



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

**ADDRESS** : 6/F., Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
地址 香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**ENQUIRY** : Dr Stephen LEE Shu-hang, Executive Director  
查詢 李樹恆博士，執行總裁

**TELEPHONE** : 2597 8333  
電話

**FAX** : 2597 8399  
傳真

**E-MAIL** : [info@castco.com.hk](mailto:info@castco.com.hk)  
電郵

**WEBSITE ADDRESS** : [www.castco.com.hk](http://www.castco.com.hk)  
網址

**CLIENTELE** : Public  
服務對象 公眾

**Castco Testing Centre Ltd.**  
佳力高試驗中心有限公司

**ADDRESS**

**地址**

- Main Laboratory** : 29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 29 號 A
- Branch Laboratories** : 6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓
- : 31, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 31 號
- Test Location at Zhongshan** : No. 68, Bijiaotou Group, Baiqi Village, Nanlang Street, Zhongshan City, Guangdong Province, China  
中國廣東省中山市南朗街道白企村碑角頭小組 68 號
- ACCREDITED TEST CATEGORIES** : Calibration Services 校正服務  
Chemical Testing 化學測試  
Chinese Medicine 中藥  
Construction Materials 建築材料  
Environmental Testing 環境測試  
Food 食品  
Miscellaneous 雜類  
Pharmaceutical Products 藥物  
Physical and Mechanical Testing 物理及機械測試

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- BRE screed tester	Verification in accordance with in-house method CAL-BRE for the dimensional and mass requirements as specified in BS 8204: Part 1: 1987: App. B2; or BS 8204: Part 1: 1999: Annex C2  Travel distance: 1000 mm Diameter of tool piece: 25.23 mm Mass of annular weight: 4.00 kg Depth measuring device: 0 to 10 mm	0.5 mm 0.02 mm 2.1 g 0.02 mm
- Cement grout flow cone	Verification in accordance with in-house method CAL-FLOW-CONE for the performance as specified in ASTM C939-02 Cl. 8, or ASTM C939-10 Cl. 9  Time of efflux of water from cone: 8.0 s	0.06 s
- Compacting bar	Verification in accordance with in-house method CAL-COMP-BAR for the dimensional and mass requirements as specified in CS1: 1990: Vol. 1 (Amd. 1102) App. A9; or CS1: 2010: Vol. 1 App. A10  Dimensions of ramming face: 25 mm x 25 mm Length: 380 mm Mass: 1.8 kg	0.02 mm 1 mm 2.1 g
- Covermeter	Calibration for depth of cover in accordance with in-house method CAL-COVER using a device as specified in BS 1881: Part 204: 1988 Cl. 6.2 (Method A) over the following range :  12 mm to 100 mm	1.5 mm

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)  - Cube mould	<p>Verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) App. A21 excluding A21.2(e); or CS1: 2010 Vol. 1 App. A25</p> <p style="padding-left: 40px;">Dimensions: 100 mm or 150 mm            Flatness: not more than 0.03 mm or 0.06 mm            Squareness: 0.5 mm            Parallelism: 1 mm</p> <p>On-site verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) App. A21 excluding A21.2(e); or CS1: 2010 Vol. 1 App. A25</p> <p style="padding-left: 40px;">Dimensions: 100 mm or 150 mm            Flatness: not more than 0.03 mm or 0.06 mm            Squareness: 0.5 mm            Parallelism: 1 mm</p> <p>Verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in BS 4550: Part 3: Section 3.4: 1978 Cl. 2.3.1.3</p> <p style="padding-left: 40px;">Dimension: 70.7 mm            Flatness: not more than 0.03 mm or 0.06 mm            Squareness: 0.5 mm</p> <p>On-site verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in BS 4550: Part 3: Section 3.4: 1978 Cl. 2.3.1.3</p> <p style="padding-left: 40px;">Dimension: 70.7 mm            Flatness: not more than 0.03 mm or 0.06 mm            Squareness: 0.5 mm</p>	<p>0.03 mm 0.007 mm 0.02 mm 0.06 mm</p> <p>0.03 mm 0.007 mm 0.02 mm 0.06 mm</p> <p>0.03 mm 0.007 mm 0.02 mm</p> <p>0.03 mm 0.007 mm 0.02 mm</p>

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Curing tank	On-site verification for the following parameters in accordance with in-house methods CAL-TANK-TEMP and CAL-TANK-CIR for the requirements as specified in CS1: 1990: Vol. 1 App. A24; or CS1: 2010: Vol. 1 App. A28	
	- temperature distribution at a range of (27 ± 3) °C	0.4 K
	- efficiency of circulation	0.5 min
- Cylinder mould	Verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A23 excluding A23.2 (e) and (f)	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Squareness: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm
	On-site verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A23 excluding A23.2 (e) and (f)	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Squareness: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)  - Cylinder mould (cont'd)	<p>Verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 2010: Vol. 1 App. A27</p> <p>Dimension: 150 mm to 300 mm            Flatness: 0.03 mm to 0.15 mm            Straightness: 0.5 mm            Perpendicularity: 1.0 mm            Parallelism: 1.0 mm</p> <p>On-site verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 2010: Vol. 1 App. A27</p> <p>Dimension: 150 mm to 300 mm            Flatness: 0.03 mm to 0.15 mm            Straightness: 0.5 mm            Perpendicularity: 1.0 mm            Parallelism: 1.0 mm</p>	<p>0.05 mm            0.007 mm            0.007 mm            0.02 mm            0.06 mm</p> <p>0.05 mm            0.007 mm            0.007 mm            0.02 mm            0.06 mm</p>
- Drying oven	<p>On-site verification of temperature at center, temperature variation and evaporation rate in accordance with AS 1289.0: 2000 Cl. 4.2.1 and 4.2.3 over the following range :</p> <p>Temperature: 105 °C to 110 °C            Evaporation rate at 105 °C to 110 °C:            10 g/hr to 50 g/hr</p> <p>On-site verification of temperature variation in accordance with in-house method CAL-OVEN2 over the following range :</p> <p>45 °C to 200 °C</p>	<p>1.0 °C            0.5 g/hr</p> <p>0.8 °C to 1.2 °C</p>

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Flow table for determination of flow of fresh concrete	<p>Verification in accordance with in-house method CAL-FLOW-TABLE for the dimensional and mass requirements as specified in            CS 1: 1990 Vol. 2 (Amd. 1206) App. E1;            CS 1: 2010 Vol. 1 App. A15.1; or            BS EN 12350-5: 2000 Cl. 4.1</p> <p>Dimensions of metal plate: 700 mm x 700 mm            Thickness of metal plate: minimum 2 mm            Diameter of central circle: 210 mm            Fall height: 40 mm            Mass: 16 kg</p>	<p>1 mm            0.06 mm            0.06 mm            0.06 mm            5 g</p>
- Friction tester (TRRL type portable skid- resistance tester)	<p>Verification in accordance with in-house method CAL-FRICTION-TESTER for the dimensional and mass requirements as specified in            BS EN 1097-8: 2000 Cl. 7.3.2.1, 7.3.2.6, 7.3.2.8 to 7.3.2.11 and Annex D</p> <p>Dimensions: 10 mm to 600 mm            Mass: 0.01 kg to 20 kg            Movement: 0.5 mm to 200 mm            Static force/deflection: 21.0 N/mm to 23.4 N/mm</p>	<p>1 mm            0.6 g            0.07 mm            0.007 N/mm</p>

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Heat soak oven	<p>On-site calibration in accordance with            BS EN 14179-1: 2005 Annex A            for the temperature and time as listed in            Section 18(e) of Buildings Department APP-37            (May 2012)</p> <p>Temperature: 0 °C to 320 °C            Time: 2 hrs to 20 hrs</p> <p>On-site calibration in accordance with            BS EN 14179-1: 2016 Annex A            for the temperature and time as listed in            Section 9.3.1(5) &amp; section 9.3.2 of            Buildings Department Code of Practice for            Structural Use of Glass 2018</p> <p>Temperature: 0 °C to 290°C            Time: 2 hrs to 20 hrs</p>	<p>2.0 °C            8.2 min</p> <p>2.0 °C            8.2 min</p>
- Metal mould for determination of flow of fresh concrete	<p>Verification in accordance with            in-house method CAL-FLOW-MOULD            for the dimensional requirements            as specified in            CS 1: 1990: Vol.2 (Amd. 1206) App. E2;            CS 1: 2010: Vol 1. App. A15.2; or            BS EN 12350-5: 2000 Cl. 4.2</p> <p>Internal diameter of top: 130 mm            Internal diameter of base: 200 mm            Height: 200 mm            Thickness of metal: 1.5 mm</p>	<p>0.5 mm            0.5 mm            0.5 mm            0.03 mm</p>
- Mixer	<p>On-site calibration in accordance with            in-house method CAL-MIXER-SPD            for rotation speed of mixing blade and mixing            bowl over the following range :</p> <p>100 rpm to 2000 rpm</p>	<p>1.2 rpm</p>

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Rebound hammer	Calibration for rebound value in accordance with in-house method CAL-HAM using an anvil complying with BS EN 12504-2: 2001 Cl. 4.2	0.7 rebound count
	Calibration for the friction of rider in accordance with in-house method CAL-HAM over the following range :	
	0.49 N to 0.78 N	0.016 N
- Rolling type straightedge for road surface irregularity measurement	Calibration for depression in accordance with in-house method CAL-ROLLING over the following range :	
	1 mm to 10 mm	0.22 mm
- Slump cone	Verification in accordance with in-house method CAL-SLUMP-CONE for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A4; or CS 1: 2010: Vol. 1 App. A5	
	Height: 300 mm	0.6 mm
	Wall thickness: minimum 1.5 mm	0.07 mm
	Internal diameter of base: 200 mm	0.07 mm
	Internal diameter of top: 100 mm	0.07 mm

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment (cont'd)		
- Tamping bar for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOW-TAMPBAR for the dimensional requirements as specified in CS1: 1990: Vol. 2 (Amd. 1206) App. E3; CS1: 2010: Vol.1 App. A15.3; or BS EN 12350-5: 2000 Cl. 4.3  Dimensions of square section: 40 mm x 40 mm Length of square section: 200 mm Length of circular handle: 120 mm to 150 mm	0.02 mm 1 mm 1 mm
- Tamping rod	Verification in accordance with in-house method CAL-TAMP-ROD for the dimensional requirements as specified in CS1: 1990: Vol. 1 (Amd. 1102) App. A5; or CS1: 2010: Vol. 1 App. A6  Diameter: 16 mm Length: 600 mm	0.02 mm 1 mm
- Test sieve aperture size greater than 4 mm	Verification in accordance with in-house method CAL-SIEVE-PER for the dimensional requirements as specified in BS 410: 1986  Aperture size: 4 mm to 125 mm Pitch of hole: 5.8 mm to 160 mm Bridge width: 0.9 mm to 17.5 mm Plate thickness: 0.8 mm to 4.0 mm  Verification in accordance with in-house method CAL-SIEVE-PER for the dimensional requirements as specified in BS 410-2: 2000; or ISO 3310-2: 1999  Hole: 4 mm to 125 mm Pitch: 4.9 mm to 184 mm Plate thickness: 0.8 mm to 3.5 mm	0.03 mm 0.03 mm 0.03 mm 0.03 mm   0.03 mm 0.03 mm 0.03 mm

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED®</b> 特定測試或量度的特性®	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
Electrical measurements  - Time and frequency measuring instruments  - Stop watch / Timer	Calibration for time in accordance with in-house method CAL-TIMER over the following ranges :  1 s to 1800 s above 1800 s to 3600 s	0.1 s 2 s

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements  - Angle measurements  - Try square  - Square with inner length of blade from 25 mm to 160 mm - Square with inner length of blade above 160 mm to 600 mm  - Form measurements  - Straight edge  - Length of straight edge from 50 mm to 600 mm	Calibration for deviation from squareness in accordance with in-house method CAL-SQUARE over the following ranges :  20 µm to 1000 µm  20 µm to 1000 µm   Calibration for straightness of working area in accordance with in-house method CAL-STR-EDGE over the following range :  20 µm to 1000 µm	9 µm  25 µm          11 µm

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements		
- Calliper	Calibration for length in accordance with in-house method CAL-CALLIPER-DVR over the following ranges :	
- Dial type:	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	25 µm 41 µm
- Digital type :	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	15 µm 35 µm
- Vernier type :	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	25 µm 41 µm
- Coating thickness measuring device	Calibration for thickness in accordance with in-house method CAL-ELCO over the following ranges :	
	12.5 µm to 50 µm above 50 µm to 1.0 mm above 1.0 mm to 1.5 mm	1.4 µm 2.2 µm 2.6 µm
- Dial gauge	Calibration for length using gauge blocks in accordance with BS 907: 2008 Cl. 9 and Annex B over the following ranges :	
	0.002 mm to 13 mm above 13 mm to 50 mm above 50 mm to 80 mm	1.4 µm 6.2 µm 6.3 µm
	Calibration for length using micrometer head in accordance with BS 907: 2008 Cl. 9 and Annex B over the following ranges :	
	0.002 mm to 5 mm above 5 mm to 80 mm	7 µm 9 µm

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED<sup>®</sup></b> 特定測試或量度的特性 <sup>®</sup>	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)<sup>*</sup></b> 校準和測量能力 <sup>*</sup>
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Displacement transducer	Calibration for length in accordance with GEOSPEC 3: 2001 App. A Cl. A.3.4 over the following ranges :	
	0.5 mm to 13 mm	1.4 µm
	above 13 mm to 25 mm	1.9 µm
	above 25 mm to 50 mm	1.9 µm
- Linear variable displacement transducer (LVDT)	Calibration for length in accordance with in-house method CAL-LIN-DISP over the following ranges :	
	0.5 mm to 10 mm	1.4 µm
	above 10 mm to 100 mm	8 µm
- Engineer's steel measuring rule	Calibration for length in accordance with in-house method CAL-ST-RULE over the following range :	
	0.01 m to 2 m	0.3 mm

<sup>®</sup> Unless otherwise specified, accredited activities are conducted at the laboratory.

<sup>\*</sup> The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Extensometer	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 (excluding the determination of calibration factor) over the following ranges :	
- Grade A with gauge length from 100 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Grade B with gauge length from 50 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Grade C with gauge length from 25 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Grade D with gauge length from 25 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Extensometer	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN ISO 9513: 2012 + Cor. May 2013; ISO 9513: 2012 + Cor. 1: 2013; BS EN ISO 9513: 2002; over the following range :	
- Class 0.5 with gauge length from 25 mm to 500 mm	0.003 mm to 50 mm	0.7 µm to 20 µm

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED<sup>®</sup></b> 特定測試或量度的特性 <sup>®</sup>	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)<sup>*</sup></b> 校準和測量能力 <sup>*</sup>
Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- External micrometer	Calibration for length in accordance with BS 870: 2008 Annex. A Cl. A.6 & A.7 over the following range :  0.5 mm to 100 mm	2 µm
- Feeler gauge	Calibration for mean thickness in accordance with in-house method CAL-FEELER-ACC over the following range :  0.03 mm to 5.00 mm	3 µm
- Levelling staff	Calibration for length in accordance with in-house method CAL-LEVEL-STAFF over the following range :  0.1 m to 5 m	1.0 mm
- Measuring tape	Calibration for length in accordance with in-house method CAL-MTAPE over the following range :  0.1 m to 150 m	0.3 mm per 5 m
- Microscope	Calibration for length in accordance with in-house method CAL-MICROSCOPE over the following range :  0.1 mm to 8 mm	13 µm

<sup>®</sup> Unless otherwise specified, accredited activities are conducted at the laboratory.

<sup>\*</sup> The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
 香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED <sup>®</sup> 特定測試或量度的特性 <sup>®</sup>	CALIBRATION AND MEASUREMENT CAPABILITY (CMC) <sup>*</sup> 校準和測量能力 <sup>*</sup>
<p>Length and related measurements (cont'd)</p> <p>- Length measurements (cont'd)</p> <p>- Plastic calibration foil</p> <p>- Steel measuring tape</p>	<p>Calibration for thickness in accordance with in-house method CAL-ELCO-FOILS over the following ranges :</p> <p>12.5 µm to 50 µm            above 50 µm to 1000 µm            above 1000 µm to 1500 µm</p> <p>Calibration for length in accordance with in-house method CAL-MTAPE over the following range :</p> <p>0.1 m to 150 m</p>	<p>3.0 µm            3.4 µm            3.9 µm</p> <p>0.3 mm per 5 m</p>

<sup>®</sup> Unless otherwise specified, accredited activities are conducted at the laboratory.

<sup>\*</sup> The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED<sup>@</sup></b> 特定測試或量度的特性 <sup>@</sup>	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
Mass and related measurements		
- Force measurements		
- Compression testing machine	<p>On-site calibration for compressive force using Grade 0.5 / Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175); or BS 1610: Part 1: 1992 (constant true force method or indicated force method for above two standards) over the following range :</p> <p>0.05 kN to 3000 kN</p>	0.04 % to 1.2 % of reading
	<p>On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for the above two standards) over the following range :</p> <p>0.05 kN to 3000 kN</p>	0.04 % to 1.2 % of reading
- Concrete testing machine	<p>On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification for class in accordance with BS EN 12390-4: 2000 Annex B (constant true force method or indicated force method) over the following range :</p> <p>0.05 kN to 3000 kN</p>	0.04 % to 1.2 % of reading

<sup>@</sup> Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED®</b> 特定測試或量度的特性®	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
Mass and related measurements  - Force measurements (cont'd)  - Concrete testing machine (cont'd)	On-site calibration for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (Amd. 6536) App. A; CS 1: 1990: Vol. 2 App. D; BS EN 12390-4: 2000 Annex A & Table 3; or CS 1: 2010: Vol. 2 App. D over the following range of compressive force:  200 kN to 2000 kN	0.03 strain ratio
- Force measuring device	Calibration for compressive force in accordance with GEOSPEC 3: 2001 App. A Cl. A.3.1 over the following ranges :  0.05 kN to 1 kN above 1 kN to 20 kN above 20 kN to 100 kN  Calibration for compressive force in accordance with in-house method CAL-FMD over the following ranges :	2 % to 3 % of reading 1 % of reading 0.3 % of reading  1.3 % of reading 1.0 % of reading 0.3 % of reading 0.6 % of reading

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)  - Force measurements (cont'd)  - Force measuring device for pile tests - load cell  - Force measuring device for pile tests - load cell with hydraulic jack  - Force measuring device for site tests - load cell  - Force measuring device for site tests - load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL-LOAD-BSEN over the following ranges :  500 kN to 1000 kN above 1000 kN to 2000 kN above 2000 kN to 10000 kN  Calibration for compressive force in accordance with in-house method CAL-FMD+JACK over the following ranges :  500 kN to 1000 kN above 1000 kN to 14000 kN  Calibration for compressive force in accordance with in-house method CAL-LOAD-BSEN (SML) over the following ranges :  2 kN to 50 kN above 50 kN to 200 kN above 200 kN to 1000 kN  Calibration for compressive force in accordance with in-house method CAL-LOAD+JACK(SML) over the following ranges :  2 kN to 50 kN above 50 kN to 200 kN above 200 kN to 1000 kN	1.9 % of reading 1.4 % of reading 1.0 % of reading  1.0 % of reading 0.6 % of reading  2.0 % of reading 1.5 % of reading 1.0 % of reading  2.0 % of reading 1.5 % of reading 1.0 % of reading

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)  - Force measurements (cont'd)  - Pull out tester           - Static uniaxial force testing machine (compression mode)	Calibration for pull out force in accordance with in-house method CAL-PULL-OT over the following ranges :  0.05 kN to 0.2 kN above 0.2 kN to 2 kN above 2 kN to 100 kN      On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004; BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for above three standards) over the following range :  0.05 kN to 3000 kN	2 % of reading 1 % of reading 0.5 % of reading           0.04 % to 2 % of reading
- Static uniaxial force testing machine (tension mode)	On-site calibration for tension force using Class 0.5/ Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004; BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for above three standards) over the following range :  0.2 kN to 2000 kN	0.3 % of reading

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED<sup>®</sup></b> 特定測試或量度的特性 <sup>®</sup>	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)<sup>*</sup></b> 校準和測量能力 <sup>*</sup>
Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Universal testing machine (compression mode)	On-site calibration for compressive force using Grade 0.5 / Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175); or BS 1610: Part 1: 1992 (constant true force method or indicated force method for above two standards) over the following range :	0.04 % to 1.2 % of reading
- Universal testing machine (tension mode)	On-site calibration for tension force using Grade 0.5/Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175) (constant true force method or indicated force method) over the following range :	0.3 % of reading

<sup>®</sup> Unless otherwise specified, accredited activities are conducted at the laboratory.

