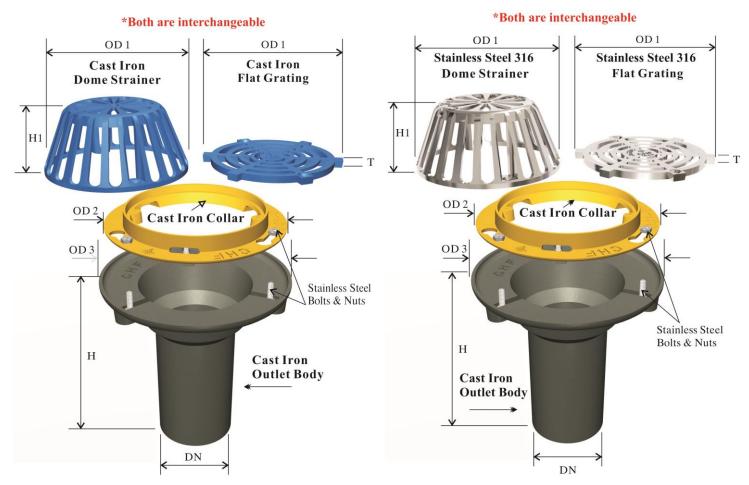




Rainwater Outlet / Floor Drain - CHAMELEON Series

with Stainless Steel / Cast Iron Dome Strainer or Stainless Steel / Cast Iron Flat Strainer Grating

for Aboveground Surface, Rooftop and Other Areas



* All drawings are for reference only.
Users must install under the installation guide.

MATERIAL: Cast Iron Grade 150 of BS1452: 1990 & Symbol EN GJL-150 of BS EN 1561: 1997

DIMEN	NSIC	ONS	DN 75 (mm)	DN 100 (mm)	DN 150 (mm)	DN 75 (mm)	DN 100 (mm)	DN 150 (mm)	
1. i. Dome Strai	ner (Ren	novable)		Cast Iron		S	tainless ste	el	
Outer Diam	eter	OD 1	180	180	225	180	180	225	
Height		H1	80	80	105	80	80	105	
ii. Flat Gratin		Cast Iron	ast Iron Stainless steel			el			
Outer Diam	eter	OD 1	180	180	225	180	180	225	
Thickness	Thickness		9	9	12	9	9	12	
* Dome Strainer an	d Flat Gra	ating are intere	hangeable.						
2. Collar									
Outer Diam	eter	OD 2	240	240	295	240	240	295	
3. Outlet Body	3. Outlet Body								
Outer Diam	eter	OD 3	265	265	320	265	265	320	
Height		Н	300	300	300	300	300	300	
Nominal Di	ameter	DN	75	100	150	75	100	150	

^{**} All dimension are for reference only.



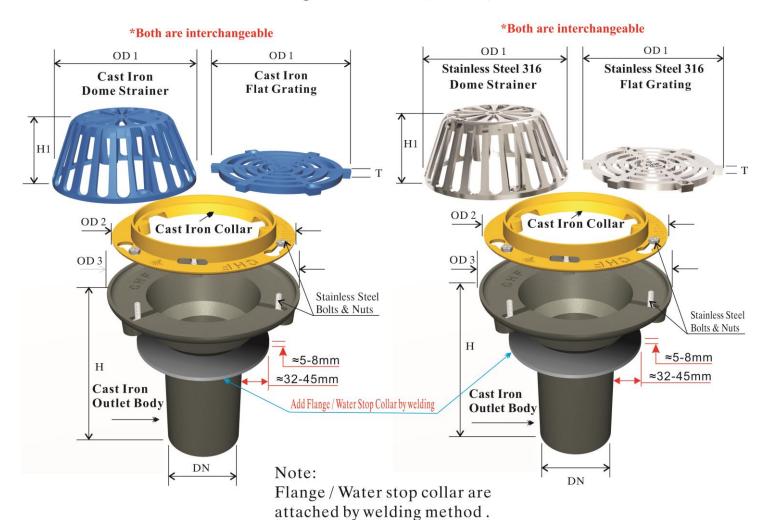




Rainwater Outlet / Floor Drain - CHAMELEON Series

with Stainless Steel / Cast Iron Dome Strainer or Stainless Steel / Cast Iron Flat Strainer Grating

