

Test Report

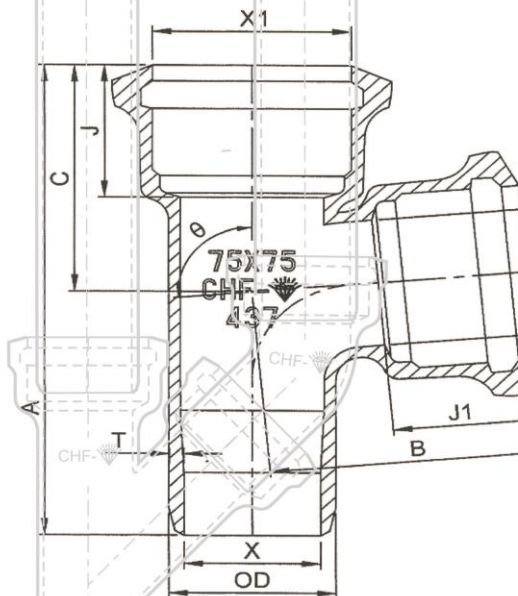
Dimension and Mass of Cast Iron Drain Pipe, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]

Date of issue : 23 June 2021

Page 2 of 2 page(s)

Castco LRN : 210616

Appendix



Form No. PIPE DIM437_2008 T1 04 31/07/2016

香港粉嶺安居街33號得利中心6樓
香港粉嶺安居街30號新寧中心1樓
香港粉嶺安居街29A號
Tel: 2597 8333 Fax: 2597 8399

Test Certificate

Hydrostatic Test on Cast Iron Pipe

(In-house method Based on BS 437 : 2008 Clause 1)

Date of issue : 23 June 2021

Page 1 of 1 page

Castco LRN : 210616-2547-003 HYD

Details as supplied by client

Customer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : --

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

Job title : --

Sample description : DN75 x 75 Tee with Flexible Joint

Brand name : CHF

Manufacturer : Cheung Hing Foundry (HK) Limited

Laboratory Test Result

Date received : 16 June 2021

Date of test : 17 June 2021

Specimen no.	210616-2547-003
Actual internal hydrostatic pressure apply (Bar)	3.5
Sustain period (min)	30
Test result	Passed

- Remarks :
1. Test results relate only to the specimen tested.
 2. Sample Submitted by : Asia Development (HK) Limited
 3. Country of Origin : China.

Checked by:
SIT KWAN NING
Senior SupervisorCertified by:
End of Report
WONG KA MAN
Senior Manager

Form No. PIPE HYD In-house_T 04 03/06/2020

香港粉嶺安居街33號
香港粉嶺安居街29A號
E-mail: info@castco.com.hk33, On Kui Street, Fanling, Hong Kong. Tel: 2597 8333
29A, On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399
Website: www.castco.com.hk

Test Report

Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]

Date of issue : 23 June 2021

Page 1 of 2 page(s)

Castco LRN : 210616-2547-003 DIM

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

Job title : --

Contract no. : --

Sample description : DN75 x 75 Tee with Flexible Joint

Manufacturer : Cheung Hing Foundry (HK) Limited

Brand name : CHF

Nominal bore : 75 mm

Nominal Length : --

Nominal Mass : 8.3 kg

Type of joint : Flexible joint

Laboratory test result

Date sample received : 16 June 2021

Date of test : 17 June 2021

Dimensions Check

Specimen no. : 210616-2547-003

Dimensions	BS requirement from figure --	Product requirement from code no. --	Measured mean value
A	--	300 mm	302 mm
B	--	155 mm	156 mm
C	--	144 mm	144 mm
J	--	84 mm	86 mm
J1	--	84 mm	84 mm
OD	--	91 mm	91 mm
T	--	6.5 mm	9.05 mm
X	--	75 mm	77 mm
X1	--	113 mm	114 mm
Y	--	75 mm	76 mm
Y1	--	113 mm	113 mm
Mass	8.3(-1.2) kg	8.3 kg	8.72 kg

- Remarks :
1. Test result relate only to the specimen tested.
 2. Compliance check against BS 437 : 2008, Annex A2 to A9, Clause 4.3 & 4.4 was not possible as this pipe could not be found in the standard.
 3. Sample Submitted by : Asia Development (HK) Limited
 4. Country of Origin : China.

