**Performance Oriented Packaging Testing of M248E1 Warhead**

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This report contains the testing and test results performed on the M248E1 Patriot Warhead (packed 1 warhead/box).
1. DATA

CONTAINER:

Type: Container, Wood  
UN Code: 4C1  
Nomenclature: Box, Wood for Warhead  
Specification Number: PPP-B-621  
Drawing Number: 9340600  
Material: Wood  
Capacity: 83.2 kg (183 lbs.)  
Dimensions: 54.6 cm x 50.8 cm x 68.6 cm (21 1/2 in x 20 in x 27 in)  
Gross Weight: 112 kg (246.4 lbs.)

PRODUCT:

Name: M248E1 Warhead  
Drawing Number: 9340599  
United Nations Number: 0286  
United Nations Packing Group: II  
Physical State: Solid  
Amount per Container: 1 Warhead

2. BACKGROUND:

This report contains the testing and test results performed on the M248E1 Warhead. The wood box (PN 9340600) contains 1 warhead and is packed in accordance with drawing no. 9340599. Tests were performed in accordance with Performance Oriented Packaging test regulations.

3. TEST:

DROP

Boxes were dropped once each from 1.2 meters (4 feet). The boxes were dropped on 3 inch solid steel plate reinforced by 18 inches of crushed rock in 5 different orientations. The orientations were as follows:

Bottom  
Top  
Side, Long  
Side, Short  
Bottom Corner

LOOSE CARGO VIBRATION

Vibration test were performed on 3 boxes for 1 hour each. The frequency applied caused the box to be raised from the vibrating platform 1/16 in. (1.6 mm).
4. RESULTS:

The containers passed all tests since none of the contents were discharged. They are considered safe for international transportation in accordance with Performance Oriented Packaging regulations.

5. REFERENCED MATERIAL:


b. Federal Register Part II