

9-GP-15P
October 1953
CANCELLATION
22 January 1960

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Provisional Specification
for

FIBREBOARD; INSULATING

CGSB Provisional Specification 9-GP-15P dated October 1953 is hereby
cancelled and superseded by specification 11-GP-2 dated 22 January 1960.

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Provisional Specification
for

FIBREBOARD; INSULATING

1. DEFINITION

This specification applies to insulating fibreboard manufactured from wood or other vegetable fibre.

2. CLASSIFICATION

2.1 The insulating fibreboard shall be furnished in such of the following types as may be specified by the purchaser.

2.1.1 Type A - Building Board (General)

2.1.2 Type B - Lath (for plaster base)

2.1.3 Type C - Roof insulating board.

2.1.4 Type D - Interior board (finishing)

2.1.5 Type E - Sheathing.

3. GENERAL REQUIREMENTS

3.1 Construction - The completed board may be either single or multiple-ply. When multiple-ply boards are supplied they shall be cemented together with a bonding agent of such characteristics that breakage in the transverse strength test (Table II), after soaking, will occur in the board and not in the bond.

3.2 Surfaces - Surfaces shall be natural or other specified finish and shall be free from cracks, excessive departure from planeness or other defects.

3.3 Edges and Finishes

3.3.1 Type A - Edges shall be square

3.3.2 Type B - Short edges shall be square or fabricated, and long edges shall be fabricated.

3.3.3 Type C - For thicknesses under 1 inch, edges shall be square, For thicknesses of 1 inch or more, edges shall be square or offset, as specified. When offset material is specified, the amount of offset shall be 1 inch minimum.

3.3.4 Type D - Edges shall be either square or fabricated and surfaces may be treated.

3.3.5 Type E - Edges shall be either square or fabricated.

4. DETAIL REQUIREMENTS

4.1 Dimensions - of the conditioned fibreboard shall be as specified, subject to the following tolerances.

4.1.1 Length and Width - Tolerances shall not be more than +0", -1/16" per foot, with a total tolerance of not more than +0", -1/4" per piece.

4.1.2 Thickness - Tolerances shall not be more than specified in Table I following. Measurement of thickness shall be in accordance with Method 3.1.

Table I

Thickness Tolerances

Thickness (inches)	Tolerance (percent)
1/2 and under.....	± 8
Over 1/2, up to and including 1.....	± 7
Over 1.....	± 5

4.2 Squareness - The corners of any fibreboard sheet or panel shall not deviate from a right angle by an amount greater than that represented by 0.075 degrees. (i.e., not more than 1/64" per foot).

4.3 Physical Properties - The fibreboard shall meet the physical requirements listed in Table II.

TABLE II

	Type					Test Method (9-GP-17P)
	A	B	C	D	E	
Thermal Conductivity B.t.u./hr./sq.ft./degree F./inch of thickness (maximum).....	0.38	0.38	0.38	0.38	0.42	Method 4.1
Transverse load at rupture, average (Note 1), pounds (min.).....	12	12	7	12	14	Method 5.1
Deflection at rupture, inch(min.) (Note 1A).....	0.25	0.25	0.25	0.25	0.25	Method 5.1
Deflection at minimum specified load, inch (max.) (Note 1A).....	0.85	0.85	1.25	0.85	0.75	Method 5.1
Tensile strength parallel to surface, pounds per square inch (Note 2) (min.).....	150	150	100	150	150	Method 6.1
Water absorption, percent (max.)....	7	7	10	10	7	Method 8.1
Water permeability, time of pene- tration through the board, hours (minimum).....	---	---	---	---	20	Method 9.1
Water vapor permeability, perms. (grains/hr/sq.ft/inch Hg) (Min.)..	---	---	---	---	3	Method 10.1
Linear expansion, percent (maximum)	1/2	1/2	1/2	1/2	1/2	Method 11.1

Note 1 - This requirement is based on specimens 1/2 inch thick and 3 inches wide, tested on a span of 12 inches. For thicker specimens, tested with the same span-depth ratio (24:1), the same minimum transverse loads shall apply. For thinner specimens, the minimum transverse load shall be increased by 1.5 pounds for each 1/16 inch under 1/2 inch. Since this requirement is based on 3-inch wide test specimens, it does not cover material less than 1/4 inch in thickness, for which specimens are only 2 inches wide.

The average of test results in both the machine direction and across-machine direction shall be used to determine compliance with the requirement. However, average strength values in any one direction shall not be more than ten percent below the specification requirement.

Note 1A - This requirement is based on specimens 1/2-inch thick. For specimens less than 1/2-inch thick, the minimum deflection at rupture shall be varied in direct proportion to thickness, and the maximum deflection at minimum specified load shall be that for 1/2-inch thickness reduced by 0.20 inches for each 1/16-inch below 1/2-inch thickness.

Note 2 - Tensile strength requirements shall be applicable only on thicknesses up to and including 1-inch.

5. SAMPLING AND TEST METHODS

5.1 Sampling - shall be in accordance with Method 1.1 of Schedule 9-GP-17P: Methods of Sampling and Testing Fibreboard.

5.2 Conditioning of Samples - All samples shall be conditioned before test according to Method 2.1 of Schedule 9-GP-17.

5.3 Testing - The methods of testing shall in all cases be those described in Schedule 9-GP-17, using the method specified in each requirement.

6. MARKING

Each package of fibreboard shall be plainly marked on the outside with the name of the material, the type, size, quantity contained therein, and the manufacturer's name or trade mark.

7. NOTES

7.1 Provision for Retesting - In case of rejection of a shipment on the basis of tests according to Para. 5.3, the vendor shall have the right to reinspect the rejected shipment and resubmit the lot after the removal of those packages not conforming to the specified requirements.

Correspondence regarding this specification should be addressed to the Secretary, Canadian Government Specifications Board, National Research Council, Ottawa, Canada.