

名称：综合检测有限公司

地址：中国澳门沙梨头海边街 157 佑强工业大厦 6 楼

注册号：CNAS L9239

生效日期：2021 年 01 月 06 日 截止日期：2022 年 08 月 07 日

中国合格评定国家认可委员会
认可证书附件

附件 2 认可的授权签字人及领域

序号	姓 名	授权签字领域	说明	生效日期
1	劉庭昕	全部检测项目		2021-01-06
2	李斌	金属材料無損探傷、金属材料及結構件		2021-01-06
3	楊杰	金属材料無損探傷（除滲透檢測）、金属材料及結構件		2021-01-06
4	嚴智慧	土、瀝青及瀝青混合料		2021-01-06



No. CNAS L9239

第 1 页 共 1 页

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附件 1 认可的实验室关键场所一览表

关键场所	地址代码	地址/邮编	设施特点	主要活动	说明	生效日期
	A	中国澳门沙梨头海边街 157 佑强工业大厦 6 楼/999078	I, II	(1), (3), (4), (5)		2021-01-06
	B	中国澳门氹仔圣母圣衣堂郊区卓家村高励雅马路 10232 号/999078	I	(1), (4)		2021-01-06

注：

- 设施特点包括 I 固定、II 离开固定设施、III 临时、IV 可移动、V 其他。
- 主要活动包括 (1) 检测、(2) 校准、(3) 签发报告/证书、(4) 样品接收、(5) 合同评审、(6) 其他。



No. CNAS L9239

第 1 页 共 1 页

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认可依据：ISO/IEC 17025:2017 以及 CNAS 特定认可要求

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附件 3 认可的检测能力范围

序号	检测对象	项目 / 参数		检测标准（方法）	说明	生效日期
		序号	名称			
未分组						
1	金属材料無損探傷	1	目視檢驗	焊接接頭的目視檢驗實用規程 BS 5289:1976		2021-01-06
				熔焊接頭的外觀檢查 BS EN 970:1997		2021-01-06
				焊接无损检验 - 熔焊接头的目视检查 BS EN ISO 17637:2011		2021-01-06
		2	超聲波檢驗	焊接的超聲檢驗 第 1 部分 鐵素體鋼熔焊的人工檢驗方法 BS 3923-1:1986		2021-01-06
				無損檢測-焊縫超聲波檢測 BS EN 1714+A1 (2002)		2021-01-06



