

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

委托单位/Client : 北京双龙盛电气制造有限公司
Beijing Shuanglongsheng Electric Manufacturing Co., LTD

地 址/Address : 北京市通州区台湖镇经略天则南区 2.19
2.19, Tianze South District, Taihu Town, Tongzhou District, Beijing

以下样品信息由申请人提供及确认:

The sample(s) information below is/are provided and confirmed by client:

样品名称/Sample Name : 热浸镀锌槽式桥架/Hot-dip galvanized trough bridge

型 号/Model : 200*100
200*150
300*100
300*200
400*100
500*100
600*100
800*100
1000*200
1200*200

测试标准/Test standard : JB/T 10216-2013 《电控配电用电缆桥架》《企业技术要求》
JB/T 10216-2013 "Electric Control distribution Cable Bridge"
"Enterprise Technical Requirements"

生产单位地址 : 江苏省扬中市开发区园博大道北 100 米
/Production unit address 100 meters north of Yuanboda Road, Yangzhong Development Zone,
Jiangsu Province

联系人/Contact person : 陈龙/Chen Long

接样日期/Receiving Date : 2024/12/20

签 发
Approved by

樊建红 授权签字人

审 核
Reviewed by
周伟编 制
Prepared by
王彭

Page 1 of 16

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or available on request. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced, except in full, without written approval of the Company. 本报告按本公司所制定之通用服务条款所编制发放。请注意本报告首页背面之此条款，本公司之义务、免责、管辖权均有明确规定，该条款也可向本公司索取。除非另有说明，本报告仅对来样负责，未经许可，不得部分复制本报告。

江苏省优联检测技术服务有限公司

地址：苏州市吴中区越溪街道北官渡路50号3幢 215021
电话 (Tel) : +0512-66358200

UNITED TESTING SERVICES (JIANGSU) CO., LTD.

Address: Building 3, No.50 Beiguandu Road, Wuzhong Zone, Suzhou, Jiangsu, China, 215021
传真 (Fax) : +0512-66358088

----- www.uts.com.cn -----

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

结果总结/Summary of Result(s):

样品名称 Sample Name	项目 Item(s)		判定 Determine	页码 Page Number
热浸镀锌槽式桥架/Hot-dip galvanized trough bridge	1	外观 Appearance	符合/PASS	3
	3	尺寸测量 Dimension measurement	符合/PASS	4
	4	热浸镀锌层厚度 Thickness of hot-dip galvanizing layer	符合/PASS	5-6
	5	盐雾测试 48h Salt spray test 48h	符合/PASS	6-7
	6	交变湿热 24h Alternating humid heat test for 24h	符合/PASS	8-9
	7	附着力 Adhesive force	符合/PASS	10-11
	8	保护电路连续性 (接地) Protection circuit continuity (ground connect)	符合/PASS	12
	11	机械负载试验 Mechanical load test	符合/PASS	13
	12	防护等级 IP30 Protection class IP30	符合/PASS	14
	13	撞击试验 Bump test	符合/PASS	15-16

.....接下页/ To be continued.....

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

一、外观/Appearance

1、测试标准/Test standard

依客户要求要求进行试验，详见测试条件。/The test was/were carried out according to client's requirement, details was/are given in the test condition(s).

2、测试日期/Test Date

2024/12/23

3、测试条件/Test Condition

目视/Visual

4、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-1	镀层表面均匀，无毛刺、过烧、挂灰、伤痕等缺陷，无漏镀点。 /The coating surface is uniform, no burr, over burning, hanging ash, scars and other defects, no leakage plating point.	镀层表面应均匀，无毛刺、过烧、挂灰、伤痕等缺陷，直径小于 2mm 的漏镀点不得超过 3 个，且在任一 100cm ² 的面积内不得有 2 个漏镀点。/The coating surface should be uniform, without burrs, overburning, hanging ash, scars and other defects, the diameter of less than 2mm of the leakage point shall not exceed 3, and in any 100cm ² area shall not have 2 leakage point.	符合/PASS

