



AMS 3554A

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AEROSPACE MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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AMS 3554A

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FIBREBOARD, CORRUGATED Double Wall

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. **APPLICATION:** Primarily for shipping containers not over 120 in. in total inside length, width and depth, total weight of container and contents to be not over 160 lb for "easy" loads and not over 140 lb for "average" loads.
3. **MATERIAL:** Shall consist of a flat paper sheet between two corrugated paperboard members each faced with a flat paper sheet. The corrugated members shall be securely bonded to each adjacent liner at the apex of all corrugations. All members shall be heavily sized to form a highly water resistant product.
 - 3.1 **Corrugated Members:** Shall be made from paperboard not less than 0.0095 in. thick and weighing not less than 35 lb per 1000 sq ft and with approximately 50 or 42 flutes per ft, approximately 1/8 or 3/16 in., respectively, in height. Unless otherwise specified, both corrugated members shall have the same number of flutes per foot.
 - 3.2 **Liners:** Shall be made from 100% sulfate kraft paperboard not less than 0.022 in. thick and weighing not less than 90 lb per 1000 sq feet.
 - 3.3 **Adhesive:** Shall be waterproof.
4. **TECHNICAL REQUIREMENTS:**
 - 4.1 **As Received:**
 - 4.1.1 **Bursting Strength:** Shall be not lower than 600 psi, determined as in 4.1.1.1.
 - 4.1.1.1 Bursting strength shall be determined in accordance with the general procedure described in ASTM D774-46 on a Mullen or Cady tester of suitable capacity. Six punctures shall be made on sound unscored portions, 3 from each side of the board. Double-pop punctures shall be disregarded. The average of the 6 punctures shall be reported.
 - 4.2 **Water Resistance:** Specimens approximately 6 x 10 in. shall be immersed vertically in tap water at room temperature for 24 hr with 10 in. edge horizontal and top edge 1 in. below surface of water, so supported that water has free access to all surfaces and that separation of components is not restricted. Water shall have pH between 5.8 and 8.0 and shall be drawn fresh for each batch of samples. Upon removal from water, excess surface water shall be removed so that surfaces no longer glisten and specimens shall be shaken sharply to remove water from the corrugations. Material so treated shall conform to the following requirements.

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