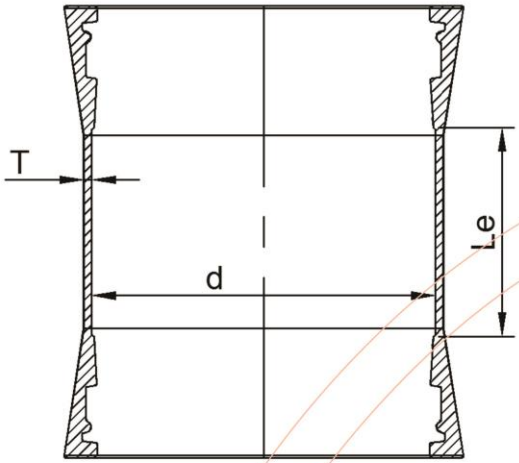
BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)

BS EN 598

全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Collar

梳杰



Size	D	Le	T
mm	mm	mm	mm
80	109	160	7.0
100	130	160	7.2
150	183	165	7.8
200	235	170	8.4
250	288	175	9.0
300	340	180	9.6
* 350	393	185	10.2
* 400	445	190	10.8
* 450	498	195	11.4
* 500	550	200	12.0
* 600	655	210	13.2
* 700	760	220	14.4

Collar - Test Report 疏杰證書

* Made to order.

Brinell Hardness

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

Test Report
Brinell Hardness Test of Ductile Iron Pipes, Fittings and Accessories for Sewerage Applications
[BS EN 598 : 2007 + A1 : 2009 Clause 4.3.2]

Date of issue : 17 April 2018
Page 1 of 1 page(s) Castco LRN : DP0180104-080 BH

Details as supplied by customer:-

Customer : TPY Ltd. Customer's Ref. No. : --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract no.: --
Job title : --
Sample description :-
Sample I.D. : -- Type : Fitting (All Socket Collar)
Nominal size (DN) : 100 Manufacturer : TPY Ltd.
Class : -- Brand : Asia
Origin : China

Brinell hardness testing machine Machine type : 布氏硬度計HB-3000B Series No. : 0125 (BH01)
Cert. No. : CL0170518-12 I.D. No. : NDT-HB-01
Calipers I.D. No. : NDT-HB-007

Laboratory test results:-

Date of received : 04 January 2018 Date of test : 26 January 2018
Test specimen thickness : 23.66 mm Test temperature : 21 °C

Sketch of test locations

1 2 3

Indentation no.	Indentation diameter (2 directions) (mm)		Indentation means (mm)	Corresponding hardness value (HB)	Results
1	4.69	4.76	4.73	161	C
2	4.73	4.64	4.69	164	C
3	4.73	4.80	4.77	158	C

Remark : 1. Test results relates only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE WAI KWOK B.Sc., C. Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. : PIPE DUCTION WLT598(2009)_T dd 15/10/2015 /18
香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399
E-mail: info@castco.com.hk Website: www.castco.com.hk

Leaktightness

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

Test Report
Work Leaktightness Test of Ductile Iron Pipes, fittings, accessories and their joints for water pipelines
[In accordance to EN598: 2007 + A1 : 2009 Clause 4.7]

Date of issue : 17 April 2018
Page 1 of 1 page Castco LRN : DP0180104-080 HYD

Details as supplied by customer:-

Customer : TPY Ltd. Customer's ref. no.: --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N. T. Hong Kong
Contact No. : -- Job title : --
Description of Fitting :-
Nominal size (DN) : 100 Length : --
Brand name : Asia Manufacturer : TPY Ltd.
Pressure testing type : Fitting (All Socket Collar)
Delivery date: --

Laboratory Test Result

Date of sample received : 04 January 2018 Date of test : 16 January 2018

Specimen no.		DP0180104-080
Testing temperature		20.0 °C
Pressure amplitude maintained		25 bar
Actual testing time	Time start	0 sec.
	Time end	15 sec.
	Time interval	15 sec.
Any leakage during the test		No
Compliance		C

Notes : Test sample shall withstand the internal pressure without any leakage to EN598 : 1995.
Legends : C - Comply with EN598 : 2007 + A1 : 2009.
F - Fail to comply with EN598 : 2007 + A1 : 2009.
Remarks : 1. Test results relate only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009 Clause 4.7.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE WAI KWOK B.Sc., C. Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. PIPE DUCTION WLT598(2009)_T dd 15/10/2015 /18
香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
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振亞發展有限公司
ASIA DEVELOPMENT (HK) LIMITED

BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)

BS EN 598

全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Collar - Test Report 疏杰證書

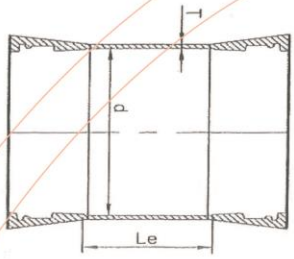
Dimension

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

Test Report
Method for Determination of Dimensions of Ductile iron Pipes, Fittings, Accessories and Their Joints for Sewage Applications
(BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3)

Date of issue : 17 April 2018
Page 2 of 2 page(s)
Castco LRN : DP0180104-080 D

Appendix



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

Test Report
Method for Determination of Dimensions of Ductile iron Pipes, Fittings, Accessories and Their Joints for Sewage Applications
(BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3)

Date of issue : 17 April 2018
Page 1 of 2 page(s)
Castco LRN : DP0180104-080 DIM

Details as supplied by customer:-
Customer : TPY Ltd. Customer's ref. no.: --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong
Contract No. : -- Job title: --
Description of :
Nominal bore : 100 mm Length : --
Brand name : Type : Fitting (All Socket Collar)
Delivery date : -- Manufacturer : TPY Ltd.
Origin : China

Laboratory Test Result
Date sample received : 04 January 2018 Date of test : 16 January 2018
Sample I.D. : DP0180104-080

Nominal size DN : 100		Test result	BS EN requirement	Customer requirement
External diameter (e)	(mm)	--	--	--
Ovality spigot of external diameter	(%)	--	--	--
Thickness (T)	(mm)	7.72	7.2 (-2.4)	7.2
Internal diameter	(mm)	--	--	--
Length (Le)	(mm)	160	160 (±25)	160
Length (d)	(mm)	140	130 (±25)	130
Measured thickness of cement mortar lining	(mm)	--	--	--

Remarks : 1. Test results relates only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE WAI KWOK B.Sc., C Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. PIPE/DIM/F/2009_T dd/15/10/2015 /18

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

Surface Condition

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

Test Report
Surface Condition Test for Ductile Iron Pipes, Fittings, Accessories and Their Joints for Sewerage Application
[BS EN 598 : 2007+A1 : 2009 clause 4.1.2]

Date of issue : 17 April 2018
Page 1 of 1 page(s)
Castco LRN : DP0180104-080 SC

Details as supplied by customer:-
Customer : TPY Ltd. Customer's Ref. No. :
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract No. : --
Job title : --
Sample Description :-
Sample I.D. : -- Type : Fitting (All Socket Collar)
Nominal size (DN) : 100 Nominal length : --
Manufacturer : TPY Ltd. Brand :
Origin : China

Laboratory test result:-
Date sample received : 04 January 2018 Date of test : 16 January 2018

The external surface condition of test sample is free from defect and surface imperfections.

Remark :
1. Test result relate only to the specimens tested.
2. Test results complies with Clause 4.1.2 of BS EN 598 : 2007 + A1 : 2009.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by :

End of Report

Form No. : PIPE/SC598(2009)_T dd/15/10/2015 /18

香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399
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Tensile

CASTCO 佳力高試驗中心有限公司
CASTCO TESTING CENTRE LIMITED
香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399
E-mail: info@castco.com.hk Website: www.castco.com.hk

Test Report
Tensile Test of Ductile Cast Iron
[BSEN 598 : 2007 + A1 : 2009 Clause 4.3.1]

Date of issue : 17 April 2018
Page 1 of 1 page
Castco LRN : DP0180104-080 TEN

Details as supplied by customer:-
Customer : TPY Ltd. Customer Ref. No. : --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract no.: --
Job title : --
Sample Description : DN100 Ductile Iron All Socket Collar
Grade : --
Manufacturer : TPY Ltd., Brand name: Origin : China
Acceptance standard: BS EN598 : 2007 + A1 : 2009 Clause 4.3.1

Laboratory test result:-
Date received : 04 January 2018 Date tested : 15 February 2018

