

TM 7-14

Cycle-Slam Test

**Test Method for Determining
the Physical Endurance of
Wood Doors & Associated
Hardware Connections under
Accelerated Operating
Conditions**



**WINDOW & DOOR
MANUFACTURERS ASSOCIATION**

WDMA

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WINDOW & DOOR MANUFACTURERS ASSOCIATION
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TEST METHOD FOR DETERMINING THE PHYSICAL ENDURANCE
OF WOOD DOORS & ASSOCIATED HARDWARE CONNECTIONS
UNDER ACCELERATED OPERATING CONDITIONS

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1. SCOPE

The purpose of this test method is to test the performance of a wood door as it swings in its opening. The test is designed to accelerate the actual operating conditions.

2. APPLICABLE DOCUMENTS

- 2.1. ANSI/BHMA A156.1-2013, American National Standard for Butts & Hinges
- 2.2. ANSI/BHMA A156.4-2013, American National Standard for Door Controls – Closers
- 2.3. DHI-WDHS-3, Recommended Locations for Architectural Hardware for Wood Flush Doors (1993)

3. SIGNIFICANCE AND USE

This test method will not determine the useful life of doors in service as a result of the data obtained during this test. It will however, indicate what the effects of hard impacts upon closing (slamming) and cycling will be on the door and door hardware connections. It will provide useful data for designers, specifiers, and manufacturers in making judgments on the ability of the door assembly to maintain serviceability under actual operating conditions.