Dimensions A & figure 1b for dimensions is the same as the tolerance limit and this will be concluded as out-of-tolerance.

Signature :

WONG KA MAN
Senior Manager

Signatures as listed in the HKAS directory of accredited laboratories. Original copy or the laboratory's certified true copy is valid.

DIM

DIM

HYD

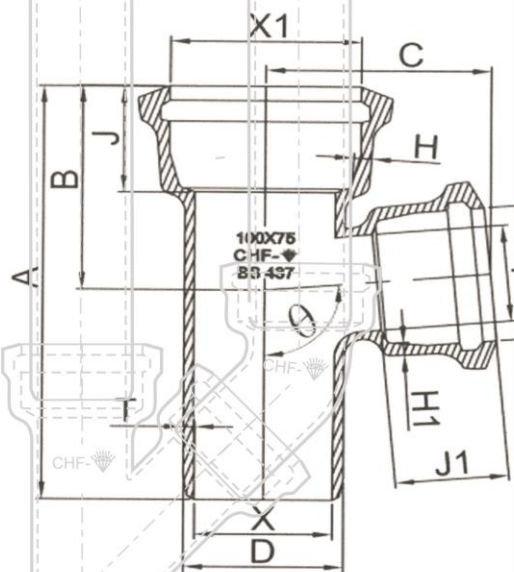
TEN

Test Report
Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]

Page 2 of 2 page(s)

Castco LRN : 2011

Appendix



香港粉嶺安居街33號
香港粉嶺安全街29A號
E-mail: info@castco.com.hk

33, On Kui Street, Fanling, Hong Kong
29A, On Chuen Street, Fanling, Hong Kong
Tel: 2597 8333 Fax: 2597 8399
Website: www.castco.com.hk

Test Report
Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]

Date of issue : 17 December 2020
Page 1 of 2 page(s)

Castco LRN : 201130-2289 DIM

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited
Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong
Job title : --
Sample description : DN100 x 75 Tee with Flexible Joint
Manufacturer : Cheung Hing Foundry (HK) Limited
Brand name : CHF
Nominal bore : 100 mm
Nominal Length : --
Nominal Mass : 11.5 kg
Type of joint : Flexible joint

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

Laboratory test result

Date sample received : 30 November 2020

Date of test : 01 December 2020

Dimensions Check

Specimen no. : 201130-2289

Dimensions	BS Requirement from figure --	Product requirement from code no. --	Measured mean value
A	--	345 mm	340 mm
B	--	168 mm	165 mm
C	--	166 mm	168 mm
D	17 (+1/-1) mm	117 mm	118 mm
H	--	14 mm	12.02 mm
J	--	80 mm	80 mm
J1	--	11 mm	10.96 mm
I	--	80 mm	80 mm
T	≥ 6.7 mm	6.7 mm	6.93 mm
X	--	100 mm	100 mm
Y	--	75 mm	79 mm
X1	--	138 mm	140 mm
Y1	--	111 mm	115 mm
Mass	11.5 (-1.73) kg	11.5 kg	11.6 kg

Remarks : 1. Test result relates only to the specimen tested.

BS 437 : 2008 Annex A2 to A9, Clause 4.3 & 4.4

Test Certificate

Hydrostatic Test on Cast Iron Pipe

(In-house method based on BS 437 : 2008 Clause 1)

Date of issue : 18 December 2020
Page 1 of 1 page

Castco LRN : 201130-2289 HYD

Details as supplied by client

Customer : Cheung Hing Foundry (HK) Limited
Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong
Job title : --
Sample description : DN100 x 75 Tee with Flexible Joint
Brand name : CHF
Manufacturer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : --

Contract no. : --

Laboratory Test Result

Date received : 30 November 2020

Date of test : 01 December 2020

Specimen no.	201130-2289
Actual internal hydrostatic pressure applied (Bar)	3.5
Sustain period (sec)	30
Test result	Passed

