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Asbestos 1956 Packing & Handling Methods File 60 B315

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ENGINEERING REPORT

How asbestos fibre users can profit from new packing and handling methods

JOHNS MANVILLE JM PRODUCTS

Prepared by the engineering section of the Asbestos Fibre Division

A Johns-Manville Service to Industry

Published by AsbestosClaims.Law
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This booklet will show you how you can improve product quality and increase profit by new methods of shipping and handling Johns-Manville Asbestos Fibre.

The quality of the fibre is assured by the exacting control that Johns-Manville exercises from mine to you -- insuring fibre cleanliness, accurate grading and high uniformity from batch to batch. It is shipped to you in "Pressure-Packed" bags to provide these economies:.

(1) Freight Savings ... A lower freight rate on 40 ton car-loads and over ... less container weight to pay for (approximately 400 lbs. less per carload) ... over 200 lbs. of fibre per carload saved in transit because the fibre cannot sift through bags.

(2) Warehousing Savings ... 30% less storage and plant space needed ... simplified inventory control ... cleaning and dusting minimized ... fibre contamination eliminated and moisture absorption reduced.

(3) Operational Savings ... faster bag opening ... easier mechanical handling by fork truck or conveyor ... fewer pallets needed ... ready grade identification -- no fumbling, fewer mistakes ... smoother production scheduling because no bag shortage can hold up shipments ... no fibre left in bags ... bag re-handling eliminated.

If your process is like that of most fibre users, you are no doubt mixing the fibre with liquids or solids. Thus, you will want to eliminate from the mix the mats and lumps formed by compression of fibre in storage and transit -- a condition that occurs regardless of the method of packing. Experiments show that this condition is a cause of the unsaturated lumps of fibre found in asphalt and other compounds.

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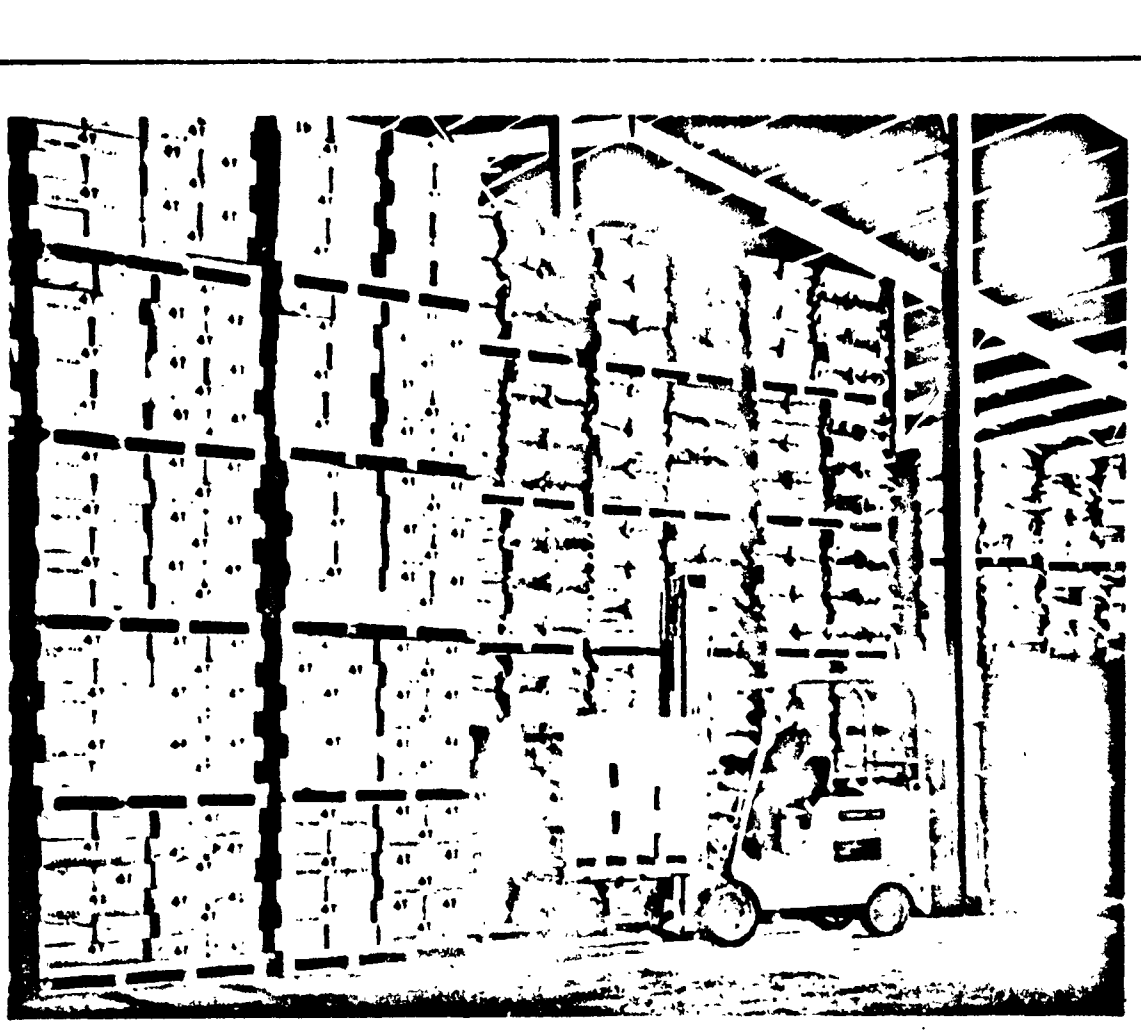
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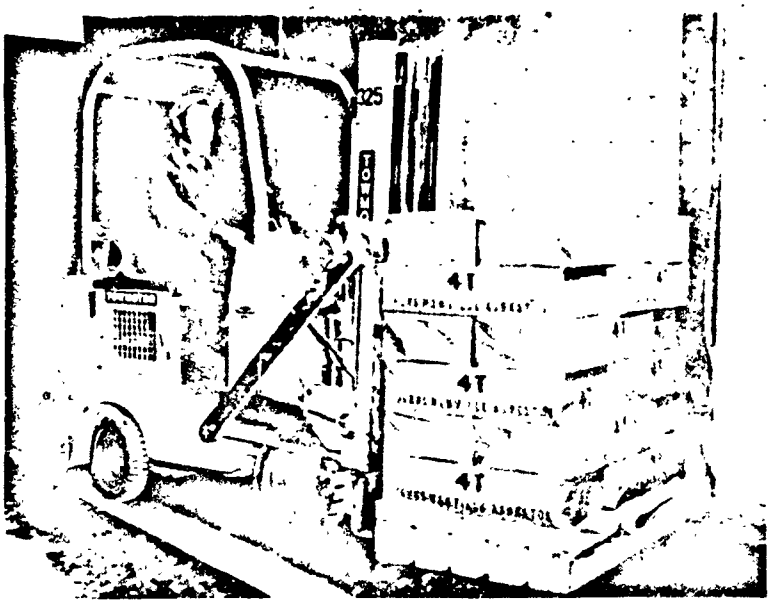
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1. The neatness and cleanliness of the Warehouse in Johns-Manville's giant new fibre mill is promoted by use of "Pressure-Packed" Bags.