No. CNAS L9239

第 1 页 共 11 页

序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
				焊缝无损检验 - 超声波检验-技术、测试水平和评价 BS EN ISO 17640-2010		2021-01-06
		3	磁粉檢驗	磁粉探傷方法 BS 6072:1981	只做磁軋法	2021-01-06
				焊缝的无损检验-焊缝的磁粉检验 BS EN 1290-1998	只做磁軋法	2021-01-06
				焊缝的无损检验-磁粉检验 ISO 17638:2009	只做磁軋法	2021-01-06
		4	滲透檢測	焊缝无损检验 -第 1 部分：渗透检验 BS EN 571-1:1997	只做着色渗透检测	2021-01-06
		5	紅外熱成像檢測	紅外熱像儀方法測試屋頂防水性能 HKHA MTS (2000/2002) Part D 第 10 条		2021-01-06
				红外热像仪检测建筑表面缺陷的测试方法 HKCI:TM1		2021-01-06
2	金屬材料及結構件	1	衝擊性能	金属材料的夏比冲击试验- 第 1 部分：V 形和 U 形切口试验方法 BS EN 10045-1:1990	只测-5° C~25° C, 300J 以下, KV_2	2021-01-06
				金属材料 - 夏比摆锤冲击试验- 第 1 部分:测试方法 BS EN ISO 148-1:2010	只测-5° C~25° C, 300J 以下, KV_2	2021-01-06
				金属材料焊缝的破坏试验 - 冲击试验 - 试样定位、槽口取向和检验 BS EN 875:1995	只测-5° C~25° C, 300J 以下, KV_2	2021-01-06
				金属材料焊缝的破坏试验 - 冲击试验 - 试样定位、槽口取向和检验 BS EN ISO 9016:2011	只测-5° C~25° C, 300J 以下, KV_2	2021-01-06
		2	宏觀檢驗	金属材料焊缝的破坏试验 - 焊缝的宏观和微观检验 BS	只做宏觀檢驗	2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
				EN 1321:1997		
				金属材料焊缝的破坏试验-焊缝的宏观和微观检验 BS EN ISO 17639:2013		2021-01-06
		3	硬度試驗	金属材料焊缝的破坏试验 - 硬度试验 - 第 1 部分: 电弧焊接的硬度试验 BS EN 1043-1:1996		2021-01-06
				金属材料焊缝的破坏试验 - 硬度试验 - 第 1 部分: 电弧焊接的硬度试验 BS EN ISO 9015-1:2011		2021-01-06
		4	拉伸性能	金属材料 - 拉伸试验 - 第 1 部分: 常温试验方法 BS EN 10002-1:2001	只测 2000kN 下, R_{eff} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A	2021-01-06
				金属材料 - 拉伸试验 - 第 1 部分: 室温试验方法 ISO 6892-1:2019	只测 2000kN 下, R_{eff} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A	2021-01-06
				混凝土配筋用碳素钢筋规范 BS 4449:1988 附录 C		2021-01-06
				混凝土配筋用钢 可焊钢筋 棒材、卷材和开卷产品规范 BS 4449:2005+A3: 2016		2021-01-06
				混凝土加固用碳鋼鋼筋 CS2:1995		2021-01-06
				混凝土加固用碳鋼鋼筋 CS2: 2012		2021-01-06
				碳钢与铸钢制造的紧固件机械性能 - 第 1 部分: 螺栓、螺钉和螺拴 ISO 898-1:1999		2021-01-06
				混凝土的建筑用途 - 设计和建筑实用导则 BS 8110-1:1997		2021-01-06
		5	彎曲試驗	混凝土配筋用碳素钢筋规范 BS 4449:1988 附录 C		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
				混凝土配筋用碳素钢筋规范 BS 4449:2005+A3: 2016		2021-01-06
				金属材料焊接的破坏性试验-弯曲试验 BS EN 910:1996		2021-01-06
				金属材料焊接的破坏性试验-弯曲试验 BS EN ISO 5173:2010+A1:2011		2021-01-06
				混凝土加固用碳素钢筋 CS2:1995		2021-01-06
				混凝土加固用碳素钢筋 CS2: 2012		2021-01-06
3	混凝土	1	抗压强度	混凝土试验 - 第 4 部分:硬化混凝土的强度 ISO 1920-4: 2005		2021-01-06
				混凝土测试 CS1:2010 第 12 章		2021-01-06
		2	坍落度	混凝土测试 CS1:2010 第 2 章第 1 部分		2021-01-06
		3	流动台扩展度	混凝土测试 CS1:2010 第 2 章第 4 部分		2021-01-06
		4	坍落扩展度	混凝土测试 CS1:2010 第 2 章第 5 部分		2021-01-06
4	砂浆	5	渗水高度试验	硬化混凝土试验 - 加压时水的渗透深度 BS EN 12390-8:2009		2021-01-06
		1	泌水率和自由膨胀率	在实验室内测定预填集料混凝土用新拌薄泥浆的膨胀性和泌水性的试验方法 ASTM C940-1998a (2003)		2021-01-06
5	饰面砖	2	截锥流动度	预置集料混凝土流浆的试验方法(液流锥形漏斗法) ASTM C939-1997		2021-01-06
		1	粘结强度检验	建筑工程饰面砖粘结强度检验标准 JGJ/T 110-2017		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
6	岩石	1	點載荷強度指數試驗	測定岩石點載荷強度指數以及岩石強度分類的試驗方法 ASTM D5731:2008		2021-01-06
		2	單軸荷載試驗	完整岩石心樣品的無側限抗壓強度的試驗方法 ASTM D2938:1995 (2002)		2021-01-06
7	土	1	土壤標準壓實試驗	土木工程用土壤试验方法- 第 4 部分: 压实试验 BS 1377-4:1990		2021-01-06
				土壤測試的分類規範 Geospec 3:2001 10		2021-01-06
		2	灌沙法现场检测压实度	土木工程用土壤的测试方法-第 9 部分: 现场试验 BS 1377-9:1990		2021-01-06
				土壤測試的分類規範 Geospec 3:2001 11		2021-01-06
		3	靜壓荷載試驗	静态载荷和扩展基础的土壤承载力的标准测试方法 ASTM D1194-94		2021-01-06
		4	十字板剪切试验	粘性土壤现场十字板剪力试验方法 ASTM D2573-2001		2021-01-06
		5	土壤含水量	土壤測試的分類規範 GEOSPEC 3:2001 5.1, 5.2, 5.3		2021-01-06
				土壤的测试方法 BS 1377-Part 2:1990 CL.3		2021-01-06
		6	液體極限，塑性極限和塑性指數	土壤測試的分類規範 GEOSPEC 3: 2001 6.1		2021-01-06
				土壤的测试方法 BS 1377-Part 2:1990 CL.4.1, 4.2, 4.3, 4.4, 5.3, 5.4		2021-01-06
		7	顆粒密度	土壤測試的分類規範 GEOSPEC 3: 2001 7.1, 7.2		2021-01-06
				土壤的测试方法- 第 2 部分: 分类测试 BS 1377-2:1990 CL.8.1, 8.2		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
		8	通過濕篩分的 粒度分佈	土壤測試的分類規範 GEOSPEC 3: 2001 8.1, 8.2		2021-01-06
		9	用比重計測量 粒度分佈	土壤測試的分類規範 GEOSPEC 3: 2001 8.5, 8.6		2021-01-06
				土壤的测试方法- 第2部分: 分类测试 BS 1377-Part 2:1990 CL.9.1, 9.2, 9.3, 9.5		2021-01-06
		10	加州承載比 (CBR)	土壤測試的分類規範 GEOSPEC 3: 2001 Test 12.1		2021-01-06
		11	固結試驗	土壤測試的分類規範 GEOSPEC 3: 2001 Test 14.1		2021-01-06
				土壤的测试方法- 第5部分: 液压单元的固结和渗透率测试以及孔隙压力测量 BS 1377-Part 5 :1990 CL.3		2021-01-06