备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

5、测试照片/Test Photo(s)



外观/Appearance

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

三、尺寸测量/Dimension measurement

1、测试标准/Test standard

GB/T 1958-2017 《产品几何技术规范 (GPS) 几何公差 检测与验证》/Geometrical Product Specifications(GPS)—Geometrical tolerance—Verification

2、测试日期/Test Date

2024/12/23

3、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result
4-3	长/Length: 200cm 宽/Width: 20cm 高/Height: 10cm

4、测试照片/Test Photo(s)


尺寸/Dimension

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

四、热浸镀锌层厚度/Thickness of hot-dip galvanizing layer

1、测试标准/Test standard

依客户要求进行试验，详见测试条件。/The test was/were carried out according to client's requirement, details was/are given in the test condition(s).

2、测试日期/Test Date

2024/12/27-2024/12/30

3、测试仪器/Test Equipment

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
正置金相显微镜 Upright Metallurgical Microscope	M-1-543	2026/10/11

4、测试条件/Test Condition

环境温度/Environment Temperature : (23±5)°C

环境湿度/Environment Humidity : (55±10)%RH

5、测试结果/Test Result(s)

单位/Unit: μm

样品编号 Sample No.	结果 Result			平均值 AVH	判定依据 Judgment Basis	判定 Determine
	①	②	③			
4-4	85.89	82.53	84.93	84.45	≥65	符合/PASS

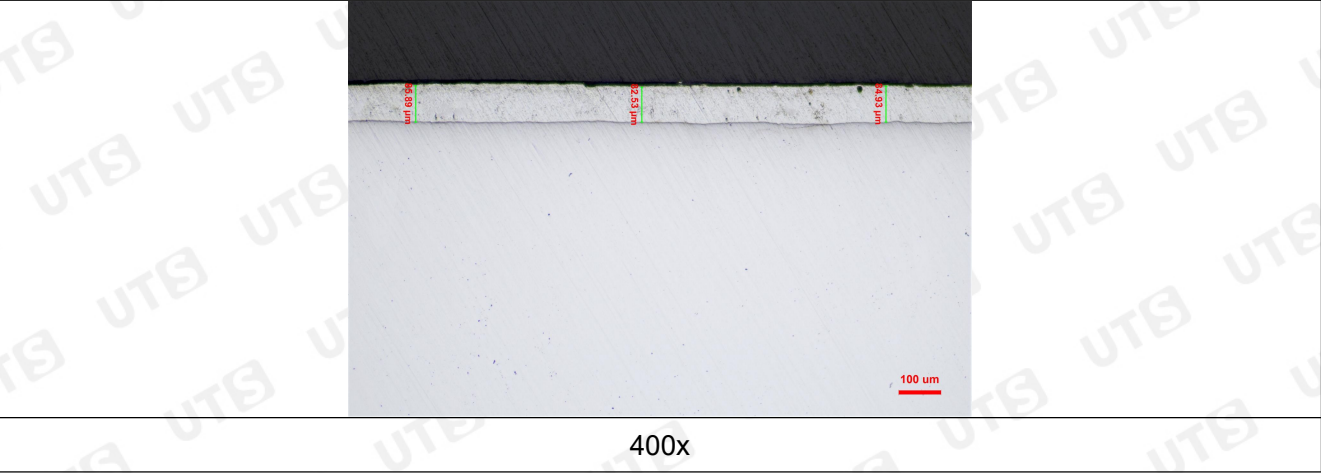
备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

检测报告

TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

6、测试照片/Test Photo(s)



五、盐雾测试 48h/Salt spray test 48h

1、测试标准/Test standard

GB/T 2423.17-2008 《电工电子产品环境试验 第2部分：试验方法 试验 Ka：盐雾》/Environmental testing for electric and electronic products - Part 2: Test method - Test Ka: Salt mist