<sup>\*</sup> The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
- Hardness measurements  - Hardness testing machine (Brinell hardness)	On-site indirect calibration for Brinell hardness scales in accordance with BS EN ISO 6506- 2: 1999 Cl. 5 and Annex A; BS EN ISO 6506-2: 2005 Cl. 5; at the following specific values :  HB 187.5 HB 250 HB 750 HB 1000 HB 3000	1.6 % of reading 1.2 % of reading 1.2 % of reading 1.4 % of reading 1.2 % of reading
- Hardness testing machine (Rockwell hardness)	On-site indirect calibration for Rockwell hardness scales in accordance with BS EN ISO 6508-2: 1999 Cl. 5; BS EN ISO 6508-2: 2005 Cl. 5; OR at the following ranges :  55 HRA to 83 HRA 40 HRB to 94 HRB 26 HRC to 63 HRC	0.8 HRA 1.2 HRB 0.7 HRC
- Hardness testing machine (Vickers hardness)	On-site indirect calibration for Vickers hardness scales in accordance with BS EN ISO 6507-2: 1998 Cl. 5 and Annex A; BS EN ISO 6507-2: 2005 Cl. 5; at the following ranges :  223 HV 5 to 761 HV 5 187 HV 10 to 733 HV 10 166 HV 30 to 763 HV 30	2.1 % of reading 2.2 % of reading 2.1 % of reading

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)  Mass measurements  - Balance	Calibration for mass in accordance with in-house method CAL-BAL-NMI using OIML Class F1 weights from 1 mg to 100 kg over the following range :  1 mg to 100 kg  On-site calibration for mass in accordance with in-house method CAL-BAL-NMI using OIML Class F1 weights from 1 mg to 100 kg over the following range :  1 mg to 100 kg	0.6 mg to 1.1 g  0.6 mg to 1.1 g
- Weight	Calibration for mass in accordance with in-house method CAL-WEIGHTS-NMI over the following ranges :  1 mg to 20 g above 20 g to 100 g above 100 g to 1 kg above 1 kg to 5 kg above 5 kg to 20 kg	0.06 mg to 0.1 mg 0.2 mg 1.5 mg to 2.6 mg 12 mg to 16 mg 1.1 g

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED®</b> 特定測試或量度的特性®	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
Mass and related measurements (cont'd)		
- Pressure measurements		
- Pressure gauge and pressure transducer (bourdon tube types or transducer types)	Calibration for gauge pressure in accordance with in-house method CAL-PRESSURE; or GEOSPEC 3: 2001 App. A Cl. A.3.2 using reference pressure transducer with water as pressure medium over the following range :	0.2 % FS
- Bourdon tube pressure gauge	Calibration for gauge pressure in accordance with BS 1780: 1985 Cl. 7; or BS EN 837-1: 1998 Cl. 10.2 using dead-weight tester with nitrogen gas as pressure medium over the following ranges :	0.3 % FS 0.3 % FS
	Calibration of gauge pressure in accordance with BS 1780: 1985 Cl. 7; or BS EN 837-1: 1998 Cl. 10.2 using reference pressure transducer with water as pressure medium over the following range :	0.2 % FS

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Mass and related measurements (cont'd)  - Pressure measurements (cont'd)  - Pressure transducer	Calibration of gauge pressure in accordance with in-house method CAL-PRESSURE-1780 using dead-weight tester with nitrogen gas as pressure medium over the following ranges :  20 kPa to 1000 kPa above 1000 kPa to 3500 kPa  Calibration of gauge pressure in accordance with in-house method CAL-PRESSURE-1780 using reference pressure transducer with water as pressure medium over the following range :  20 kPa to 1000 kPa	0.3 % FS 0.3 % FS          0.2 % FS
- Vacuum pressure gauge	Calibration of pressure in accordance with in-house method CAL-VAC over the following range :  0 kPa to to 101 kPa	1.1 kPa

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED®</b> 特定測試或量度的特性®	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
Mass and related measurements (cont'd)  - Volume measurements  - Volume change measuring device (burette type or transducer type)   - Volumetric glassware	Calibration for volume change in accordance with in-house method CAL-VOL-CHG; or GEOSPEC 3: 2001 App. A Cl. A.3.3 over the following range :  1 ml to 90 ml   Calibration for contained capacity with temperature corrections specified in BS 1797: 1987 in accordance with in-house method CAL-MEACON-VOL over the following range :  1 ml to 1000 ml	0.2 ml            0.14 ml to 7 ml

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature and humidity measurements  - Temperature measurements  - Dial thermometer	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  -15 °C to 100 °C above 100 °C to 200 °C above 200 °C to 320 °C  Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  8 °C to 85 °C	0.7 °C 3.0 °C 6.1 °C          0.6 °C
- Digital thermometer	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  -15 °C to 100 °C above 100 °C to 200 °C above 200 °C to 320 °C  Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  8 °C to 85 °C	0.3 °C 0.7 °C 2.0 °C          0.15 °C

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature and humidity measurements (cont'd)  - Temperature measurements (cont'd)  - Liquid in glass thermometer (LIGT)	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  -15 °C to 100 °C above 100 °C to 200 °C  Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  8 °C to 85 °C	0.32 °C 0.72 °C  0.16 °C
- Digital thermometer with PRT sensor	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  -15 °C to 100 °C above 100 °C to 200 °C above 200 °C to 320 °C	0.3 °C 0.7 °C 2.0 °C

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Temperature and humidity measurements (cont'd)  - Temperature measurements (cont'd)  - Temperature recorder with sensors	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  -15 °C to 100 °C above 100 °C to 200 °C  Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  8 °C to 85 °C	0.4 °C 0.8 °C  0.32 °C
- Digital thermometer with thermocouple sensor	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  -15 °C to 100 °C above 100 °C to 200 °C above 200 °C to 320 °C  Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :  8 °C to 85 °C	0.32 °C 0.70 °C 2.0 °C  0.24 °C

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Calibration Services 校正服務</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED®</b> 特定測試或量度的特性®	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
Temperature and humidity measurements (cont'd)  - Humidity measurements  - Hygrometer / psychrometer          - Conditioning chamber	Calibration of humidity and temperature using conditioned chamber in accordance with in-house method CAL-THER-HYGRO over the following ranges :  30 % RH to 95 % RH 23 ± 2 °C   On-site calibration of humidity and temperature in accordance with in-house method CAL-WKN-CHAMBER over the following range :  30 % RH to 95 % RH 23 ± 2 °C	4.4 % RH 1.0 °C          3.6% RH 0.8 °C

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Adhesive	Pull-off test of repair mortar  Pull-off test of tiles  Pull-off test of concrete	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1  Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 7.11 In-house method PULL.TILE  Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.1.3



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates	Sampling  Particle size distribution  Flakiness index  Elongation index  Methylene blue value  Los Angeles value  Aggregate impact value  Ten per cent fines value  Particle densities and water absorption  Moisture content  Soundness  Drying shrinkage  Effect of organic substances by mortar method  Alkali silica reaction potential by ultra-accelerated mortar-bar test  Aggregate crushing value	BS 812: Part 102: 1989 CS3: 2013 Section 8  BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 + Amd. 1/2013 Section 10 (by sieve analysis)  BS 812: Section 105.1: 1989 CS3: 2013 Section 11  BS 812: Section 105.2: 1990 CS3: 2013 Section 12  CS3: 2013 Section 13  CS3: 2013 Section 14  BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15  BS 812: Part 111: 1990 CS3: 2013 Section 16  BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17  BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)  BS 812: Part 121: 1989 CS3: 2013 Section 19  CS3: 2013 Section 20  CS3: 2013 + Amd. 1/2016 Section 22  ASTM C1260-94 CS1: 2010 + Amd. 1/2013 Section 22 RILEM TC 106-2: 2000  BS 812: Part 110: 1990

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (cont'd)	Bulk density, voids and bulking  Clay, silt and dust content  Compacting fraction value of aggregates for granular bed  Foreign material content in recycled aggregates  Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine  Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine  Shell content in coarse aggregates	BS 812: Part 2: 1995  BS 812: Part 1: 1975 + Amd. 4875 & 6587 (by decantation method)  General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2  Building Research Establishment Digest 433 (Nov 1998)  ASTM C131-81 with modification ASTM C131-96 with modification  ASTM C535-81 with modification ASTM C535-96 with modification  BS 812: Part 106: 1985

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials	Bitumen content of bituminous paving materials by ignition method  Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method  Bulk specific gravity and density of non-absorptive compacted bituminous mixtures  Mechanical size analysis of extracted aggregate  Percent air voids in compacted dense bituminous paving mixtures  Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method  Quantitative extraction of bitumen from bituminous paving mixtures  Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing  Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16  ASTM D6752/D6752M-11 with modification ASTM D6752/D6752M-18 with modification  ASTM D2726-96a ASTM D2726/D2726M-14 with modification  ASTM D5444-15 with modification  ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17  ASTM D2172-95 Method A & ASTM D6307-98 ASTM D2172-95 Method A & ASTM D6307-05 ASTM D2172/D2172M-17 Method A & ASTM D6307-16 Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B  ASTM D2172-95 (Method A using ashing method) with modifications ASTM D2172/D2172M-17 (Method A using ashing method) with modifications  ASTM C117-95 ASTM C117-13 ASTM C136-96a with modifications ASTM C136/C136M-14 with modifications  ASTM D2041-95 (Weighing in water method using type A container) with modifications ASTM D2041/D2041M-11 (Weighing in water method) with modifications

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Bituminous materials (cont'd)	Thickness or height of compacted asphalt mixture specimens	ASTM D3549-93a excluding Cl. 6.2 & 6.3 ASTM D3549/D3549M-17 excluding Cl. 7.3 & 7.4
Blocks & Bricks	Viscosity of asphalt binder using rotational viscometer  Compressive strength of interlocking blocks  Compressive strength of masonry units  Compressive strength of precast concrete masonry units  Compressive strength of precast concrete paving blocks  Compressive strength of clay bricks  Dimensions of precast concrete masonry units  Dimensions of precast concrete paving block  Dimensions of clay bricks  Dimensions of clay and calcium silicate pavers  Skid resistance value of clay and calcium silicate pavers  Skid resistance test of clay and calcium silicate pavers	AASHTO T316-06 with modification AASHTO T316-13 (2017) with modification  General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1 Hong Kong Housing Authority Specification (2022) EXT3.T110.9 - T150.9  BS EN 772-1: 2011 + A1: 2015 excluding Cl. 7.3.4  BS 6073: Part 1: 1981 App. B  BS 6717: Part 1: 1993 Annex B  BS 3921: 1985 App. D  BS 6073: Part 1: 1981 App. A  BS 6717: 2001 Annex B  BS 3921: 1985 App. A  BS 6677: Part 1: 1986 App. A & C BS EN 1344: 2002 Annex B  BS 6677: Part 1: 1986 App. E BS EN 1344: 2002 Annex F  ASTM E303-93 (Reapproved 1998)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Blocks & Bricks (cont'd)	Transverse strength of precast concrete masonry units  Transverse breaking load of clay and calcium silicate pavers  Water absorption of masonry units, segmental pavers and flags  Water absorption of concrete flags, kerbs, channels and edgings  Water absorption of clay bricks  Water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units  Net and gross dry density of masonry units  Dimension of masonry units  Bending strength of paving flags	BS 6073: Part 1: 1981 App. C  BS 6677: Part 1: 1986 App. D BS EN 1344: 2002 Annex D  AS/NZS 4456.14: 1997 AS/NZS 4456.14: 2003  BS 7263: Part 1: 1994 Annex C  BS 3921: 1985 App. E  BS EN 772-11: 2011  BS EN 772-13: 2000  BS EN 772-16: 2011  BS EN 1339: 2003 Annex F
Cement & Portland pulverised fuel ash cement (PPFAC)	Sampling  Compressive strength of broken mortar prisms in the force range 4 kN - 250 kN  Density  Fineness  Flexural strength of mortar prisms  Setting times	BS EN 196-7: 2007  BS EN 196-1: 2005 BS EN 196-1: 2016  BS EN 196-6: 2010 Annex NC BS EN 196-6: 2018 Annex NC  BS EN 196-6: 2010 (by Blaine method) BS EN 196-6: 2018 (by Blaine method)  BS EN 196-1: 2005 BS EN 196-1: 2016  ASTM C191-92 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement & Portland pulverised fuel ash cement (PPFAC) (cont'd)	Soundness  Standard consistence	BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016  BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers
Coating	Dry-film coating thickness by wedge cut method  Coating thickness by magnetic method  Pull-off test of coating   Mass per unit area of hot dip galvanized coating by gravimetric method	ASTM D4138-07a (Reapproved 2022) Procedure A BS EN 2808: 2019 Method 6B  BS EN ISO 2178: 1995  In-house Method PULL.COAT In-house Method PULL-COAT-SQ&REC ASTM D4541-02 Test Method C & Method E ASTM D4541-17 Test Method C & Method E ASTM D7234-19 BS 3900-E10: 2003 Cl. 9.4.2 BS EN ISO 4624: 2003 Cl. 9.4.2  BS 729: 1971 App. A BS 2989: 1991 App. A BS EN 10346: 2015 Annex A BS EN ISO 1460: 1995 BS EN ISO 1460: 2020 in conjunction with following specification(s): BS 2989: 1991 Cl. 3.3 BS EN 10346: 201 5 Cl. 8.5.5.1

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete	Sampling fresh concrete on site  Slump of fresh concrete  Compacting factor of fresh concrete  Flow table test  Slump flow test  Stiffening time of fresh concrete  Density of compacted fresh concrete  Air content of fresh concrete  Making test cubes from fresh concrete  Making test beams from fresh concrete  Making test cylinders from fresh concrete  Curing of test specimens  Mixing and sampling of fresh concrete  Compressive strength of concrete cubes in the force range 10 kN - 3000 kN  Tensile splitting strength of cylindrical specimens  Flexural strength of concrete test beams  Obtaining core samples  Compressive strength of concrete cores in the force range 10 kN - 3000 kN  Density of hardened concrete  Depth of penetration of water under pressure	CS1: 2010 + Amd. 1/2017 Section 1  CS1: 2010 + Amd. 1/2017 Section 2 Part I  CS1: 2010 Section 2 Part II  CS1: 2010 Section 2 Part IV  CS1: 2010 Section 2 Part V  CS1: 2010 + Amd. 1/2013 Section 3  CS1: 2010 Section 5  CS1: 2010 Section 6  CS1: 2010 Section 7  CS1: 2010 Section 8  CS1: 2010 + Amd. 1/2013 Section 9  CS1: 2010 Section 10  CS1: 2010 Section 11  CS1: 2010 + Amd. 1/2013 Section 12  CS1: 2010 + Amd. 1/2013 Section 13  CS1: 2010 Section 14  CS1: 2010 + Amd. 1/2013 Section 15  CS1: 2010 + Amd. 1/2013 Section 15  CS1: 2010 Section 16  CS1: 2010 Section 18

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (cont'd)	<p>Concrete's ability to resist chloride ion penetration</p> <p>Assessment of the cement, aggregates and water contents of fresh concrete</p> <p>Bleeding test</p> <p>Estimating concrete strength by the maturity method</p> <p>Flexural toughness and first-crack strength of fiber-reinforced concrete</p> <p>Temperature measurement of the fresh concrete</p> <p>Temperature monitoring of fresh concrete</p> <p>Water absorption</p> <p>Monitoring of setting time of fresh concrete</p> <p>Removal of concrete cover to expose reinforcement</p> <p>Reinforcement survey</p> <p>Crack survey</p>	<p>AASHTO T277-07            ASTM C1202-05            ASTM C1202-07            CS1: 2010 Section 19</p> <p>DD 83: 1983 Sections 2 &amp; 3(Pressure filter Sandberg method)</p> <p>ASTM C232/C232M-21</p> <p>ASTM C1074-19e1 Cl. 6, 7, 8.2, 8.5 -8.6, 8.8, 9.1-9.4</p> <p>ASTM C1018-94b            ASTM C1018-97</p> <p>BS 5328: Part 4: 1990 Cl. 3.4(b)            in conjunction with the following specification:            BS EN 206: 2013 + A2: 2021 Cl. 5.2.9</p> <p>In-house method SITE-CON-TEMP            In-house method (HY-MON)</p> <p>BS 1881: Part 122: 2011</p> <p>Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 1.3.9</p> <p>Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.2.1</p> <p>Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.3.13</p> <p>Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.3.14</p>



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Concrete (cont'd)	Dry cutting of mini-cores  Cutting of stitch cores  Obtaining drilling powder samples  Suitability of water for making concrete (strength and setting time)	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.2  Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.3  Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.4  BS EN 196-1: 1995 BS EN 196-3: 1995 in conjunction with the following specification: BS EN 1008: 2002 Cl. 4.4

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (diagnostic)	Carbonation accelerating test  Carbonation test  Covermeter survey  Half-cell potential measurement  Resistivity measurement  Surface hardness measurement  Ultrasonic pulse velocity measurement (direct & semi-direct transmissions)  Infrared thermography for detection of building surface defects  Infrared thermography survey on membrane for roof  Surface penetration radar survey for determination of concrete cover and distribution of steel reinforcement  Spark test for basement waterproofing	GB/T 50082-2009 Cl. 11 with modification  BS EN 14630: 2006 Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)  BS 1881: Part 204: 1988 Cl. 7.3  ASTM C876-91 (Method A and B for Pre-Wetting) ASTM C876-09 (Method A and B for Pre-Wetting) ASTM C876-15  BS 1881: Part 201: 1986 Cl. 2.3 Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance & Building Materials Specification Part D Cl. 4.3.6  BS 1881: Part 202: 1986 Cl. 6 BS EN 12504-2: 2012 BS EN 12504-2: 2021  ASTM C597-16 BS 1881: 203: 1986 BS EN 12504-4: 2004 BS EN 12504-4: 2021  Hong Kong Concrete Institute TM1 Issue 2 (2022) + Amd. 1/2024  In-house method NDT-IRT-SUR-WT  Hong Kong Concrete Institute TM2 (2009)  Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance & Building Materials Specification Part D Cl. 10.6

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Dimension stones	Absorption and bulk specific gravity  Compressive strength  Flexural strength  Modulus of rupture  Strength of individual stone anchorages	ASTM C97-18  ASTM C170-24a  ASTM C880-24  ASTM C99-24  ASTM C1354-22
Doors	Dimensional accuracy and squareness of door leaves  General flatness and evenness of door leaves  Behaviour under humidity variations of door leaves  Resistance to impact (hard body) of doorsets  Resistance to torsion of door leaves  Strength in the plane of the door leaves	BS 5278: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(f) Test No. 1 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(f) Test No. 1  BS 5277: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(g) Test No. 2 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(g) Test No. 2  BS 5369: 1987 (BS EN 43) in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(h) Test No. 3 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(h) Test No. 3  Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(i) Test No. 4 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(i) Test No. 4  Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(j) Test No. 5 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(j) Test No. 5  Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(k) Test No. 6 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(k) Test No. 6

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Doors (cont'd)	Slamming open of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(l) Test No. 7 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(l) Test No. 7
	Slamming close of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(m) Test No. 8 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(m) Test No. 8
	Resistance to jarring and vibration of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(n) Test No. 9 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(n) Test No. 9
	Resistance to impact (heavy body) of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(o) Test No. 10 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(o) Test No. 10
	Resistance to closing against an obstruction of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(p) Test No. 11 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(p) Test No. 11

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Doors (cont'd)  - Ironmongery  - Lever Handle Furniture and Locks	Strength of return mechanism  Strength of Furniture and methods of fixing  Durability of mechanism  Repeat of strength of furniture and methods of fixing  Repeat of strength of retune mechanism  Freedom of operation of follower, knob and spring bolt action in rim and mortice locks and latches  Strength of bolt spring  Strength of follower or cam, knob, spring bolt and stopping medium in rim and mortice locks and Latches  Dead bolt against end pressure  Operation of security mechanism  Strength of keys  Spring bolt through follower or knob  Spring bolt through striking plate or staple  Strength of lock or latch case, forend and bolt  Strength of striking plate	BS 4951: 1973 App. B.2  BS 4951: 1973 App. B.3  BS 4951: 1973 App. B.4  BS 4951: 1973 App. B.5  BS 4951: 1973 App. B.6  BS 5872: 1980 A.2  BS 5872: 1980 A.6  BS 5872: 1980 A.7  BS 5872: 1980 A.13  BS 5872: 1980 A.14  BS 5872: 1980 A.15  BS 5872: 1980 A.16  BS 5872: 1980 A.17  BS 5872: 1980 A.19  BS 5872: 1980 A.21

