



No. 091

**Research Engineering Development Facade Consultants Ltd. -  
Fire and Facade Testing Laboratory**

雄略幕牆顧問有限公司

**ADDRESS 地址**

**Main Laboratory**

: D96 York, Lot No. 2240, Section M, Ma Tso Lung, Sheung Shui,  
New Territories, Hong Kong.  
香港新界上水古洞馬草壟木廠區 2240 地段 96 約

**Branch /Regional  
Laboratories**

: Zhaoqing Branch Laboratory 肇慶測試中心  
New & High-tech Industrial Development Zone of Dawang, Zhaoqing City, Guangdong  
Province, China  
中國廣東省肇慶市大旺高新技術產業開發區

**Branch /Regional  
Laboratories**

Tuen Mun Branch Laboratory 屯門測試中心  
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REPRESENTATIVE  
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**ENQUIRY  
查詢**

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**CLIENTELE  
服務對象**

: Public  
公眾

**ACCREDITED TEST  
CATEGORIES  
認可測試類別**

: Construction Materials 建築材料

**SCOPE OF  
ACCREDITATION  
認可範圍**

: As shown on the following pages 詳見後頁

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<b>Main Laboratory</b>			
TEST CATEGORY 測試類別	ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、材料或產品	SPECIFIC TESTS OR PROPERTIES 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
CONSTRUCTION MATERIALS 建築材料	Fusible Link	Sampling Test Procedure on Fusible Link	FSD Sampling Test Procedure on Fusible Link for use in fire Damper of Ventilating Systems 2005
	Fire Resistance Material	Partition, doorsets and non-loading elements	BS 476: Parts 20 and 22: 1987
			GB 9978-1999
			GB 7633-1987
			GB 12513-2006
			ISO 834-1999
			ISO 834-1:1999(E)
	Building Glass	Non-combustibility Test	ISO 834-8:2000(E)
			ISO 3008-1999(E)
			ISO 3009-2003
ISO 10294-1:1996(E)			
Heat Emission Test		BS EN 1363:1999	
		BS EN 1634-1:2000	
Impact performance requirements for flat Safety glass/plastics		BS EN 1364-1:1999	
		BS EN 1366-2:1999	
		AS1530.4:2005 (Section 3, 7, 8 and 9)	
		ASTM E119 : 2008	
Frost point sealed insulating glass units	ASTM E2074-2000		
	SS332: 2000-Clause 4 Annex E		
Frost point sealed insulating glass units in vertical position	UL 10B-2008		
	UL 10C-2001		
Non-Destructive Photoelastic Measurement of Surface Stresses in Flat Glass	BS7346: Part 3: 1990 (Clause 4.1)		
	BS 476: Part 4: 1970		
Louver	Performance Test on Louvers	BS 476: Part 11: 1982	
		BS 6206: 1981 and ANSI Z97.1: 2004	
		ASTM E 546-88 (Reapproved 1999)	
		ASTM E 576-88 (Reapproved 1999)	
		ASTM C1279 (2005)	
		AMCA 500-L-07 and BS EN 13030: 2001 HEVAC Technical Specification 1995	

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CONSTRUCTION MATERIALS (cont'd) 建築材料(續上)	Curtain Wall	Safety test for curtain wall system -cyclic test	Building Department PNAP 106 January 2009 (Paragraph 4)
		Water Penetration by Uniform Static Air Pressure Difference	ASTM E331: 2000
		Water Penetration by Cyclic Static Air Pressure Difference	ASTM E547: 2000
		Structural Performance by Uniform Static Air Pressure Difference	ASTM E330: 2002
		Water Penetration by Dynamic Pressure	AAMA 501.1: 2005
		Air Leakage	ASTM E283: 2004
		Static Test to Seismic and Wind Interstory Drafts	AAMA 501.4: 2000
	Slab/sheeting	Loading Test on Composite Slab with Profiled Steel Sheeting	BS 5950: Part 4: 1994 (Section 8: Specific Tests) and Code of Practice for the Structural Use of Steel 2005 (Section 16.4.2: Specific Tests)
		Loading Test on Composite Slab on Profiled Steel Sheeting	BS EN 1994-1-1: 2004 and ANSI/ASCE 3-91
		Loading Test on Profiled Steel Sheeting	BS EN 1993-1-3: 2006 (Annex A.2) BS 5950: Part 6: 1995 (Section 7: Tests)

