

## Technical Report No.: 68.189.22.0109.01

Date: 2022-05-25

Client: Name: Union Cellular Co., Ltd  
Address: 8F., No. 23, Sec. 2, Keelung Rd., Xinyi Dist., Taipei City.

Test object: Product: Tough Glass  
Model: 1 #  
Trade mark: Union Tough Glass

Test specification: According to client's requirements.

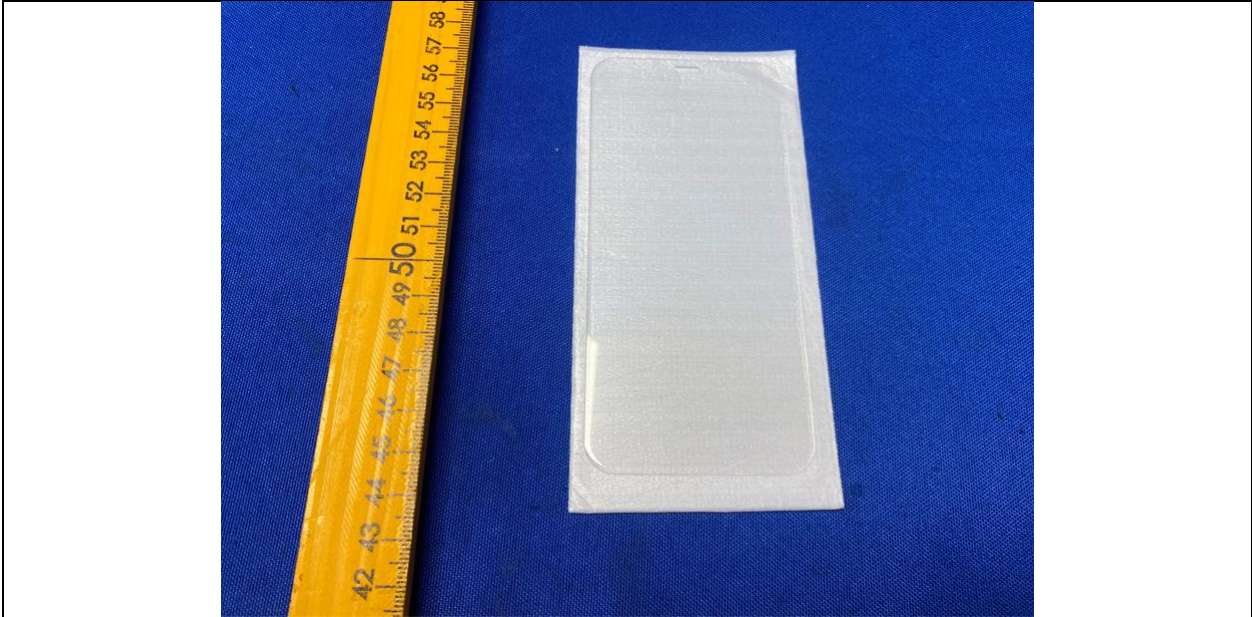
Purpose of examination: Verify the sample's ability to protect external mechanical impacts.

Test result: See section 5 for details.

*Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see testing and certification regulation, chapter A-3.4.*

## 1. Description of the test object

### 1.1 Picture(s)



### 1.2 Function

Not provided

Manufacturer's specification for intended use:

Not provided

Manufacturer's specification for predictive use:

Not provided

### 1.3 Consideration of the foreseeable use

- Not applicable
- Covered through the applied standard
- Covered by the following comment\*
- Covered by attached risk analysis

\*

## 1.4 Technical Data

Thickness: 0.3mm-0.45mm (not included adhesive layer) – Provided by client.

