

**AEROSPACE
MATERIAL
SPECIFICATION**

AMS 3552A

Issued 3-1-44
Revised 10-1-82

**FIBREBOARD, CORRUGATED
Single Wall, Double Face**

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 4-15-58. It is recommended that this specification not be specified for new designs.

This cover sheet should be attached to the "A" revision of the subject specification.

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This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of 10-1-82. By this action, subject specification number and title will be deleted from the active specification index of Aerospace Material Specifications.

This specification is under the jurisdiction of AMS Committee "C".

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AEROSPACE MATERIAL SPECIFICATIONS

AMS 3552A

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

TWO PENNSYLVANIA PLAZA, NEW YORK, N. Y. 10001

Issued 3-1-44

Revised 2-15-53

FIBREBOARD, CORRUGATED Single Wall, Double Face

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 70 in. in total inside length, width and depth, total weight of container and contents to be not over 70 lb for "easy" loads and not over 40 lb for "average" loads, except that when used as interior containers for "average" loads total weight may be as much as 70 pounds.
3. **MATERIAL:** Shall consist of a corrugated member of paperboard faced on each side with a paper sheet. The corrugated member shall be securely bonded to the liners at the apex of all corrugations. All members shall be heavily sized to form a highly water resistant product.
 - 3.1 **Corrugated Member:** Shall be made from paperboard not less than 0.0095 in. thick and weighing not less than 35 lb per 1,000 sq ft and with approximately 50 or 42 flutes per ft, approximately 1/8 or 3/16 in., respectively, in height.
 - 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 1,000 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 400 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.
 - 4.2.1 **Bursting Strength:** Shall be not lower than 150 psi, determined as in 4.1.1.1.

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