Specimen Mark	Material designation		Gauge dia.	Cross-sect. Area,	Original gauge length,	Final gauge length,	0.2% Proof stress		Tensile Load		Elongation %	Compliance
	Symbol	Number	(mm)	(mm^2)	(mm)	(mm)	(kN)	(MPa)	(kN)	(MPa)		
DP0180104-080	--	--	5.08	20.2	40	44			9.1	450	10	C

Remarks :-
1. Legends : C - comply with acceptance standard. F - fail to comply with acceptance standard
2. Test results relate to the specimen tested only.
3. Test results of the sample comply with requirement of BSEN 598 : 2007 + A1 : 2009 Clause 4.3.1.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE WAI KWOK B.Sc., C Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. STL/DUCTCASTTEN/09(2009) T dd/15/10/2015 /18

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BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)

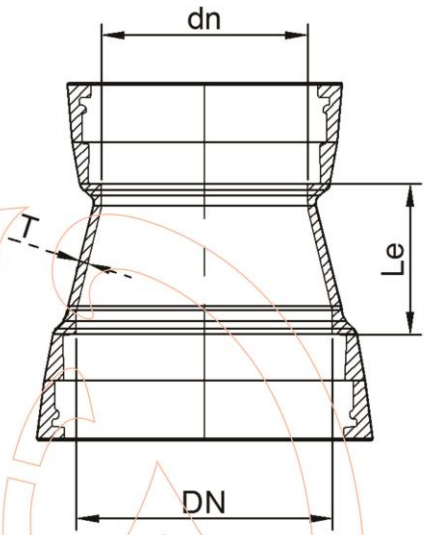
BS EN 598

全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Taper

刁士

Size	DN	dn	Le	T
mm	mm	mm	mm	mm
10080	100	80	90	7.2
150X80	150	80	190	7.8
150X100	150	100	150	7.8
* 200X100	200	100	250	8.4
200X150	200	150	150	8.4
* 250X150	250	150	250	9.0
250X200	250	200	150	9.0
* 300X150	300	150	350	9.6
* 300X200	300	200	250	9.6
300X250	300	250	150	9.6
* 350X200	350	200	360	10.2
* 350X250	350	250	260	10.2
* 350X300	350	300	160	10.2
* 400X250	400	250	360	10.8
* 400X300	400	300	260	10.8
* 400X350	400	350	160	10.8
* 450X350	450	350	260	11.4
* 450X400	450	400	160	11.4
* 500X350	500	350	360	12.0
* 500X400	500	400	260	12.0
* 600X400	600	400	460	13.2
* 600X500	600	500	260	13.2
* 700X500	700	500	480	14.4
* 700X600	700	600	280	14.4



Taper - Test Report 刁士證書

Leaktightness

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

Test Report
Work Leaktightness Test of Ductile Iron Pipes, fittings, accessories and their joints for water pipelines
[In accordance to EN598: 2007 + A1 : 2009 Clause 4.7]

Date of issue : 17 May 2018
Page 1A of 1 page
Castco LRN : DP0180104-086 HYD

Details as supplied by customer:-
Customer : TPY Ltd. Customer's ref. no.: --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong
Contract No. : -- Job title : --
Description of Fitting : -
Nominal size (DN) : 100 x 150 Length : --
Brand name : Kng Manufacturer : TPY Ltd.
Pressure testing type : Fitting (All Socket Taper)

Delivery date: --

Laboratory Test Result
Date of sample received : 04 January 2018 Date of test : 17 January 2018

Specimen no.		DP0180104-086
Testing temperature		20.0 °C
Pressure amplitude maintained		25 bar
Actual testing time	Time start	0 sec.
	Time end	15 sec.
	Time interval	15 sec.
Any leakage during the test		No
Compliance		C

Notes : Test sample shall withstand the internal pressure without any leakage to EN598 : 1995.
...ply with EN598 : 2007 + A1 : 2009.
...ment with EN598 : 2007 + A1 : 2009.
...late only to the specimen tested.
...of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009 Clause 4.7.
...eport superseded previous test report of Castco LRN : DP0180104-086 HYD issued on 17 April 2018.

