# Test Plan Mandarijn Proof



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## Mandarijn Proof Test Plan

## Objective

To determine if the PCB or embedded electronic device can withstand the impact of a mandarin dropped from a standard height without sustaining functional damage.

### Equipment

- · Mandarins (average size and weight)
- Drop test apparatus (or by hand)
- Surface for testing (the floor)

#### **Test Procedure**

#### **Preparation:**

Ensure the PCB or device is operational and document its initial functional status.

Place the device on a standard laboratory floor.

#### **Drop Test:**

Drop a mandarin from a height of 1 meter directly onto the device.

Repeat the drop test three times to ensure consistency.

#### Inspection:

After each drop, inspect the device for any physical damage.

Perform a functional test to ensure the device operates as expected.

#### **Documentation:**

Record any physical damage and the results of the functional tests after each drop.

Compare the pre-test and post-test functional status of the device.

#### Criteria for Certification:

The device should show no significant physical damage that could affect its functionality. The device must pass all functional tests post-impact to be certified as "Mandarijn Proof."

This test plan ensures that the device is tested under conditions that simulate an accidental drop of a mandarin, verifying its robustness against such an impact.

# Mandarijn Proof Test Plan Documentation Form

Name Tester:				
Name Reviewer:				
Date:				
Device Description:				
Device Serial Number:				
Initial Functional Status:				
Drop Height:		1 meter		
Surface:		The Floor		
Mandarins Used:		Average size and weight		
Number of drops:		3		
Drop Test results			T=a	
Drop	Physical Damage		Functional Status	
Drop 1				
Drop 2				
Drop 3				
Post-Test analysis		DIt		
Criteria for Certification		Result Yes / No		
No significant physical damage  Passed all functional tests		Yes / No		
Certified as Mandarijn Proof		Yes / No		
Contined do Flandariji i Foor		1037140		
Comments				
Approval				
Approval				
X		X		
Tostor		Poviowar		