2、测试日期/Test Date

2024/12/23-2024/12/25

3、测试仪器/Test Equipment

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
盐雾腐蚀试验箱 Salt spray corrosion test chamber	R-1-079	2025/11/25

4、测试条件/Test Condition

环境温度/Environment Temperature : (23±2)℃
环境湿度/Environment Humidity : (50±5) %RH
试验温度/Test Temperature : (35±2) °C
盐水浓度/Medium : (5±1) % NaCl
pH 值/pH Value : 6.5~7.2
盐雾沉降率/Quantity of Fog : 1.0~2.0 mL/80cm²·h
持续时间/Duration : 48 h

检 测 报 告
TEST REPORT

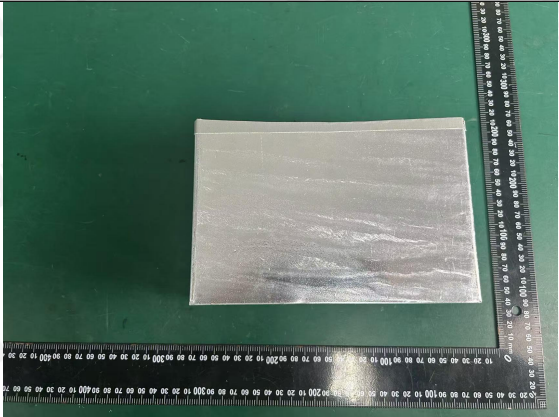
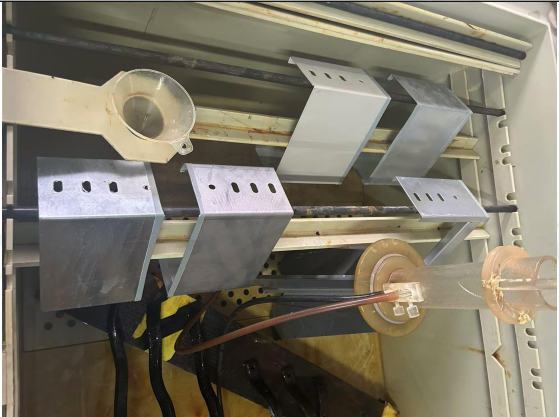
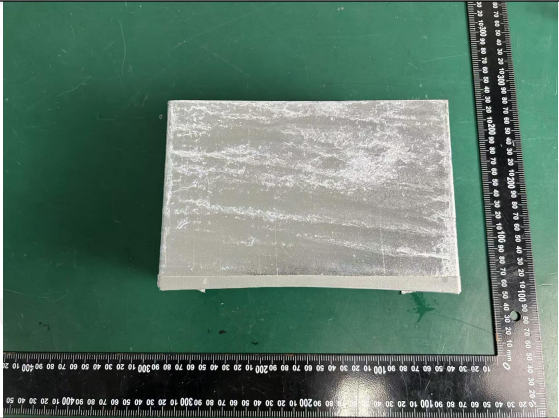
报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

5、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-5	3 级/Level 3	不低于 JB/T 6743-1993 标准 3 级。/Not lower than JB/T 6743-1993 standard level 3.	符合/PASS

备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

6、测试照片/Test Photo(s)

	
测试前/Before test	测试中/During test
	/
测试后/After test	/

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

六、交变湿热试验 24h/Alternating humid heat test for 24h

1、测试标准/Test standard

GB/T 2423.4-2008 《电工电子产品环境试验 第 2 部分：试验方法 试验 Db 交变湿热（12h+12h 循环）》
/Environmental testing for electric and electronic products - Part 2: Test method - Test Db: Damp heat, cyclic (12h+12h cycle)