2. "Pressure-Packed" Bags Make Mechanical Handling Easier, saving time and money.

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The best and most efficient way to obtain a well-opened fibre, free from lumps and mats, is to use a fibre opening machine. One of these which has proven successful is the Moody "Fibre Fluffer". This machine opens up the fibre, either "Pressure-Packed" or in other type bags, and restores it to its original fluffy pre-bagged condition. The light, feathery mass it produces exposes the greatest amount of fibre surface area, insures more thorough fibre dispersion throughout the mix and reduces the amount of fibre required for a given job. This has been demonstrated by tests run on fibre grades ranging from shorts 7R to spinning fibre 3R. In the case of Grade 7R, the opening operation decreased the density and increased the dry and wet bulk or volume as well as the oil absorption.

This "Fibre Fluffer" is illustrated in photos 3 & 4. The diagrams show how it may be incorporated into a plant layout, whether suspended under the floor or installed on a platform mixing feeder. The machine data is given below. Full information and quotations are available from either Matthew Moody & Sons, Ltd., 740 Inspector St., Montreal, P.Q. Canada or from the nearest Johns-Manville Asbestos Fibre Division Sales Office listed on the back cover.

RECOMMENDED MACHINE DATA

Motor Size - 3 H.P. - 1140 R.P.M.

Machine Speed - 525 R.P.M.

Rate of Fibre Feed - 5-15 tons per hour, depending on fibre length.

Estimated Cost - $500.00 each, F.O.B. Rouses Point, N.Y.