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Door closers	<p>Mechanical performance and durability test of overhead door closers – Test Sample B :</p> <ul style="list-style-type: none"> <li>- Set test door to required mass for strength of closer on tester</li> <li>- Open door to determine maximum opening angle</li> <li>- Cycle opening to 90<sup>0</sup> and allowing to close to 0<sup>0</sup>, in a time of 3 to 7 seconds, 5000 times</li> <li>- Measure torques and calculate efficiency over region 0<sup>0</sup> to 4<sup>0</sup></li> <li>- Measure closing time</li> <li>- Closing overload test of closer on tester</li> <li>- All closers cycle for a total of 500,000 cycles. Measuring closing time</li> <li>- Calculate efficiency over region 0<sup>0</sup> to 4<sup>0</sup> after 500,000 cycles</li> <li>- Measure closing time after 500,000 cycles</li> <li>- Closing overload test after 500,000 cycles</li> </ul> <p>Corrosion resistance test of overhead door closer – Test Sample C :</p> <ul style="list-style-type: none"> <li>- Set test door to required mass for strength of closer on test</li> <li>- Measure opening and closing torque</li> <li>- Expose to neutral salt spray</li> <li>- Measure closing moment after NSS Test</li> </ul>	<p>BS EN 1154: 1997 Cl. 7.3.1 para. 1</p> <p>BS EN 1154: 1997 Cl. 7.3.1 para. 2 &amp; Cl. 5.2.7</p> <p>BS EN 1154: 1997 Cl. 7.3.3.1</p> <p>BS EN 1154: 1997 Cl. 7.3.4.1, 7.3.4.2 &amp; Cl. 5.2.3 to 5.2.5</p> <p>BS EN 1154: 1997 Cl. 7.3.4.3 &amp; Cl. 5.2.6</p> <p>BS EN 1154: 1997 Cl. 7.3.4.4 &amp; 5.2.8</p> <p>BS EN 1154: 1997 Cl. 7.3.5.1 &amp; 7.3.6.1</p> <p>BS EN 1154: 1997 Cl. 7.3.6.2, 7.3.4.1, 7.3.4.2 &amp; Cl. 5.2.3 to 5.2.5</p> <p>BS EN 1154: 1997 Cl. 7.3.6.3</p> <p>BS EN 1154: 1997 Cl. 7.3.6.4, 7.3.4.4 &amp; 5.2.8</p> <p>BS EN 1154: 1997 Cl. 7.4.1</p> <p>BS EN 1154: 1997 Cl. 7.4.2</p> <p>BS EN 1154: 1997 Cl. 7.4.3</p> <p>BS EN 1154: 1997 Cl. 7.4.4, 7.4.2 &amp; 5.2.17</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fire (Other)	Non-combustibility test for building materials  Rate of burning and/or extent and time of burning of plastics in a horizontal position	BS 476 Part 4: 1970 + Amd. 2483 and 4390  ASTM D635-06
Foundation	Borehole video inspection test  Compression static loading tests on pile (SLT)  Crosshole sonic logging test (SOLT)  Pile dynamic test (PDA)  Pile integrity test (PIT)  Plate load test (PLT)  Single-hole sonic logging test (SOLT)  Tension static loading tests on pile (SLT)  Ultrasonic echo sounder test (UEST)	Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing Cl. D8 & D10  Architectural Services Department General Specification for Building (2017) Section 5.29 Architectural Services Department General Specification for Building (2022) Section 5.29 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2018) PIL1.T610.8 to PIL1.T1110.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9  ASTM D6760-16  ASTM D4945-17  ASTM D5882-16  BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h) Hong Kong Housing Authority Specification Library (2018) GIN.T190.8 Hong Kong Housing Authority Specification Library (2022) GIN.T190.9  ASTM D6760-16  Architectural Services Department, Technical Instruction No. 4/2005: Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10  Hong Kong Concrete Institute TM3 Issue 2 (2024)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Foundation (Geotechnical monitoring)	Vibration monitoring	Guidance Note No. GN 10 Vibration Monitoring – Mines Division, Geotechnical Engineering Office, Civil Engineering and Development Department Cl. 5 to Cl. 9
Gatesets	Operation test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(d) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(d)
	Slamming closed test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(e) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(e)
	Heavy body impact test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(g) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(g)
	Endurance performance test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(m) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(m)
	Glass	Impact test of glass
Ground Granulated Blastfurnace Slag (GGBS)	Activity index	BS EN 196-1: 2005
	Density	BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 2010 Cl. 4 (Blaine method)
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 Cl. 6



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Grout	Bleeding and free expansion  Bleeding and volume change (wick-induced test)  Changes in height  Compressive strength of grout cubes in the force range 10 kN - 3000 kN  Early change in height  Expansion and bleeding of freshly mixed grout for preplace-aggregate concrete  Flow of grout for preplaced-aggregate concrete (flow cone method)  Fluidity test (cone method)  Setting time	Hong Kong Housing Authority Specification Library (2018) PIL1.T320.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T320.9 General Specification for Building (2017) Section 5.21 General Specification for Building (2022) Section 5.21 General Specification for Civil Engineering Works (2006) Vol.2 Cl. 17.60  BS EN 445: 2007 Cl. 4.5 General Specification for Civil Engineering Works (2006) Section 17.60 + Amd. 1/2013 General Specification for Civil Engineering Works (2020) Section 17.60  ASTM C1090-96 ASTM C1090-15  CS1: 2010 + Amd. 1/2013 Section 12  ASTM C827-95a (Reapproved 1997) ASTM C827-16  ASTM C940-98a ASTM C940-98a/16 with modification  ASTM C939-10 ASTM C939/939M-16a  BS EN 445: 2007 Cl. 4.3.1 General Specification for Civil Engineering Works (2006) Section 17.66 + Amd. 1/2013 General Specification for Civil Engineering Works (2020) Section 17.66  ASTM C953-87 (Reapproved 1997) ASTM C953-17
Joint filler	Recovery value, reduction in mass, extrusion	Hong Kong Housing Authority Specification Library (2018) EXT2.T620.8 to EXT2.T680.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T620.9 to EXT2.T680.9

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Manhole covers / steps	Bending test of manhole steps  Dimension measurement of manhole steps  Loading test of manhole covers and gully gratings  Loading test for manhole covers, road gully gratings and frames for drainage purpose  Mass determination and loading test of manhole covers, gully gratings and kerb overflow weirs  Mass determination and resistance to fracture of manhole covers, gully gratings and kerb overflow weirs  Pull-out test of manhole steps  Pull-out test of steps for underground man entry chambers  Twist test of manhole steps  Twist test of steps for underground man entry chambers  Vertical loading test of steps for underground man entry chambers	BS 1247: Part 1: 1990 App. A  BS 1247: Part 1: 1990 Cl. 3  BS EN 124: 1994 + Amd. 8587 Cl. 8 BS EN 124-1: 2015 Cl. 8  BS 497: Part 1: 1976 Cl. 7 & Cl. 14  Hong Kong Housing Authority Specification Library (2018) DRA2.T430.8 to DRA2.T490.8 Hong Kong Housing Authority Specification Library (2022) DRA2.T430.9 to DRA2.T490.9  General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 5.95 & App. 5.3  BS 1247: Part 1: 1990 App. B  BS EN 13101: 2002 Annex D in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.9  BS 1247: Part 1: 1990 Cl. 7.1  BS EN 13101: 2002 Annex A in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.6  BS EN 13101: 2002 Annex B in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.7

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials	Bend test of carbon steel bars  Bend test of stainless steel bars  Bond property of steel reinforcing bars by surface geometry measurement  Brinell hardness test of metallic materials in the scale of HBW 95.5 / 653  Charpy V-notch and/or U-notch impact test  Effective cross-sectional area and mass per meter of stainless steel bars  Longitudinal tensile properties and transverse shear strength of fiber-reinforced polymers bars for reinforcing or strengthening concrete structures  Mass per metre of cold reduced steel wires  Mass per meter of steel reinforcing bars	BS 4449: 1988 Cl. 10.2 CS2: 1995 Cl. 6.1 & 6.3  BS 6744: 2001 + A2: 2009 Annex E (excluding cold worked stainless steel bars)  BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9 BS 4482: 2005 Cl. 7.4.2 & 9  BS EN ISO 6506: Part 1: 1999 BS EN ISO 6506: Part 1: 2014  BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5  BS 6744: 2001 + A2: 2009 Cl. 6.1 (excluding cold worked stainless steel bars)  ACI 440.3R-04 Cl. B1, B2 & B4 ACI 440.3R-12 Cl. B1, B2 & B4  BS 4482: 1985 Cl. 9 & App. A BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specification: BS 4482: 2005 Cl. 7.3 & 9  BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification(s) BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.3 & 9

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	<p>Mass per metre square, pitch and dimension of steel fabric for reinforcement of concrete</p> <p>Performance test of tension bonded epoxy coated carbon steel bars</p> <p>Proof load test of stainless steel nuts in the force range 5 kN – 3000 kN</p> <p>Proof load test of steel nuts in the force range 5 kN – 3000 kN</p> <p>Rebend test of carbon steel bars</p> <p>Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete</p> <p>Rockwell hardness test in the scale range HRA to HRC</p> <p>Static tension test, static compression test, cyclic tension &amp; compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 10 kN - 2000 kN</p> <p>Surface geometry of stainless steel bars</p> <p>Tensile test of carbon steel bars in the force range 5 kN – 3000 kN</p>	<p>BS 4483: 1998 Cl. 6 &amp; 10 BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.3, 8.1.3.2 &amp; BS 4449: 2005 Cl. 7.3</p> <p>BS 7295: Part 1: 1990 Cl. 4 + Amd. 6955 with modifications</p> <p>BS 6105: 1981 Cl. 6.6, Table 3 &amp; 4</p> <p>BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2014 Annex A.1 BS EN 20898-2: 1994 Cl. 5-7 &amp; 8.1 BS EN ISO 898-2: 2022 Cl. 9.1 ISO 898-2: 1992 Cl. 5-7 &amp; 8.1</p> <p>BS 4449: 1988 Cl. 10.3 CS2: 1995 Cl. 6.1 &amp; 6.4</p> <p>BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 &amp; 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 &amp; 9 BS 4482: 1985 Cl. 12.2 &amp; App. C.5 with modifications BS 4482: 2005 Cl. 7.2.4 &amp; 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5 &amp; 8.1.3.2</p> <p>BS EN ISO 6508-1: 1999 BS EN ISO 6508-1: 2023</p> <p>ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) &amp; (d)</p> <p>BS 6744: 2001 + A2: 2009 Cl. 10 &amp; Annex C (excluding cold worked stainless steel bars)</p> <p>CS2: 1995 Cl. 6.1 &amp; 6.2 BS 4449: 1988 Cl. 10.1</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	<p>Tensile test of high tensile 7-wire strands in the force range 5 kN – 3000 kN</p> <p>Tensile test of metallic materials in the force range 5 kN – 3000 kN</p> <p>Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 0.2 kN – 3000 kN</p>	<p>BS 18-2: 1971          BS EN ISO 6892-1: 2019 Cl. 10.3.2 &amp; 10.3.3          Method A &amp; Method B &amp;          BS EN ISO 15630-3: 2019 Cl. 5          in conjunction with the following specification(s):          BS 5896: 1980 App. A          BS 5896: 2012 Cl. 7.2.2</p> <p>BS 18: 1987          BS EN 10002-1 : 1990          BS EN 10002-1 : 2001          BS EN ISO 6892-1: 2009 Cl. 10.3 &amp; 10.4          Method A &amp; Method B          BS EN ISO 6892-1: 2016 Cl. 10.3.2 &amp; 10.3.3          Method A &amp; Method B          BS EN ISO 6892-1: 2019 Cl. 10.3.2 &amp; 10.3.3          Method A &amp; Method B          in conjunction with the following specification(s):          BS 1452: 1990 Cl. 4          BS 4360: 1986 Cl. 23          BS 4360: 1990 Cl. 23          BS 4486: 1980 Cl. 9.1.6          BS 6744: 2001 + A2: 2009          (excluding cold worked stainless steel bars)          BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 &amp; 10.2.1          BS EN 10025-2: 2004 Cl. 10.2 &amp; Table 7          BS EN 10025-4: 2004 Cl. 10.2 &amp; Table 5          BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1 &amp; 9.2.2          BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 &amp; 9.2.2          BS EN 1561: 1997 Cl. 9.1 &amp; Table 1 &amp; 2</p> <p>BS EN 10002-1: 2001          BS EN ISO 6892-1: 2009 Cl. 10.3 &amp; 10.4          Method A &amp; Method B          BS EN ISO 6892-1: 2016 Cl. 10.3.2 &amp; 10.3.3          Methods A1, A2 &amp; Method B          BS EN ISO 6892-1: 2019 Cl. 10.3.2 &amp; 10.3.3          Methods A1, A2 &amp; Method B          in conjunction with the following specification(s):          BS 4449: 1997 Cl. 11.1 &amp; 11.2 (up to 16 mm dia.)          BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3, 8.1.3.1 &amp; 9          BS 4482: 1985 Cl. 12.1 &amp; App. C.3 with modifications          BS 4482: 2005 Cl. 8.1.3.1 &amp; 9          BS 4483: 1998 Cl. 13.1          BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 &amp; 9          CS2: 2012 (Rev. 6) Cl. 6.1 &amp; 6.4</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (cont'd)	<p>Tensile test &amp; slip/permanent elongation test of mechanical couplers for reinforcing bar in the force range 5 kN – 3000 kN</p> <p>Tensile test of unmachined (finished) bolts, screws and studs in the force range 5 kN – 3000 kN</p> <p>Tensile test of machined bolts, screws and studs in the force range 5 kN – 3000 kN</p> <p>Vickers hardness test of metallic materials in scale range HV5, HV10 and HV30</p> <p>Weld shear force test of steel fabrics for reinforcement of concrete</p>	<p>BS EN ISO 6892-1: 2019 Cl. 10.3.2 &amp; 10.3.3            Methods A1, A2 &amp; Method B            &amp; ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4            in conjunction with the following specification(s):            BS 8110: Part 1: 1997 Cl. 3.12.8.16.2            General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35            General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35            Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2            Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3</p> <p>BS EN ISO 6892-1: 2019 Cl. 10.3.2 &amp; 10.3.3            Methods A1, A2 &amp; Method B            in conjunction with the following specification(s):            BS EN ISO 898-1: 2013 Cl. 9.2</p> <p>BS EN ISO 6892-1: 2019 Cl. 10.3.2 &amp; 10.3.3            Methods A1, A2 &amp; Method B            in conjunction with the following specification(s):            BS EN ISO 898-1: 2013 Cl. 9.7</p> <p>BS 427: 1990            BS EN ISO 6507: Part 1: 1998            BS EN ISO 6507: Part 1: 2023</p> <p>BS EN ISO 15630-2: 2002 Cl. 7            ISO 10287: 1992            in conjunction with the following specification(s):            BS 4483: 1998 Cl. 13.2            BS 4483: 2005 Cl. 7.2.2 &amp; 7.2.4</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Mortar	Dry bulk density of hardened mortar  Flexural strength of hardened mortar in the force range 1 kN – 9.5 kN  Compressive strength of hardened mortar in the force range 10 kN – 140 kN  Adhesive strength of hardened rendering and plastering mortar on substrates  Consistence retentivity and water retentivity of mortar  Consistence of fresh mortar (By flow table)  Air content of fresh mortar  Workable life and correction time of fresh mortar	BS EN 1015-10: 1999  BS EN 1015-11: 1999  BS EN 1015-11: 1999  BS EN 1015-12: 2000  BS 4551: 2005  BS EN 1015-3: 1999  BS EN 1015-7: 1999 (Method A)  BS EN 1015-9: 1999 (Method A)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint	Bend test  Coating thickness  Comparison of contrast ratio (Hiding power)  Surface drying time using ballotini  Through dry  Fineness of grind  Examination and preparation of samples  Scratch test  Specular gloss  Flow time by use of flowcups  Consistency (Measuring Krebs unit viscosity using a Stormer-type viscometer)  Scrub resistance  Accelerated weathering resistance  Resistance to humid atmospheres containing sulphur dioxide  Cross-cut test	BS 3900: E1: 1995 BS EN ISO 1519: 2011  BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7C)  BS 3900-D4: 1974 BS EN ISO 2814: 2006, BS 3900-D4: 2006  BS 3900: Part C2: 1994 BS EN ISO 9117-3: 2010  BS 3900: Part C3: 1990 BS EN ISO 9117-1: 2009  BS 3900-C6: 2000 BS EN ISO 1524: 2013  BS 3900: Part A2: 1993 Cl. 4.1.2 - 4.1.6 & 5.1.2 - 5.1.6 BS EN ISO 1513: 2010 Cl. 5.1.1 - 5.1.4 & 5.1.6  BS 3900: Part E2: 1992 BS EN ISO 1518-1: 2011  BS 3900: Part D5: 1997 BS EN ISO 2813: 2000 BS EN ISO 2813: 2014  BS 3900: Part A6: 1996 BS EN ISO 2431: 2011  ASTM D 562-01 (Method B) ASTM D 562-10 (Method B) ASTM D 562-10 (Reapproved 2018) (Method B)  ASTM D 2486-96 ASTM D 2486-17 (Method A) SS5: Part F5: 2003  ASTM G53-88 ASTM G53-96 ASTM G154-12a ASTM G154-16  BS 3900: F8: 1976 BS EN ISO 3231: 1998, BS 3900: F8: 1993  BS EN ISO 2409: 2013



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint (cont'd)  - Multi-layer	Adhesion strength  Change in consistency  Cracking resistance due to initial stage drying  Impact test  Low temperature stability  Permeability  Repeat warming and cooling	JIS A 6910-1988 Cl. 5.8  JIS A 6910-1988 Cl. 5.6  JIS A 6910-1988 Cl. 5.7 & Architectural Services Department General Specification for Building (2022) Cl. 21.93  JIS A 6910-1988 Cl. 5.11 & Architectural Services Department General Specification for Building (2022) Cl. 21.93  JIS A 6910-1988 Cl. 5.5  JIS A 6910-1988 Cl. 5.10 & Architectural Services Department General Specification for Building (2022) Cl. 21.93  JIS A 6910-1988 Cl. 5.9 (Four sides of specimens are wrapped.)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paint (cont'd)  - Bitumen-based	Flash point  Drying and over-coating times  Finish  Protection against corrosion  Bend resistance  Shelf life	BS 3416: 1991 Cl. 5 and Cl. B.1 of App. B BS 3900: Part A13: 1986 Cl. 7.2 (Method 2)  BS 3416: 1991 Cl. 6 and Cl. B.2 of App. B, App. C (with modifications) BS 3900: Part C2: 1994 Cl. 7 excluding 7.3 BS 3900: Part A3: 1997 Cl. 3  BS 3416: 1991 Cl. 7 and Cl. B.3 of App. B, App. C (with modifications) BS 3900: Part A3: 1997 Cl. 3  BS 3416: 1991 Cl. 8 & App. B Cl. B4 (with modification) BS 3900: Part H2: 1983 BS 3900: Part G5: 1993 (Method 1 – procedure A) ISO 4628-2: 2003 (E)  BS 3416: 1991 Cl. 9 and Cl. B.5 of App. B, App. C (with modifications) BS 3900: Part A3: 1997 Cl. 4 BS 3900: Part E1: 1995 Cl. 6 excluding 6.2.2 & 6.3  BS 3416: 1991 Cl. 11

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings  - Cast iron pipes and fittings	Cast iron pipes and fittings, joints and accessories - test methods  Crushing test of cast iron pipes & fittings  Dimensions and masses measurement of cast iron spigot and socket drain pipes and fittings  Dimensions measurement of discharge and ventilating pipes and fittings, sand-cast or spun in cast iron  Freedom from defects and determination of depth of seal of cast iron spigot and socket drain pipes and fittings  Hydrostatic test of cast iron spigot and socket drain pipes and fittings  Leakage test of cast iron discharge and ventilating pipes and fittings, sand –cast or spun in cast iron	BS EN 877: 1999 + A1: 2006 <excluding the following> Cl. 4.1.3, Cl. 4.1.4, Cl. 4.6.3 & Cl. 5.7.3.3  BS EN 877: 2021 <excluding the following> Cl. 5.7.3.1, 5.7.3.2, 5.7.3.3 & 5.9.2  BS 437: 1978 App. A BS 437: 2008 Annex A10 in conjunction with the following specification(s): BS 437: 1978 Cl. 8 BS 437: 2008 Cl. 4.5  BS 437: 2008 Annex A1 to A9 In- house method PIP-DIMMAS-CIRON437 in conjunction with the following specification(s): BS 437: 1978 Cl. 5 BS 437: 2008 Cl. 4.3 & 4.4  In- house method PIP-DIM-CIRON416 in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 4.1 & 4.2  BS 437: 1978 Cl. 4 and 6  BS 437: 1978 Cl. 7  BS 4772: 1988 App. B in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 5