2、测试日期/Test Date

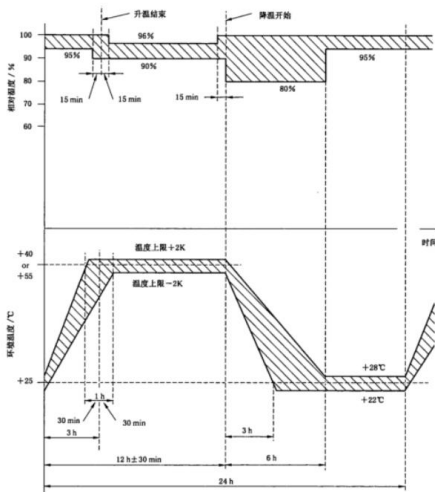
2024/12/24-2024/12/26

3、测试仪器/Test Equipment

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
高低温交变湿热试验箱 High and low temperature alternating wet heat test chamber	R-1-089	2025/11/21

4、测试条件/Test Condition

相对湿度 95%，温度范围：25℃~44℃，1 个循环 24h。/Relative humidity 95%, temperature range: 25℃~44℃, 1 cycle 24h.



检 测 报 告
TEST REPORT

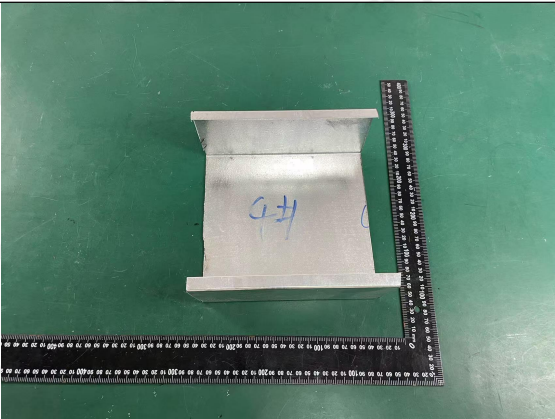
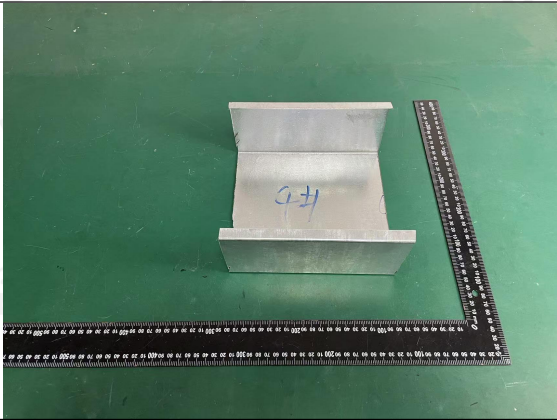
报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

5、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-6	涂层表面无褪色, 无失光, 无气泡等缺陷。 /The coating surface has no fading, no loss of light, no bubbles and other defects.	允许涂层表面轻微褪色, 轻微失光但无气泡等缺陷。/The coating surface is allowed to fade slightly, lose light slightly but no bubbles and other defects.	符合/PASS

备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

6、测试照片/Test Photo(s)

	
测试前/Before test	测试中/During test
	
测试设备/Test equipment	测试后/After test

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

七、附着力/Adhesive force

1、测试标准/Test standard

GB/T 5270-2024 《金属基体上的金属覆盖层 电沉积和化学沉积层 附着强度试验方法评述》/Metallic coatings on metallic substrates-Electrodeposited and chemically deposited coatings-Review of methods available for testing adhesion

2、测试日期/Test Date

2024/12/23

3、测试仪器/Test Equipment

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
漆膜划格器 Paint film marker	M-1-021	2025/07/04

4、测试条件/Test Condition

状态调节/State adjustment : (23±2) °C, (50±5) %RH, 24 h

间距/Spacing : 1 mm

切割刀数/Number of cutting knife : 6*6

5、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-7-A	锌层无剥离、起皮、凸起等现象。/Zinc layer has no peeling, peel off, protrusion and other phenomena.	锌层不应有剥离, 起皮, 凸起等现象。/Zinc layer should not have peel, peel off, protrusion and other phenomena.	符合/PASS
4-7-B	锌层无剥离、起皮、凸起等现象。/Zinc layer has no peeling, peel off, protrusion and other phenomena.		符合/PASS
4-7-C	锌层无剥离、起皮、凸起等现象。/Zinc layer has no peeling, peel off, protrusion and other phenomena.		符合/PASS