		12	三軸測試	土壤測試的分類規範 GEOSPEC 3: 2001 Test 15.1, 15.2, 15.3		2021-01-06
				土壤的测试方法-第7部分: 剪切强度测试 (总应力) BS 1377:Part 7 1990 CL.7, 8, 9		2021-01-06
				土壤的测试方法-第8部分: 剪切强度测试 (有效应力) BS 1377:Part 8 1990		2021-01-06
		13	直接剪切試驗	土壤測試的分類規範 GEOSPEC 3: 2001 Test 16.1		2021-01-06
				土壤的测试方法- 第7部分: 剪切强度测试 (总应力) BS 1377:Part 7:1990 CL.4		2021-01-06
		14	無側限抗壓測 試	土壤的测试方法- 第7部分: 剪切强度测试 (总应力) BS 1377:Part 7:1990 CL.7		2021-01-06
8	瀝青及瀝青混 合料	1	針入度試驗	沥青材料渗透性的试验方法 ASTM D5:1997		2021-01-06
		2	延度試驗	沥青材料延性的试验方法 ASTM D113:1999		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
		3	瀝青混合料的瀝青含量和顆粒分析	从沥青混合物中定量提取沥青粘合剂的标准试验方法 ASTM D2172/D2172M-2017e1		2021-01-06
		4	馬歇爾試驗的流动值測試	使用马歇尔仪器的沥青混合物抗塑性流动的试验方法 ASTM D1559-89		2021-01-06
		5	馬歇爾試驗的穩定值測試	使用马歇尔仪器的沥青混合物抗塑性流动的试验方法 ASTM D1559-89		2021-01-06
		6	瀝青路面混合料的密度及理論最大比重試驗	沥青铺设配合料理论最大比重和密度标准试验方法 ASTM D2041/D2041M-19		2021-01-06
9	建築塗料	1	厚度測試	黑色金属上无磁性覆层和有色金属上不传导覆层干膜厚度的无损测量规程 ASTM D7091-05		2021-01-06
				使用超声波涂层测厚仪对施加的有机涂层干膜厚度进行无损测量的标准测试方法 ASTM D6132-2013		2021-01-06
				色漆和清漆 漆膜厚度的测定 ISO 2808:2007 (Method4A, 4B, 7A, 7B, 7C, 7D & 10)	只做方法 (4A, 4B, 7A, 7B, 7C, 7D & 10)	2021-01-06
		2	塗層附著力測試	使用便携式附着力测试仪的涂层剥离强度的标准测试方法 ASTM D4541-09		2021-01-06
				使用便携式剥离粘合力测试仪的混凝土上涂层剥离粘合力的标准测试方法 ASTM D7234-12		2021-01-06
10	防火材料	1	厚度測試	结构构件上喷涂的防火材料 (SFRM) 的厚度和密度的标准测试方法 ASTM E605-93 (Reapproved 2006)		2021-01-06
		2	附著力測試	用于结构构件的喷涂耐火材料的内聚力/粘附力的标准测试方法 ASTM E736-00 (Reapproved 2011)		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
		3	密度	结构构件上喷涂的防火材料（SFRM）的厚度和密度的标准测试方法 ASTM E605-93 (Reapproved 2006)		2021-01-06
11	建築基坑	1	傾斜觀測	建築變形測量規範 JGJ 8-2016		2021-01-06
		2	振動監測	香港土木工程拓展署 振动监测指南 CEDD 2009		2021-01-06
		3	地基位移監測	使用探针型测斜仪监测地面位移的标准测试方法 ASTM D6230-13		2021-01-06
		4	支護結構內力監測	建筑基坑工程监测技术规范 GB50497-2009		2021-01-06
		5	大體積混凝土溫度監測	大体积混凝土施工规范 GB 50496-2009		2021-01-06
		6	沉降監測	工程測量規範 GB 50026:2007		2021-01-06
		7	裂縫監測	建筑基坑工程监测技术规范 GB 50497-2009		2021-01-06
		8	水壓計監測	建筑基坑工程监测技术规范 GB 50497-2009		2021-01-06
12	深基礎	1	单桩竖向抗压承载力	深基礎高應變動力標準試驗方法 ASTM D4945-12		2021-01-06
				深层基础高应变动态测试的标准测试方法 ASTM D4945-17		2021-01-06
				静态轴向压缩荷载下深基坑试验方法 ASTM D1143-07		2021-01-06
				建筑通用规范 2012 第 5 章		2021-01-06
		2	桩身完整性	深层基础低应变冲击完整性测试的标准测试方法 ASTM D5882-07 (2013)		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
				混凝土深基礎完整性跨孔超聲波標準試驗方法 ASTM D6760-14		2021-01-06
				混凝土深基礎完整性跨孔超聲波標準試驗方法 ASTM D6760-16		2021-01-06
		3	超聲回波法成孔質檢測	超声回波测深法确定成孔质量检测 HKCI TM3		2021-01-06
		4	靜態軸向拉伸荷載試驗	深基础静态拉伸拉伸碳化的标准测试方法 ASTM D3689-07		2021-01-06
		5	自平衡檢測法	深基础的标准测试方法-双向静态合并压缩试验 ASTM D8169-2018		2021-01-06
		6	基樁孔內攝像檢測	基樁孔內攝像檢測 CECS 253:2009		2021-01-06
13	地基及基礎	1	錨杆及土釘檢測	基坑设计支护规程 JGJ 120:2012		2021-01-06
				土釘設計與施工指南 Geoguide 7 CL. 6.3.2 & 6.3.3		2021-01-06
				基坑土钉支护技术规程 CECS 96:97		2021-01-06
				锚杆拉力测试的标准测试方法 ASTM D4435-13		2021-01-06
		2	滲透試驗	土木工程土壤试验方法-第5部分：可压缩性，渗透性和耐久性试验 BS 1377-5: 1990		2021-01-06
				恒定压头法渗透率 GEOGUIDE 2, CL. 21.4		2021-01-06
				落头法的渗透率 GEOGUIDE 2 CL. 21.4		2021-01-06
14	混凝土預製構件	1	抗拔測試	混凝土和砌体中的结构固定件- 第1部分：抗拉载荷的试验方法 BS 5080-1 : 1993		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
		2	抗剪试验	混凝土和砌体中的结构固定件-第2部分:剪切力的测定方法 BS 5080-2:1993		2021-01-06
		3	扭力试验	钢结构现场检测技术标准 GB 50621:2010		2021-01-06
15	混凝土結構與構件	1	鋼筋保護層厚度	混凝土测试-钢筋保护层 BS 1881- 204:1988		2021-01-06
		2	混凝土抗压强度(回弹法)	混凝土测试-表面强度测试(回弹法) BS 1881 :Part 202:1986		2021-01-06
				测试结构中的混凝土-非破坏性测试-回弹法的测定 BS EN 12504-2: 2012		2021-01-06
		3	鋼筋半電位檢測	混凝土中钢筋无涂层的腐蚀电位的标准测试方法 ASTM C876-09		2021-01-06
		4	混凝土碳化深度检测	酚酞法测定硬化混凝土的碳化深度 BS EN 14630:2006		2021-01-06
		5	空鼓试验	建筑装饰装修工程施工质量验收规范 GB 50209-2002		2021-01-06
				建筑装饰装修工程质量验收规范 GB50210-2001		2021-01-06
		6	混凝土超聲法缺陷检测	超声波法检查混凝土缺陷的技术规范 CECS 21:2000		2021-01-06
				混凝土测试-超声波脉冲速度的测定 EN 12504-4-2012		2021-01-06
				混凝土超聲法缺陷检测 BS 8110 Part 203:1986		2021-01-06
		7	紅外熱成像检测	紅外熱像儀方法测试屋顶防水性能 HKHA MTS (2000/2002) PART D 第10条		2021-01-06
				红外热成像检测建筑表面缺陷的测试方法 HKCI:TM1		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
16	建築環境	1	嘈聲監測	澳门特别行政区行政长官办公室 第 248/2014 行政长官批示 附件 《声学规定》第 248/2014 行政长官批示 第 248/2014 号行政长官批示		2021-01-06
17	建築幕牆	1	滲漏試驗	現場滲水檢查-质量保证和, 诊断漏水, 已安装的现场检查, 店面, 幕墙 AAMA 501.2-03		2021-01-06