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)  - Cast iron pipes and fittings (cont'd)          - Ductile iron pipes and fittings	Tensile testing of grey (flake graphite) cast iron, malleable cast iron and ductile cast iron in the range 20 kN to 1000 kN          Brinell hardness testing of ductile iron pipes and fittings          Diametral stiffness testing of ductile iron pipes          Hydrostatic test of ductile iron pipes and fittings          Straightness of ductile iron pipes          Surface condition, dimensions measurement and mass of ductile iron pipes and fittings          Surface condition and repairs, straightness dimensions measurement of ductile iron pipe, fittings, accessories and their joints for sewage applications	BS 1452: 1990 Cl. 4 & BS 18: 1987 BS 18: 1987 BS EN 10002-1: 1990 ISO BS EN ISO 6892-1: 2009 in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 3 BS 437: 1978 Cl. 3 BS 1452: 1990: Cl. 4 BS EN 1561: 1997 Cl. 7.2 BS 6681: 1986 Cl. 7, 8, 9, 10, 11 & 12 ISO 185: 1988 Cl. 4 & 5          BS EN ISO 6506: Part 1: 1990 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.6 BS EN 545: 2002 Cl. 6.4 BS EN 545: 2006 Cl. 6.4 BS EN 598: 1995 Cl. 6.4 BS EN 598: 2007 + A1: 2009 Cl. 6.4          BS EN 598: 1995 Cl. 7.2 BS EN 598: 2007 + A1: 2009 Cl. 7.3          BS 4772: 1988 App. B BS EN 598: 2007 + A1: 2009 Cl. 6.5 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.2.1          BS 4772: 1988 Cl. 2.9          In-house method PIP-CDIMMAS-DIRON4772 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.8, 2.10 & 2.11          In-house method PIP-SC-DIRON598, PIP-STSDIRON598 & PIP-DIM-DIRON598 in conjunction with the following specification(s): BS EN 598: 1995 Cl. 4.1.2, 4.2.4, 6.1 & 6.2 BS EN 598: 2007 + A1: 2009 Cl. 4.1.2, 4.2.1 to 4.2.4, 6.1 & 6.2

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <p>- Ductile iron pipes and fittings (cont'd)</p>	<p>Surface condition and repairs, straightness dimensions measurement and diametral stiffness testing of ductile iron pipes, fittings, accessories and their joints for water pipelines.</p> <p>Tensile test of ductile iron pipes and fittings</p> <p>Tensile testing of grey (flake graphite) cast iron, malleable cast iron and ductile cast iron in the range 20 kN – 1000 kN</p> <p>Thickness of paint coating and cement mortar lining of ductile iron pipes and fittings</p> <p>Works leaktightness test of ductile iron pipes and fittings</p>	<p>In-house method PIP-SC-DIRON545, PIP-ST-DIRON545, PIP-DIM-DIRON545, PIP-CASION-DMS, PIP-DIRON-DIM-EN545:2010 &amp; PIP-DIRON-ST-EN545:2010</p> <p>in conjunction with the following specification(s): BS EN 545: 1995 Cl. 4.1.2, 4.2.4, 6.1, 6.2 &amp; Annex C BS EN 545: 2006 Cl. 4.1.2, 4.2.4, 6.1 &amp; 6.2 &amp; Annex C BS EN 545: 2010 Cl. 4.3, 6.1, 6.2, 8.3 &amp; 8.4 Tables 1, 2, 6, 17 to 37</p> <p>BS 4772: 1988 + Amd. 6270 App. D BS EN 10002-1: 1990</p> <p>in conjunction with the following specification(s): BS 4772: 1988 + Amd. 6270 Cl. 2.5 BS EN 545: 1995 Cl. 6.3 Method A BS EN 545: 2006 Cl. 6.3</p> <p>BS EN 10002-1: 1990</p> <p>in conjunction with the following specification(s): BS EN 598: 1995 Cl. 6.3</p> <p>In-house method PIP-DIRON-CT-EN545:2010</p> <p>in conjunction with the following specification(s): BS EN 545: 2010 Cl. 6.7 &amp; 6.8</p> <p>BS EN 545: 1995 Cl. 6.5 BS EN 545: 2006 Cl. 6.5 BS EN 545: 2010 Cl. 6.5 BS EN 598: 1995 Cl. 6.9 &amp; 6.10</p> <p>in conjunction with the following specification(s): BS EN 545: 1995 Cl. 4.7 BS EN 545: 2006 Cl. 4.7</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <p>- Grey iron pipes and fittings</p>	<p>Brinell hardness testing of grey iron pipes, fittings, accessories and their joints for sewage applications and water pipeline</p> <p>Dimensions measurement and mass of grey iron pipes and fittings</p> <p>Hydrostatic test of grey iron pipes and fittings</p> <p>Surface condition, straightness and uniformity of grey iron pipes and fittings</p> <p>Tensile test of grey iron pipes and fittings</p>	<p>BS EN ISO 6506: Part 1: 1990 in conjunction with the following specification(s): BS 4622: 1970 Cl. 14</p> <p>In-house method PIP-DIM-GI4622 in conjunction with the following specification(s): BS 4622: 1970 Cl. 10 &amp; 11</p> <p>BS 4622: 1970 Cl. 15.1 in conjunction with the following specification(s): BS 4622: 1970 Cl. 3.4 &amp; 4.2</p> <p>In-house method PIP-GREYION-SCI &amp; PIP-GREYION-SU in conjunction with the following specification(s): BS 4622: 1970 Cl. 7 &amp; 9</p> <p>BS 4622: 1970 + Amd. 614, 1298 &amp; 3772 Cl. 14</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <p>- Copper pipes and fittings</p>	<p>Carbon film test of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes</p> <p>Dimensions measurement of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes</p> <p>Dimensions measurement of copper and copper alloys plumbing fittings with compression ends for use with copper tubes</p> <p>Leaktightness test of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes</p> <p>Leaktightness test of copper and copper alloys plumbing fittings with compression ends for use with copper tubes</p> <p>Resistance to pull-out of copper and copper alloys plumbing fittings with compression ends for use with copper tubes</p> <p>Leaktightness under internal hydrostatic pressure whilst subjected to bending of copper and copper alloys plumbing fittings with compression ends for use with copper tubes</p> <p>Stress corrosion resistance of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes</p> <p>Stress corrosion resistance of copper and copper alloys plumbing fittings with compression ends for use with copper tubes</p>	<p>BS EN 1254-1 : 1998 Annex A in conjunction with the following specification(s): BS EN 1254-1 : 1998 Cl. 5.4.1</p> <p>In-house method PIP-COPPER-DIM-EN1254-1: 1998 in conjunction with the following specification(s): BS EN 1254-1: 1998 Cl. 4.3</p> <p>In-house method PIP-COPPER-DIM-EN1254-2: 1998 in conjunction with the following specification(s): BS EN 1254-2: 1998 Cl. 4.3</p> <p>In-house method PIP-COPPER-PRE-EN1254-1: 1998 in conjunction with the following specification(s): BS EN 1254-1: 1998 Cl. 5.2</p> <p>BS EN 1254-2: 1998 Cl. 5.4</p> <p>BS EN 1254-2: 1998 Cl. 5.5</p> <p>BS EN 1254-2: 1998 Cl. 5.6</p> <p>ISO 6957: 1988 in conjunction with the following specification(s): BS EN 1254-1 : 1998 Cl. 5.6</p> <p>ISO 6957: 1988 in conjunction with the following specification(s): BS EN 1254-2: 1998 Cl. 5.9</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <p>- Copper pipes and fittings (cont'd)</p>	<p>Carbon film test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications</p> <p>Dimensions measurement of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications</p> <p>Drift expanding test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications</p> <p>Hydrostatic test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications</p> <p>Surface quality, dimensions, and tolerances, freedom from defects test (hydrostatic test), tensile test and hardness carbon film test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications</p>	<p>BS EN 1057: 2006 + A1: 2010 Annex B in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.5 &amp; 10.5</p> <p>In-house method BC-COPPER-DIM-EN1057-2006 + A1-2010 in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.3</p> <p>BS EN 1057: 2006 + A1 : 2010 Cl. 10.7 BS EN ISO 8493: 2004</p> <p>BS EN 1057: 2006 + A1: 2010 Annex C.2 in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.4 &amp; 10.9</p> <p>BS EN 1057: 1996 Cl. 6.3 to 6.5, 8.2, 8.3, 8.5 &amp; 8.9 (Method in C2)</p>
<p>- Non-alloy steel pipes</p>	<p>Dimensions measurement of non-alloy steel tubes</p> <p>Flattening test of non-alloy steel tubes</p> <p>Leaktightness test of non-alloy steel tubes</p>	<p>In-house method DIP-NST-DIM-EN10225: 2004 + A1 2007 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007(E) Cl. 8.4</p> <p>BS EN 10255: 2004 + A1: 2007(E) Cl. 9.5 BS EN ISO 8492: 2013</p> <p>In-house method DIP-NST-LEAK-EN10225: 2004 + A1 2007 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007(E) Cl. 9.6</p>



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)  - Stainless steel pipes and fittings	Dimensions of Stainless Steel Fittings  Leaktightness under internal pressure test of stainless steel fittings  Pressure cycle test of stainless steel fittings  Resistance to pull-out of assembled joints of stainless steel fitting  Leaktightness under internal pressure whilst subjected to bending of stainless steel fittings  Compatibility of water fittings with pipe of stainless steel fittings  Roll-grooved assembly (Joint Pressure Resistance test) of stainless steel fittings  Resistance of press fitting joints and tubes to vibration of stainless steel fittings  Intergranular corrosion test of stainless steel  - Steel tubes  Dimensions measurement, visual inspection, tensile test, bend test, flattening test, leaktightness test, and bore test of screwed and socketed steel tubes and tubulars and for plain end steel tubes	In- house method SSF-DIM-AS3688 in conjunction with the following specification(s): AS 3688: 2016 Section 3, Table 3.6.4 & 3.7.2(B)  AS 3688: 2016 Appendix D in conjunction with the following specification(s): AS 3688: 2016 Section 4.2  AS 3688: 2016 Appendix F in conjunction with the following specification(s): AS 3688: 2016 Section 4.4  AS 3688: 2016 Appendix G in conjunction with the following specification(s): AS 3688: 2016 Section 4.5  AS 3688: 2016 Appendix I in conjunction with the following specification(s): AS 3688: 2016 Section 4.7  AS 3688: 2016 Appendix J in conjunction with the following specification(s): AS 3688: 2016 Section 4.8  AS 3688: 2016 Appendix K in conjunction with the following specification(s): AS 3688: 2016 Section 4.9  AS 3688: 2016 Appendix P in conjunction with the following specification(s): AS 3688: 2016 Section 4.13  BS EN ISO 3651-2: 1998  BS 1387: 1985 Cl. 2.5, 3.1 to 3.6

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Construction Materials 建築材料</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)  - Welded stainless steel tubes	Dimensions measurement of welded stainless steel tubes  Drift expanding test of welded stainless steel tubes  Flattening test of welded stainless steel tubes  Hydrostatic test of welded stainless steel tubes	In-house method DIP-WST-DIM-EN10312:2002 in conjunction with the following specification(s): BS EN 10312: 2002 Cl. 8.8, 11.7, Table 1 and 2  BS EN 10312: 2002 Cl. 11.2 BS EN ISO 8493: 2004  BS EN 10312: 2002 Cl. 11.3 BS EN ISO 8492: 2013  In-house method DIP-WST-LEAK-EN10312:2002 in conjunction with the following specification(s): BS EN 10312: 2002 Cl. 11.4.3
- Clay pipes and fittings	Bore and length of vitrified clay pipes  Crushing strength test of vitrified clay pipes & fittings & pipe joints for drains & sewers  Water pressure test (impermeability) of vitrified clay pipes and fittings	In-house method PIP-VTFCLAY-DIM in conjunction with the following specification(s): BS 65: 1991 Cl. 5.1 & 5.2 BS EN 295-1: 1991 Cl. 2.2 & 2.3  BS EN 295: Part 3: 1991 + Amd. A1 Cl. 4 BS 65: 1988 App. B BS 65: 1991 App. B in conjunction with the following specification(s): BS 65: 1988 Cl. 6.2 BS 65: 1991 Cl. 6.2  BS 65: 1988 Cl. 6.4 & 8.2 BS 65: 1991 Cl. 6.4 & 8.2

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <p>- Concrete pipes and fittings</p>	<p>Crushing strength test of precast concrete pipes &amp; fittings</p> <p>Dimension measurement of precast concrete pipes</p> <p>Hydrostatic test of concrete pipes and fittings</p> <p>Water absorption test of precast concrete pipes and fittings</p>	<p>BS 5911: Part 100: 1988 + Amd. 7588 App. D in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.4</p> <p>BS EN 1916: 2002 Annex C in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.5.3 &amp; Cl. 6.4 BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.6</p> <p>In-house method PIP-DIM-5911 in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 9 and 10</p> <p>BS 5911: Part 1: 2002 + A2: 2010 Annex D in conjunction with the following specification(s): BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.4</p> <p>BS 5911: Part 100: 1988 + Amd. 7588 App. F in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.3</p> <p>BS EN 1916: 2002 Annex E (excluding joint assembly) in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.3.7</p> <p>BS 5911: Part 100: 1988 + Amd. 7588 App. E in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.2</p> <p>BS EN 1916: 2002 Annex F in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.2.6.2 &amp; 6.7</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <p>- Polyethylene (PE) pipes and fittings</p>	<p>Assessment of the degree of pigment dispersion (blue compound) of polyethylene (PE) compounds, pipes and fittings</p> <p>Cohesive resistance for polyethylene (PE) electrofusion socket fittings</p> <p>Density of polyethylene (PE) compounds, pipes and fittings</p> <p>Dimensions measurement of polyethylene (PE) Pipes</p> <p>Dimensions measurement of polyethylene (PE) electrofusion sockets</p> <p>Elongation at break of polyethylene (PE) pipes</p>	<p>ISO 18553: 2002 excluding Cl. 4.1.2 &amp; 4.2.2 in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4</p> <p>ISO 13954: 1997 in conjunction with the following specification(s): BS EN 13244-3: 2002 Cl. 8 BS EN 12201-3: 2003 Cl. 8</p> <p>ISO 1183-1: 2004 (Method A - Immersion method) in conjunction with the following specification(s): BS EN 13244-1: 2002 Cl. 4.4 BS EN 12201-1: 2003 Cl. 4.4</p> <p>EN ISO 3126 : 2005 ISO 3126: 2005 in conjunction with the following specification(s): BS EN 12201-2: 2003 Cl. 6 BS EN 12201-2 : 2011 + A1: 2013 Cl.6 BS EN 13244-2: 2002 Cl. 6.1 to 6.5 ISO 4427: 1996 Cl. 4.1, 4.2 &amp; 4.3 ISO 11922-1: 1997</p> <p>ISO 3126: 2005 in conjunction with the following specification(s): BS EN 12201-3: 2003 Cl. 6.1 &amp; 6.2 BS EN 12201-3: 2011 + A1: 2012 Cl.6.2 BS EN 13244-3: 2002 Cl. 6.1 &amp; 6.2</p> <p>BS EN ISO 6259-1: 2001 ISO 6259-3: 1997 in conjunction with the following specification(s): BS EN 13244-2: 2002 Cl. 8 BS EN 12201-2: 2003 Cl. 8</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

31 On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 31 號

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings</p> <p>- Polyethylene (PE) pipes and fittings</p>	<p>1,000 hours hydrostatic strength at 80°C of electrofusion polyethylene (PE) fittings</p> <p>Hydrostatic strength of polyethylene (PE) pipes and fittings</p> <p>Melt mass-flow rate (MFR) of polyethylene (PE) compounds, pipes and fittings</p> <p>Oxidation induction time (OIT) of electrofusion polyethylene (PE) fittings</p>	<p>BS 7336: 1990 App. L in conjunction with the following specification(s): Water Industry Specification 4-32-14 Mar 1995 Issue 1 Cl. 7.4</p> <p>EN 921: 1994 in conjunction with the following specification(s): BS EN 12201-2: 2003 Cl. 7 BS EN 12201-3: 2003 Cl. 7.1 to 7.4 BS EN 13244-2: 2002 Cl. 7 BS EN 13244-3: 2002 Cl. 7.1 to 7.4</p> <p>EN ISO 1167-1 : 2006 EN ISO 1167-2 : 2006 ISO 1167: 1996 in conjunction with the following specification(s): BS EN 12201-2: 2011 + A1: 2013 Cl.7 BS EN 12201-3: 2011 + A1: 2012 Cl.7 ISO 4427: 1996 Cl. 5 Tables 8 &amp; 9</p> <p>EN ISO 1133: 1999 (Procedure A) in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4 BS EN 12201-2: 2003 Cl. 8 BS EN 12201-3: 2003 Cl. 8 BS EN 13244-1: 2002 Cl. 4.4 BS EN 13244-2: 2002 Cl. 8 BS EN 13244-3: 2002 Cl. 8 ISO 1133: 2005 (mass-measurement method) ISO 4427: 1996 Cl. 3.7</p> <p>BS 7281: 1990 App. D in conjunction with the following specification(s): Water Industry Specification 4-32-14 Mar 1995 Issue 1 Cl. 8.5</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

31 On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 31 號

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <ul style="list-style-type: none"> <li>- Polyethylene (PE) pipes and fittings (cont'd)</li> </ul>	<p>Oxidation induction time (OIT) of polyethylene (PE) compounds, pipes and fittings</p> <p>Thermal stability (Oxidation Induction Time OIT) of polyethylene (PE) compounds and pipes</p>	<p>EN 728: 1997 in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4 BS EN 12201-2: 2003 Cl. 8 BS EN 12201-3: 2003 Cl. 8 BS EN 13244-1: 2002 Cl. 4.4 BS EN 13244-2: 2002 Cl. 8 BS EN 13244-3: 2002 Cl. 8</p> <p>ISO/TR 10837: 1991 in conjunction with the following specification(s): ISO 4427: 1996 Cl. 3.3 &amp; 6.1</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Pipes and fittings (cont'd)</p> <p>- Thermoplastics pipes and fittings</p>	<p>Dimensions measurement of thermoplastics pipes, fittings and valves</p> <p>Longitudinal reversion of thermoplastics pipes</p> <p>True impact rate boundaries (TIR) of thermoplastics pipes</p> <p>Appearance of thermoplastics ancillary fittings for below ground gravity drainage and sewerage</p> <p>Appearance of thermoplastics waste pipe and fittings</p> <p>Impact test of plastic waste traps including bottle trap and U-trap</p> <p>Dimensions measurement of thermoplastic waste pipe and fittings</p> <p>Impact resistance of thermoplastics waste pipes and two-way floor drain</p> <p>Leaktightness of thermoplastic pipes and fittings for non-pressure applications</p>	<p>BS 2782: Part 11: 1981 (Method 1101A)</p> <p>BS 2782: Part 11: 1995 (Method 1102B) BS EN 743: 1995 Cl. 3</p> <p>BS 2782: Part 11: 1989 (Method 1108A)</p> <p>BS 4660: 2000 Cl. 5</p> <p>BS 5255: 1989 Cl. 4</p> <p>BS 3943: 1979 + Amd. 4692 Cl. 17 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(v)</p> <p>BS 5255: 1989 Cl. 5 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i) &amp; (iii)</p> <p>BS 5255: 1989 Cl. 6.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i)</p> <p>BS 5255: 1989 Cl. 7.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i) &amp; (iii)</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Pipes and fittings (cont'd)  - Thermoplastics pipes and fittings (cont'd)	Heat reversion of thermoplastics waste pipes  Vicat softening temperature of thermoplastics waste pipes and two-way floor drain  Vicat softening temperature of plastics W.C. connectors  Board stiffness of insulation ductboards	BS 5255: 1989 Cl. 6.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i)  BS 5255: 1989 Cl. 6.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i), (ii) & (vi)  BS 5627: 1984 + Amd. 5396 Cl. 7a.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(iii)  BS EN 13403: 2003 Cl. 7.1



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pipes and fittings (cont'd)  - Unplasticized poly(vinyl chloride) (PVC) pipes and fittings	Appearance of unplasticized PVC-U pressure pipes for cold potable water  Appearance of unplasticized PVC-U pipes and plastic fittings for below ground gravity drainage and sewerage  Appearance of unplasticized PVC soil and ventilating pipes, fittings and accessories  Dimensions measurement of unplasticized PVC soil and ventilating pipes, fittings and accessories  Impact resistance of unplasticized PVC soil and ventilating pipes  Heat reversion of unplasticized PVC soil and ventilating pipes  Proof pressure resistance of unplasticized PVC soil and ventilating pipes, fabricated fittings  Tensile properties of unplasticized PVC soil and ventilating pipes  Vicat softening temperature of unplasticized PVC soil and ventilating pipes, fittings and accessories	BS 3505: 1986 Cl. 6.1.1 & 6.1.2  BS 4660: 1989 Cl. 4  BS 4514: 1983 Cl. 3 BS 4514: 2001 Cl. 4  BS 4514: 1983 Cl. 4.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)  BS 4514: 1983 Cl. 5.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)  BS 4514: 1983 Cl. 5.4 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)  BS 4514: 1983 Cl. 5.6 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)  BS 4514: 1983 Cl. 5.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)  BS 4514: 1983 (Amd. 4517) Cl. 5.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (PFA)	Activity index  Fineness  Particle density  Initial setting time  Soundness  Strength factor  Moisture content  Water requirement	BS EN 196-1: 2005  BS 3892: Part 1: 1997 Annex D BS EN 451-2: 1995  BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 7  BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 10 with modifications  BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 11 with modifications  BS 3892: Part 1: 1997 Annex F with modifications  BS 3892: Part 1: 1997 Annex C  BS 3892: Part 1: 1997 Annex E with modification BS EN 450-1: 2005 + A1: 2007 Annex B

