



Pickup Box Impact Test Procedures (Brick Drop and Drum Drop)

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. To evaluate the impact performance of pickup box and endgate of the general type shown in Figure 1.

1.2 Applicability. All Pickup Boxes (PUBX) (Body on Frame (BOF)) and endgate areas capable of contacting cargo.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

None

2.3 Additional References.

- GM1829 Analysis Development and Validation Plan and Report
- Subsystem Technical Specification (SSTS)

3 Resources

3.1 Facilities. Not applicable.

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.2 Equipment.

3.2.1 Digital Camera. Video camera optional.

3.2.2 Common Building Brick – 2.3 kg. See Figure 1.

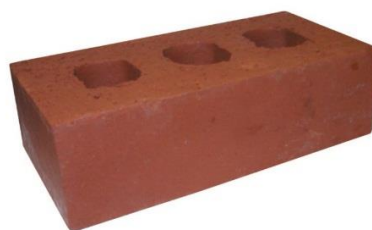


Figure 1: Common Building Brick

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3.2.3 Cement Building Block measuring 19.4 cm high by 19.4 cm deep by 38.8 cm wide and weighing $16 \text{ kg} \pm 4 \text{ kg}$. See Figure 2.



Figure 2: Cement Building Block ~16 kg

3.2.4 Drum with 208.175L (55.0 gal) Capacity. See Figure 3.



Figure 3: 208.175L (55.0 gal) Drum

3.3 Test Vehicle/Test Piece. Vehicle with pickup box and endgate with production representative parts. See Figure 4.

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