Remarks : 1. Test results relate only to the specimen tested (effect of measurement uncertainty has not been taken into account).
2. Samples Submitted by : Asia Development (HK) Limited
3. Country of Origin : China

Checked by: **SIT KWAN NING**
Senior Supervisor

Certified by: **WONG KA MAN**
Senior Manager

Form No. PIPE HYD In-house_T 64 03/06/2020 06

DIM

DIM

HYD

Test Report
Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]Test Report
Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]

Page 2 of 2 page(s)

Castco LRN : 20113

Date of issue : 17 December 2020

Page 1 of 2 page(s)

Castco LRN : 201130-2290 DIM

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited
 Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong
 Job title : --
 Sample description : DN100 x 100 Tee with Flexible Joint
 Manufacturer : Cheung Hing Foundry (HK) Limited
 Brand name : CHF
 Nominal bore : 100 mm
 Nominal Length : --
 Nominal Mass : 13 kg
 Type of joint : Flexible joint

Customer's ref. no. : --

Contract no. : --

Laboratory test result

Date sample received : 30 November 2020

Date of test : 01 December 2020

Dimensions Check

Specimen no. : 201130-2290

Dimensions	BS Requirement from figure --	Product requirement from code no. --	Measured mean value
A	--	345 mm	342 mm
B	--	168 mm	165 mm
C	--	175 mm	178 mm
H	--	14 mm	9.72 mm
H1	--	14 mm	7.06 mm
J	--	80 mm	76 mm
J1	--	80 mm	80 mm
OD	117 (+2/-1) mm	117 mm	116 mm
T	≥ 6.7 mm	6.7 mm	7.29 mm
X	--	100 mm	102 mm
X1	--	138 mm	139 mm
Y	--	100 mm	105 mm
Y1	--	138 mm	139 mm
Mass	13 (-1.95) kg	13 kg	12.9 kg

Remarks : 1. Test result relates only to the specimen tested.

BS 437 : 2008 Annex A2 to A9, Clause 4.3 & 4.4

Form No. PIPE DIM437_2008 T1 d43 07/2019

香港粉嶺安居街33號德利中心6樓
 香港粉嶺安居街30號新寧中心1樓
 香港粉嶺安全街29A號
 Tel: 2597 8333 Fax: 2597 8399

Test Certificate

Hydrostatic Test on Cast Iron Pipe

(In-house method based on BS 437 : 2008 Clause 1)

Signature :

WONG KA MAN
Senior Manager

As listed in the HKAS directory of accredited laboratories.
 Original copy or the laboratory's certified true copy is valid.

Date of issue : 18 December 2020

Page 1 of 1 page

Castco LRN : 201130-2290 HYD

Details as supplied by client

Customer : Cheung Hing Foundry (HK) Limited
 Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong
 Job title : --
 Sample description : DN100 x 100 Tee with Flexible Joint
 Brand name : CHF
 Manufacturer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : --

Contract no. : --

Laboratory Test Result

Date received : 30 November 2020

Date of test : 01 December 2020

Specimen no.	201130-2290
Actual internal hydrostatic pressure applied (Bar)	3.5
Sustain period (sec)	30
Test result	Passed

Remarks : 1. Test results relate only to the specimen tested (effect of measurement uncertainty has not been taken into account).
 2. Samples Submitted by : Asia Development (HK) Limited
 3. Country of Origin : China

Checked by :

SIT KWAN NING
Senior Supervisor

Certified by :

End of Report

WONG KA MAN
Senior Manager

Form No. PIPE HYD In-house_T d43 03/06/2020

DIM

DIM

HYD

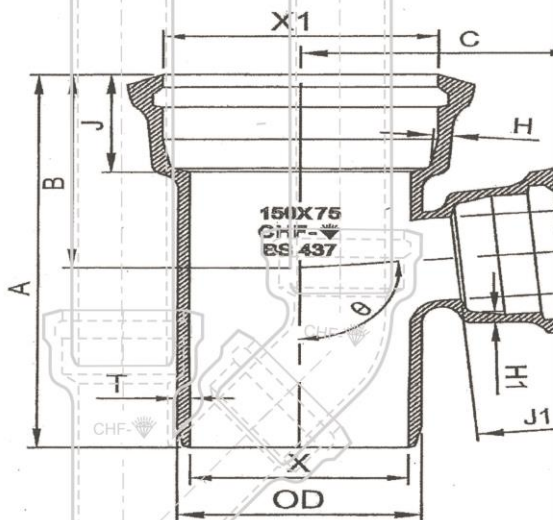
Test Report

Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
(BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4))