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Repair mortar	<p>Making of test specimens</p> <p>Curing of test specimens</p> <p>Compressive strength of repair mortar cubes in the force range 20 kN - 1500 kN</p> <p>Tensile strength</p> <p>Modulus of elasticity in compression</p> <p>Coutinho ring shrinkage</p> <p>Air permeability</p> <p>Bond strength of repair mortar systems</p> <p>Repair mortar inspection core</p> <p>Flow</p>	<p>BS 6319: Part 1: 1983 &amp; Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1</p> <p>BS 6319: Part 1: 1983 &amp; Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1</p> <p>BS 6319: Part 2: 1983 &amp; Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1</p> <p>BS 6319: Part 7: 1985 &amp; Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.3</p> <p>BS 6319: Part 6: 1984 &amp; Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.4</p> <p>Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.6 Method 1</p> <p>Improvements to the Figg Method for the Air Permeability of Concrete by Cather, Figg, Mansden and O'Brien. Mag. Conc. Res 36 No. 129 Dec 1984 &amp; Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.7</p> <p>BS 6319: Part 7: 1985 &amp; Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.14</p> <p>Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.22</p> <p>BS 4551: Part 1: 1998</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Road surfaces	Texture depth of carriageways (by sand patch test)  Surface regularity of carriageways (by a 3 meter / rolling straightedge method)  Slip resistance of new/ existing pedestrian surface material by wet pendulum test  Skid resistance of road surfaces/markings using a portable pendulum tester	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 10.1 Hong Kong Housing Authority Specification Library (2018) EXT2.T910.8 to EXT2.T1010.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T910.9 to EXT2.T1010.9  General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 10.55 Hong Kong Housing Authority Specification Library (2018) EXT2.T810.8 to EXT2.T850.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T810.9 to EXT2.T850.9  AS 4586: 2013 App. A AS 4663: 2013 App. A  Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989)
Rock	Direct shear strength of jointed rock  Point load strength index of rock by diametral and axial tests  Preparation of rock core specimens and determination of dimensional and shape tolerances  Unconfined compressive strength of intact rock core specimens	ASTM D5607-02 with modifications  ASTM D 5731-95 International Society for Rock Mechanics (1985) Suggested method for determining point load strength  ASTM 4543-85 (reapproved 1991) with modifications  ASTM D2938-95 with modifications
Screed	In-situ crushing resistance of bonded and unbonded levelling screeds	BS 8204: Part 1: 1987 App. B BS 8204: Part 1: 1999 Annex C BS 8204: Part 1: 2003 + A1: 2009 Annex D

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Showers	Endurance test for flow controllers  Nominal flow rate  Mean spray spread angle  Temperature drop	AS/NZS 3662: 2013 App. F The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II D  AS/NZS 3662: 2013 App. B The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section I  AS/NZS 3662: 2013 App. C The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II B  AS/NZS 3662: 2013 App. D The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II C

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45°C±5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C±5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pycnometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1 GEOSPEC 3: 2017 Test 10.1

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Construction Materials 建築材料</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2 GEOSPEC 3: 2017 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3 GEOSPEC 3: 2017 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4 GEOSPEC 3: 2017 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5 GEOSPEC 3: 2017 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6 GEOSPEC 3: 2017 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7 GEOSPEC 3: 2017 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8 GEOSPEC 3: 2017 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I) (cont'd)	<p>In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine-, medium-, and coarse-grained soils (with large pouring cylinder)</p> <p>In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine-and medium-grained soils</p> <p>Relative compaction of fill material</p> <p>California Bearing Ratio (CBR)</p> <p>Density of soil by linear measurement method</p>	<p>GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 Test 11.2</p> <p>Geo Spec 3: 2001 Test 11.3 GEOSPEC 3: 2017 Test 11.3</p> <p>Buildings Department PNAP 55 (1994) App. A Cl. 2 GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4</p> <p>BS 1377: Part 9: 1990 Cl. 4.3 GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1</p> <p>BS 1377: Part 2: 1990 Cl. 7.2</p>
Soil (Phase II)	<p>One-dimensional consolidation test</p> <p>Isotropic compression test in a triaxial cell</p> <p>Unconsolidated undrained triaxial compression test without pore pressure measurement</p> <p>Isotropically consolidated undrained triaxial compression test with pore pressure measurement</p> <p>Isotropically consolidated drained triaxial compression test with measurement volume change</p> <p>Direct shear test (small shear box apparatus)</p>	<p>GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1</p> <p>GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2</p> <p>GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1</p> <p>GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2</p> <p>GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3</p> <p>GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1</p>



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (other)	Dynamic probe test  Soil nail performance  Pull-out test of soil nails  Time domain reflectometry (TDR) test on soil nails  In-situ apparent resistivity of soil  Resistivity of soil by Wenner probe method  Resistivity of soil by open container method  Redox potential	General Specification for Civil Engineering Works (2006) Vol. 1 App. 7.1  Architectural Services Department General Specification for Building (2012) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.42 Architectural Services Department General Specification for Building (2017) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.42  Architectural Services Department General Specification for Building (2012) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.39 Architectural Services Department General Specification for Building (2017) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.39 General Specifications for Civil Engineering Works (2006) Vol. 1 Cl. 7.138 General Specifications for Civil Engineering Works (2020) Vol. 1 Cl. 7.144 GEOGUIDE 7 (2017) Cl. 6.3.2 Hong Kong Housing Authority Specification Library (2018) SLO.T315.7 & SLO.T320.7 Hong Kong Housing Authority Specification Library (2018) SLO.T315.8 & SLO.T320.8  Geotechnical Engineering Office Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (July 2007)  BS 1377: Part 9: 1990 Cl. 5.1  BS 1377: Part 3: 1990 Cl. 10.3  BS 1377: Part 3: 1990 Cl. 10.4  BS 1377: Part 3: 1990 Cl. 11

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Structural fixings	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 20 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear test of anchor bolts and dowel bars by incremental loading in the force range 2 kN – 450 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 7.1, 7.2.2 & Cl.7.2.3
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 20 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Tensile pull out testing to anchor device	BS 7883: 2005 Cl. 11.1.1 BS EN 795: 1997 Cl. 5.2.1
	Tensile test of anchor bolts and dowel bars by incremental loading in the force range 2 kN – 450 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.2 & 7.1.3

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles	Length and width of ceramic floor and wall tiles  Thickness of ceramic floors and wall tiles  Straightness of sides of ceramic floor and wall tiles  Rectangularity of ceramic floor and wall tiles  Surface flatness of ceramic floor and wall tiles  Water absorption of ceramic floor and wall tiles  Mohs hardness  Resistance to deep abrasion of unglazed ceramic tiles  Linear thermal expansion of ceramic tiles  Resistance to thermal shock  Craze resistance of glazed ceramic tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 2  BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 3  BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 4  BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 5  BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 6  BS 6431: Part 11: 1983 + Amd. 7100 EN 99: 1991  BS 6431: Part 13: 1986 + Amd. 7102 EN 101: 1991  BS 6431: Part 14: 1983 + Amd. 7103 EN 102: 1991  BS 6431: Part 15: 1983 + Amd. 7104 EN 103: 1991  BS 6431: Part 16: 1983 + Amd. 7105 EN 104: 1991  BS 6431: Part 17: 1983 + Amd. 7106 EN 105: 1991

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles (cont'd)	Resistance to surface abrasion of glazed ceramic floor and wall tiles (PEI method)  Surface quality of ceramic floor and wall tiles  Measurement of spacer lugs of ceramic tiles  Modulus of rupture of ceramic floor and wall tiles  Chemical resistance of glazed ceramic floor and wall tiles  Chemical resistance of unglazed ceramic floor and wall tiles  Length and width of ceramic tiles tiles  Thickness of ceramic tiles  Straightness of side of ceramic tiles  Rectangularity of ceramic tiles  Surface flatness of ceramic tiles  Surface quality of ceramic tiles  Water absorption, apparent porosity, apparent relative density and bulk density of ceramic tiles	BS 6431: Part 20: 1984 + Amd. 7109 EN 154: 1991  BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 7  In-house method CTILE-SPACER-LUGS  BS 6431: Part 12: 1983 + Amd. 7101 EN 100: 1991  BS 6431: Part 19: 1984 EN 122: 1991 + Amd. 7108  BS 6431: Part 18: 1983 EN 106: 1991 + Amd. 7101  BS EN ISO 10545-2: 1997 Cl. 2  BS EN ISO 10545-2: 1997 Cl. 3  BS EN ISO 10545-2: 1997 Cl. 4  BS EN ISO 10545-2: 1997 Cl. 5  BS EN ISO 10545-2: 1997 Cl. 6  BS EN ISO 10545-2: 1997 Cl. 7  BS EN ISO 10545-3: 1997 BS EN ISO 10545-3: 2018

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tiles (cont'd)	Modulus of rupture and breaking strength of ceramic tiles  Impact resistance by measurement of coefficient of restitution  Resistance to deep abrasion for unglazed ceramic tiles  Resistance to surface abrasion of glazed ceramic tiles  Linear thermal expansion of ceramic tiles  Resistance to themal shock of ceramic tiles  Moisture Expansion  Crazing resistance for glazed ceramic tiles  Chemical resistance of ceramic tiles  Resistance to stains of ceramic tiles  Small colour difference  Static coefficient of friction of ceramic tiles	BS EN ISO 10545-4: 1997 BS EN ISO 10545-4: 2014  BS EN ISO 10545-5: 1998  BS EN ISO 10545-6: 1997  BS EN ISO 10545-7: 1997  BS EN ISO 10545-8: 1996 BS EN ISO 10545-8: 2014  BS EN ISO 10545-9: 1996  BS EN ISO 10545-10: 1997  BS EN ISO 10545-11: 1996  BS EN ISO 10545-13: 1997 BS EN ISO 10545-13: 2016  BS EN ISO 10545-14: 1997  BS EN ISO 10545-16: 2000  ASTM C1028-07

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Tile adhesives	Initial tensile adhesion strength  Tensile adhesion strength after water immersion  Tensile adhesion strength after heat ageing  Tensile adhesion strength after freeze-thaw cycles  Open time: tensile adhesion strength  Early tensile adhesion strength  Slip	BS EN 1348: 2007 BS EN 12004-2: 2017  BS EN 1348: 2007 BS EN 12004-2: 2017  BS EN 1348: 2007 BS EN 12004-2: 2017  BS EN 1346: 2007 BS EN 12004-2: 2017  BS EN 1348: 2007 BS EN 12004-2: 2017  BS EN 1308: 2007 BS EN 12004-2: 2017
Tile grout	Water absorption	ANSI A118.6-1992 Cl. H3.4
Underground utility survey	Pipe cable locating / Electromagnetic locating	Specifications for Nondestructive Testing, Surveying, Imaging and Diagnostic for Underground Utilities - 1.1 Pipe Cable Locating / Electromagnetic Locating (2019) published by Department of Land Surveying and Geo-informatics (LSGI) of The Hong Kong Polytechnic University

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Valves	<p>Coating thickness measurement of valves</p> <p>Dimensions of copper alloy check &amp; gate valves</p> <p>Dimensions of copper alloy gate valves</p> <p>Dimensions of expansion joint, settlement joint, flexible joint and strainer</p> <p>Hydrostatic shell and seat tests of cast iron check valves</p> <p>Hydrostatic shell and seat tests of cast iron gate valves</p> <p>Hydrostatic shell and seat tests of copper alloy globe, globe stop and check, check and gate valves</p> <p>Hydrostatic shell and seat tests of predominantly key-operated cast iron gate valves for waterworks purposes</p> <p>Resistance to operating loads of isolating valves</p>	<p>Water Industry Specificaion 4-52-01 Dec 1992: Issue 1 App. B in conjunction with the following specification(s): Water Industry Specificaion 4-52-01 Dec 1992: Issue 1 Cl. 12.7.1</p> <p>In-house method VAL-COPPER-DIM-BS5154 in conjunction with the following specification(s): BS 5154: 1991 Cl. 8 Tables 4, 5, 7 and 8</p> <p>In-house method VAL-COPPER-DIM-EN12288 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 4.2.4</p> <p>In-house method VAL-Strainer-DIM</p> <p>BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5153: 1974 + Amd. 1, 2 &amp; 3 Cl. 18</p> <p>BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5150: 1990 Cl. 18</p> <p>BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5154: 1991 Cl. 11</p> <p>BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5163: 1986 + Amd. 1 &amp; 2 Cl. 19</p> <p>BS EN 1074-2: 2000 + A1: 2004 Annex A in conjunction with the following specification(s): BS EN 1074-2: 2000 + A1: 2004 Cl. 5.1.4</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Valves (cont'd)	Shell and seat tightness of metallic and copper alloy gate valves  Testing of resistance and leak-tightness to internal pressure of the shell and of all pressure containing components and seat tightness at high differential pressure of valves for water supply-fitness for purposes requirements and appropriate verification tests	BS EN 12266-1: 2012 Cl. A3 & A4 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 5.1  BS EN 1074: Part 1 to 4: 2000



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Construction Materials 建築材料</b>			
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術	
Water closet suites  - Cistern	Shell thickness	BS 7357: 1990 Cl. 5.1.3	
	Spill-over level	BS 7357: 1990 Figure 1	
	Dead load test on operating mechanism (push button only)	BS 7357: 1990 App. H.3	
	Visual examination	BS 3402: 1969 Table 2	
	Warning pipe connection	BS 7357: 1990 Cl. 13.1 BS EN 997: 2003 Cl. 6.17.2 BS EN 997: 2018 Cl. 6.17.2	
	Flushing apparatus torque	BS 7357: 1990 App. D	
	Physical endurance of flushing device	BS EN 997: 2003 Cl. 6.17.5 BS EN 997: 2012 + A1: 2015 Cl. 6.17.5 BS EN 997: 2018 Cl. 6.17.5	
	Valve reliability	BS EN 997: 2003 Cl. 5.8.6 BS EN 997: 2018 Cl. 5.7.5.4	
	Chemical endurance of flushing device	BS EN 997: 2003 Cl. 6.17.6 BS EN 997: 2018 Cl. 6.17.6	
	- Compact type float operated valve	Distortion for backnuts and inlet shank (bottom entry type only)	BS 1212 Part 3: 1990 Cl. 13.1 & App. A.2.2 with modifications
		Static pressure	BS 1212 Part 3: 1990 Cl. 14.1 with modifications
		Shut-off pressure	BS 1212 Part 3: 1990 Cl. 14.2 & App. D with modifications
		Dynamic pressure	BS 1212 Part 3: 1990 Cl. 14.3 & App. E with modifications
Endurance		BS 1212 Part 3: 1990 Cl. 17 & App. H with modifications	
	Backflow prevention	BS 1212 Part 3: 1990 Cl. 15 & App. F with modifications	

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water closet suites (cont'd)  - Completed assembly	Flushing volume & water trap seal  Flushing rate  Flushing  Volume of discharge  Solid discharge and after-flush volume for maximum flush volume  Paper discharge for reduced-flush volume  Liquid contaminant dye retention  Wash of bowl	BS EN 997: 2003 Cl. 6.17.3 BS EN 997: 2012 + A1: 2015 Cl. 6.17.3 BS EN 997: 2018 Cl. 6.17.3  BS EN 997: 2003 Cl. 6.17.4 BS EN 997: 2012 + A1: 2015 Cl. 6.17.4 BS EN 997: 2018 Cl. 6.17.4  BS 7358: 1990 App. A  BS 7358: 1990 App. B  BS EN 997: 2003 Cl. 6.17.7 BS EN 997: 2018 Cl. 6.17.7  BS EN 997: 2003 Cl. 6.17.8 BS EN 997: 2018 Cl. 6.17.8  BS EN 997: 2003 Cl. 6.17.9 BS EN 997: 2018 Cl. 6.17.9  BS EN 997: 2003 Cl. 6.17.10 BS EN 997: 2018 Cl. 6.17.10
- WC Pan	Connection dimensions  Height from base to top surface  Visual examination  Water absorption  Crazeing  Chemical resistance  Resistance to staining & burning  Static load test (pedestal ceramic only)	BS EN 33: 2011 Cl. 2.2 Table 3 & 4, Cl. 4 Table 8 Figure 2 & 3a  Hong Kong Housing Authority Specification Library (2022) Cl. PLU2.M110.9(2)(b)(i)  BS 3402: 1969 Table 1  BS EN 997: 2003 Cl. 5.8.3 BS EN 997: 2018 Cl. 5.7.3 BS 3402: 1969 App. A  BS 3402: 1969 App. B  BS 3402: 1969 App. C  BS 3402: 1969 App. D  BS EN 997: 2003 Cl. 5.8.4 BS EN 997: 2018 Cl. 5.7.4

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (destructive)	Bend test on welds in metallic materials  Fracture test on welds in metallic materials  Transverse tensile test on welds in metallic materials in the force range 2 kN – 2500 kN  Longitudinal tensile test on welds in metallic materials in the force range 2 kN – 2500 kN  Tensile test on welded reinforcing steel for concrete in the force range 10 kN to 2000 kN  Tensile test on welded reinforcing steel for concrete in the force range 10 kN to 2000 kN  Bend test on welded reinforcing steel for concrete  Impact test on welds in metallic materials  Vickers hardness test across welded joints in scale range HV5 and HV10  Macroscopic and microscopic examination on welds in metallic materials  Slow bend test for crane rail  Marco test on welded reinforcing steel for concrete	BS EN 910: 1996 BS EN ISO 5173: 2010 + A1 : 2011  BS EN 1320: 1997 BS EN ISO 9017: 2018  BS EN 895: 1995 BS EN ISO 4136 : 2012  BS EN 876: 1995 BS EN ISO 5178 : 2011  BS 7123: 1989 Cl. 12.3.5  BS EN ISO 17660-1: 2006 Cl. 14.2  BS EN ISO 17660-1: 2006 Cl. 14.4  BS EN 875: 1995 BS EN ISO 9016 : 2012  BS EN 1043: Part 1: 1996 BS EN ISO 9015-1 : 2011  BS EN 1321: 1997 BS EN ISO 17639 : 2013  In-house method RD-SBEND-CRAIL  BS 7123: 1989 Cl. 12.3.6

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive)	<p>Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets, D.C. and A.C. yokes)</p> <p>Liquid penetrant test (Colour contrast method)</p> <p>Ultrasonic test (Butt welds in plates &amp; pipes, 'T'-joint welds, nozzle welds and node welds)</p>	<p>BS 6072: 1981 (1986)            BS EN 1290: 1998            BS EN ISO 9934-1: 2001            BS EN ISO 9934-1: 2016            BS EN ISO 17638: 2009            BS EN ISO 17638: 2016            in conjunction with the following specification(s):            BS 4515-1: 2009 Table 9            BS 5135: 1984 Table 18 &amp; 19            BS EN 25817: 1992 Table 1            BS EN ISO 5817: 2003 Table 1            BS EN ISO 5817: 2007 Table 1            BS EN ISO 5817: 2014 Table 1            Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b</p> <p>BS 6443: 1984            BS EN 571-1: 1997            BS EN ISO 3452-1: 2013            in conjunction with the following specification(s):            BS 4515-1: 2009 Table 9            BS 5135: 1984 Table 18 &amp; 19            BS EN 25817: 1992 Table 1            BS EN ISO 5817: 2003 Table 1            BS EN ISO 5817: 2007 Table 1            BS EN ISO 5817: 2014 Table 1            Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b</p> <p>BS 3923: Part 1: 1986 (Level 1, 2a, 2b &amp; 3)            BS EN 1714: 1998 (Level A, B, &amp; C)            BS EN ISO 17640: 2010 (Level A, B, &amp; C)            BS EN ISO 17640: 2018 (Level A, B, &amp; C)            in conjunction with the following specification(s):            BS 4515-1: 2009 Table 9            BS 5135: 1984 Table 18 &amp; 19            BS EN 25817: 1992 Table 1            BS EN ISO 5817: 2003 Table 1            BS EN ISO 5817: 2007 Table 1            BS EN ISO 5817: 2014 Table 1            Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