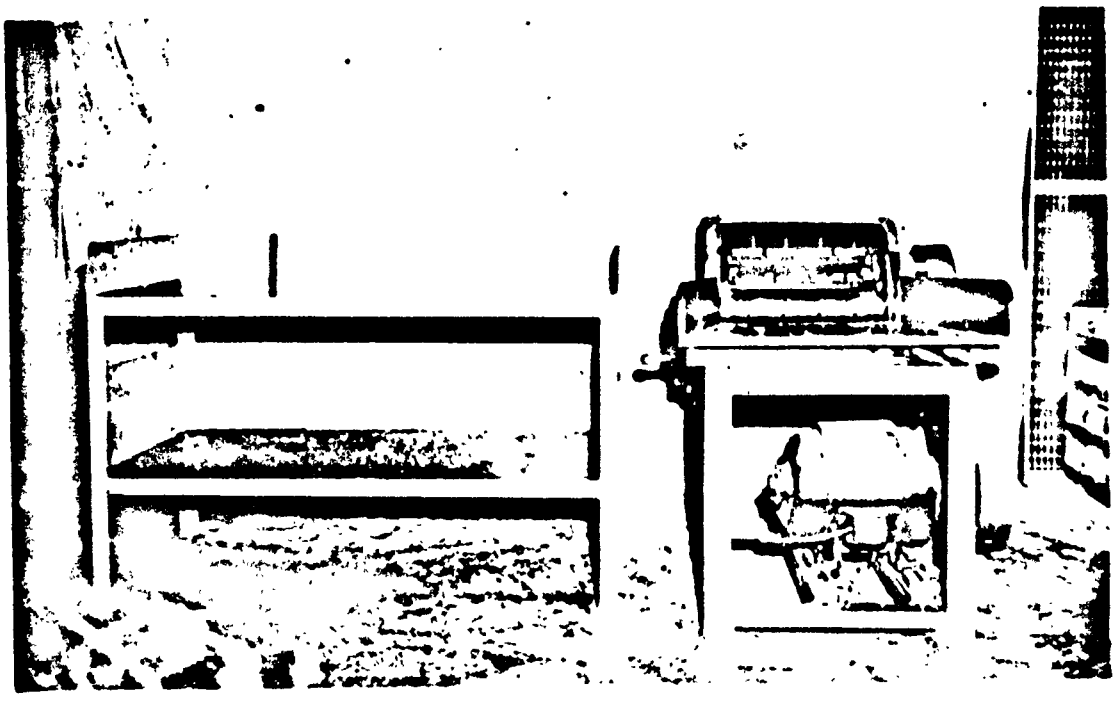
Overall Installed Dimensions (typical layout) 65" long 40" wide - 45" high

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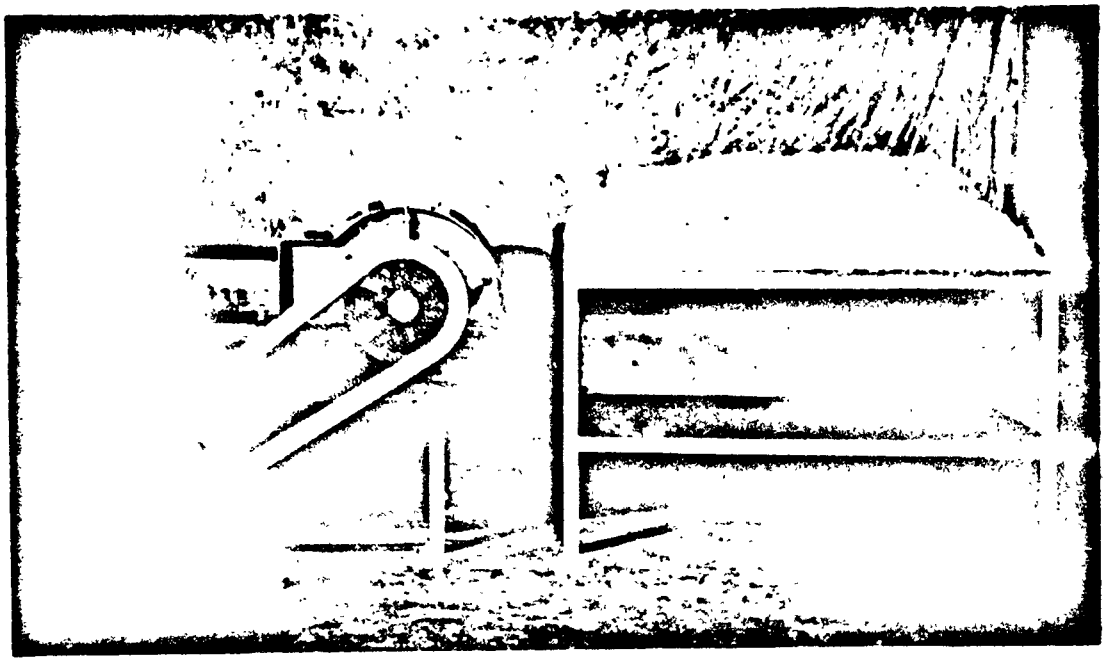
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3. Open End View of Fibre Fluffing Machine with 100 lb. block of "Pressure-Packed" J-M Asbestos Fibre, (wrapper removed) on left.