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CONSTRUCTION MATERIALS (cont'd) 建築材料(續上)	Building Glass	Impact performance requirements for flat Safety glass/plastics	BS6206:1981 and ANSI Z97.1: 2004
		Frost point sealed insulating glass units	ASTM E 546-88 (Reapproved 1999)
		Frost point sealed insulating glass units in vertical position	ASTM E 576-88 (Reapproved 1999)
	Fire Resistance Material	Loadbearing /non-loadbearing vertical and horizontal elements	AS 1530.4-2005
		Loadbearing /non-loadbearing vertical and horizontal elements	ASTM E119 :2008
		Loadbearing vertical and horizontal elements	BS 476: Parts 20: and Part 21: 1987
		Non-loadbearing vertical and horizontal elements	BS 476: Parts 20: and Part 22: 1987
		Ventilation Ducts	BS 476: Parts 20: and Part 24: 1987
		Fire Doorsets and shutters assemblies	BS EN 1634-1:2000
		Non-loadbearing vertical elements	BS EN 1364-1:1999
		Non-loadbearing horizontal elements	BS EN 1364-2:1999
		Loadbearing vertical elements	BS EN 1365-1:1999
		Loadbearing horizontal elements	BS EN 1365-2:1999
		Loadbearing beams	BS EN 1365-3:2000
		Loadbearing columns	BS EN 1365-4:1999
		Fire dampers	BS EN 1366-2:1999
		Fire Resistance Tests of Door Assemblies	SS332: 2000-Clause 4 Annex E UL 10B-2008 UL 10C-2001
Fire Resistance Tests on Components for Smoke and Heat Control Systems –	BS7346: Part 3: 1990 (Clause 4.1) Specification for Smoke Curtains		

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CONSTRUCTION MATERIALS (cont'd) 建築材料(續上)	Fire Resistance Materials (cont'd)	Loadbearing /non-loadbearing vertical and horizontal elements	GB 9978-1999
		Fire doorsets and shutters assemblies	GB 7633-1987
		Glazed partitions and windows	GB 12513-2006
		Loadbearing vertical elements	ISO 834-1:1999(E) & ISO 834-4:2000(E)
		Loadbearing horizontal elements	ISO 834-1:1999(E) & ISO 834-5:2000(E)
		Loadbearing beams	ISO 834-1:1999(E) & ISO 834-6:2000(E)
		Loadbearing columns	ISO 834-1:1999(E) & ISO 834-7:2000(E)
		Non-loadbearing vertical elements	ISO 834-1:1999(E) & ISO 834-8:2000(E)
		Non-loadbearing horizontal elements	ISO 834-1:1999(E) & ISO 834-9:2003(E)
		Fire dampers for air distribution systems	ISO 10294-1:1996(E)
		Fire Doorsets and shutters assemblies	ISO 3008-1999(E)
		Glazed elements	ISO 3009-2003
		Door assemblies	ASTM E2074-2000
	Curtain Wall	Safety test for curtain wall system -cyclic test	Building Department PNAP 106 June 2006 (Paragraph 4)
		Water Penetration by Uniform Static Air Pressure Difference	ASTM E331: 2000 AS/NZS 4284: 2008, Clause 8.5
		Water Penetration by Cyclic Static Air Pressure Difference	ASTM E547: 2000 AS/NZS 4284: 2008, Clause 8.6
		Structural Performance by Uniform Static Air Pressure Difference	ASTM E330: 2002 AS/NZS 4284: 2008, Clause 8.2, 8.3 and 8.8
		Water Penetration by Dynamic Pressure	AAMA 501.1: 2005
		Air Leakage	ASTM E283: 2004 AS/NZS 4284: 2008, Clause 8.4
		Static Test to Seismic and Wind Interstory Drafts	AAMA 501.4: 2000 AS/NZS 4284: 2008, Clause 8.9