Certified by : WONG KA MAN Senior Manager

End of Report

33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
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振亞發展有限公司
ASIA DEVELOPMENT (HK) LIMITED

BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)
BS EN 598
全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Taper - Test Report 刁士證書

Brinell Hardness

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

Test Report
Brinell Hardness Test of Ductile Iron Pipes, Fittings and Accessories for Sewerage Applicat
[BS EN 598 : 2007 + A1 : 2009 Clause 4.3.2]

Date of issue : 17 May 2018
Page 1A of 1 page(s) Castco LRN : DP0180104-086 I

Details as supplied by customer:-

Customer : TPY Ltd. Customer's Ref. No. : --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract no.: --
Job title : --
Sample description :-
Sample I.D. : -- Type : Fitting (All Socket Taper)
Nominal size (DN) : 100 x 150 Manufacturer : TPY Ltd.
Class : -- Brand :
Origin : China

Brinell hardness testing machine Machine type : 布氏硬度計HB-3000B Series No. : 0125 (BH01)
Cert. No. : CL0170518-12 I.D. No. : NDT-HB-01
Calipers I.D. No. : NDT-HB-007

Laboratory test results:-

Date of received : 04 January 2018 Date of test : 26 January 2018
Test specimen thickness : 23.47 mm Test temperature : 21 °C

Sketch of test locations

1 2 3

Indentation no.	Indentation diameter (2 directions) (mm)		Indentation means (mm)	Corresponding hardness value (HB)	Result
1	4.65	4.54	4.60	170	C
2	4.67	4.62	4.65	167	C
3	4.59	4.63	4.61	170	C

Remark : 1. Test results relates only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009.
80104-086 BH issued on 17 April

by: WONG KA MAN Senior Manager

Kong. Tel : 2597 8333
Kong. Fax: 2597 8399
.com.hk

Dimension

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

Test Report
Method for Determination of Dimensions of Ductile iron Pipes, Fittings, Accessories and Their Joints for Sewage Applications
(BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3)

Date of issue : 17 May 2018
Page 1A of 2 page(s) Castco LRN : DP0180104-086 DIM

Details as supplied by customer:-

Customer : TPY Ltd. Customer's ref. no.: --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong
Contract No. : -- Job title: --
Description of :
Nominal bore : 100 x 150 mm Length : --
Brand name : Type : Fitting (All Socket Taper)
Delivery date : -- Manufacturer : TPY Ltd.
Origin : China

Laboratory Test Result

Date sample received : 04 January 2018 Date of test : 17 January 2018
Sample I.D. : DP0180104-086

Nominal size DN : 100 x 150		Test result	BS EN requirement	Customer requirement
External diameter (e)	(mm)	--	--	--
Ovality spigot of external diameter	(%)	--	---	--
Thickness (T)	(mm)	8.35	7.8 (-2.45)	7.8
Internal diameter	(mm)	--	--	--
Thickness (L1)	(mm)	8.04	7.2 (-2.40)	7.2
Length (Le2)	(mm)	150	150 (+25)	150
Measured thickness of cement mortar lining	(mm)	12.41	4(-1.5)	--

Remarks : 1. Test results relates only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3.
3. This page no. 1A of test report supersedes page no. 1 of the previous test report of Castco LRN : DP0180104-086 DIM issued on 17 April 2018.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : WONG KA MAN Senior Manager

End of Report

Form No. PIPE DIM15/6/2015_T &H/15/6/2015 /18
香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
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E-mail: info@castco.com.hk Website: www.castco.com.hk

Surface Condition

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

Test Report
Surface Condition Test for Ductile Iron Pipes, Fittings, Accessories and Their Joints for Sewerage Application
[BS EN 598 : 2007+A1 : 2009 clause 4.1.2]

Date of issue : 17 May 2018
Page 1A of 1 page(s) Castco LRN : DP0180104-086 SC

Details as supplied by customer:-

Customer : TPY Ltd. Customer's Ref. No.
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract No. : --
Job title : --
Sample Description :-
Sample I.D. : -- Type : Fitting (All Socket Taper)
Nominal size (DN) : 100 x 150 Nominal length : --
Manufacturer : TPY Ltd. Brand :
Origin : China

Laboratory test results:-

Date sample received : 04 January 2018 Date of test : 16 January 2018

The external surface condition of test sample is free from defect and surface imperfections.