<b>Construction Materials 建築材料</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Radiographic examination (X-Ray)	BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Radiographic examination (Gamma Ray)	BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS 7123: 1989 Cl. 13.5 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS 7123: 1989 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS EN ISO 14555: 2006 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Windows	<p>Dimension test – overall size</p> <p>Dimension tests – individual members</p> <p>Operating forces (for side hung and top hung only)</p> <p>Resistance to static torsion (for side hung and top hung only)</p> <p>Resistance to racking (for side hung and top hung only)</p> <p>Endurance of fastener / hardware (for side hung and top hung only)</p> <ul style="list-style-type: none"> <li>- Operation of fastener</li> <li>- Movement of sash</li> <li>- Endurance of fastener/hardware</li> </ul> <p>Visual inspection on coating</p> <p>Thickness of coating</p> <p>Hardness test of rubber</p> <p>Heat resistance and accelerated ageing tests of rubber</p>	<p>Hong Kong Housing Authority Specification Library (2018) COM2.M005.8(2)(a)(i)</p> <p>Hong Kong Housing Authority Specification Library (2022) COM2.M005.9(2)(a)(i)</p> <p>BS 1474: 1987 Cl. 7.4</p> <p>BS EN 12046-1: 2003 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.1</p> <p>BS EN 14609: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.1</p> <p>BS EN 14608: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.2</p> <p>SS212: 2007 Cl. 10.2.2 &amp; Annex E Test 1 SS212: 2007 Cl. 10.2.2 &amp; Annex E Test 2 SS212: 2007 Cl. 10.2.2 &amp; Annex E Test 8</p> <p>BS 3987: 1991 Cl. 3 &amp; App. G</p> <p>BS EN ISO 1463: 1995</p> <p>BS 903-A26: 1995, ISO 48: 1994 (method N)</p> <p>BS 903-A19: 1998 (Method A - Air oven method)</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chemical Testing 化學測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ferric Chloride Solution	Assay of ferric chloride	GB4482-2006 Section 5.1
Sodium Bisulphite	Assay of sodium bisulphite	HG/T3814-2006 cl. 4.3
Sodium Chlorite	Assay of sodium chlorite	HG/T3250-2010 cl. 5.4
Sodium Hypochlorite Solution	Available chlorine	ASTM D2022-89 (Reapproved 2008) cl. 6 to 9 GB 19106-2003 cl.5.1
Sodium Hydroxide Solution	Determination of sodium hydroxide	GB/T4348.1-2000 <Excluding determination of sodium carbonate>



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese Medicines (pCM)	Microbiological examinations:-  - 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 霉菌與酵母菌數 Mold and Yeast count 大腸桿菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i>  細菌數 Aerobic bacteria count 霉菌與酵母菌數 Mould and yeast count 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> 大腸菌群 Coliform 梭菌 <i>Clostridium</i> 白色念珠菌 <i>Candida albicans</i>	中華人民共和國藥典 2000 年版一部附錄 XIIC Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIIC  中華人民共和國藥典 2010 年版一部附錄 XIIC Pharmacopoeia of the People's Republic of China, 2010, Volume I, App. XIIC

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Proprietary Chinese medicine (pCm)</p> <p>非無菌不含藥材原粉的中藥製劑 Non-sterile pCm products without crude drug powder</p> <p>非無菌含藥材原粉的中藥製劑 Non-sterile pCm products with crude drug powder</p> <p>非無菌藥用原料及輔料 Non-sterile pCm Substances for Pharmaceutical Use</p> <p>中藥提取物及中藥飲片 Chinese Medicine Extracts and Decoction of Chinese Medicine</p>	<p>Microbiological examinations (Cont'd):-</p> <p>非無菌藥品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products</p> <p>- Microbial Enumeration Tests and Tests for Specified Microorganisms</p> <p>- 微生物計數法及控制菌檢查法 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 梭菌 <i>Clostridium</i> 白色念珠菌 <i>Candida albicans</i></p>	<p>中華人民共和國藥典 2015 年版四部 1107 段點 3 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.3</p> <p>中華人民共和國藥典 2015 年版四部 1107 段點 4 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.4</p> <p>中華人民共和國藥典 2015 年版四部 1107 段點 5 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.5</p> <p>中華人民共和國藥典 2015 年版四部 1107 段點 6 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.6</p> <p><i>Test Procedures for compliance testing:</i> 中華人民共和國藥典 2015 年版四部 1105 段及 1106 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Parts 1105 &amp; 1106</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Proprietary Chinese medicine (pCm)</p> <p>非無菌不含藥材原粉的 中藥製劑 Non-sterile pCm products without crude drug powder</p> <p>非無菌含藥材原粉的 中藥製劑 Non-sterile pCm products with crude drug powder</p> <p>非無菌藥用原料及輔料 Non-sterile pCm Substances for Pharmaceutical Use</p> <p>中藥提取物 Chinese Medicine Extracts</p>	<p>Microbiological examinations (Cont'd):-</p> <p>非無菌藥品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products</p> <p>微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 梭菌 <i>Clostridium</i> 白色念珠菌 <i>Candida albicans</i></p>	<p>中華人民共和國藥典 2020 年版四部 1107 段點 3 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 3 &amp; Cl. 8</p> <p>中華人民共和國藥典 2020 年版四部 1107 段點 4 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 4 &amp; Cl. 8</p> <p>中華人民共和國藥典 2020 年版四部 1107 段點 5 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 5 &amp; Cl. 8</p> <p>中華人民共和國藥典 2020 年版四部 1107 段點 6 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 6 &amp; Cl. 8</p> <p><i>Test Procedures for compliance testing:</i> 中華人民共和國藥典 2020 年版四部 1105 段及 1106 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Parts 1105 &amp; 1106</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese medicine (pCm)  中藥飲片 Decoction of Chinese Herbal Medicines	Microbiological examinations (Cont'd):-  非無菌藥品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products  - 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species	中華人民共和國藥典2020年版四部 1107段點6及點8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 6 & Cl. 8  <i>Test Procedures for compliance testing:</i> 中華人民共和國藥典 2020 年版四部 1108 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1108

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese medicine (pCm)  中藥飲片 Decoction of Chinese Herbal Medicines (Cont'd)	Microbiological examinations (Cont'd):-  - 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 耐熱菌總數 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species	中華人民共和國藥典 2020 年版四部 1108 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1108

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Proprietary Chinese Medicines (pCHM)	Toxic elements: -  - Mercury  - Cadmium	In-house method FD-TCM-HM2 (ICP-MS)  In-house method FD-TCM-HM8 (ICP-MS)
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Arsenic, Cadmium, Copper, Lead and Mercury	In-house method FD-TCM-HM1 (ICP-OES)
Decoction of Chinese Herbal Medicines (dCHM)	- Arsenic, Cadmium, Copper, Lead and Mercury	In-house method FD-TCM-HM7 (ICP-MS)
Ointments, liniments and plasters	Pesticides residues:-  - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house method FD-TCM-PEST-2 (GC-ECD/GC-MSD)
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house method FD-TCM-PEST-1 (GC-ECD/GC-MSD)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Chinese Herbal Medicines (CHM), Decoction of Chinese Herbal Medicines (dCHM) and Concentrated Granules of Chinese Herbal Medicines (gCHM) &lt;Excluding the following&gt; CHM of mineral origin, dCHM containing materials of mineral origin, gCHM containing materials of mineral origin</p> <p>Chinese Materia Medica 中藥材</p> <p>Radix Ginseng 人參</p>	<p>Pesticides residues (Cont'd):-</p> <p>- Organochlorine pesticides: Endosulfan I, Endosulfan II and Endosulfan sulphate</p> <p>Mycotoxins: - - Aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub> - Sum of aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub> and G<sub>2</sub></p> <p>- Sulphur dioxide</p> <p>Toxic elements :-</p> <p>Arsenic, Cadmium, Lead and Mercury</p> <p>- Physicochemical Identification 理化鑒別 - Thin-layer chromatographic identification 薄層色譜鑒別 - High-Performance Liquid Chromatographic Fingerprinting 高效液相色譜指紋圖譜鑒別 - Assay 含量測定 - Microscopic identification 顯微鑒別</p>	<p>In-house method FD-TCM-PEST-7 (GC-ECD for quantitation and GC-MSD for confirmation)</p> <p>In-house method FD-CHM-AFLAT1 (screening by LC/MS/MS and quantitation by HPLC-FLD)</p> <p>In-house method FD-CHM-SO<sub>2</sub>-1 (Distillation-titrimetric method)</p> <p>Hong Kong Chinese Materia Medica Standards Volume 1-4, Appendix V 香港中藥材標準第一至四冊，附錄 V</p> <p>Hong Kong Chinese Materia Medica Standards Volume 1 香港中藥材標準第一冊</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
藥劑產品 Pharmaceutical Products  散劑 Powder  顆粒劑 Granules  片劑 Tablets	製劑通則 General requirements for preparation:-  水份(烘乾法) water (Drying in oven method)  裝量差異 Filling variation  水份(烘乾法) water (Drying in oven method)  裝量差異 Filling variation  重量差異 Weight variation  溶散時限 Disintegration test	中華人民共和國藥典2010年版一部 (中文版) Pharmacopoeia of the People's Republic of China 2010, Volume 1 (Chinese Edition)  附錄 IB App. IB <i>Test procedures for compliance testing:-</i> 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)  附錄 IB [裝量差異] App. IB (Filling variation)  附錄 IC App. IC <i>Test procedures for compliance testing:-</i> 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)  附錄 IC [裝量差異] App. IC (Filling variation)  附錄 ID App. ID <i>Test procedures for compliance testing:-</i> 附錄 ID [重量差異] App. ID (Weight variation)  溶散時限 / 崩解時限按附錄 XIIA Disintegration in accordance with App. XIIA



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Chinese Medicine 中藥</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
藥劑產品 Pharmaceutical Products (cont'd)	製劑通則 General requirements for preparation:- (cont'd)	中華人民共和國藥典2010年版一部 (中文版) Pharmacopoeia of the People's Republic of China 2010, Volume 1 (Chinese Edition)
膠囊劑 Capsules	水份(烘乾法) Water (Drying in oven method)	附錄 I L App. I L <i>Test procedures for compliance testing:-</i> 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	裝量差異 Filling variation	附錄 I L [裝量差異] App. I L (Filling variation)
	溶散測時限 Disintegration test	溶散時限 / 崩解時限按附錄 XIII A Disintegration in accordance with App. XIII A
丸劑 Pills	水份(烘乾法) Water (Drying in oven method)	附錄 I A App. I A <i>Test procedures for compliance testing:-</i> 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	重量差異 Weight variation	附錄 I A [重量差異] App. I A (Weight variation)
	裝量差異 Filling variation	附錄 I A [裝量差異] App. I A (Filling variation)
	溶散時限 Disintegration test	溶散時限 / 崩解時限按附錄 XIII A Disintegration in accordance with App. XIII A

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixture (chemical analysis)	Dry material content  Conventional dry material content  Ash content  Chloride ion content  Relative density (liquid)  Nitric acid soluble sodium oxide and potassium oxide contents  Density (liquid)  Water soluble chloride content  Sodium oxide content  Potassium oxide content  Alkali content  pH value	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D1  BS EN 480 : Part 8 : 1997  BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D2  BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. E  BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D3  In-house Method ADM-CML.Na-K  ISO 758 : 1976 (E)  BS EN 480 : Part 10 : 2009 (Method 3)  BS EN 480 : Part 12 : 2005  BS EN 480 : Part 12 : 2005  BS EN 480 : Part 12 : 2005  ISO 4316 : 1977 (E)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Construction Materials 建築材料</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates (chemical analysis)	Water-soluble chloride content	BS 812: Part 117 : 1988 App. C <i>Excluding</i> Cl. 4
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Water-soluble sulphate content	BS 812: Part 118 : 1988 Cl. 5 (Gravimetric) <Excluding Cl. 4>
	Total sulphate (acid extraction)	BS 812: Part 118 : 1988 Cl. 6 <Excluding Cl. 4>
	Acid-soluble material	BS 812: Part 119 : 1985 <Excluding Cl. 4>
	Soluble silica (SiO <sub>2</sub> )	HKHA MTS (04/06) Specification Part D Cl. 1.4.9
	Soluble calcium oxide (CaO)	HKHA MTS (04/06) Specification Part D Cl. 1.4.9
	Potential reactivity	ASTM C289-87 <Excluding Cl. 10 and Cl. 14.4> ASTM C289-94 <Excluding Cl. 9 and App. XI>
	Presence of humus	CS3: 2013 Section 21.7
	Water-soluble chloride salt content	BS EN 1744-1:2009 A1:2012 Cl. 7 (Reference method) <Excluding Cl. 7.2>
	Water-soluble sulfate content	BS EN 1744-1:2009 A1:2012 Cl. 10.1 <Excluding Cl. 10.1.2>
Acid-soluble sulfate content	BS EN 1744-1:2009 A1:2012 Cl. 12 <Excluding Cl. 12.2>	

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis)	Heat of hydration  Aluminium oxide content  Calcium oxide content  Chloride ion content (Cl)  Residue insoluble in hydrochloric acid and sodium carbonate  Iron (III) oxide content  Loss-on-ignition (L.O.I.)  Magnesium oxide content  Sulfate content (as SO <sub>3</sub> )  Total silica content (SiO <sub>2</sub> )  Pure silica content(SiO <sub>2</sub> )  Soluble silica content (SiO <sub>2</sub> )	BS 4550 : Part 3 : Section 3.8 : 1978 with modification  BS EN 196-2 : 2005 Cl. 13.11  BS EN 196-2 : 2005 Cl. 13.12 (Reference method)  BS EN 196-21 : 1992 Cl. 4 BS EN 196-2 : 2005 Cl. 14 BS EN 196-2 : 2013 Cl. 4.5.16  BS EN 196-2 : 1995 Cl. 9 BS EN 196-2 : 2005 Cl. 9 BS EN 196-2 : 2013 Cl. 4.4.3  BS EN 196-2 : 2005 Cl. 13.10  BS EN 196-2 : 1995 Cl. 7 BS EN 196-2 : 2005 Cl. 7 BS EN 196-2 : 2013 Cl. 4.4.1  BS EN 196-2 : 2005 Cl. 13.13 (Reference method)  BS EN 196-2 : 1995 Cl. 8 BS EN 196-2 : 2005 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2  BS EN 196-2 : 2005 Cl. 13.9  BS EN 196-2 : 2005 Cl. 13.6  BS EN 196-2 : 2005 Cl. 13.8

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Cement (chemical analysis) (cont'd)	Potassium oxide content   Sodium oxide content   Alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)  BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)  BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (chemical analysis)	<p>pH value</p> <p>Oven-dried bulk density</p> <p>Cement content and Aggregate/Cement ratio</p> <p>Calcium oxide content</p> <p>Cement content and Aggregate content (by CaO determination)</p> <p>Aggregate / cement ratio (based on CaO content)</p> <p>Detection of PFA</p> <p>Cement and aggregate content</p> <p>Original water content</p> <p>Identification of type of aggregate</p> <p>Chloride ion content</p> <p>Chloride content by weight of concrete sample</p>	<p>In-house method CON-CML-PH</p> <p>BS 1881 : Part 124 : 1988 Cl. 4.2</p> <p>BS 1881 : Part 124 : 1988 Cl. 5</p> <p>BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6 &lt;Excluding Cl. 6.5 to Cl. 6.9&gt;</p> <p>BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6 &lt;Excluding Cl. 6.5 to Cl. 6.8&gt;</p> <p>BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6.9</p> <p>CS 1 : 1990 Section 21.5 CS 1 : 2010 Section 21.5</p> <p>CS 1 : 1990 Section 21.6 CS 1 : 2010 Section 21.6</p> <p>BS 1881 : Part 124 : 1988 Cl. 7 CS 1 : 1990 Section 21.7 CS 1 : 2010 Section 21.7</p> <p>CS 1 : 1990 Section 21.9 CS 1 : 2010 Section 21.9</p> <p>BS 1881 : Part 124 : 1988 Cl. 10.2 BS 1881 : Part 124 : 2015+A1: 2021 Cl. 12.1 CS 1 : 1990 Section 21.10.2 CS 1 : 2010 Section 21.10.2</p> <p>BS 1881 : Part 124 : 1988 Cl. 10.2 in conjunction with In-house method CON-BS1881-Cl (by calculation) BS 1881 : Part 124 : 2015+A1: 2021 Cl. 12.1 in conjunction with In-house method CON-BS1881(21)-CL(CAL) (by calculation) CS 1 : 1990 Section 21.10.2 in conjunction with In-house method CON-CS1(1990)-Cl (by calculation) CS 1 : 2010 Section 21.10.2 in conjunction with In-house method CON-CS1(2010)-Cl (by calculation)</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete (chemical analysis) (cont'd)	Sulphate content  Sulphate content by weight of concrete sample  Carbonate content  Determination of chloride content in hardened concrete	BS 1881 : Part 124 : 1988 Cl. 10.3 CS 1 : 1990 Section 21.10.3 CS 1 : 2010 Section 21.10.3  BS 1881 : Part 124: 1988 Cl. 10.3 in conjunction with In-house method CON-BS1881-SO3(CAL) (by calculation) CS 1: 1990 Section 21.10.3 in conjunction with In-house method CON-CS1(1990)-SO3 (by calculation) CS 1: 2010 Section 21.10.3 in conjunction with In-house method CON-CS1(2010)-SO3 (by calculation)  CS 1 : 1990 Section 21.10.4.2 (Manometric) CS 1 : 2010 Section 21.10.4.2 (Manometric)  BS EN 14629 : 2007 Method A

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ground granulated blastfurnace slag (chemical analysis)	Moisture content  Loss-on-ignition (L.O.I.)  Sulfate content (as SO <sub>3</sub> )  Sulfide content  Maganese content (as Mn <sub>2</sub> O <sub>3</sub> )  Aluminium oxide content (Al <sub>2</sub> O <sub>3</sub> )  Total silica content (SiO <sub>2</sub> )  Calcium oxide content (CaO)  Magnesium oxide content (MgO)  Chloride ion content (Cl <sup>-</sup> )  Titanium dioxide content (TiO <sub>2</sub> )  Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 15167-1 :2006 Annex A  BS EN 196-2 : 2005 Cl.7 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.4.1  BS EN 196-2 : 2005 Cl.8 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl.4.4.2  BS EN 196-2 : 2005 Cl.11 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl.4.4.5  BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.12  BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.11  BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.9  BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.12 (Reference method)  BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.13 (Reference method)  BS EN 196-2 : 2005 Cl. 14 BS EN 15167-1 : 2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.5.16  BS EN 15167-1 :2006 Cl. 5.5 d & BS EN 196-2 :1995 National Annex NB  BS EN 196-2: 2005 Cl. 9 BS EN 196-2: 2013 Cl. 4.4.3



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Ground granulated blastfurnace slag (chemical analysis)	Potassium oxide content  Sodium oxide content  Total alkali content	BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)  BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)  BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
Ground water (chemical analysis)	pH value  Sulphate content	GEOSPEC 3 : 2001 Test 9.5 GEOSPEC 3 : 2017 Test 9.5  GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<p>Metallic materials (chemical analysis)</p> <p>Solder alloy (Tin and tin alloy) in the forms of wire, ribbon and pellet</p> <p>Aluminium and aluminium alloy</p> <p>- Aluminium and aluminium alloy (6000 series)</p>	<p>Elemental composition : -</p> <p>- Cadmium, Lead, Nickel</p> <p>- Bismuth, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Silicon, Titanium, Vanadium, Zinc, Zirconium</p>	<p>In-house method MET-SN-01 (ICP-OES)</p> <p>In-house Method MET-AL-02 (Spark-OES)</p>