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CONSTRUCTION MATERIALS (cont'd) 建築材料(續上)	Fire Equipment	Fixed Firefighting Systems - Components for Sprinkler and Water Spray Systems	
		Operating temperature of glass bulk and fusible link sprinklers	EN12259-1:1999 Annex B
		Water flow test	EN12259-1:1999 Annex C
		Water distribution test	EN12259-1:1999 Annex D
		Functional test	EN12259-1:1999 Annex E
		Leak resistance test	EN12259-1:1999 Annex H
		Glass bulk sprinkler thermal shock test	EN12259-1:1999 Annex J
		Impact test	EN12259-1:1999 Annex Q
		Automatic Sprinklers for Fire-Protection Service	
		Glass bulk thermal shock	UL 199-05 Clause 18
		Impact resistance test	UL 199-05 Clause 20
		Impact test for protective covers	UL 199-05 Clause 21
		Flow usage test	UL 199-05 Clause 23
		Leakage test	UL 199-05 Clause 24
		Operating temperature test	UL 199-05 Clause 30
		Water distribution test- Conventional (Old Style) Sprinklers	UL 199-05 Clause 52
		Portable fire extinguishers fire performance rating	BS EN 3-7: 2004 Annex I
		Portable fire extinguishers compaction test	BS EN 3-7: 2004 Annex K
		Burst test under pressure	BS EN 3-8:2006 Section 6.3.2
		Pressure test– Bodies, fittings and assemblies	BS EN 3-8:2006 Section 6.3.4
		Pressure test – Pressure gauges and pressure Indicators	BS EN 3-8:2006 Section 6.3.5

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CONSTRUCTION MATERIALS (cont'd) 建築材料(續上)	Metallic materials	Tension Testing of Metallic Materials	ASTM E8 - 04 BS EN 10002-1:2001
		Salt Spray (Fog) of metallic materials and coating	ASTM B117- 03
		Fluorescent UV-Condensation exposures Of metallic materials and coating	ASTM D 4587 - 05
	Structural fixings	Structural fixings in concrete and masonry	BS 5080-1: 1993 and BS 5080-2: 1986
	Building Covering	Intermittent flame test	UL 790 - 2005 Clause 6 ASTM E108 - 2007A Clause 8
		Spread of flame test	UL 790 - 2005 Clause 7 ASTM E108 - 2007A Clause 9 UL 1703 – 2008 Clause 31.2
Burning brand test		UL 790 - 2005 Clause 8 ASTM E108 - 2007A Clause 10 UL 1703 – 2008 Clause 31.2	

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CONSTRUCTION MATERIALS (cont'd) 建築材料(續上)	Fire Resistance Material	Loadbearing /non-loadbearing vertical and horizontal elements  Loadbearing /non-loadbearing vertical and horizontal elements  Loadbearing vertical and horizontal elements  Non-loadbearing vertical and horizontal elements  Ventilation Ducts  Fire Doorsets and shutters assemblies  Non-loadbearing vertical elements  Non-loadbearing horizontal elements  Loadbearing vertical elements  Loadbearing horizontal elements  Loadbearing beams  Loadbearing columns  Fire ducts  Fire dampers  Fire assemblies  Fire Resistance Tests of Door Assemblies  Fire Resistance Tests on Components for Smoke and Heat Control Systems –  Loadbearing /non-loadbearing vertical and horizontal elements  Fire doorsets and shutters assemblies  Glazed partitions and windows	AS 1530.4-2005  ASTM E119 :2008  BS 476: Parts 20: and Part 21: 1987  BS 476: Parts 20: and Part 22: 1987  BS 476: Parts 20: and Part 24: 1987  BS EN 1634-1:2000  BS EN 1364-1:1999  BS EN 1364-2:1999  BS EN 1365-1:1999  BS EN 1365-2:1999  BS EN 1365-3:2000  BS EN 1365-4:1999  BS EN 1366-1:1999  BS EN 1366-2:1999  BS EN 81 – 58: 2003  SS332: 2000-Clause 4 Annex E UL 10B-2008 UL 10C-2001  BS7346: Part 3: 1990 (Clause 4.1) Specification for Smoke Curtains  GB 9978-1999  GB 7633-1987  GB 12513-2006

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		Loadbearing horizontal elements	ISO 834-1:1999(E) & ISO 834-5:2000(E)
		Loadbearing beams	ISO 834-1:1999(E) & ISO 834-6:2000(E)
		Loadbearing columns	ISO 834-1:1999(E) & ISO 834-7:2000(E)
		Non-loadbearing vertical elements	ISO 834-1:1999(E) & ISO 834-8:2000(E)
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