

AERONAUTICAL MATERIAL SPECIFICATION

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Revised

F I B R E B O A R D Solid

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. MATERIAL: The material shall consist of three or more plies of paper board faced on both sides with a water-repellent paper sheet all of which are firmly bonded together.
3. APPLICATION: This fibreboard is suitable for use in the manufacture of exterior shipping containers constructed to resist the penetration of water.
4. CONSTRUCTION:
 - (a) Facing Material.- The facing material shall be 100% sulphate kraft paper treated throughout with water-repellent sizing material.
 - (b) Bonding Material.- The adhesive used for bonding shall be resistant to water and to growth of molds and fungi.
 - (c) Overall Thickness.- The nominal thickness of the fibreboard shall be 0.090 inch; tolerance of plus 15% and minus 5% will be permitted.
5. REQUIREMENT:
 - (a) Bursting Test.- In all cases the bursting strength shall be taken as the average of at least six determinations made on each side of the fibreboard and on sound unscored sections. Samples shall be clamped firmly to prevent slipping. If the board fails to pass this test, a retest of additional samples, taken from the same lot of material, to provide 24 punctures, 12 from each side of the board shall be taken. If the average of these tests does not fall below the specified minimum the board will be acceptable. All tests shall be conducted on fibreboard that has been subjected for at least three hours to normal atmospheric conditions, 50 - 70 per cent relative humidity.
 - (1) Dry.- The fibreboard shall have an original bursting strength of not less than 550 points.
 - (2) Wet.- After immersion for 24 hours in water at a temperature of $77^{\circ}\text{F} \pm 5^{\circ}$ ($25^{\circ}\text{C} \pm 2.8^{\circ}$), the fibreboard shall have a bursting strength of not less than 500 points. Tests shall be conducted immediately after removing the fibreboard from water and removing excess water by suitable means so that surfaces no longer glisten and are not damaged.
 - (b) Fold Test.- After scoring with a flat type score of such width and depth that inside faces will not crowd each other at the heel of a 90° bend, the fibreboard as received shall not rupture or separate after being folded flat on itself through twelve 180° reversals.
 - (c) Ply Separation.- When as a result of the 24-hour water immersion test specified in paragraph 5a(2) separation of component appears at the edge of the board, such separation shall not extend more than 1/4 inch from any edge of the specimen as determined by flexing edges by pressure from thumb. Specimens 10 x 6 inches cut from the sample fibreboard are a suitable size for this test.