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Construction Materials 建築材料</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metallic materials (chemical analysis)	Elemental composition : -	
Iron (chemical analysis)	Total carbon content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Total sulfur content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Nitrogen content	BS EN ISO 15351 : 2010 ISO 15351 : 1999
Steel (chemical analysis)	Elemental composition : -	
	Total carbon content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Total sulfur content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Nitrogen content	BS EN ISO 15351 : 2010 ISO 15351 : 1999
	Nitrogen content	ASTM E1019-08
	Niobium content	In-house Method ST-NB-1 (ICP-OES)
	- Chromium, Copper, Manganese, Molybdenum, Nickel, Phosphorus, Silicon, Titanium, Vanadium	In-house Method ST-MULTI-1 (ICP-OES)
- Low alloy steel	- Carbon, Chromium, Copper, Manganese, Molybdenum, Nitrogen, Nickel, Phosphorus, Sulphur, Vanadium	In-house Method ST-MULTI-2 (Spark-OES)
- Carbon steel	- Carbon, Chromium, Copper, Manganese, Molybdenum, Nitrogen, Nickel, Phosphorus, Sulphur, Vanadium	In-house Method ST-MULTI-2 (Spark-OES)
- Carbon and low alloy steel	Carbon Equivalent Value	In-house Method ST-CEV (By calculation)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Polymer latex solution (chemical analysis)	Polymer solids content	HKHA Standard 002 : 1990 Cl. 2 (modified)
Polymer-modified mortar and prebagged material (chemical analysis)	Sample treatment	HKHA Standard 002 : 1990 Cl. 6 (modified)
	Calcium oxide content	HKHA Standard 002 : 1990 Cl. 7.1 (modified)
	Carbon dioxide content	HKHA Standard 002 : 1990 Cl. 7.2 (modified)
	Cement content and aggregate/cement ratio	HKHA Standard 002 : 1990 Cl. 7 (modified)
	Polymer solids content	HKHA Standard 002 : 1990 Cl. 8 (modified)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Construction Materials 建築材料</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis)	Sulphuric anhydride content (as SO <sub>3</sub> )	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.4 & BS EN 196-2 : 2005 Cl. 8
	Sulphate content (as SO <sub>3</sub> )	BS EN 450-1: 2012 Cl. 5.2.4 & BS EN 196-2 : 2005 Cl. 8
	Sulfate content (as SO <sub>3</sub> )	BS EN 196- 2 : 1995 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2
	Loss-on-ignition	BS EN 196-2 : 1995 Cl. 7 (using 1h ignition time) BS EN 196-2: 2013 Cl. 4.4.1 (using 1h ignition time) BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.2 & BS EN 196-2 : 2005 Cl. 7 (using 1h ignition time) BS EN 450-1: 2012 Cl. 5.2.2 & BS EN 196-2: 2005 Cl. 7 (using 1h ignition time)
	Magnesia	BS 3892 : Part 1 : 1982 (AMD 4629) App. C
	Magnesium oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.10 & BS EN 196-2 : 2005 Cl. 13.13 (Reference method)
	Iron (III) oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.10
	Aluminium oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.11
	Total silica content (SiO <sub>2</sub> )	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.9
	Calcium oxide content (CaO)	BS EN 196- 2 : 1995 Cl. 13.12 BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.6 & BS EN 196-2 : 2005 Cl. 13.12 (Reference method)
Chloride content	BS EN 196- 21 : 1992 Cl. 4 BS EN 196-2: 2013 Cl. 4.5.16 BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.3 & BS EN 196-2 : 2005 Cl. 14 BS EN 450-1: 2012 Cl. 5.2.3 & BS EN 196-2: 2005 Cl. 14	

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Pulverized fuel ash (chemical analysis)	Potassium oxide content  Sodium oxide content  Total alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2: 2005 Cl. 17 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)  BS EN 196-21: 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)  BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method) BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.9 & BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 450-1: 2012 Cl. 5.2.9 & BS EN 196-2 : 2005 Cl. 17 (Reference method)
Portland pulverized fuel ash cement (chemical analysis)	Sulphuric anhydride content (as SO <sub>3</sub> )  Loss-on-ignition  Magnesia  Proportion of pulverized fuel ash	BS EN 196-2 : 1995 Cl. 8  BS 4550 : Part 2: 1970 Cl. 13.2  BS 3892 : Part 1 : 1982 (Amd 4629) App. C  BS 6588 : 1985 App. A.3

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Silica fume (chemical analysis)	Dry mass content at 105°C  Loss-on-ignition (L.O.I.)  Silicon dioxide content (SiO <sub>2</sub> )  Sulfate content (as SO <sub>3</sub> )  Chloride ion content (Cl <sup>-</sup> )  Free calcium oxide content  Total alkali content	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.1  BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.7  BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 13.3 & Cl. 13.6  BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 8  BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.14  BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 451-1 : 2003  BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.17 (Reference method)



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (chemical analysis)	Total sulphate content  Water-soluble sulphate content  Organic matter content  Loss-on-ignition  Water-soluble chloride content  pH value  Carbonate	GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3  GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3  GEOSPEC 3 : 2001 Test 9.1 GEOSPEC 3 : 2017 Test 9.1  GEOSPEC 3 : 2001 Test 9.2 GEOSPEC 3 : 2017 Test 9.2  GEOSPEC 3 : 2001 Test 9.4 GEOSPEC 3 : 2017 Test 9.4  GEOSPEC 3 : 2001 Test 9.5 GEOSPEC 3 : 2017 Test 9.5  BS EN ISO 10693: 2014

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water (chemical analysis)	Total solids dried at 103-105°C	In-house Method WTR-CML-TM Section 8 (Gravimetric)
	Total dissolved solid dried at 180°C	In-house Method WTR-CML-TM Section 9 (Gravimetric)
	Chloride content	In-house Method WTR-CML-TM Section 4 (Titrimetric) BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 4
	Sulphate content	In-house Method WTR-CML-TM Section 5 (Turbidimetric) BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-2: 1995 Cl. 8
	Alkalinity	In-house Method WTR-CML-TM Section 6 (Titrimetric)
	pH value	In-house Method WTR-CML-TM Section 7 (Electrode)
	Acid-soluble alkali content	In-house Method WTR-CML.Na-K
	Alkali content	BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Drinking water	Physical Examination : -  - Colour	APHA 19e 2120B APHA 21e 2120B
Saline water	Physical Examination : -  - Total suspended solids dried at 103 - 105°C  Non-metallic Constituents:-  - Nitrogen (Ammonia)  - Nitrogen (Nitrate)  - Nitrogen (Nitrite)  - Nitrogen (Nitrate + Nitrite)  - Phosphorus (Reactive)	APHA 23e 2540 D  In-house method EN-NH3-ISE (By ion-selective electrode) In-house method EN-SEA-NH3-FIA (By FIA)  In-house method EN-SEA-NO2NO3-FIA (By calculation)  In-house method EN-SEA-NO2NO3-FIA (By FIA)  In-house method EN-SEA-NO2NO3-FIA (By FIA)  In-house method EN-SEA-OP-FIA (By FIA)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Environmental Testing 環境測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Saline water	Organic pollutants:-  - Polychlorinated Biphenyls (PCBs) : -  2,4'-Dichlorobiphenyl (PCB #8) 2,2',5'-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3',4,4'-Pentachlorobiphenyl (PCB#105) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6 -Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6 -Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6 -Nonachlorobiphenyl (PCB #206)	In-house method EN-WAT-PCB (GC/MSD)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Saline water (cont'd)	<p>Organic pollutants:- (cont'd)</p> <p>- Organochlorine pesticides: -</p> <p>Aldrin, Dieldrin, Endrin, Endrin aldehyde, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methoxychlor, 4,4'-DDT, 4, 4'-DDE, 4,4'-DDD, Hexachlorocyclohexane isomers (alpha, beta, delta, and gamma-BHC (Lindane))</p> <p>- Tributyltin</p> <p>- Tributyltin in interstitial water</p> <p>- Polycyclic Aromatic Hydrocarbons (PAHs)</p> <p>Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Fluorene, Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benz(a)anthracene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene, Benzo (g,h,i)perylene, Benzo(b)fluoranthene, Benzo(k)fluoranthene</p> <p>- Hexachlorobenzene - Phenol - Bis(2-ethylhexyl)phthalate</p>	<p>In-house method EN-WAT-PEST-OC (GC/MSD)</p> <p>In-house method EN-WAT-TBT (GC/MSD)</p> <p>In-house method EN-WAT-TBT (GC/MSD)</p> <p>In-house method EN-WAT-SVOC (GC/MSD)</p> <p>In-house method EN-WAT-SVOC (GC/MSD)</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
 香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Saline water (cont'd)	Trace metals:-  - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	In-house method EN-SEA-METAL-MS (ICP/MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater	Physical examination :-  - Alkalinity – Total  - Alkalinity - Phenolphthalein  - Hardness (as CaCO <sub>3</sub> )  - Total solids dried at 103 - 105°C  - Total suspended solids dried at 103 - 105°C  - Total dissolved solids dried at 180°C  - Fixed & volatile solids ignited at 550°C  - Conductivity  - pH value  - Turbidity  Non-metallic Constituents:-  - Chloride  - Chlorine (Total residual)  - Chlorine (Free residual)  - Dissolved oxygen  - Fluoride	APHA 21e 2320 B  APHA 21e 2320 B  APHA 21e 2340 C  APHA 19e 2540 B APAH 21e 2540 B  APHA 19e 2540 D APHA 21e 2540 D APHA 23e 2540 D  APHA 21e 2540 C  APHA 21e 2540 E  APHA 19e, 2510B APHA 21e, 2510B  APHA 19e, 4500-H <sup>+</sup> B APHA 21e, 4500-H <sup>+</sup> B  APHA 19e, 2130B APHA 21e, 2130B  APHA 21e 4500-Cl <sup>-</sup> B  APHA 21e 4500-Cl <sup>-</sup> G  APHA 21e 4500-Cl <sup>-</sup> G  APHA 21e, 4500-O C & G  APHA 21e, 4500-F C

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater (cont'd)	Non-metallic Constituents:- (cont'd)  - Dissolved sulphide  - Sulphide (Total & Soluble)  - Sulfide (Total)  - Sulphate  - Phosphorus (Total)  - Phosphorus (Reactive)  - Nitrogen (Total)  - Nitrogen (Total Kjeldahl)  - Nitrogen (Ammonia)  - Organic nitrogen  - Nitrogen (Nitrate)  - Nitrogen (Nitrite)  - Nitrogen (Nitrate + Nitrite)  - Cyanide (Total)  - Cyanide (Free)	In-house method EN-S <sup>2-</sup> -FIA (By FIA)  APHA 21e 4500-S <sup>2-</sup> B&F  APHA 23e 4500-S <sup>2-</sup> D  APHA 21e 4500-SO <sub>4</sub> <sup>2-</sup> E  APHA 21e, 4500-P B & E  APHA 21e, 4500-P E In-house method EN-OP-FIA (By FIA)  In-house method EN-TN-FIA (By FIA)  APHA 21e, 4500-Norg B & APHA 21e, 4500-NH <sub>3</sub> C In-house method EN-TKN-FIA (By FIA)  APHA 21e, 4500-NH <sub>3</sub> B & D In-house method EN-NH <sub>3</sub> -FIA (By FIA)  In-house method EN-WAT-ON (By calculation)  APHA 21e, 4500-NO <sub>3</sub> <sup>-</sup> E In-house method EN-NO <sub>2</sub> NO <sub>3</sub> -FIA (By Calculation)  APHA 21e, 4500-NO <sub>2</sub> <sup>-</sup> B In-house method EN-NO <sub>2</sub> NO <sub>3</sub> -FIA (By FIA)  In-house method EN-NO <sub>2</sub> NO <sub>3</sub> -FIA (By FIA)  In-house method EN-TCN-FIA (By FIA)  In-house method EN-CN-FREE-ISE (By ion-selective electrode)



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Environmental Testing 環境測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater (cont'd)	Organic pollutants:-  - Chemical oxygen demand (COD)  - Oil and grease  - Biochemical Oxygen Demand  - Total Organic Carbon  - Anionic surfactants (as MBAS)  - Non-ionic surfactants (as CTAS)  - Total surfactants (Anionic and Non-ionic)  - Tributyltin  - Polycyclic Aromatic Hydrocarbons (PAHs) Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Fluorene, Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benz(a)anthracene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene, Benzo (g,h,i)perylene, Benzo(b)fluoranthene, Benzo(k)fluoranthene  - Hexachlorobenzene - Phenol - Bis(2-ethylhexyl)phthalate	APHA 19e 5220 B (Open reflux) ASTM D1252B : 2000 APHA 21e 5220 B (Open reflux)  APHA 19e 5520 B APHA 21e 5520 B  APHA 19e 5210 B APHA 21e 5210 B  In-house method EN-WAT-TOC (NDIR)  APHA 21e 5540 B & C  APHA 21e 5540 B & D  In-house method EN-WAT-TSF (By calculation)  In-house method EN-WAT-TBT (GC/MSD)  In-house method EN-WAT-SVOC (GC/MSD)  In-house method EN-WAT-SVOC (GC/MSD)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Environmental Testing 環境測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater (cont'd)	Organic pollutants:- (cont'd)  - Polychlorinated Biphenyls (PCBs) : -  2,4'-Dichlorobiphenyl (PCB #8) 2,2',5'-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3',4,4',5'-Pentachlorobiphenyl (PCB #118) 3,3',4,4',5'-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6 -Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB #156) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2', 3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6 -Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6 -Nonachlorobiphenyl (PCB #206)	In-house method EN-WAT-PCB (GC/MSD)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Environmental Testing 環境測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater (cont'd)	Organic pollutants:- (cont'd)  - Organochlorine pesticides: -  Aldrin, Dieldrin, Endrin, Endrin aldehyde, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methoxychlor, 4,4'-DDT, 4, 4'-DDE, 4,4'-DDD, Hexachlorocyclohexane isomers (alpha, beta, delta, and gamma-BHC (Lindane))  - Haloacetic acids: -  Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid  - Total Petroleum Hydrocarbons (TPHs) : -  C6 – C8 C9 – C16 C17– C35  - Volatile Organic Compounds (VOCs): -  Acetone Benzene Bromodichloromethane Bromoform 2-butanone (MEK) Chlorodibromomethane Chloroform Ethylbenzene Methyl tert-butyl ether (MTBE) Methylene chloride Styrene Tetrachloroethene Trichloroethene Toluene  Xylenes – Total (sum of ortho-, meta- & para-xylene)	In-house method EN-WAT-PEST-OC (GC/MSD)  In-house method EN-WAT-HAA (Methylation followed by GC/ECD & GC/MSD)  In-house method EN-WAT-TPH (Purge and Trap GC/MSD & GC/FID)  In-house method EN-VOC-GCMS (Purge and Trap GC/MSD)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater (cont'd)	Metals: - (Total)  - Iron  Trace metals: - (Total and Soluble)  - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc Calcium, Magnesium, Potassium, Sodium  - Aluminium, Antimony, Arsenic, Barium, Boron, Beryllium, Cadmium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Selenium, Silver, Strontium, Thallium, Tin, Chromium, Lead, Nickel, Vanadium, Zinc, Iron  - Hexavalent Chromium Cr (VI)  - Trivalent Chromium Cr (III)  - Mercury	APHA 19e, 3030A, 3030E and 3111B APHA 21e, 3030A, 3030E and 3111B  In-house method EN-WAT-METAL-OES (ICP/OES)  In-house method EN-WAT-METAL-MS (ICP/MS)  In-house method EN-WAT-Cr(VI) (Colorimetric)  In-house method EN-Cr(III)-SUB (By calculation)  In-house method EN-WAT-HG-FIMS (By FIMS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Solids and semi-solids	Physical Examination :-  - Total solids dried at 103 - 105°C  - Fixed & volatile solids ignited at 550°C	APHA 21e 2540 G  APHA 21e 2540 G
Soil	Physical Examination :-  - Specific electrical conductivity  Non-metallic Constituents:-  - Cyanide-Total  - Cyanide-Free  - Cyanide-Free  - Phosphorus content  - Total nitrogen content	BS 7755-3.4: 1995 ISO 11265: 1994  In-house method EN-CN-TOTAL (Colorimetric)  In-house method EN-CN-FREE-COR (Colorimetric)  In-house method EN-CN-FREE-ISE (By ion-selective electrode)  BS 7755-3.6: 1995 <Excluding the following> Sections 4.3, 5.2.1, 5.2.2, 6.3.2 & 6.4.2 ISO 11263: 1994 <Excluding the following> Sections 4.3, 5.2.1, 5.2.2, 6.3.2 & 6.4.2  BS 7755-3.7: 1995 ISO 11261: 1995

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (cont'd)	Trace metals: - (Acid Leachable)  - Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Manganese, Mercury, Nickel, Tin, Vanadium, Zinc  - Hexavalent Chromium Cr (VI)  - Trivalent Chromium Cr (III)  - Cation exchange capacity (CEC)  - Content of exchangeable calcium - Content of exchangeable magnesium - Content of exchangeable sodium - Content of exchangeable potassium	In-house method EN-SOIL-METAL-MS (ICP/MS)  In-house method EN-SOIL-Cr(VI) (Colorimetric)  In-house method EN-Cr(III)-SUB (By calculation)  BS EN ISO 23470: 2018 (By spectrometric determination of cobalt by ICP-AES) <i>&lt;Excluding the following&gt;</i> Cl. 7.3.2, Cl. 7.3.3, Cl. 7.4.4, Cl. 7.4.6  BS EN ISO 23470: 2018 (By ICP-AES) <i>&lt;Excluding the following&gt;</i> Cl. 7.3, Cl. 7.4.3, Cl. 7.4.5

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Environmental Testing 環境測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (cont'd)	Organic pollutants:-  - Total Petroleum Hydrocarbons (TPHs) : -  C6 – C8 C9 – C16 C17 – C35  Bis (2-ethylhexyl)phthalate, Hexachlorobenzene  Phenol  - Polycyclic Aromatic Hydrocarbons (PAHs)  Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Chrysene, Fluorene, Pyrene, Fluoranthene, Phenanthrene, Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo (g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene  - Volatile Organic Compounds (VOCs) :  Acetone, Benzene, Bromodichloromethane, 2-butanone (MEK), Chloroform, Toluene, Methylene chloride, Ethylbenzene, Methyl tert-butyl ether (MTBE) Styrene, Tetrachloroethene, Trichloroethene, Xylenes – Total (sum of ortho-, meta- & para-xylene)	In-house method EN-SOIL-TPH (Purge and Trap GC/MSD & GC/FID)  In-house method EN-SOIL-PAH (GC/MSD)  In-house method EN-SOIL-PHENOL (GC/MSD)  In-house method EN-SOIL-PAH (GC/MSD)  In-house method EN-VOC-GCMS (Purge and Trap GC/MSD)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Sediment	<p>Trace metals: -</p> <p>- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Vanadium, Zinc</p> <p>Organic pollutants:-</p> <p>- Polycyclic Aromatic Hydrocarbons (PAHs)</p> <p>Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Chrysene, Fluorene, Pyrene, Fluoranthene, Phenanthrene, Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo (g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene</p>	<p>In-house method EN-SED-METAL-MS (ICP-MS)</p> <p>In-house method EN-SED-PAH (GC-MSD)</p>



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Environmental Testing 環境測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Sediment and soil	Organic pollutants:-  - Total Organic Carbon  - Polychlorinated Biphenyls : -  2,4'-Dichlorobiphenyl (PCB #8) 2,2',5'-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3', 4,4'-Pentachlorobiphenyl (PCB #105) 2,3', 4,4',5'-Pentachlorobiphenyl (PCB #118) 3,3', 4,4',5'-Pentachlorobiphenyl (PCB #126) 2,2', 3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2', 3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2', 3,4',5',6'-Hexachlorobiphenyl (PCB #149) 2,2', 4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3', 4,4',5'-Hexachlorobiphenyl (PCB #156) 3,3', 4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2', 3,3',4,4',5'-Heptachlorobiphenyl (PCB #170) 2,2', 3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2', 3,4',5,5',6'-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB #206)	In-house method EN-SOLID-TOC (NDIR)  In-house method EN-SOIL-PCB (GC/MSD)
Sediment and soil, ash and the mixture of the above	TCLP Metals: - (Total Characteristics Leaching Procedures)  - Extraction procedure  - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc, Manganese, Cobalt, Molybdenum	USEPA SW846 Method 1311 (EN-TCLP-EXT)  In-house method EN-SOIL-TCLP-OES (ICP/OES) In-house method EN-SOIL-TCLP-MS (ICP/MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Environmental Testing 環境測試</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Sediment	Toxicity Tests: -  10-D Amphipod Survival Test - <i>Leptocheirus plumulosus</i>  20-D Polychaete Growth and Survival Test - <i>Neanthes arenaceodentata</i>  48-60 Hour Bivalve Larvae Survival and Normality Test - <i>Mytilus galloprovincialis</i>  48-60 Hour Bivalve Larvae Survival and Normality Test - <i>Crassostrea gigas</i>	USEPA 600/R-94/025 June 1994 Test Method 100.4  Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995  Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995 (with modification)  Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Drinking water, Water and Wastewater	Microbiological examinations:-  - Total coliform count  - Faecal coliform count  - <i>E. coli</i> count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method: Section 7.8, 7.9.4.1; Bacterial Confirmation : Section 7.9.4.3)  DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method: Section 7.8, 7.9.4.2; Bacterial Confirmation : Section 7.7.6.3)  DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method : Section 7.8, 7.9.4.2; Bacterial Confirmation : Section 7.9.4.4)
Water and Wastewater	- <i>E. coli</i> count  - Heterotrophic Plate count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method : in situ urease test)  APHA (1995) 19e, 9215B
Water and Wastewater including water source from Bathing bleach, marine, river, contaminated water source and Storm drain	- Enumeration of Faecal Coliform  - Enumeration of <i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK (EM019)  Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK (EM019)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water, Wastewater and Cooling Tower Water	Microbiological examinations:-  - <i>Legionella</i> spp. including <i>Legionella pneumophila</i>	AS/NZS 3896:1998
Drinking water	- <i>Legionella</i> spp. including <i>Legionella pneumophila</i>	ISO 11731-2:2004
Treated bathing water	- <i>Legionella</i> spp. including <i>Legionella pneumophila</i>	ISO 11731-2:2004

