

ISO 8611-1:2025-02 (E)

Pallets for materials handling - Flat pallets - Part 1: Test methods

| Contents | | Page |
|--------------------|---|-------------|
| Foreword | | v |
| Introduction | | vi |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Measurements | 3 |
| 5 | Precision and accuracy of tests and apparatus | 3 |
| 6 | Test load | 3 |
| 7 | List of tests | 3 |
| 8 | Tests | 4 |
| 8.1 | Test 1 -- Bending tests | 4 |
| 8.1.1 | Purpose | 4 |
| 8.1.2 | Procedure | 5 |
| 8.1.3 | Measurements | 6 |
| 8.2 | Test 2 -- Forklifting tests | 7 |
| 8.2.1 | Purpose | 7 |
| 8.2.2 | Procedure | 7 |
| 8.2.3 | Measurement | 8 |
| 8.3 | Test 3 -- Compression tests for blocks or stringers | 9 |
| 8.3.1 | Purpose | 9 |
| 8.3.2 | Procedure | 9 |
| 8.3.3 | Measurement | 10 |
| 8.4 | Test 4 -- Stacking test | 11 |
| 8.4.1 | Purpose | 11 |
| 8.4.2 | Procedure | 12 |
| 8.4.3 | Measurement | 12 |
| 8.5 | Test 5 -- Bottom deck bending tests | 12 |
| 8.5.1 | Purpose | 12 |
| 8.5.2 | Procedure | 12 |
| 8.5.3 | Measurement | 13 |
| 8.6 | Test 6 -- Wing pallet bending tests | 14 |
| 8.6.1 | Purpose | 14 |
| 8.6.2 | Procedure | 14 |
| 8.6.3 | Measurements | 15 |
| 8.7 | Test 7 -- Airbag bending tests | 15 |
| 8.7.1 | Purpose | 15 |
| 8.7.2 | Procedure | 15 |
| 8.7.3 | Measurement | 18 |
| 8.8 | Test 8 -- Static shear test | 18 |
| 8.8.1 | Purpose | 18 |
| 8.8.2 | Procedure | 18 |
| 8.8.3 | Measurement | 19 |
| 8.9 | Test 9 -- Corner drop test | 20 |

| | | |
|--------------------|---|----|
| 8.9.1 | Purpose | 20 |
| 8.9.2 | Procedure | 20 |
| 8.9.3 | Measurement | 20 |
| 8.10 | Test 10 -- Shear impact tests | 21 |
| 8.10.1 | General | 21 |
| 8.10.2 | Purpose | 21 |
| 8.10.3 | Procedure | 21 |
| 8.10.4 | Measurement | 21 |
| 8.11 | Test 11 -- Top deck edge impact test | 22 |
| 8.11.1 | Purpose | 22 |
| 8.11.2 | Procedure | 22 |
| 8.11.3 | Measurement | 23 |
| 8.12 | Test 12 -- Block impact test | 23 |
| 8.12.1 | Purpose | 23 |
| 8.12.2 | Procedure | 24 |
| 8.12.3 | Measurement | 24 |
| 8.13 | Test 13 -- Static coefficient of friction test | 25 |
| 8.13.1 | Purpose | 25 |
| 8.13.2 | Procedure | 25 |
| 8.13.3 | Measurement | 26 |
| 8.14 | Test 14 -- Slip angle test | 26 |
| 8.14.1 | Purpose | 26 |
| 8.14.2 | Procedure | 26 |
| 8.14.3 | Measurement | 26 |
| 9 | Test report | 27 |
| 9.1 | General information -- All materials | 27 |
| 9.2 | Information for wooden and wood-based composite pallets | 28 |
| 9.3 | Information for plastics pallets | 28 |
| 9.4 | Information for pallets made of other materials | 28 |
| Bibliography | | 29 |