for Aboveground Surface, Rooftop and Other Areas



MATERIAL: Cast Iron Symbol EN GJL-150 of BS EN 1561: 2011

I	DIMENSIC	ONS	DN 75 (mm)	DN 100 (mm)	DN 150 (mm)	DN 75 (mm)	DN 100 (mm)	DN 150 (mm)
1. i.	Dome Strainer (Ren		Cast Iron		S	tainless ste	el	
	Outer Diameter	OD 1	180	180	225	180	180	225
	Height	H1	80	80	105	80	80	105
ii. Flat Grating (Removable)				Cast Iron		Stainless steel		
	Outer Diameter	OD 1	180	180	225	180	180	225
	Thickness	T	9	9	12	9	9	12
* Don	ne Strainer and Flat Gra	ating are interc	hangeable.				2. 111	
2. C	Collar							
	Outer Diameter	OD 2	240	240	295	240	240	295
3. O	3. Outlet Body							
	Outer Diameter	OD 3	265	265	320	265	265	320
	Height	Н	300	300	300	300	300	300
	Nominal Diameter	DN	75	100	150	75	100	150

^{*}All drawings are for reference only.

Users must install under the installation guide.



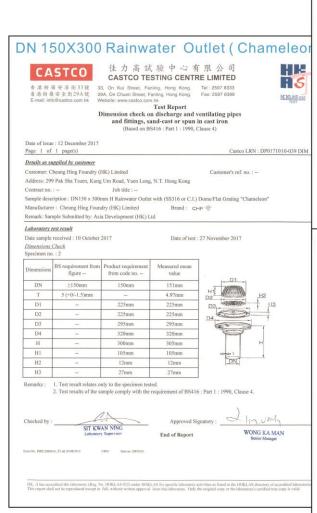




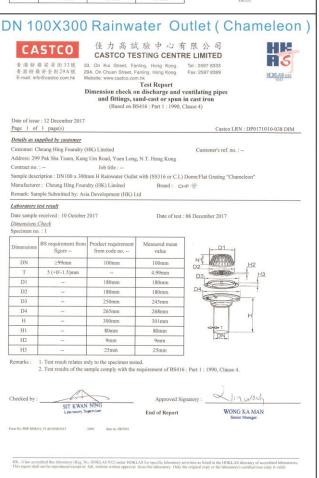
Rainwater Outlet / Floor Drain - CHAMELEON Series with Stainless Steel / Cast Iron Dome Strainer or Stainless Steel / Cast Iron Flat Strainer Grating for Aboveground Surface, Rooftop and Other Areas



HOKLAS Endorsed Test Certificates







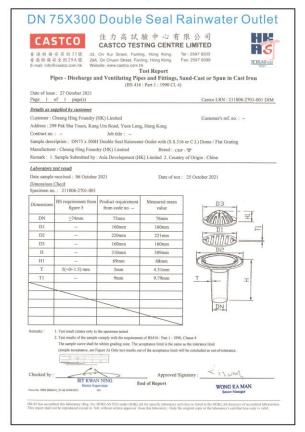




Floor Drain With Flat / Dome Grating

For Aboveground Surface, Rooftop and Other Areas.





Technical Specification

	Outlet Body 斗身						Grating	Motorial	
	No. 序號	Type 款式	Nominal Diameter 公稱內徑 DN (mm)	Height 高度 H (mm)	Outer Diameter 外徑 D2 (mm)	Thickness 厚度 T (mm)	Height 高度 H1 (mm)	Outer Diameter 外徑 D1&D3 (mm)	Material 材質
**	1	50	50	300	180	8	50	120	
**	2	75	75	300	220	9	69	160	Cast Iron
**	3	100	100	300	220	9	69	160	
	4	150	150	300	320	11	125	250	Comply with
	5	200	200	300	335	12	131	254	BS EN 1561
	6	225	225	300	375	12	150	300	DS EN 1301
	7	250	250	300	375	12	150	300	EN-GJL-150
	8	300	300	348	415	14	191	335	

The 50-100mm Flat / Dome Grating can be change for the stainless steel (SS 316)

Note

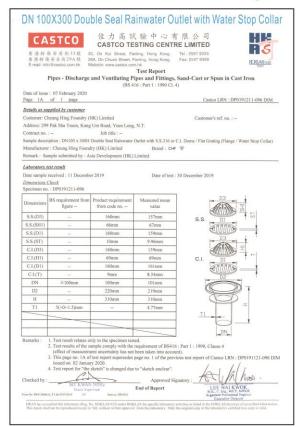
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Floor Drain With Flat / Dome Grating/Water Stop Collar

For Aboveground Surface, Rooftop and Other Areas.