4. Side view of same machine and, on right, the same fibre after a single pass through the machine.

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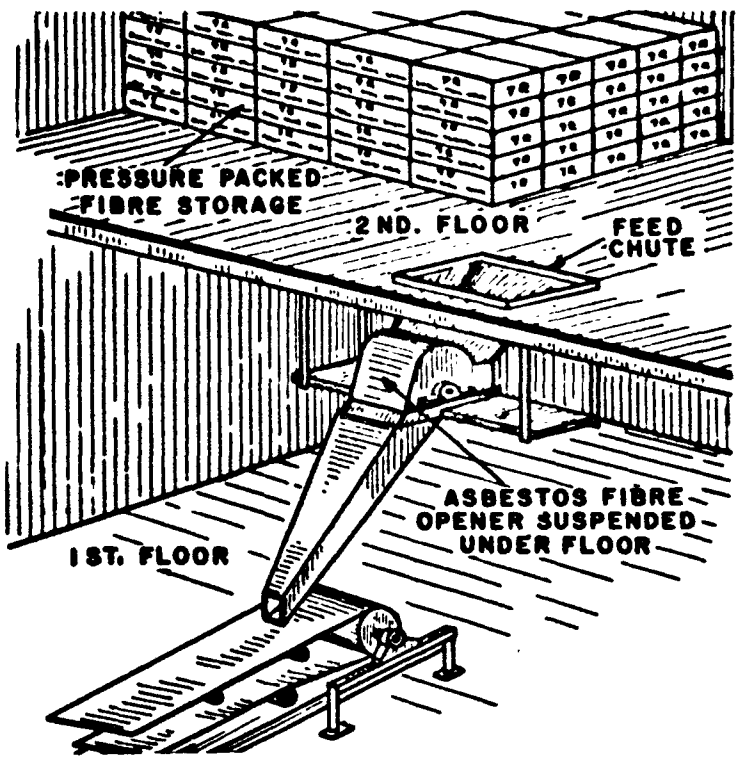
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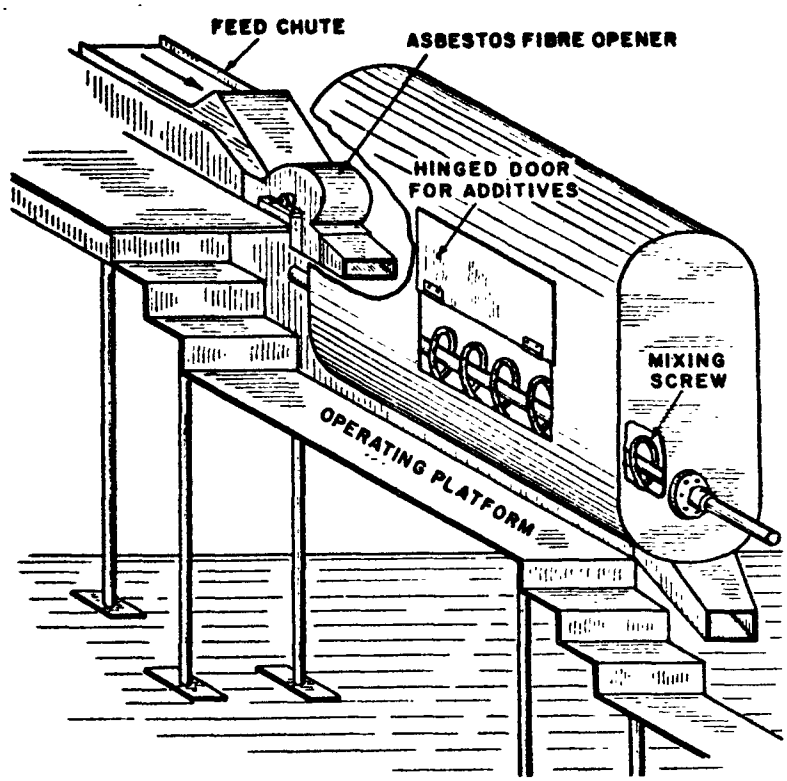
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FIBRE OPENING MACHINE PERMITS FLEXIBILITY IN LAYOUT

Two typical installations show its adaptability



A. Suspended Under Floor



B. On Platform Feeding Mixer

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