Page 2 of 2 page(s)

Castco LRN : 201130

Appendix

香港粉嶺安居街33號
香港粉嶺安居街29A號
E-mail: info@castco.com.hk33, On Kui Street, Fanling, Hong Kong
29A, On Chuen Street, Fanling, Hong Kong
Website: www.castco.com.hk

Test Report

Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
(BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4))

Date of issue : 17 December 2020

Page 1 of 2 page(s)

Castco LRN : 201130-2291 DIM

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited
 Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong
 Job title : --
 Sample description : DN150 x 75 Tee with Flexible Joint
 Manufacturer : Cheung Hing Foundry (HK) Limited
 Brand name : CHF
 Nominal bore : 150 mm
 Nominal Length : --
 Nominal Mass : 18.5 kg
 Type of joint : Flexible joint

Customer's ref. no. : --

Contract no. : --

Laboratory test result

Date sample received : 30 November 2020

Date of test : 01 December 2020

Dimensions Check

Specimen no. : 201130-2291

Dimensions	BS Requirement from figure --	Product requirement from code no. --	Measured mean value
A	--	360 mm	364 mm
B	--	187 mm	187 mm
C	--	192 mm	196 mm
H	--	14 mm	11.75 mm
H1	--	11 mm	10.35 mm
J	--	90 mm	85 mm
J1	--	80 mm	75 mm
CD	171 (+2/-1) mm	171 mm	172 mm
T	≥ 7.7 mm	7.7 mm	10.44 mm
X	--	150 mm	151 mm
X1	--	190 mm	191 mm
Y	--	75 mm	75 mm
Y1	--	111 mm	115 mm
Mass	18.5 (-2.78) kg	18.5 kg	18.2 kg

Remarks : 1. Test result relates only to the specimen tested.

BS 437 : 2008 Annex A2 to A9, Clause 4.3 & 4.4

Test Certificate

Hydrostatic Test on Cast Iron Pipe

(In-house method based on BS 437 : 2008 Clause 1)

Signature :

WONG KA MAN
Senior ManagerDetails as listed in the HKQALAS directory of accredited laboratories.
Original copy or the laboratory's certified true copy is valid.

Date of issue : 18 December 2020

Page 1 of 1 page

Castco LRN : 201130-2291 HYD

Details as supplied by client

Customer : Cheung Hing Foundry (HK) Limited
 Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong
 Job title : --
 Sample description : DN150 x 75 Tee with Flexible Joint
 Brand name : CHF
 Manufacturer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : --

Contract no. : --

Laboratory Test Result

Date received : 30 November 2020

Date of test : 01 December 2020

Specimen no.	201130-2291
Actual internal hydrostatic pressure applied (Bar)	3.5
Sustain period (sec)	30
Test result	Passed

Remarks : 1. Test results relate only to the specimen tested (effect of measurement uncertainty has not been taken into account).
 2. Samples Submitted by : Asia Development (HK) Limited
 3. Country of Origin : China

Checked by :

SIT KWAN NING
Senior Supervisor

Form No. PIPE HYD In-house_T 64 03/06/2020

Certified by :