No. CNAS L9239

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名称：综合检测有限公司

地址：中国澳门氹仔圣母圣衣堂郊区卓家村高励雅马路 10232 号

注册号：CNAS L9239

认可依据：ISO/IEC 17025:2017 以及 CNAS 特定认可要求

生效日期：2021 年 01 月 06 日 截止日期：2022 年 08 月 07 日

附件 3 认可的检测能力范围

序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
1	金属材料及结构件	1	拉伸性能	金属材料 - 拉伸试验 - 第 1 部分：常温试验方法 BS EN 10002-1:2001	只测 2000kN 下， R_{eH} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A	2021-01-06
				金属材料 - 拉伸试验 - 第 1 部分：室温试验方法 ISO 6892-1:2019	只测 2000kN 下， R_{eH} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A	2021-01-06
				混凝土配筋用碳素钢筋规范 BS 4449:1988 附录 C		2021-01-06
				混凝土配筋用碳素钢筋规范 BS 4449:2005+A3: 2016		2021-01-06
				混凝土加固用碳素钢筋 CS2:1995		2021-01-06



No. CNAS L9239

第 1 页 共 3 页

序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
				混凝土加固用碳鋼鋼筋 CS2: 2012		2021-01-06
				碳钢与铸钢制造的紧固件机械性能 第1部分:螺栓、螺钉和螺拴 ISO 898-1:1999		2021-01-06
				混凝土的建筑用途 - 第1部分:设计和建筑实用导则 BS 8110-1:1997		2021-01-06
		2	彎曲試驗	混凝土配筋用碳素钢筋规范 BS 4449:1988 附录 C		2021-01-06
				混凝土配筋用碳素鋼筋規範 BS 4449:2005+A3: 2016		2021-01-06
				金属材料焊接的破坏性试验-彎曲試驗 BS EN 910:1996		2021-01-06
				混凝土加固用碳鋼鋼筋 CS2:1995		2021-01-06
				混凝土加固用碳鋼鋼筋 CS2: 2012		2021-01-06
2	混凝土	1	抗压强度	混凝土试验-第4部分:硬化混凝土的强度 ISO 1920-4: 2005		2021-01-06
				混凝土測試 CS1:2010 Section 12		2021-01-06
		2	坍落度	混凝土測試 CS1:2010 第2章第1部分		2021-01-06
		3	流动台扩展度	混凝土測試 CS1:2010 第2章第4部分		2021-01-06
		4	坍落扩展度	混凝土測試 CS1:2010 第2章第5部分		2021-01-06
3	砂漿	1	泌水率和自由膨胀率	在實驗室內測定預填集料混凝土用新拌薄泥漿的膨脹性和泌水性的試驗方法 ASTM C940-1998a (2003)		2021-01-06
		2	截锥流动度	預置集料混凝土流漿的試驗方法(液流錐形漏斗法)		2021-01-06



序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
				ASTM C939-97		

中国合格评定国家认可委员会
认可证书附件



No. CNAS L9239

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Name: Alliance Testing Co., Ltd.

Address: EM Macau Rua Da Ribeira Do Patane, No.157, Industrial Yau
Keong GG6, China

Registration No. CNAS L9239

Effective Date: 2021-01-06 Expiry Date: 2022-08-07

CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
SCHEDULE OF ACCREDITATION CERTIFICATE

SCHEDULE 2 ACCREDITED SIGNATORIES AND SCOPE

No	Name	Authorized Scope of Signature	Note	Effective Date
1	Lau Ting Yan Dee	All Testing Items		2021-01-06
2	Li Bin	Test items of all non-destructive testing items, metal materials and structural parts		2021-01-06
3	Yang Jie	Test items of non-destructive testing items (except for PT) , metal materials and structural parts		2021-01-06
4	Yan, ZhiHui	Soil testing, Asphalt and Asphalt mixture testing		2021-01-06



No. CNAS L9239

第 1 页 共 1 页

The scope of the accreditation in Chinese remains the definitive version.