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Environmental Testing 環境測試**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Indoor Air Quality Testing  Collectate sampled by Biotest Air Sampler RCS HF  Collectate sampled by Single-stage N6 Andersen impactor  Collectate sampled by Microbio Air Sampler MB2  Collectate sample on agar plate	Extractable components collected in passive samplers:-  - Formaldehyde  - Nitrogen dioxide  Microbiological examinations:-  Airborne bacteria count (number of colonies on agar strip) (30 °C for 2 days)  Airborne bacteria count (number of colonies & corrected number of colonies on agar plate) (30 °C for 2 days)  Airborne bacteria count (number of colonies on agar plate) (30 °C for 2 days)  Airborne bacteria count (number of colonies on agar plate) (30 °C for 2 days)	In-house method EN-IAQ-HCHO (HPLC/DAD)  In-house method EN-IAQ-NO2 (UV Spectrophotometer)  In-house method MB-AIR-BACTERIA  In-house method MB-AIR-BACTERIA  In-house method MB-AIR-BACTERIA  In-house method MB-AIR-BACTERIA

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Meat           General foodstuff	Chemical composition : -	
	- Ash	ISO 936:1998
	- Moisture content	ISO 1442:1997
	- Protein (Crude)	AOAC Official Methods, 981.10 (2005) (Kjeldahl Method)
	- Sodium	In-house method FD-FOOD-SOD (ICP-AES)
	- Calcium and iron	In-house method FD-FOOD-BORIC-CA-FE (ICP-OES)
	- Total ash at 550°C	In-house method FD-FOOD-ASH (Gravimetric method)
	- Moisture content	GB5009.3—2010 (Direct drying method and Distillation method)
	- Protein	In-house method FD-FOOD-PRO (Kjeldahl Method)
	- Total Dietary fibre	AOAC Official Method 985.29 (2005) (Enzymatic-gravimetric method)
	- Sugars: - glucose, galactose, fructose, sucrose, maltose, lactose	In-house method FD-FOOD-SUG (HPLC-RI)
	- Cholesterol	AOAC Official Method 994.10 (2005) (GC-FID)
	- Total fat	In-house method FD-FOOD-FAT (Acid hydrolysis method)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General foodstuff	Chemical composition : - (cont'd)  - Saturated fatty acids (C <sub>4:0</sub> , C <sub>6:0</sub> , C <sub>8:0</sub> , C <sub>10:0</sub> , C <sub>12:0</sub> , C <sub>14:0</sub> , C <sub>15:0</sub> , C <sub>16:0</sub> , C <sub>17:0</sub> , C <sub>18:0</sub> , C <sub>20:0</sub> , C <sub>22:0</sub> , C <sub>24:0</sub> )  - Trans fatty acids (C <sub>14:1T</sub> (9- <i>trans</i> ), C <sub>16:1T</sub> (9- <i>trans</i> ), C <sub>18:1T</sub> (total), C <sub>18:2TT</sub> (9,12- <i>trans</i> ), C <sub>18:2T</sub> (9- <i>cis</i> ,12- <i>trans</i> ), C <sub>18:2T</sub> (9- <i>trans</i> ,12- <i>cis</i> ), C <sub>20:1T</sub> (11- <i>trans</i> ), C <sub>22:1T</sub> (13- <i>trans</i> ))  - Unsaturated fatty acids (C <sub>14:1</sub> (9- <i>cis</i> ), C <sub>15:1</sub> (10- <i>cis</i> ), C <sub>16:1</sub> (9- <i>cis</i> ), C <sub>17:1</sub> (10- <i>cis</i> ), C <sub>18:1</sub> (9- <i>cis</i> ), C <sub>18:2</sub> (9,12- <i>cis</i> ), C <sub>18:3</sub> (9- <i>cis</i> ,12- <i>cis</i> , 15- <i>cis</i> ), C <sub>20:1</sub> (11- <i>cis</i> ), C <sub>20:2</sub> (11- <i>cis</i> ,14- <i>cis</i> ), C <sub>20:3</sub> (11- <i>cis</i> ,14- <i>cis</i> , 17- <i>cis</i> ), C <sub>20:4</sub> (5- <i>cis</i> ,8- <i>cis</i> , 11- <i>cis</i> , 14- <i>cis</i> ), C <sub>22:2</sub> (13- <i>cis</i> , 16- <i>cis</i> ), C <sub>20:5</sub> (5- <i>cis</i> ,8- <i>cis</i> , 11- <i>cis</i> , 14- <i>cis</i> , 17- <i>cis</i> ), C <sub>22:5</sub> (7- <i>cis</i> ,10- <i>cis</i> , 13- <i>cis</i> , 16- <i>cis</i> , 19- <i>cis</i> ), C <sub>22:6</sub> (4- <i>cis</i> ,7- <i>cis</i> , 10- <i>cis</i> , 13- <i>cis</i> , 16- <i>cis</i> , 19- <i>cis</i> ))  - Total lipid fatty acid (as triglycerides)	AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography)  AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography)  AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography)
General foodstuff (excluding food containing ethanol and organic acid)	- Energy  - Carbohydrate	In-house method FD-FOOD-ENERGY (By calculation)  In-house method FD-FOOD-CARBO (By calculation)
Flour confectionary	Preservatives:-  - Propionic acid	In-house method FD-FOOD-PROP (GC-MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General foodstuff	Preservatives:-  - Benzoic acid and Sorbic acid  - Benzoic acid, Sorbic acid, Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate, Propyl para-hydroxybenzoate  - Sulphur Dioxide  - Boric acid  Trace metals: -  - Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin  Contaminants :-  - Melamine  Colouring matters: -  - Sudan I, Sudan II, Sudan III, Sudan IV, Sudan Orange G, Dimethyl yellow, Sudan Red 7B	In-house method FD-FOOD-BEN&SOR (HPLC-DAD)  In-house method FD-FOOD-6PREV (HPLC-DAD)  In-house method FD-FOOD-SO2-SCREENING (Screening) AOAC Official Method 990.28 (2005) (Quantitative)  In-house method FD-FOOD-BORIC-CA-FE (ICP-OES)  In-house method FD-FOOD-METAL (ICP-MS)  In-house method FD-FOOD-MEL (LC-MS-MS)  In-house method FD-FOOD-SUDAN (LC/MS/MS)



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Meat and aquatic products	Veterinary drug residue:- - Chloramphenicol	In-house method FD-FOOD-CAP-MEAT-AQU (LC/MS/MS)
Aquatic products	- Malachite green and Leucomalachite green	In-house method FD-FOOD-MG (LC/MS/MS)
Oils, nuts and cereals	Mycotoxins: - - Aflatoxins B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub>	In-house method FD-FOOD-AFLA (HPLC-FLD) In-house method FD-FOOD-AFLA-MS (confirmation test: LC/MS/MS)
Fruit and Vegetables	Trace metals: - - Lead, Mercury	In-house method FD-FOOD-METAL-VEG (ICP-MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fruit and Vegetables	Pesticide residues:-  - Organochlorine pesticides:  Aldrin, trans-Chlordane, cis-Chlordane, Oxychlordane, Dieldrin, Endrin, Endrin ketone (delta-keto-endrin), Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, 2,4'-DDT, 4,4'-DDT, 2,4'-DDE, 4,4'-DDE, 2,4'-DDD, 4,4'-DDD, Quintozene (pentachloronitrobenzene), Pentachloroaniline, Methyl pentachlorophenyl sulphide Chlorothalonil, Chlorfenapyr, Dichlobenil, 2,6-dichlorobenzamide, o,p'- Dicofol, p,p'- Dicofol, Endosulfan I, Endosulfan II, Endosulfan sulphate, Procymidone, Trifluralin	In-house method FD-PEST-OCPI (Screening and quantitative by GC-MS/MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fruit and Vegetables	Pesticides residues : (cont'd)  - Pyrethroid pesticides:-  Bifenthrin, Cyfluthrins, Cypermethrins, Deltamethrin, Fenvalerate, Esfenvalerate, Fenpropathrin, Flucythrinate, Permethrins	In-house method FD-PEST-PY (Screening and quantitative by GC/MS/MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fruit and Vegetables	Pesticides residues : (cont'd)  - Dimethipin, Fipronil, Folpet,  - Benfluralin, Chlorethoxyfos, Dicloran, Ethalfuralin, Tecnazene  - Organophosphorus pesticides :-	In-house method FD-PEST-GEN-GC (Screening and quantitative by GC-MS/MS)  In-house method FD-PEST-GEN-GC1 (Screening and quantitative by GC-MS/MS)
Fruit and Vegetables <Excluding the following> Garlic, onion, spring onion, leek and chives	Cadusafos, Chlorpyrifos, Demeton-S-methyl, Demeton-S-methylsulfone, Oxydemeton-methyl, Diazinon, Dimethoate, Ethion, Fenitrothion, Fenthion, Fenthion sulphoxide, Fenthion sulfone, Fenthion oxon, Fenamiphos, Fenamiphos sulfoxide, Fenamiphos sulfone, Isocarbophos, Isofenphos-methyl, Methamidophos, Naled, Omethoate, Parathion-methyl, Parathion-ethyl, Phorate, Phorate sulfoxide, Phorate sulfone, Phorate oxon, Quinalphos, Vamidothion	In-house methods FD-PEST-OPP1 (Screening and quantitative by LC/MS/MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong  
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
<p>Fruit and Vegetables &lt;Excluding the following&gt; Garlic, onion, spring onion, leek and chives</p>	<p>Pesticides residues :- (cont'd)</p> <p>- Carbamates: -</p> <p>Aldicarb sulfoxide, Benfuracarb, Carbaryl, Carbofuran, 3-hydroxycarbofuran, Carbosulfan, Methiocarb, Methiocarb sulphoxide, Methiocarb sulphone, Methomyl, Oxamyl, Oxamyl oxime, Pirimicarb, Thiodicarb</p> <p>- Triazoles: -</p>	<p>In-house method FD-PEST-CB (Screening and quantitative by LC/MS/MS)</p>
<p>Fruit and Vegetables &lt;Excluding the following&gt; Garlic, onion, spring onion, leek and chives</p>	<p>Difenoconazole, Diniconazole, Flusilazole, Tebuconazole</p>	<p>In-house method FD-PEST-TRIA (Screenng and quantitative by LC/MS/MS)</p>

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fruit and Vegetables <i>&lt;Excluding the following&gt;</i> Garlic, onion, spring onion, leek and chives	Pesticide residues:- (cont'd)  - Acetamiprid, Ametryn, Clomazone, Cymoxanil, Diphenylamine, Dodine, Ethoxyquin, Fenpyroximate, Fomesafen, Semiamitraz, Thiamethoxam	In-house method FD-PEST-GEN-LC (Screening and quantitative by LC-MS/MS)
Fruit and Vegetables <i>&lt;Excluding the following&gt;</i> Garlic, onion, spring onion, leek and chives	- Aldicarb, Aldicarb sulfone Cyhalothrin (sum of isomers), Fenthion-oxon-sulfoxide, Fenthion-oxon-sulfone, Phorate-oxon-sulfoxide, Phorate-oxon-sulfone, Pyrethrins (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I and pyrethrin II), Quizalofop,	In-house method FD-PEST-GEN-LC1 (Screening and quantitative by LC/MS/MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fruit and Vegetables <i>&lt;Excluding the following&gt;</i> Garlic, onion, spring onion, leek and chives	Pesticides residues : (cont'd)  - Acephate, Atrazine, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Benalaxyl, Bitertanol, Bromopropylate, Chlorimuron ethyl, Chlorpropham, Chlorpyrifos methyl, Cyprodinil, Dichlorvos, Diflubenzuron, Dimethomorph, Etofenprox, Fenarimol, Fenbuconazole, Fenhexamid, Fenpropimorph, Fluazinam, Flumioxazin, Fluopicolide, Fluvalinate, Fosthiazate, Halosulfuron methyl, Kresoxim methyl, Lactofen, Mandipropamid, Methoxyfenozide, Novaluron, Propamocarb, Propargite, Pymetrozine, Quinoxyfen, Tebufenozide, Tolclofos methyl, Trifloxystrobin, Zoxamide	In-house method FD-PEST-GEN-LC2 (Screening and quantitative by LC/MS/MS)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fruit and Vegetables	Pesticide residues:- (cont'd)  - Organochlorine pesticides:--  - Chlordane (sum of trans-Chlordane and cis-Chlordane) - DDT (sum of 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD) - Dichlobenil (sum of dichlobenil and 2,6-dichlorobenzamide) - Dicofol (sum of o,p'- dicofol and p,p'- dicofol) - Endosulfan (sum of endosulfan I, endosulfan II and endosulfan sulphate) - Endrin (sum of endrin and delta-keto-endrin) - Heptachlor (sum of heptachlor epoxide and heptachlor) - Hexachlorocyclohexane (HCH) (sum of alpha-HCH (alpha-BHC), beta-BHC (beta- HCH), delta-HCH (delta-BHC) and gamma-HCH (gamma-BHC (Lindane))  - Carbamates: -  - Aldicarb (sum of aldicarb, aldicarb sulfoxide and aldicarb sulphone, expressed as aldicarb) - Carbofuran (sum of carbofuran and 3-hydroxycarbofuran, expressed as carbofuran)	In-house method FD-PEST-CAL (By calculation)



**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Fruit and Vegetables <i>&lt;Excluding the following&gt;</i> Garlic, onion, spring onion, leek and chives	Pesticides residues :- (cont'd)  - Organophosphorus pesticides :-  - Oxydemeton-methyl (sum of oxydemeton-methyl, demeton- S-methyl, demeton- S-methylsulfone, expressed as oxydemeton-methyl) - Fenamiphos (sum of fenamiphos, fenamiphos sulfoxide and fenamiphos sulfone, expressed as fenamiphos) - Fenthion (sum of fenthion, fenthion sulfone, fenthion sulfoxide, fenthion oxon, fenthion-oxon sulfone and fenthion-oxon sulfoxide, expressed as fenthion) - Naled (sum of naled and dichlorvos, expressed as naled) - Phorate (sum of phorate, phorate sulfoxide, phorate sulfone, phorate oxon, phorate-oxon-sulfone and phorate-oxon-sulfoxide, expressed as phorate)  - Carbamates: -  - Benfuracarb (sum of benfuracarb, carbofuran and 3-hydroxycarbofuran, expressed as carbofuran) - Methiocarb (sum of methiocarb, methiocarb sulphoxide and methiocarb sulphone, expressed as methiocarb) - Methomyl (sum of methomyl and thiodicarb, expressed as methomyl) - Oxamyl (sum of oxamyl and oxamyl oxime, expressed as oxamyl) - Pyrethrins (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I and pyrethrin II) - Quizalofop-ethyl (sum of quizalofop-ethyl and quizalofop, expressed as quizalofop-p-ethyl)	In-house method FD-PEST-CAL (By calculation) (cont'd)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Food 食品</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
General foodstuff	Microbiological examinations:-	
	- Coliform count	AOAC Official Methods, 991.14, 2005 (Petrifilm)
	- <i>E. coli</i> count	AOAC Official Methods, 991.14, 2005 (Petrifilm)
	- Aerobic Plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 3, January 2001 (Conventional Plate Count Method)
	- Mold and yeast (total) counts	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 18, January 2001 (Conventional Plate Count Method)
Selected Meats, Seafood and Poultry	- <i>Salmonella</i>	US FDA Bacteriological Analytical Manual Online(BAM online), Ch. 5 December 2007
	- <i>Staphylococcus aureus</i> count	AOAC Official Methods 2003.11 (2005) (By 3M Petrifilm Method)
Selected Dairy Foods	- <i>Staphylococcus aureus</i> count	AOAC Official Methods 2003.08 (2005) (By 3M Petrifilm Method)
Selected Types of Processed and Prepared Foods	- <i>Staphylococcus aureus</i> count	AOAC Official Methods 2003.07 (2005) (By 3M Petrifilm Method)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Miscellaneous 雜類</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Diesel fuel containing $\leq 0.025\%$ (w/w) of lead	Sulfur	ASTM D2622-16 <Excluding the following> Cl. 5.2, Cl. 5.3 & Cl. 8.1
Diesel fuel	Sulfur	ISO 20884-2011 <Excluding the following> Cl. 4.3, Cl. 6 & Cl. 7.1 para. 2

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

<b>Pharmaceutical Products 藥物</b>		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Paracetamol Tablets	Physical and Chemical tests: -  a. Identification (Test A, FTIR) b. Assay	British Pharmacopoeia 2012 (BP2012)
Active pharmaceutical ingredient and pharmaceutical products	Toxic elements: -  - Arsenic, Cadmium, Lead and Mercury	In-house method FD-PP-HM-1 (by ICP-MS)
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological examinations:-  Microbiological quality	European Pharmacopoeia 8.0 edition (2014) Ch. 5.1.4 (Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use
	- Microbial enumeration test	European Pharmacopoeia 8.0 edition (2014) Ch. 2.6.12
	- Test for specified microorganisms	European Pharmacopoeia 8.0 edition (2014) Ch. 2.6.13
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality	United States Pharmacopoeia (2014) Second Supplement (USP<1111>37th edition)
	- Microbial enumeration test	United States Pharmacopoeia (2014) Second Supplement (USP<61>37th edition)
	- Test for specified microorganisms	United States Pharmacopoeia (2014) General Ch. (USP<62>37th edition)

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

6/F, Techno Centre, 33 On Kwei Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

**Physical and Mechanical Testing 物理及機械測試**

<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Activated carbon  - Activated carbon granules	Determination of apparent density  Determination of particale size distribution  Determination of moisture content by oven drying test method  Determination of the ball-pan hardness number	ASTM D2854-09 (reapproved 2019)  ASTM D2862-16 <i>&lt;Excluding the following&gt;</i> Section 6  ASTM D2867-17 <i>&lt;Excluding the following&gt;</i> Section 10, 11, 12, 13, 14 and 15  ASTM D3802-16 <i>&lt;Excluding the following&gt;</i> Section 7

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

No. 68, Bijiaotou Group, Baiqi Village, Nanlang Street, Zhongshan City, Guangdong Province, China

中國廣東省中山市南朗街道白企村碑角頭小組 68 號

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Aggregates	Sampling  Particle size distribution  Flakiness index  Elongation index  Ten per cent fines value  Particle densities and water absorption  Moisture content  Clay, silt and dust content  Shell content in coarse aggregates	BS 812: Part 102: 1989 CS3: 2013 Section 8  BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 + Amd. 1/2013 (by sieve analysis)  BS 812: Section 105.1: 1989 CS3: 2013 Section 11  BS 812: Section 105.2: 1990 CS3: 2013 Section 12  BS 812: Part 111: 1990 CS3: 2013 Section 16  BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17  BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)  BS 812: Part 1: 1975 + Amd. 4875 & 6587 (by decantation method)  BS 812: Part 106: 1985

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

No. 68, Bijiaotou Group, Baiqi Village, Nanlang Street, Zhongshan City, Guangdong Province, China

中國廣東省中山市南朗街道白企村碑角頭小組 68 號

**Construction Materials 建築材料**

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Concrete	Sampling fresh concrete on site  Slump of fresh concrete  Flow table test  Density of compacted fresh concrete  Making test cubes from fresh concrete  Mixing and sampling of fresh concrete  Curing of test specimens (Tropical zone temperature)  Compressive strength of concrete cubes in the force range 20 kN - 2000 kN  Compressive strength of concrete cores in the force range 20 kN – 2000 kN  Density of hardened concrete	CS1: 2010 Section 1 + Amd. 1/2017  CS1: 2010 Section 2 Part I + Amd. 1/2017  CS1: 2010 Section 2 Part IV  CS1: 2010 Section 5  CS1: 2010 Section 7  CS1: 2010 Section 11  CS1: 2010 Section 10  CS1: 2010 + Amd. 1/2013 Section 12  CS1: 2010 Section 15 + Amd. 1/2013  CS1: 2010 Section 16
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement  Mass per meter of steel reinforcing bars  Rebind test of reinforcing bars for reinforcement of concrete  Tensile test of reinforcing bars for reinforcement of concrete in the force range 10 kN – 1000 kN	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2  CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2  CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5  BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4



Scope of Accreditation  
Registration No. HOKLAS 032  
Page 159 of 159  
Issue Date: 30 April 2025  
Ref: HOKLAS032-345

**Castco Testing Centre Ltd.**

佳力高試驗中心有限公司

**Summary of Voluntary Suspension**

.vs. denotes test for which accreditation has been voluntarily suspended with effect from 25 January 2025  
(Notification Letter No. HOKLAS032-340).