End of Report

WONG KA MAN
Senior Manager

DIM

DIM

HYD

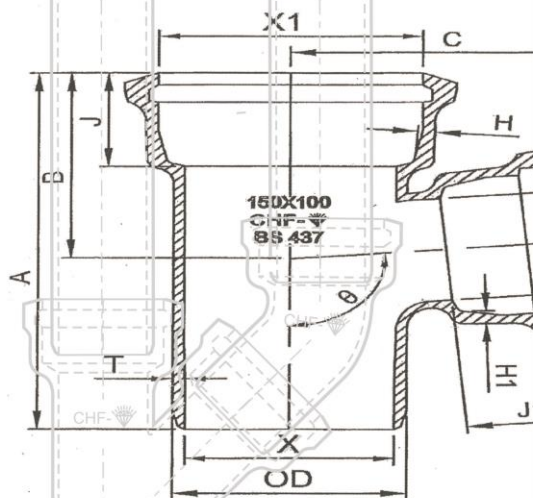
Test Report

Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]

Page 2 of 2 page(s)

Castco LRN : 201130

Appendix

香港粉嶺安居街33號
香港粉嶺安全街29A號
E-mail: info@castco.com.hk33, On Kui Street, Fanling, Hong Kong. Tel: 2597 8333
29A, On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399
Website: www.castco.com.hk

Test Report

Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
[BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4)]

Date of issue : 17 December 2020

Page 1 of 2 page(s)

Castco LRN : 201130-2292 DIM

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited

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

Job title : --

Sample description : DN150 x 100 Tee with flexible joint

Manufacturer : Cheung Hing Foundry (HK) Limited

Brand name : CHF

Nominal bore : 150 mm

Nominal Length : --

Nominal Mass : 20 kg

Type of joint : Flexible joint

Customer's ref. no. : --

Contract no. : --

Laboratory test result

Date sample received : 30 November 2020

Date of test : 01 December 2020

Dimensions Check

Specimen no. : 201130-2292

Dimensions	BS requirement from fig. --	Product requirement from code no. --	Measured mean value
A	--	360 mm	362 mm
B	--	187 mm	190 mm
C	--	200 mm	198 mm
H	--	14 mm	11.69 mm
H1	--	14 mm	12.08 mm
J	--	90 mm	87 mm
J1	--	80 mm	83 mm
OD	171 (+2/-1) mm	171 mm	172 mm
T	≥ 7.7 mm	7.7 mm	11.61 mm
X	--	150 mm	150 mm
X1	--	190 mm	191 mm
Y	--	100 mm	103 mm
Y1	--	138 mm	142 mm
Mass	20 (-3.0) kg	20 kg	20.0 kg

Remarks : 1. Test result relates only to the specimen tested.

BS 437 : 2008 Annex A2 to A9, Clause 4.3 & 4.4

Test Certificate

Hydrostatic Test on Cast Iron Pipe

(In-house method based on BS 437 : 2008 Clause 1)

Date of issue : 18 December 2020

Page 1 of 1 page

Castco LRN : 201130-2292 HYD

Details as supplied by client

Customer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : --

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

Job title : --

Contract no. : --

Sample description : DN150 x 100 Tee with Flexible Joint

Brand name : CHF

Manufacturer : Cheung Hing Foundry (HK) Limited

Laboratory Test Result

Date received : 30 November 2020

Date of test : 01 December 2020

Specimen no.	201130-2292
Actual internal hydrostatic pressure applied (Bar)	3.5
Sustain period (sec)	30
Test result	Passed

Remarks : 1. Test results relate only to the specimen tested (effect of measurement uncertainty has not been taken into account).
2. Samples Submitted by : Asia Development (HK) Limited
3. Country of Origin : China

Checked by:

SIT KWAN NING
Senior Supervisor

Form No. PIPE HYD In-house_T 64 09/06/2020 006

Certified by:

End of Report

WONG KA MAN
Senior Manager

DIM

DIM

HYD

Test Report
Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
(BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4))Test Report
Dimension and Mass of Cast Iron Drain Pipes, Fitting and Their Joints
(BS 437 : 2008 Annex A2 to A9 (Clause 4.3 & 4.4))

Page 2 of 2 page(s)

Castco LRN : 20113

Appendix

Castco LRN : 201130-2293 DIM

Date of issue : 17 December 2020
Page 1 of 2 page(s)