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Name: Alliance Testing Co., Ltd.

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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

SCHEDULE 1 ACCREDITED KEY LOCATIONS OF THE LABORATORY

Locations Specified	Location Code	Address/Postal Code	Facilities Characteristic	Activity	Note	Effective Date
	A	EM Macau Rua Da Ribeira Do Patane, No.157, Industrial Yau Keong GG6, China/999078	I , II	(1),(3),(4),(5)		2021-01-06
	B	No.10232, Estrada Almirante Magalhães Correia, Zhuo Li, Church of Our Lady of Mount Caramel High Suburbs, Taipa, Macau, China/999078	I	(1),(4)		2021-01-06

Note:

- Facilities Characteristics I: Fixed Facilities, II: Out of Fixed Facilities, III: Temporary Facilities, IV: Mobile Facilities, V: Others.
- Activity (1): Testing, (2): Calibration, (3): Issue of Reports/Certificates, (4): Sample Receiving, (5): Contract Review, (6): Others.



No. CNAS L9239

第 1 页 共 1 页

The scope of the accreditation in Chinese remains the definitive version.

Name: Alliance Testing Co., Ltd.

Address: EM Macau Rua Da Ribeira Do Patane, No.157, Industrial Yau Keong GG6, China

Registration No. CNAS L9239

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2021-01-06 Expiry Date: 2022-08-07

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
Not grouped						
1	Non-destructive testing of metal materials	1	Visual testing	Code of practice- Visual inspection of fusion welded joints BS 5289:1976		2021-01-06
				Non-destructive examination of fusion welds- Visual examination BS EN 970:1997		2021-01-06
				Non-destructive testing of welds. Visual testing of fusion-welded joints BS EN ISO 17637:2011		2021-01-06
		2	Ultrasonic testing	Ultrasonic examination of welds Part 1 Methods for manual examination of fusion welds in ferritic steels BS 3923-1:1986		2021-01-06
				Non-destructive testing of welds- Ultrasonic testing of welded joints BS EN 1714+A1(2002)		2021-01-06
				Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment BS EN ISO 17640-2010		2021-01-06
		3	Magnetic particle flaw testing	Method for Magnetic particle flaw detection BS 6072:1981	Accredited only for yoke	2021-01-06

No. CNAS L9239

第 1 页 共 12 页



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					method	
				Non-destructive examination of welds - Magnetic particle examination of welds BS EN 1290-1998	Accredited only for yoke method	2021-01-06
				Non-destructive testing of welds - Magnetic particle testing ISO 17638:2009	Accredited only for yoke method	2021-01-06
		4	Penetrant Testing	Non-destructive testing of welds -Part 1: Penetrant testing BS EN 571-1:1997	Accredited only for dye penetration method	2021-01-06
		5	Infrared thermal imaging detection	Infrared Thermography Method Statement for Testing on Watertightness of Roof HKHA MTS (2000/2002) Part D cl.10		2021-01-06
				Test method for Detection of Building Surface Defect by Infrared Thermography HKCI:TM1		2021-01-06
2	Metal materials and structural parts	1	Impact property	Charpy impact test on metallic materials-part 1: test method (v- and u-notches) BS EN 10045-1:1990	Accredited only for -5°C~25°C, KV_2 , below 300J	2021-01-06
				Metallic materials. Charpy pendulum impact test- Part 1:Test method BS EN ISO 148-1:2010	Accredited only for -5°C~25°C, KV_2 , below 300J	2021-01-06



No. CNAS L9239

第 2 页 共 12 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Destructive tests on welds in metallic materials - Impact tests - Test specimen location, notch orientation and examination BS EN 875:1995	Accredited only for - 5°C~25°C, KV_2 , below 300J	2021-01-06
				Destructive tests on welds in metallic materials - Impact tests - Test specimen location, notch orientation and examination BS EN ISO 9016:2011	Accredited only for - 5°C~25°C, KV_2 , below 300J	2021-01-06
		2	Macroscopic examination	Destructive tests on welds in metallic materials - Macroscopic and microscopic examination of welds BS EN 1321:1997	Accredited only for macroscopic examination	2021-01-06
				Destructive tests on welds in metallic materials - Macroscopic and microscopic examination of welds BS EN ISO 17639:2013		2021-01-06
		3	Hardness test	Destructive tests on welds in metallic materials - Hardness testing -Part 1: Hardness test on arc welded joints BS EN 1043-1:1996		2021-01-06
				Destructive tests on welds in metallic materials - Hardness testing - Part 1: Hardness test on arc welded joints BS EN ISO 9015-1:2011		2021-01-06
		4	Tensile performance	Metallic materials-tensile testing - Part 1: Method of test at ambient temperature BS EN 10002-1:2001	Accepted only for R_{eH} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A , below 2000kN	2021-01-06