Remark :
1. Test result relate only to the specimens tested.
2. Test results complies with Clause 4.1.2 of BS EN 598 : 2007 + A1 : 2009.
3. This test report superseded previous test repoit of Castco LRN : DP0180104-086 SC issued on 17 April 2018.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : WONG Senior

End of Report

Form No. PIPE SC598(2009)_T &H 15/10/2015 /18
香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
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Tensile

CASTCO 佳力高試驗中心有限公司
CASTCO TESTING CENTRE LIMITED
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香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2597 8399
E-mail: info@castco.com.hk Website: www.castco.com.hk

Test Report
Tensile Test of Ductile Cast Iron
[BSEN 598 : 2007 + A1 : 2009 Clause 4.3.1]

Date of issue : 17 May 2018
Page 1A of 1 page Castco LRN : DP0180104-086 TEN

Details as supplied by customer:-

Customer : TPY Ltd. Customer Ref. No. : --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract no.: --
Job title : --
Sample Description : DN100 x 150 Ductile Iron All Socket Taper
Grade : --
Manufacturer : TPY Ltd., Brand name: Origin : China
Acceptance standard: BS EN598 : 2007 + A1 : 2009 Clause 4.3.1

Laboratory test result:-

Date received : 04 January 2018 Date tested : 15 February 2018

Specimen Mark	Material designation		Gauge dia.	Cross-sect. Area,	Original gauge length,	Final gauge length,	0.2% Proof stress		Tensile Load		Elongation %	Compliance
	Symbol	Number	(mm)	(mm^2)	(mm)	(mm)	(kN)	(MPa)	(kN)	(MPa)		
DP0180104-086	--	--	5.11	20.5	40	44			9.5	464	10	C

Remarks :-
1. Legends : C - comply with acceptance standard. F - fail to comply with acceptance standard
2. Test results relate to the specimen tested only.
3. Test results of the sample comply with requirement of BSEN 598 : 2007 + A1 : 2009 Clause 4.3.1.
4. This test report superseded previous test report of Castco LRN : DP0180104-086 TEN issued on 17 April 2018.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : WONG KA MAN Senior Manager

End of Report

Form No. STL DUCTCASTTEN(04/2015)_T &H 15/6/2015 /18

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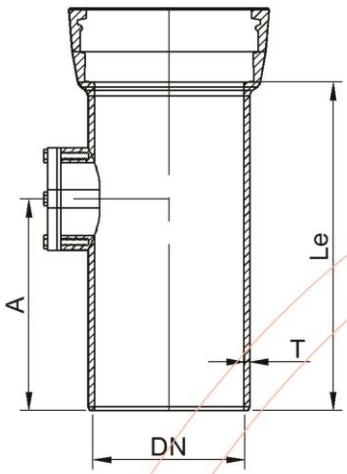
BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)

BS EN 598

全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Short Pipe with Access Door

有口短坰



Size	DN	A	Le	T
mm	mm	mm	mm	mm
100	100	270	400	7.2
150	150	270	400	7.8
200	200	290	450	8.4
250	250	280	450	9.0
300	300	280	450	9.6

Short Pipe with Access Door - Test Report 有口短坰證書

Brinell Hardness

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

Test Report

Brinell Hardness Test of Ductile Iron Pipes, Fittings and Accessories for Sewerage Applications

[BS EN 598 : 2007 + A1 : 2009 Clause 4.3.2]

Date of issue : 17 April 2018
Page 1 of 1 page(s)
Castco LRN : DP0180104-090 BH

Details as supplied by customer:-

Customer : TPY Ltd.
Customer's Ref. No. : --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong
Contract no.: --
Job title : --
Sample description :-
Sample I.D. : --
Type : Fitting (Socket Spigot Short Pipe with Access Door)
Nominal size (DN) 100
Manufacturer : TPY Ltd.
Class : --
Brand :
Origin : China

Brinell hardness testing machine
Machine type : 布氏硬度計HB-3000B
Series No. : 0125 (BH01)
Cert. No. : CL0170518-12
I.D. No. : NDT-HB-01
Calipers
I.D. No. : NDT-HB-007

Laboratory test results:-

Date of received : 04 January 2018
Date of test : 26 January 2018
Test specimen thickness : 24.18 mm
Test temperature : 21 °C

Sketch of test locations

Indentation no.	Indentation diameter (2 directions) (mm)		Indentation means (mm)	Corresponding hardness value (HB)	Results
1	4.73	4.72	4.73	161	C
2	4.77	4.71	4.74	160	C
3	4.71	4.77	4.74	160	C