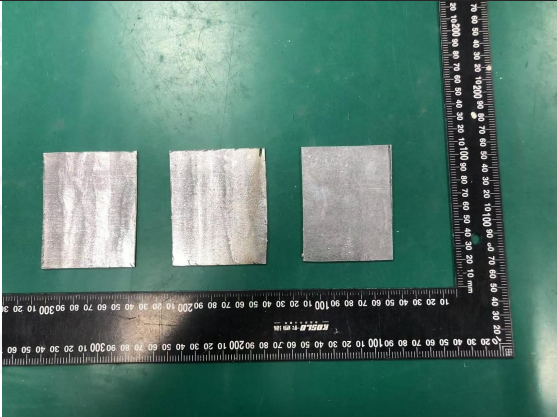
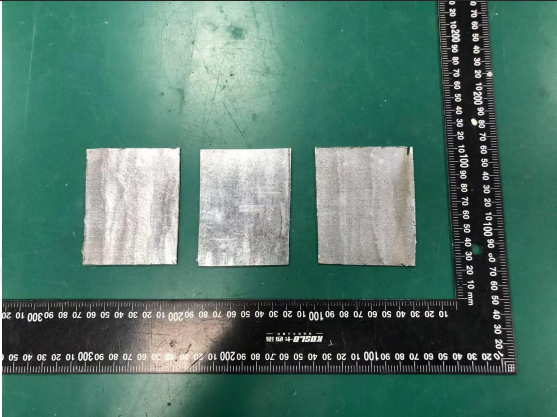
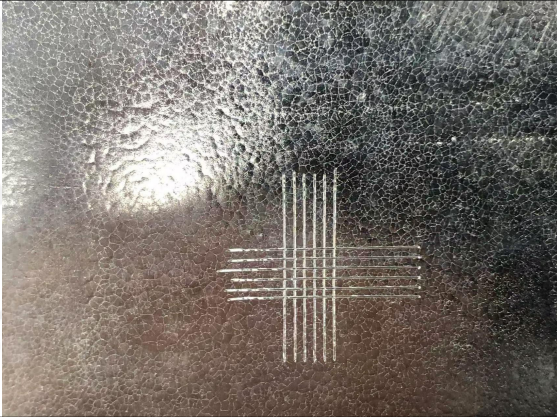
备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

检 测 报 告

TEST REPORT

报告编号 (No.):UTS24120047R04R2 报告日期 (Report Date) : 2025/02/27

6、测试照片/Test Photo(s)

	
测试前/Before test	测试后/After test
	/
特写/Close-up	/

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

八、保护电路连续性（接地）/Protection circuit continuity (ground connect)

1、测试标准/Test standard

依客户要求进行了试验，详见测试条件。/The test was/were carried out according to client's requirement, details was/are given in the test condition(s).

2、测试日期/Test Date

2024/12/30

3、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-8	有可靠的电气连接并接地。/There is a reliable electrical connection and ground.	应有可靠的电气连接并接地/There should be a reliable electrical connection and ground	符合/PASS

备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

4、测试照片/Test Photo(s)



检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

十一、机械负载试验/Mechanical load test

1、测试标准/Test standard

依客户要求进行了试验，详见测试条件。/The test was/were carried out according to client's requirement, details was/are given in the test condition(s).

2、测试日期/Test Date

2024/12/24

3、测试条件/Test Condition

跨距/Span: 1m

承载力/Bearing capacity: 1000N/m

4、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-11	绕度值/Winding value: 0	绕度值/Winding values≤10	符合/PASS

备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

5、测试照片/Test Photo(s)



检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

十二、防护等级 IP30/Protection class IP30

1、测试标准/Test standard

GB/T 4208-2017 《外壳防护等级 (IP 代码)》/Degrees of protection provided by enclosure(IP code)