No. CNAS L9239

第 3 页 共 12 页

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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Metallic materials - Tensile testing - Part 1: Method of test at room temperature ISO 6892-1:2019	Accepted only for R_{eH} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A , below 2000kN	2021-01-06
				Specification for Carbon steel bars for the reinforcement of concrete BS 4449:1988 appendix C		2021-01-06
				Steel for the reinforcement of concrete - Weldable reinforcing steel. Bar, coil and decoiled product. Specification BS 4449:2005+A3: 2016		2021-01-06
				Carbon Steel Bars for the Reinforcement of Concrete CS2 : 1995		2021-01-06
				Carbon Steel Bars for the Reinforcement of Concrete CS2 : 2012		2021-01-06
				Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and stud ISO 898-1:1999		2021-01-06
				Structural use of concrete - Code of practice for design and construction BS 8110-1: 1997		2021-01-06
		5	Bend	Carbon steel bars for the reinforcement of concrete BS 4449:1988 appendix C		2021-01-06
				Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification BS 4449:2005+A3: 2016		2021-01-06
				Destructive tests on welds in metallic materials- bend test BS EN 910:1996		2021-01-06
				Destructive tests on welds in metallic materials- Bend tests BS EN ISO 5173:2010+A1:2011		2021-01-06



No. CNAS L9239

第 4 页 共 12 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Carbon Steel Bars for the Reinforcement of Concrete CS2:1995		2021-01-06
				Carbon Steel Bars for the Reinforcement of Concrete CS2: 2012		2021-01-06
3	Concrete	1	Compressive strength	Testing of concrete - Part 4: Strength of hardened concrete ISO 1920-4: 2005		2021-01-06
				Testing Concrete CS1:2010 Section 12		2021-01-06
		2	Slump Test	Testing Concrete CS1:2010 Section 2 Part I		2021-01-06
		3	Flow Table Test	Testing Concrete CS1:2010 Section 2 Part IV		2021-01-06
		4	Slump Flow Test	Testing Concrete CS1:2010 Section 2 Part V		2021-01-06
		5	Depth of penetration of water under pressure	Testing hardened concrete - Depth of penetration of water under pressure BS EN 12390-8:2009		2021-01-06
4	Cement	1	Bleeding and free expansion	Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory ASTM C940-1998a (2003)		2021-01-06
		2	Flow cone Test	Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method) ASTM C939-1997		2021-01-06
5	Tapestry brick	1	Determination of Adhesive strength	Testing standard for adhesive strength of tapestry brick of construction engineering JGJ/T 110-2017		2021-01-06
6	Rock	1	Determination of the Point Load Strength Index of Rock	Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications ASTM D5731: 2008		2021-01-06
		2	Unconfined Compressive Strength	Standard Test Method for Unconfined Compressive Strength of Intact Rock Core Specimens ASTM D2938 (2002)		2021-01-06



No. CNAS L9239

第 5 页 共 12 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
7	Soil	1	Proctor compaction test	Methods of test for soils for civil engineering purposes- Part 4: Compaction-related tests BS 1377-4:1990		2021-01-06
				Model Specification for Soil Testing Geospec 3:2001 10		2021-01-06
		2	In-situ density tests with sand replacement method	Methods for test for soils for civil engineering purposes- Part 9: In-situ tests BS 1377-9:1990		2021-01-06
				Model Specification for Soil Testing Geospec 3:2001 11		2021-01-06
		3	Plate Load Test	Standard Test Method for Bearing Capacity of Soil for Static Load and Spread Footings ASTM D1194-94		2021-01-06
		4	Vane Shear Test	Standard Test Method for Field Vane Shear Test in Cohesive Soil ASTM D2573-2001		2021-01-06
		5	Moisture content by oven-drying	Model Specification For Soil Testing GEOSPEC 3:2001 5.1, 5.2, 5.3		2021-01-06
				Soils for civil engineering purposes BS 1377-Part 2:1990 CL.3		2021-01-06
		6	Liquid limit, plastic limit and plasticity index	Model Specification For Soil Testing GEOSPEC 3: 2001 6.1,		2021-01-06
				Methods of test for Soils for civil engineering purposes BS 1377-Part 2:1990 CL.4.1, 4.2, 4.3, 4.4, 5.3, 5.4		2021-01-06
		7	Particle density by gas jar method	Model Specification For Soil Testing GEOSPEC 3: 2001 7.1, 7.2		2021-01-06
				Methods of test for soils for civil engineering purposes-Part 2-Classification tests BS 1377-2:1990 CL.8.1, 8.2		2021-01-06
		8	Particle size distribution by wet sieving	Model Specification For Soil Testing GEOSPEC 3: 2001 8.1, 8.2		2021-01-06
		9	Particle size distribution by hydrometer	Model Specification For Soil Testing GEOSPEC 3: 2001 8.5, 8.6		2021-01-06
				Methods of test for Soils for civil engineering purposes-Part 2-Classification tests BS 1377-Part 2:1990 CL.9.1, 9.2, 9.3, 9.5		2021-01-06