Details as supplied by customer

Customer : Cheung Hing Foundry (HK) Limited
Address : 299 Pak Sha Tsuen, Kung Um Road, Yuen Long, Hong Kong
Job title : --
Sample description : DN150 x 150 Tee with Flexible Joint
Manufacturer : Cheung Hing Foundry (HK) Limited
Brand name : CHF
Nominal bore: 150 mm
Nominal Length: --
Nominal Mass: 21 kg
Type of joint: Flexible joint

Customer's ref. no. : --

Contract no. : --

Laboratory test result

Date sample received : 30 November 2020

Date of test : 01 December 2020

Dimensions Check

Specimen no. : 201130-2293

Dimensions	BS Requirement from figure --	Product requirement from code no. --	Measured mean value
A	--	405 mm	408 mm
B	--	200 mm	202 mm
C	--	205 mm	200 mm
H	--	14 mm	10.40 mm
H1	--	14 mm	13.05 mm
J	--	90 mm	95 mm
J1	--	90 mm	85 mm
CD	171 (+2/-1) mm	171 mm	172 mm
T	≥ 7.7 mm	7.7 mm	10.58 mm
X	--	150 mm	151 mm
X1	--	190 mm	190 mm
Y	--	150 mm	148 mm
Y1	--	190 mm	191 mm
Mass	21 (-3.15) kg	21 kg	21.0 kg

Remarks : 1. Test result relates only to the specimen tested.

BS 437 : 2008 Annex A2 to A9, Clause 4.3 & 4.4

Form No. PIPE DIM437_2008 T1 d4 3 / 07/2019

香港粉嶺安居街33號得利中心
香港粉嶺安居街30號新寧中心
香港粉嶺安全街29A號
Tel: 2597 8333 Fax: 2597 8399

Test Certificate

Hydrostatic Test on Cast Iron Pipe

(In-house method based on BS 437 : 2008 Clause 1)

Signature :

WONG KA MAN
Senior ManagerSignatories as listed in the HKAS directory of accredited laboratories.
Original copy or the laboratory's certified true copy is valid.

Date of issue : 18 December 2020

Page 1 of 1 page

Castco LRN : 201130-2293 HYD

Details as supplied by client

Customer : Cheung Hing Foundry (HK) Limited

Customer's ref. no. : --

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

Job title : --

Contract no. : --

Sample description : DN150 x 150 Tee with Flexible Joint

Brand name : CHF

Manufacturer : Cheung Hing Foundry (HK) Limited

Laboratory Test Result

Date received : 30 November 2020

Date of test : 01 December 2020

Specimen no.	201130-2293
Actual internal hydrostatic pressure applied (Bar)	3.5
Sustain period (sec)	30
Test result	Passed

Remarks : 1. Test results relate only to the specimen tested (effect of measurement uncertainty has not been taken into account).
2. Samples Submitted by : Asia Development (HK) Limited
3. Country of Origin : China

Checked by :

SIT KWAN NING
Senior Supervisor

Certified by :

End of Report

WONG KA MAN
Senior Manager

Form No. PIPE HYD In-house_T1 d4 03/06/2020 /06

香港粉嶺安居街33號得利中心6樓 • 6/F, Techno Centre, 33, On Kui Street, Fanling, Hong Kong.
香港粉嶺安居街30號新寧中心1樓 • 1/F, Sun Ling Plaza, 30, On Kui Street, Fanling, Hong Kong.
香港粉嶺安全街29A號 • 29A, On Chuen Street, Fanling, Hong Kong.
Tel: 2597 8333 Fax: 2597 8399 E-mail: info@castco.com.hk Website: www.castco.com.hk

DIM

DIM

HYD

香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong.
香港粉嶺安全街29A號 29, On Nuen Street, Fanling, Hong Kong.
E-mail: info@castco.com.hk Web site: www.castco.com.hk

HKAS has accredited this laboratory (Reg. No. HOKLAS 032) under HOKLAS for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report shall not be reproduced except in full, without written approval from this laboratory. Only the original copy or the laboratory's certified true copy is valid.



WONG KA MAN
Senior Manager

ties as listed in the HOKLAS directory of accredited laboratories. Original copy or the laboratory's certified true copy is valid.

BH

TEN

Checked by : 
SIT KWAN NING
Senior Supervisor