

Australian Standard™

Paints and related materials—Methods of test

Method 406.1: Resistance to impact—Falling weight test (Gardner-type tester)

METHOD

1 SCOPE

This Standard sets out two procedures for assessing the resistance of paint systems to the impact of a hemispherically-tipped indenter.

NOTES:

- 1 The method for checking the adhesion using this test may not be suitable in all cases. For example, it should not be used where the thickness of the paint system is less than 50 µm.
- 2 For the coil coating industry reference may also need to be made to AS 2728.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
|------------|------------------------------------------------------------------------------------------------------------------|
| 1580 | Paints and related materials—Methods of test |
| 1580.101.3 | Method 101.3: Standard procedure for stoving |
| 1580.101.5 | Method 101.5: Conditions of test—Temperature and humidity control |
| 1580.104.1 | Method 104.1: Recommended materials for test panels |
| 1580.108.1 | Method 108.1: Determination of dry film thickness on metallic substrates—Non-destructive methods |
| 2728 | Prefinished/prepainted sheet metal products for interior/exterior building applications—Performance requirements |

3 DEFINITIONS

For the purposes of this Standard the definitions below apply.

3.1 Direct impact

The indenter falls onto the coated side of the test.

3.2 Impact zone

The entire area of distortion created by the indenter.

3.3 Reverse impact

The indenter falls onto the back or the uncoated side of the panel.