No. CNAS L9239

第 6 页 共 12 页

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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		10	California Bearing Ratio (CBR)	Model Specification For Soil Testing GEOSPEC 3: 2001 Test 12.1		2021-01-06
		11	One-dimensional consolidation test	Model Specification For Soil Testing GEOSPEC 3: 2001 Test 14.1		2021-01-06
				Methods of test for Soils for civil engineering purposes-Part 6: Consolidation and permeability tests in hydraulic cells and with pore pressure measurement BS 1377-Part 5 :1990 CL.3		2021-01-06
		12	Triaxial compression test without pore pressure measurement	Model Specification For Soil Testing GEOSPEC 3: 2001 Test 15.1, 15.2, 15.3		2021-01-06
				Methods of test for Soils for civil engineering purposes Part7.Shear strength tests(total stress) BS 1377:Part 7 1990 CL.7, 8, 9		2021-01-06
				Methods of test for Soils for civil engineering purposes Part8.Shear strength tests(effective stress) BS 1377:Part 8 1990		2021-01-06
		13	Direct shear Test	Model Specification For Soil Testing GEOSPEC 3: 2001 Test 16.1		2021-01-06
				Methods of test for soils for civil engineering purposes- Part 7: Shear strength tests (total stress) BS 1377:Part 7:1990 CL.4		2021-01-06
		14	Unconfined Compress Strength	Methods of test for soils for civil engineering purposes- Part 7: Shear strength tests (total stress) BS 1377:Part 7:1990 CL.7		2021-01-06
8	Asphalt and Asphalt mixture	1	Penetration test	Standard Test Method for Penetration of Bituminous Materials ASTM D5:1997		2021-01-06
		2	Ductility test	Standard Test Method for Ductility of Bituminous Materials ASTM D113:1999		2021-01-06
		3	Asphalt content and particle analysis of asphalt mixture	Standard Test Methods for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures ASTM D2172/D2172M-2017e1		2021-01-06
		4	Flow Value Test of Marshall Test	Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch-Diameter Specimen) ASTM D1559-89		2021-01-06



No. CNAS L9239

第 7 页 共 12 页

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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		5	Stable value test of Marshall test	Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch-Diameter Specimen) ASTM D1559-89		2021-01-06
		6	Test of density and theoretical maximum specific gravity of asphalt mixture	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures ASTM D2041/D2041M-19		2021-01-06
9	Architectural Coatings	1	Thickness Test	Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals ASTM D7091-05		2021-01-06
				Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage ASTM D6132-2013		2021-01-06
				Paints and varnishes. Determination of film thickness ISO 2808:2007 (Method 4A, 4B, 7A, 7B, 7C, 7D & 10)	Accredited only for method (4A, 4B, 7A, 7B, 7C, 7D & 10)	2021-01-06
		2	Adhesion test of coatings	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers ASTM D4541-09		2021-01-06
				Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers ASTM D7234-12		2021-01-06
10	Fire-proof material	1	Thickness Test	Standard test methods for thickness of sprayed fire-resistive material (SFRM) applied to structural members ASTM E605-93(Reapproved 2006)		2021-01-06



No. CNAS L9239

第 8 页 共 12 页

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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		2	Adhesion test	Cohesion/adhesion of sprayed fire-resistive materials applied to structural members ASTM E736-00 (Reapproved 2011)		2021-01-06
		3	Density	Standard test methods for density of sprayed fire-resistive material (SFRM) applied to structural members ASTM E605-93(Reapproved 2006)		2021-01-06
11	Building foundation pit	1	Tilt observation	Code for deformation measurement of building and structure JGJ 8-2016		2021-01-06
		2	Vibration monitoring	CEDD Guidance Note on Vibration Monitoring CEDD Guidance Note on Vibration Monitoring 2009		2021-01-06
		3	Ground movement monitoring	Standard Test Method for Monitoring Ground Movement Using Probe-Type Inclinometers ASTM D6230-13		2021-01-06
		4	Internal force monitoring of support structure	Technical code for monitoring of building excavation engineering GB50497-2009		2021-01-06
		5	Concrete Temperature Monitoring	Code for Construction of Mass Concrete GB 50496-2009		2021-01-06
		6	Subsidence monitoring	Code for Engineering Surveying GB 50026:2007		2021-01-06
		7	Crack monitoring	Technical code for monitoring of building excavation engineering GB 50497-2009		2021-01-06
		8	Water pressure gauge monitoring	Technical code for monitoring of building excavation engineering GB 50497-2009		2021-01-06
12	Deep foundations	1	Vertical bearing capacity of single pile	Standard test method for high-strain dynamic testing of deep foundations ASTM D4945-12		2021-01-06
				Standard test method for high-strain dynamic testing of deep foundations ASTM D4945-17		2021-01-06
				Standard Test Methods for Deep Foundations Under Static Axial Compressive Load ASTM D1143-07		2021-01-06



№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				General Specification for Building 2012 Section 5		2021-01-06
		2	Pile integrity	Standard test method for low strain Impact Integrity testing of deep foundations ASTM D 5882-07 (2013)		2021-01-06
				Standard test method for Integrity testing of concrete deep foundations by ultrasonic crosshole testing ASTM D 6760-14		2021-01-06
				Standard test method for Integrity testing of concrete deep foundations by ultrasonic crosshole testing ASTM D6760-16		2021-01-06
		3	Ultrasonic echo sounding	Determination of Geometry of Excavation by Ultrasonic Echo Sounding HKCI TM3		2021-01-06
		4	Static Axial Tensile Load Test	Standard Test Methods for Deep Foundations Under Static Axial Tensile Load ASTM D3689-07		2021-01-06
		5	Osterberg cell	Standard Test Methods for Deep Foundations Under Bi-Directional Static Axial Compressive Load ASTM D8169-2018		2021-01-06
13	Foundation	1	Soil nail / Anchor	Technical Specification for Retaining and Protection of. Building JGJ 120:2012		2021-01-06
				Geoguide 7 Guide to Soil Nail Design and Construction Geoguide 7 CL. 6.3.2 & 6.3.3		2021-01-06
				Technical specification for soil nail support of foundation pit CECS 96:97		2021-01-06
				Standard Test Method for Rock Bolt Anchor Pull Test ASTM D4435-13		2021-01-06
		2	Permeability Test	Methods of test for soils for civil engineering purposes- Part 5:Compressibility, permeability and durability tests BS 1377-5: 1990		2021-01-06



