International Fibre Board Limited

TEN-TEST

INSULATING BUILDING BOARD

Sales Offices
MONTREAL—TORONTO—HAMILTON—WINNIPEG
Administrative Offices and Mills: GATINEAU, QUE.

London Office
THE TENTEST FIBRE BOARD CO. (1929) LTD.
ASTOR HOUSE, ALDWYCH, LONDON, W. C. 2., ENGLAND

TEN/TEST is a manufactured lumber made from spruce fibres, solidly pressed under hydraulic pressure into a strong, homogeneous board. The fibres are chemically treated and water-proofed during process of manufacture, until the insulation is non-hygroscopic, free from capillary attraction and moisture-resisting in service commensurate with the maximum degree of insulation obtainable.

Official Tests

Conductivity. TEN/TEST has a conductivity of 0.33 B.t.u. per hour per square foot per degree fahr. per 1 in. thick. Authority: Professor E. A. Allcut, M. Sc. M. I. Mech. E. Mem. A. S. M. E., Professor of Applied Mechanics, University of Toronto. Tests conducted under the hot-plate method. Average temperature hot side 67.8 deg., cold side 27.9 deg. with average temperature difference of 39.9 deg. Mean temperature 47.8 deg.

Tensile Strength 228 lb. per sq. in. Tests made on 7/16 in. board cut to strips 1 in. wide and tested in a Riehle Tensile Testing Machine, the grips being 2 in. apart. 228 lb. is the mean average of series of seven tests.

Transverse Strength (equal deflection) is 28.4 lb. Test made on 7/16 in. board, 6 in. wide, 18 in. long, on 12 in. centers, and load being applied to breaking point.

Plaster Bonding Strength 2163 lb. per sq. ft. Brown and scratch plaster coats were applied to standard 7/16 in. board, and the pull registered in an Oslen Testing Machine. Authority: Columbia University Testing Laboratories, New York.

Moisture Resisting. TEN/TEST, after complete immersion in water for 24 hours, registered 37.5 increase in weight.

NOTE.—Authority for tensile strength, transverse and moisture tests; J. T. Donald & Co., Ltd., Chemical Analysts and Engineers, Montreal, Que.

Sound Absorption. Coefficient of absorption of standard 7/16 in. **TEN/TEST** is .35. The source of sound was a standard open organ pipe of 512 vibrations, operated from an electro-pneumatic wind chest, and time taken for absorption of the sound to limit of audibility was recorded by a torsion chronograph. Authority: Professor G. R. Anderson, Engineering Physics, Toronto University, Canada.

TEN/TEST Products

TEN/TEST Insulating Sheathing. Made in convenient sizes—4 ft. wide and from 6 ft. to 17 ft. long.

TEN/TEST Insulating Plaster Base. Manufactured in small panels 16 by 47¾ in., with tongues and grooved interlocking joints. No metal lath is required over joints.

TEN/TEST Insulating Roof Boards. Manufactured in two sizes only—1 by 4 ft. and 2 by 4 ft.

TEN/TEST Industrial Boards for Refrigerator and Cold Storage Insulation. Manufactured in any thickness from 15/32 in. to 2 in. and from 4 ft. wide up to 17 ft. long.

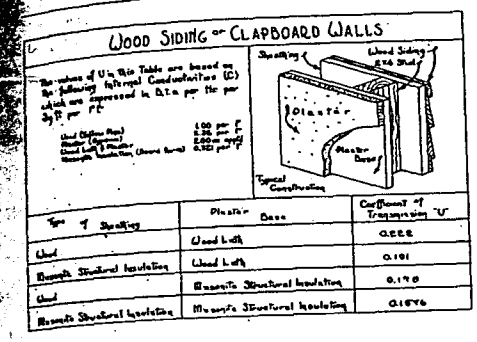
Masonite Corporation

111 W. Washington Street **Chicago, Ill.**

Masonite Structural Insulation and Masonite Presdwood

Pat. No. 1578609-1663503-1663504 1578609-1663505

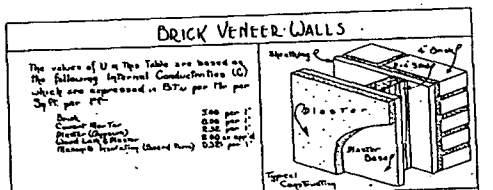
Made in Mississippi



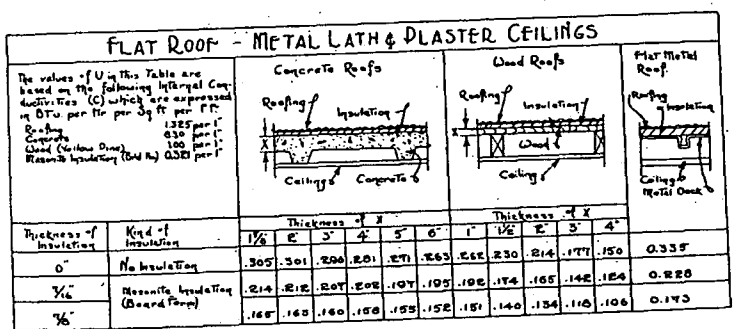
Type of Sheathing	Plaster Base	Coefficient of Transmission "U"
Wood	Wood Lath	0.222
Masonite Structural Insulation	Wood Lath	0.191
Wood	Masonite Structural Insulation	0.179
Masonite Structural Insulation	Masonite Structural Insulation	0.1576

The great insulation value of Masonite is attributable to the cellular formation of the wood fibres from which it is made and to the thoroughness with which those fibres are felted together in the finished board. This also explains the great strength of Masonite Structural Insulation. This insulation is made entirely of fibres obtained by exploding fresh, clean wood chips and it contains no artificial binder of any character. There is nothing in Masonite to break down or disintegrate—it is permanent.

Masonite is used as sheathing for heat insulation under wood siding, brick, stone or tile veneer and stucco. It is also used under roof and floors. Inside of studs it is used as a plaster base—and it bonds with the plaster so effectively that an average pull of more than 1000 lb. is required to pull the plaster from one square foot of Masonite Insulating Lath.



Type of Sheathing	Plaster Base	Coefficient of Transmission U
Wood	Wood Lath	0.216
Masonite Structural Insulation	Wood Lath	0.146
Wood	Masonite Structural Insulation	0.141
Masonite Structural Insulation	Masonite Structural Insulation	0.122



Thickness of Insulation	Kind of Insulation	Thickness of X 1½"	2"	3"	4"	5"	6"	Thickness of X 1"	1½"	2"	3"	4"	
0"	No Insulation	.305	.301	.296	.291	.271	.263	.255	.230	.214	.177	.150	0.335
½"	Masonite Insulation (Board Form)	.214	.212	.207	.202	.197	.195	.190	.174	.165	.142	.124	0.228
⅝"		.165	.163	.160	.158	.155	.152	.151	.140	.134	.116	.106	0.173

According to Professor F. B. Rowley, the conductivity of Masonite is 0.321

In roof decks, it effectively ends preventable heat losses and reduces condensation to a negligible minimum.