Technical Specification

	1	Outl	et Body	斗身	C	Grating	Material	
No 序號	· Type 款式	Nominal Diameter 公稱內徑 DN (mm)	Height 高度 H (mm)	Outer Diameter 外徑 D2 (mm)	Thickness 厚度 T (mm)	Height 高度 H1 (mm)	Outer Diameter 外徑 D1&D3 (mm)	材質
** 1	50	50	300	180	8	50	120	
** 2	75	75	300	220	9	69	160	Cast Iron
** 3	100	100	300	220	9	69	160	
4	150	150	300	320	11	125	250	Comply with
5	200	200	300	335	12	131	254	BS EN 1561
6	225	225	300	375	12	150	300	DO EN 1301
7	250	250	300	375	12	150	300	EN-GJL-150
8	300	300	348	415	14	191	335	

The 50-100mm Flat / Dome Grating can be change for the stainless steel (SS 316)

Note

- 1. The physical structure of cast iron may change during and / or after the process of smelting, therefore variance in the dimensions of products is anticipated.
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Floor Drain With Flat / Dome Grating

For Aboveground Surface, Rooftop and Other Areas.



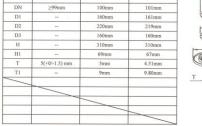
HOKLAS Endorsed Test Certificates

HOKLAS DN 150X300 Double Seal Rainwater Outlet with Water Stop Collar 佳力高試驗中心有限公司 CASTCO TESTING CENTRE LIMITED CASTCO 香港粉稿来度附33號 33, On Kui Street, Fanling, Hong Kong. 香港粉稿安全就29A. On Chuan Street, Fanling, Hong Kong. E-mall: info@castco.com.hk Website: www.castco.com.hk Test Report 10 KLAS 032 Test Report Pipes - Discharge and Ventilating Pipes and Fittings, Sand-Cast or Spun in Cast Iron (BS 416 : Part 1 : 1990 CL 4) Date of issue : 07 February 2020 Page 1A of 1 page Castco LRN: DP0191211-097 DIM Details as supplied by customer Customer: Cheung Hing Foundry (HK) Limited Address; 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, N.T. Job title : --Sample description: DN150 x 300H Double Seal Rainwater Outlet with Dome / Flat Grating (Flange / Water Stop Collar) Manufacturer : Cheung Hing Foundry (HK) Limited Remark : Sample submitted by : Asia Development (HK) Limited Brand : CHF 🐡 Laboratory test result Date sample received : 11 December 2019 <u>Dimensions Check</u> Specimen no. : DP0191211-097 Date of test: 19 December 2019 ≥150mm 150mm 251mm 316n 313mm 11mm 12.40mn 5(+0/-1.5)mm 4.49n

DN 100X300 Double Seal Rainwater Outlet

DN









End of Report

WONG KA MAN

DN 150X300 Double Seal Rainwater Outlet



DN 200X300 Double Seal Rainwater Outlet

CASTCO

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

Website: www.castoo.com/ik
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 : 26 September 2013 Page 1 of 1 page Castco LRN: DP0130918-143 DIM Details as supplied by client

Sample description: DN200 x 300H Double Seal Rainwater Outlet with Dome / Flat Grating

Manufacturer: Cheung Hing Foundry (HK) Limited

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

Laboratory test result Date sample received: 18 September 2013 Date of test: 19 September 2013

Specimen no. : DP0130918-143

Client: Cheung Hing Foundry (HK) Limited

D1 D2 D3 DN		250 mm 330 mm 250 mm	250 mm 330 mm 252 mm
D3 DN	-		
DN	1000	250 mm	252 mm
_	-		
H		200 mm	200 mm
2.5	-	300 mm	306 mm
HI		125 mm	125 mm
T		11 mm	12 mm



Client's ref. no. : --

HS

MONAS 032

- HOKLAS acc
- 3. Compliance check aginst BS416 : Part 1 : 1990, Clause 4 was not possible as this fitting could not b in the standard. AMA Cho

Checked by: A WON End of Report WONG KA MAN LEE WAI KWOK B.Sc., C. Eng., MICE, MHKJE

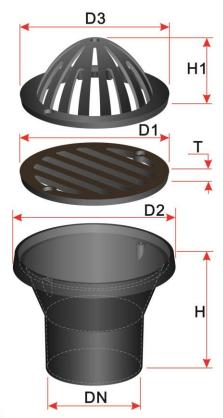






Floor Drain With Flat / Dome Grating

For Aboveground Surface, Ground floor and Other Areas.