Test sample parameters--- Measurement

- Length: 129.25 mm
- Width: 61.62 mm
- Thickness: 0.641 mm (Included adhesive layer)

## 2. Order

### 2.1 Date of Purchase Order, Customer's Reference

2022-05-09

### 2.2 Test Sample(s)

- Reception date(s): 2022-05-09
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
- Condition of test sample(s): Normal

### 2.3 Date(s) of Testing

2022-05-19

### 2.4 Location(s) of Testing

Building A2, Jin'ao Industrial Park, No.150, Jingfang Road, Fuhai Street, Baoan District, 518103 Shenzhen, China

## 3. Remarks

Test steel ball parameters:

- Material: Solid stainless steel
- Weight: 64.55 g
- Diameter: 24.93 mm

## 4. Documentation

Appendix 1: Test procedure

Appendix 2: Test photos

Appendix 3: Table of Used Instruments

5. Summary

Sample model	Test item	Check result	Test result
Tough Glass 1#	Ball drop test	No visible cracks,pits on the surface of tough glass.	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Tested by:

*Victory Zhu*

Victory Zhu  
Project Handler

Approved by:

*Simon Chen*

Simon Chen  
Designated Reviewer

## Appendix 1: Test procedure

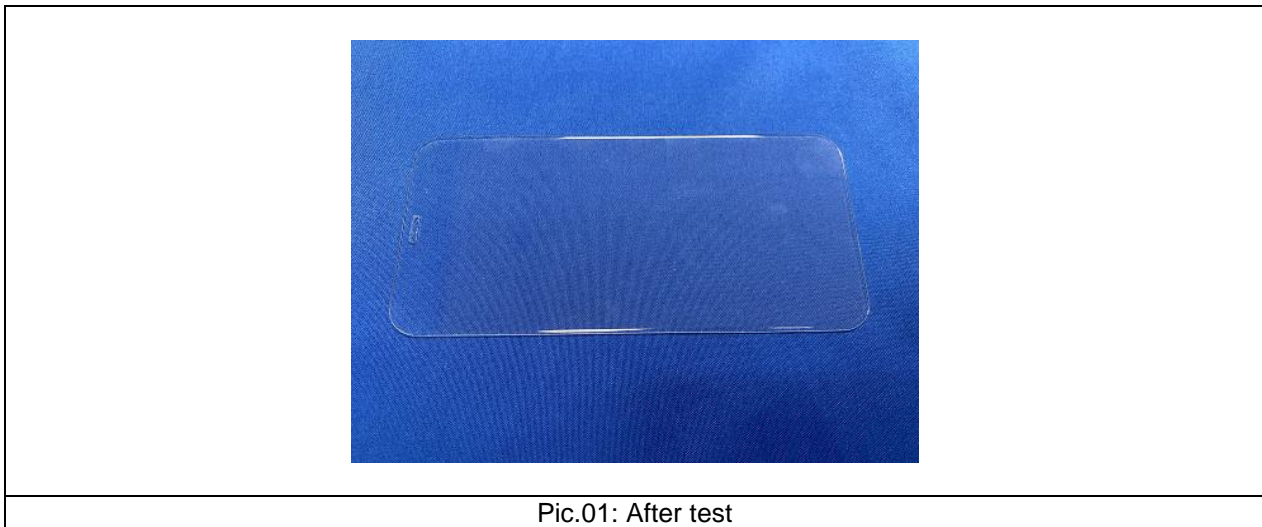
Ball impact test according to client's requirements:

Test conditon:

- Mass of steel ball: 64 g Solid stainless steel
- Drop height: 100 cm
- Installation of EUT: Paste the test tough glass to the test phone screen
- Drop point: center of screen
- Drop time: 1

Pass criteria: After test, no visiable cracks,pits on the surface of tough glass.

## Appendix 2: Test photos



## Appendix 3: Table of Used Instruments

Equipment ID	Equipment name	Model	Calibration date	Due date
68-1-47-21-015	Electronic scale	I-2000	2021-09-02	2022-09-01
68-1-18-20-240	Measurting ruler	5m	2020-11-20	2025-11-19
68-1-40-06-015	Vernier caliper	52-2	2021-03-11	2022-03-10
68-1-99-18-399	Steel ball	ZLT-TZ1	2020-08-25	2021-08-24
68-5-93-13-007	Drop tester	BF-DX-150S	2021-08-26	2022-08-25
68-1-18-18-051	Micrometer	0-25mm/0.01mm	2021-11-16	2022-11-15

--- End of Report ---