Remark : 1. Test results relates only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by: LEE WAI KWOK B.Sc., C. Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. : PIPE DUCTION/WLT/10(2009)_T dd 15/10/2015 /18
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E-mail: info@castco.com.hk Website: www.castco.com.hk

Leaktightness

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

Test Report

Work Leaktightness Test of Ductile Iron Pipes, fittings, accessories and their joints for water pipelines

[In accordance to EN598: 2007 + A1 : 2009 Clause 4.7]

Date of issue : 17 April 2018
Page 1 of 1 page
Castco LRN : DP0180104-090 HYD

Details as supplied by customer:-

Customer : TPY Ltd.
Customer's ref. no.: --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong
Contract No. : --
Job title : --
Description of Fitting : -
Nominal size (DN) : 100
Length : --
Brand name :
Manufacturer : TPY Ltd.
Pressure testing type : Fitting (Socket Spigot Short Pipe with Access Door)

Delivery date: --

Laboratory Test Result

Date of sample received : 04 January 2018
Date of test : 18 January 2018

Specimen no.		DP0180104-090
Testing temperature		20.0 °C
Pressure amplitude maintained		25 bar
Actual testing time	Time start	0 sec.
	Time end	15 sec.
	Time interval	15 sec.
Any leakage during the test		No
Compliance		C

Notes : Test sample shall withstand the internal pressure without any leakage to EN598 : 1995.
Legends : C - Comply with EN598 : 2007 + A1 : 2009.
F - Fail to comply with EN598 : 2007 + A1 : 2009.
Remarks : 1. Test results relate only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009 Clause 4.7.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE WAI KWOK B.Sc., C. Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. PIPE DUCTION/WLT/10(2009)_T dd 15/10/2015 /18
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振亞發展有限公司
ASIA DEVELOPMENT (HK) LIMITED

06/2021

BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)
BS EN 598
全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Short Pipe with Access Door - Test Report 有口短坦證書

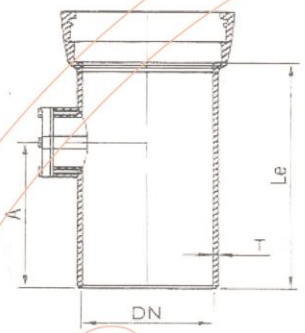
Dimension

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

Test Report
Method for Determination of Dimensions of Ductile iron Pipes, Fittings, Accessories and Their Joints for Sewage Applications
(BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3)

Date of issue : 17 April 2018
Page 2 of 2 page(s)
Castco LRN : DP0180104-090 D

Appendix



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

Test Report
Method for Determination of Dimensions of Ductile iron Pipes, Fittings, Accessories and Their Joints for Sewage Applications
(BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3)

Date of issue : 17 April 2018
Page 1 of 2 page(s)
Castco LRN : DP0180104-090 DIM

Details as supplied by customer:-
Customer : TPY Ltd. Customer's ref. no.: --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong
Contract No. : -- Job title: --
Description of :
Nominal bore : 100 mm Length : --
Brand name : KING Type : Fitting (Socket Spigot Short Pipe with Access Door)
Delivery date : -- Manufacturer : TPY Ltd.
Origin : China

Laboratory Test Result
Date sample received : 04 January 2018 Date of test : 16 January 2018
Sample I.D. : DP0180104-090

Nominal size DN : 100		Test result	BS EN requirement	Customer requirement
External diameter (e)	(mm)	--	--	--
Ovality spigot of external diameter	(%)	--	---	--
Thickness (T)	(mm)	7.1	--	7.2
Internal diameter	(mm)	--	--	100
Length (A)	(mm)	270	--	270
Length (Le)	(mm)	400	--	400
Measured thickness of cement mortar lining	(mm)	13/88	4 (-1.5)	--

Remarks : 1. Test results relates only to the specimen tested.
2. Test results of the sample comply with the requirement of BS EN 598 : 2007 + A1 : 2009 Clause 4.2 & Clause 4.4.3.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE WAI KWOK B.Sc., C. Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. PIPE/DIM598/2009/ T dd/ 10/2015 /1
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Surface Condition

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

Test Report
Surface Condition Test for Ductile Iron Pipes, Fittings, Accessories and Their Joints for Sewerage Application
[BS EN 598 : 2007+A1 : 2009 clause 4.1.2]

Date of issue : 17 April 2018
Page 1 of 1 page(s)
Castco LRN : DP0180104-090 SC

Details as supplied by customer:-
Customer : TPY Ltd. Customer's Ref. No. :
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract No. : --
Job title : --
Sample Description :-
Sample I.D. : -- Type : Fitting (Socket Spigot Short Pipe
Nominal size (DN) : 100 Nominal length : --
Manufacturer : TPY Ltd. Brand : KING
Origin : China

Laboratory test result:-
Date sample received : 04 January 2018 Date of test : 16 January 2018

The external surface condition of test sample is free from defect and surface imperfections.