2、测试日期/Test Date

2024/12/26

3、测试仪器/Test Equipment

设备名称 Test Equipment	设备编号 Equipment Number	校准有效期 Calibration Period of Validity
IP3X 试验探棒 IP3X test probe	R-1-591	2025/04/22

4、测试条件/Test Condition

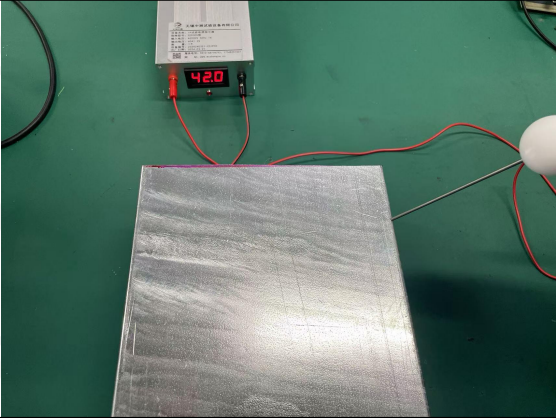
用直径为 2.5mm 的试验棒，对试品外壳施加 3±0.3N 的力。/Using a test rod with a diameter of 2.5mm, a force of 3±0.3N is applied to the test casing.

5、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-12	试验过程试验棒未进入壳内。/The test rod did not enter the shell during the test.	试验过程试验棒不得进入壳内。/The test rod shall not enter the shell during the test.	符合/PASS

备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

6、测试照片/Test Photo(s)


测试中/During test

检 测 报 告
TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

十三、撞击试验/Bump test

1、测试标准/Test standard

GB/T 2423.55-2006 《电工电子产品环境试验 第2部分：试验方法 试验 Eh：锤击试验》/Environmental testing for electric and electronic products--Part 2 : Test methods--Test Eh: hammer tests

2、测试日期/Test Date

2024/12/26

3、测试条件/Test Condition

在长度为 250mm±5mm 的三个试品分别做底部和两个侧边的撞击试验，撞击位置为中部，撞击能量为 10J，次数为各一次。/Bump tests were conducted on the bottom and two sides of the three samples with a length of 250mm±5mm, respectively. The bump position was the middle, the bump energy was 10J, and the number of times was once.

4、测试结果/Test Result(s)

样品编号 Sample No.	结果 Result	判定依据 Judgment basis	判定 Determine
4-13	无变形和裂纹。/No deformation and crack.	不应出现影响安全使用的变形和裂纹。 /There should be no deformations and cracks that would affect safe use.	符合/PASS

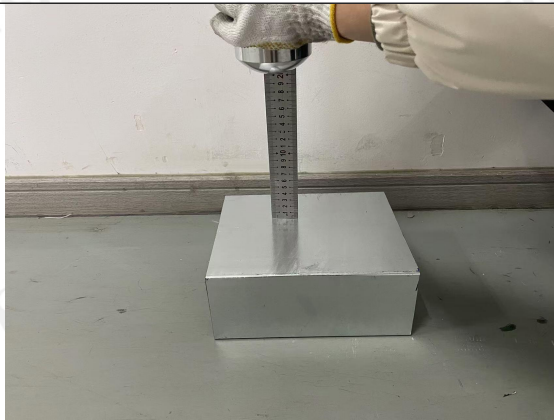
备注/Remark: 判定限值依客户要求。/The prescribed limit(s) is/are according to client's requirement.

检 测 报 告

TEST REPORT

报告编号 (No.): UTS24120047R04R2 报告日期 (Report Date): 2025/02/27

5、测试照片/Test Photo(s)



测试中/During test

此报告代替之前 2025/01/02 发出的报告 UTS24120047R04R1，特此声明报告 UTS24120047R04R1 作废。

This report replaces the report UTS24120047R04R1 that was issued on 2025/01/02, we hereby declare that the report UTS24120047R04R1 is invalid.

.....报告结束/End of Report.....

本报告中结果仅作为科研、教学或内部质量控制之用。

Test results in this report are only used for scientific research, teaching and internal quality control.