Technical Specification

	Outlet Body 斗身					Grating	Matarial	
No. 序 號	Type 款式	Nominal Diameter 公稱內徑 DN (mm)	Height 高度 H (mm)	Outer Diameter 外徑 D2 (mm)	Thickness 厚度 T (mm)	Height 高度 H1 (mm)	Outer Diameter 外徑 D1&D3 (mm)	Material 材質
* 1	50	50	300	135	8	50	120	
* 2	75	75	300	180	9	69	160	Cast Iron
* 3	100	100	300	180	9	69	160	Complywith
4	150	150	300	270	11	125	250	Comply with
5	200	200	300	280	12	131	254	BS EN 1561
6	225	225	300	325	12	150	300	EN-GJL-150
7	250	250	300	325	12	150	300	LIT GJL-130
8	300	300	348	365	14	191	335	

The 50-100mm Flat / Dome Grating can be change for the stainless steel (SS 316)

Note

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Heavy Duty Grating & Sealed Water Outlet

承重疏冷雙止口水斗

B 125

D400



DIMENSIO GRATING L			DN 75 mm	DN 100 mm	DN 150 mm
Code No.	產品	品編號	HABW075	HABW100	HABW150
1.Flat Grating	平冷				
Outer Diameter	外徑	OD 1	180	180	270
Thickness	厚度	Т	25	25	40
2.Outer Body	水斗				
Outer Diameter	外徑	OD 2	263	263	362
Height	高度	Н	300	300	300
3.Loading	承重	Class	В	В	D

Ratio of outlet with grating 疏冷與水斗的排水比						
Outlet Size 出水尺寸 (mm)	75	100	150			
Grating Size 疏冷尺寸 (mm)	180	180	270			
Outlet cross-sectional area 出水咀切面面積 (mm)	4417.9	7854.0	17672			
Area of drainage grating pit 疏冷排水坑面積 (mm)	0970.0	8976.8	20672			
The relative ratio of (1:X) 相對比	2.0319	1.1430	1.1698			

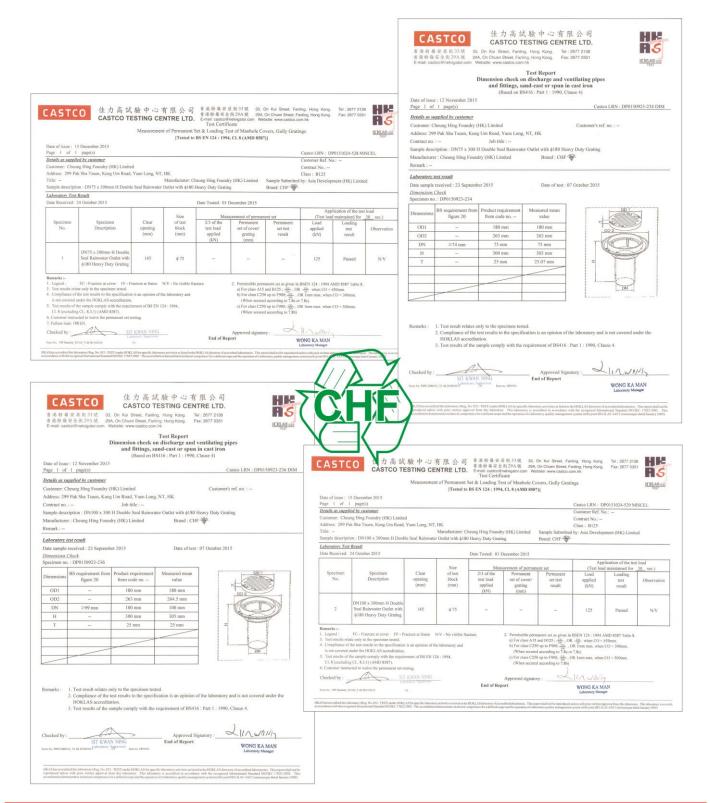




Heavy Duty Grating & Sealed Water Outlet 承重疏冷雙止口水斗 B 125



HOKLAS Endorsed Test Certificates







Heavy Duty Grating & Sealed Water Outlet 承重疏冷雙止口水斗 D 400



HOKLAS Endorsed Test Certificates



TECHNICAL SPECIFCATIONS

	Item	Material	Functions
1	Flat Grating		Flat The Flat Grating can be loading at 12.5 and 40 tons. (BS EN 124 B 125 & D 400)
		Cast Iron	The BS EN 124 B 125 suitable for footway, pedestrian areas and comparable areas, car parks or carking decks. Ane the BS EN 124 D 400 suitable for gully top installed in the area of kerb side channels of roads, which when measured from the kerb edge, extend a maximum of 0.5 m into the carriageway and a maximum of 0.2 m into the footway.
2	Outlet body		This outlet body ensures an adequate and efficient flow of rainwater and surface water into the drainage system with appropriate installation.
3	Compatibility		Heavy Duty Grating & Sealed Water Outlet can be connected to spigot and socket pipe works, socket-less cast iron pipe works and other pipe work systems with proper installation and appropriate application.



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