Remark :
1. Test result relate only to the specimens tested.
2. Test results complies with Clause 4.1.2 of BS EN 598 : 2007 + A1 : 2009.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE W... B.Sc., C. Eng. Registered Pro... Executi...

End of Report

Form No. : PIPE/SC598(2009)_T dd/ 15/10/2015 /18

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Tensile

CASTCO 佳力高試驗中心有限公司 CASTCO TESTING CENTRE LIMITED
香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2597 8333
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E-mail: info@castco.com.hk Website: www.castco.com.hk

Test Report
Tensile Test of Ductile Cast Iron
[BSEN 598 : 2007 + A1 : 2009 Clause 4.3.1]

Date of issue : 17 April 2018
Page 1 of 1 page
Castco LRN : DP0180104-090 TEN

Details as supplied by customer:-
Customer : TPY Ltd. Customer Ref. No. : --
Address : G/F., No. 120, Tung Tau Tsuen, Shap Pat Heung, Yeun Long, N.T. Hong Kong Contract no.: --
Job title : --
Sample Description : DN100 Ductile Iron Socket Spigot Short Pipe with Access Door
Grade : --
Manufacturer : TPY Ltd., Brand name: KING Origin : China
Acceptance standard: BS EN598 : 2007 + A1 : 2009 Clause 4.3.1

Laboratory test result:-
Date received : 04 January 2018 Date tested : 15 February 2018

Specimen Mark	Material designation		Gauge dia.	Cross-sect. Area,	Original gauge length,	Final gauge length,	0.2% Proof stress		Tensile Load		Elongation %	Compliance
	Symbol	Number	(mm)	(mm^2)	(mm)	(mm)	(kN)	(MPa)	(kN)	(MPa)		
DP0180104-090	--	--	5.16	20.9	40	44			10.1	483	10	C

Remarks :-
1. Legends : C - comply with acceptance standard. F - fail to comply with acceptance standard
2. Test results relate to the specimen tested only.
3. Test results of the sample comply with requirement of BSEN 598 : 2007 + A1 : 2009 Clause 4.3.1.

Checked by : SIT KWAN NING Laboratory Supervisor
Certified by : LEE WAI KWOK B.Sc., C. Eng., MICE, MHKIE Registered Professional Engineer Executive Director

End of Report

Form No. STL DUCT/CAST/TEN598(2009) T dd /15/10/2015 /18

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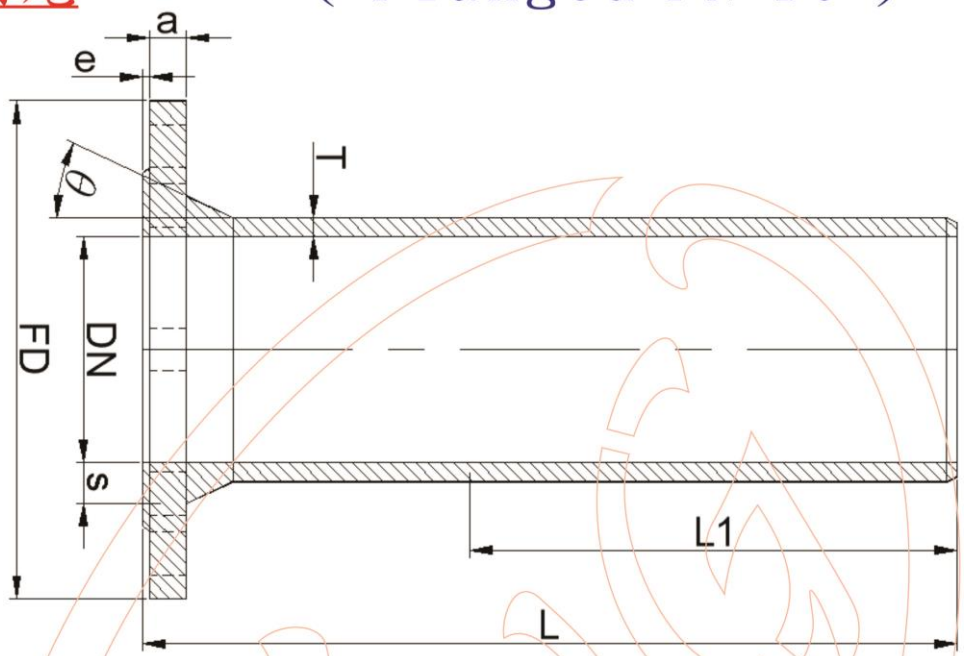
BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)