No. CNAS L9239

第 10 页 共 12 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Permeability by Constant Head method GEOGUIDE 2, CL. 21.4 GEOGUIDE 2, CL. 21.4		2021-01-06
				Permeability by Falling Head method GEOGUIDE 2 CL. 21.4		2021-01-06
14	Concrete prefabricated components	1	Pullout Test	Structural fixings in concrete and masonry- Part 1: Method of test for tensile loading BS 5080-1 : 1993		2021-01-06
		2	Shear Test	Structural fixings in concrete and masonry-Part 2: Method for determination of resistance to loading in shear BS 5080-2:1993		2021-01-06
		3	Torque Test	Technical standard for in-site testing of steel structure GB 50621:2010		2021-01-06
15	Concrete structures and components	1	Thickness of Recommendations on the Use of Electromagnetic Covermeters	Testing Concrete - Part 204: Recommendations on the Use of Electromagnetic Covermeters. BS 1881- 204:1988		2021-01-06
		2	Concrete compressive strength (Rebound hammer)	Testing concrete - Part 202. Recommendations for surface hardness testing by rebound hammer BS 1881 :Part 202:1986		2021-01-06
				Testing concrete in structures. Non-destructive testing. Determination of rebound number BS EN 12504-2: 2012		2021-01-06
		3	Corrosion Potentials of Reinforcing Steel	Standard Test Method for Corrosion Potentials of Uncoated Reinforcing Steel in Concrete ASTM C876-09		2021-01-06
		4	Carbonation depth test in concrete	Determination of carbonation depth in hardened concrete by the phenolphthalein method BS EN 14630:2006		2021-01-06
		5	Empty drum test	Code for acceptance of construction quality of building ground GB 50209-2002		2021-01-06
				Code for quality acceptance of building decoration engineering GB50210-2001		2021-01-06
		6	Recommendations for Measurement of Velocity of	Technical specification for inspection of concrete defects by ultrasonic method CECS 21:2000		2021-01-06



No. CNAS L9239

第 11 页 共 12 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
			Ultrasonic Pulses in Concrete	Testing concrete. Determination of ultrasonic pulse velocity EN 12504-4-2012		2021-01-06
				Recommendations for Measurement of Velocity of Ultrasonic Pulses in Concrete BS 8110 Part 203:1986		2021-01-06
		7	Infrared thermal imaging detection	Infrared Thermography Method Statement for Testing on Watertightness of Roof HKHA MTS (2000/2002) PART D cl.10		2021-01-06
				Test method for Detection of Building Surface Defect by Infrared Thermography HKCI:TM1		2021-01-06
16	Building Environment	1	Noise monitoring	Macao Special Administrative Region Chief Executive's Office 248/2014 Chief Executive's Instruction Annex "Acoustic Regulations" 248/2014 Chief Executive's Instruction 第 248/2014 号行政长官批示		2021-01-06
17	Building Curtain Wall	1	Leak test	Quality Assurance and. Diagnostic Water Leakage. Field Check of Installed. Storefronts, Curtain Walls AAMA 501.2-03		2021-01-06



No. CNAS L9239

第 12 页 共 12 页

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Registration No. CNAS L9239

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2021-01-06 Expiry Date: 2022-08-07

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Metal materials and structural parts	1	Tensile performance	Metallic materials-tensile testing-part 1: method of test at ambient temperature BS EN 10002-1:2001	Accepted only for R_{eH} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A , below 2000kN	2021-01-06
				Metallic materials. Tensile testing. Method of test at room temperature ISO 6892-1:2019	Accepted only for R_{eH} 、 R_{eL} 、 $R_{p0.2}$ 、 R_m 、 A , below 2000kN	2021-01-06



No. CNAS L9239

第 1 页 共 3 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Carbon steel bars for the reinforcement of concrete BS 4449:1988 appendix C		2021-01-06
				Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification BS 4449:2005+A3: 2016		2021-01-06
				Carbon Steel Bars for the Reinforcement of Concrete CS2 : 1995		2021-01-06
				Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification CS2: 2012		2021-01-06
				Mechanical properties of fasteners made of carbon steel and alloy steel. Part 1: Bolts, screws and stud ISO 898-1:1999		2021-01-06
				Structural use of concrete-Part 1: Code of practice for design and construction BS 8110-1: 1997		2021-01-06
		2	Bend	Carbon steel bars for the reinforcement of concrete BS 4449:1988 appendix C		2021-01-06
				Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification BS 4449:2005+A3: 2016		2021-01-06
				Destructive tests on welds in metallic materials- bend test BS EN 910:1996		2021-01-06
				Carbon Steel Bars for the Reinforcement of Concrete CS2:1995		2021-01-06
				Carbon Steel Bars for the Reinforcement of Concrete CS2 : 2012		2021-01-06
2	Concrete	1	Compressive strength	Testing of concrete - Part 4: Strength of hardened concrete ISO 1920-4: 2005		2021-01-06
				Testing Concrete CS1:2010 Section 12		2021-01-06
		2	Slump Test	Testing Concrete CS1:2010 Section 2 Part I		2021-01-06



No. CNAS L9239

第 2 页 共 3 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		3	Flow Table Test	Testing Concrete CS1:2010 Section 2 Part IV		2021-01-06
		4	Slump Flow Test	Testing Concrete CS1:2010 Section 2 Part V		2021-01-06
	Grout	1	Bleeding and free expansion	Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory ASTM C940-1998a (2003)		2021-01-06
		2	Flow cone Test	Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method) ASTM C939-97		2021-01-06



No. CNAS L9239

第 3 页 共 3 页

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