BS EN 598

全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Flanged Spigots
佛冷垌尾

(Flanged PN 16)



Size mm	DN mm	L mm	L1 mm	T mm	FD mm	a mm	e mm	s mm	θ mm
80	80	350	215	7.0	200	19	3	15	25
100	100	360	215	7.2	220	19	3	15	25
150	150	380	225	7.8	285	19	3	15	25
200	200	400	230	8.4	340	20	3	16	25
250	250	420	240	9.0	400	22	3	17.5	25
300	300	440	250	9.6	455	24.5	4	19.5	25
350	350	460	260	10.2	520	26.5	4	21	25
400	400	480	270	10.8	580	28	4	22.5	25
450	450	500	280	11.4	640	30	4	24	25
500	500	520	290	12.0	715	31.5	4	25	25
600	600	560	310	13.2	840	36	5	29	25
700	700	600	330	14.4	910	39.5	5	29.5	25

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ASIA DEVELOPMENT (HK) LIMITED

06/2021

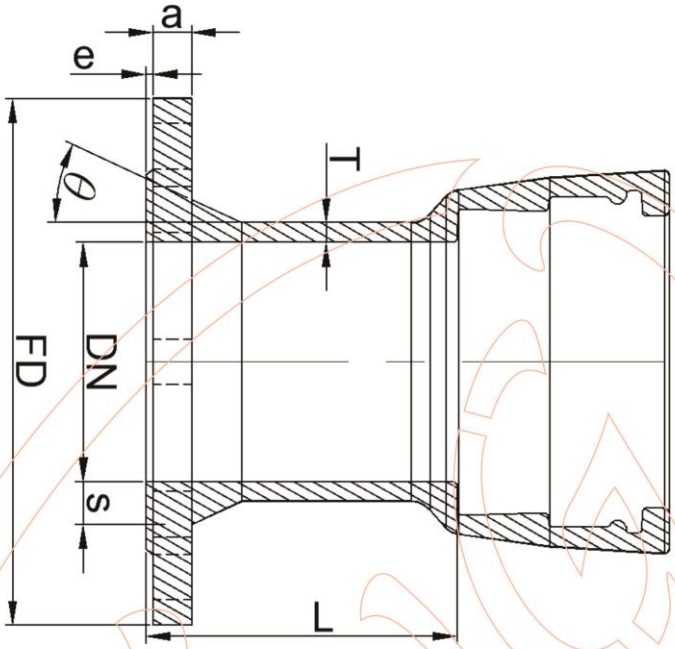
BS EN 598 Ductile Iron All Socket Fitting With Flexible Joint. (For Sewerage)

BS EN 598

全疏杰柔性膠圈接頭球墨鑄鐵排污配件

Flanged Sockets
佛冷梳杰

(Flanged PN 16)



Size mm	DN mm	L mm	T mm	FD mm	a mm	e mm	s mm	θ mm
80	80	130	7.0	200	19	3	15	25
100	100	130	7.2	220	19	3	15	25
150	150	135	7.8	285	19	3	15	25
200	200	140	8.4	340	20	3	16	25
250	250	145	9.0	400	22	3	17.5	25
300	300	150	9.6	455	24.5	4	19.5	25
350	350	155	10.2	520	26.5	4	21	25
400	400	160	10.8	580	28	4	22.5	25
450	450	165	11.4	640	30	4	24	25
500	500	170	12.0	715	31.5	4	25	25
600	600	180	13.2	840	36	5	29	25
700	700	190	14.4	910	39.5	5	29.5	25

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ASIA DEVELOPMENT (HK) LIMITED

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