

FILE NAME: Johns-Manville (JMA)

DATE: 1962-1972

DOC#: JMA378

DOCUMENT DESCRIPTION: Memos RE Warning Labels with
Finished Product Specifications



Notice

INDUSTRIAL INSULATIONS DIVISION

NASHUO PLANT
R.K. HOAGLAND
821

January 4, 1971

Health Hazard Caution Warning Labels

Caution warnings are to be applied to certain packages and products that are sold by IID and that contain asbestos fiber and free crystalline silica. Caution warnings now in existence on some printed cartons and bags are to be revised. New caution labels are to be affixed to unprinted cartons and bags and in some instances to the product itself where health hazards may exist.

The new caution warnings have been developed and have Division, Environmental Control, and Industrial Relations and Legal Department approval.

At such time as the Corporate label revision program is put into effect in IID, the new caution warnings will be included in the revised printed product labels. Until this is done, the caution label must be a separate label.

The attached revised sheets show the layout of the labels being used and a listing of those products which will carry such warning labels in 1971.

All products will carry label L-4955 except those preceeded with an asterisk (*), which will use label L-4956.

11/10
M. W. Burleson
General Manager

TO: 761-A
109
1055
J. B. Jobe
H. B. Moreno
H. M. Ball

PRODUCED
JM - 83

*COPIES ON 11/11 TO
JPN
L569
RMS
BWS
RCH*

01219

Health Hazard Caution Warning Labels
I.I.D. Products

Billerica Plant

Imperial Marinite
Marinite 23
Marinite 36
Marinite 65
Veneered Marinite

Molten Metal Marinite - S.G. & Reg.
H.T. MMM - S.G. & Reg.
Pallite
Marimet 45
Reeferite

Waukegan Plant

Commercial Grade Asbestos Paper
Non-Burn Asbestos Paper
Asbestos Welding Paper
* Superex Block & Cement
Millboard: 102, 106, 219, C, XXX, Type A, 106-B, 106-H
Cements: 352, 450 and 500

Manville Plant

Min-K - 500
Min-K - 1301
Min-K - 2000
Min-Klad
Std. Flexible Min-K
H.T. Flexible Min-K
Flexible Min-K Tape
Niagrite

Long Fiber Asbestos Paper
Doublex Asbestos Paper
Non-Burn Asbestos Paper
Ceilinite
Asbestos Roll Firefelt
Asbestos Welding Paper
Armature Asbestos Paper
Asbestos Firetard

Commercial Asbestos Paper
Fibroid Asbestos Paper
Thermobestos P/I, Block & Elbows

Long Beach Plant

Thermobestos P/I, Blocks

Research

Thermomix Compounds

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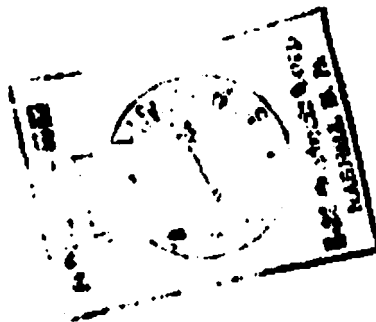
Pittsburg Plant

Commercial Grade Asbestos Paper
Fibroid Asbestos Paper

Nashua Plant

Marine Veneer
Dekeran
Transite Core Plate

Perforated Colored Marine Veneer
Flexboard B
Perforated Marine Veneer
Colored Marine Veneer



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#16 2 P.F

Swanite, Jabeling (cont.)

Tamara's specification

Box 17 - PF21

Nashua Plant
September 21, 1972

C. L. Antonson - DHQ Denver

cc:
R. K. Hoagland - Nashua
File

CAUTION LABELS

Attached is a listing of the Nashua products and the frequency of use of the caution labels according to the type of label. *Proposed*

It is suggested that in the case of FLEXBOARD where a U.L. label is affixed to the sheet that the caution message be made part of this label. This could result in lower label and labor costs.

In the case of Industrial Insulations Division products, instructions are to include one label per sheet. Our proposal would be one label per five sheets as all of the products involved go directly to the installer, except in the case of Core Plate sheets which are cut by a fabricator into plates and then shipped to the foundries. I assume it is the responsibility of IID as to how plates from cutters are to be handled.

You mentioned that there could be some objection to loose inserts and that a printed message on the back of the sheet would be preferable. Considerable work would have to be done at the plant to automate such printing. Hand printing could be costly.

We will await your instructions as to any changes in the use of caution labels.

E. E. COVONI

Attachments

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DHQ, Denver
A & EP Division
September 23, 1972

10-11-72
Yorvick - Please handle and
report it, advising
complaint
Major
File this to
JM

E. C. Truax - DVR
N. J. Gray - DVR
S. Lane - DVR
D. L. Carpenter - DVR
R. L. Smith - DVR
R. H. Neisel - DVR
C. P. Weber - DVR
J. V. Magee - DVR
D. B. Wingerter - DVR

C. V. French - DVR
E. M. Fenner - DVR
A. C. Pennewell - Pittsburgh
R. K. Hoagland - Nashua
C. R. Wikel - Waukegan
W. B. Peitze - DVR
J. J. Attridge - DVR
G-60-16

CAUTION LABELS
LIN-4955 A

The subject of caution labels,

CAUTION
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
BREATHING ASBESTOS DUST MAY
CAUSE SERIOUS BODILY HARM

has been reviewed with personnel of GHQ and the various divisions involved. The following procedure has been agreed to by telephone and personal contact. The procedure specifies the plant, product, and frequency of caution statement application.

The procedure should be put into effect as quickly as possible. Each plant should advise the copy holder of this letter when their plant complies with the procedure.

Nashua Plant should supply the Waukegan Plant with sufficient loose inserts to get them started.

C. L. Antonson is working with the Nashua Plant and R. H. Neisel to obtain U.L. approval to add the caution statement to their label.

C. L. Antonson
CLA/sea

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Nashua Plant
September 29, 1972

STAMPED ON PAPER INTERLEAVE

<u>PRODUCT</u>	<u>FREQUENCY</u>
COLORLITH	1/1
COLORLITH (Recoverable Area)	1/1
CHEMSTONE #2 Finish	1/1
CHALKBOARD	1/1
COLORCERAM	1/1
ARMOR-ON	1/1
Asbestos EBONY	1/1
OHMSTONE	1/1
Polished TRANSITE	1/1

GUMMED LABELS (L4855A or LIN4855A)

<u>PRODUCT</u>	<u>FREQUENCY</u>
FLEXBOARD*	1/5
FLEXBOARD "B"	1/1

IID PRODUCTS

MARINE VENEER	1/5
CMV	1/5
Perforated MARINE VENEER	1/5
Perforated CMV	1/5
MARINE Acoustical Units	1/5
DEKERAN	1/5
CORE PLATE (Sheets)	1/1
CORE PLATE (Plates)	1/1

* C. L. Antonsen will request R. H. Neisel to obtain
UL approval to add statement to the UL label

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Nashua Plant
September 29, 1972

LOOSE INSERTS

<u>PRODUCT</u>	<u>FREQUENCY</u>
TRANSITE - 1/4 Through 7/8"	1/5
TRANSITE - 1 2"	1/2
TRANSITE - Over 2"	1/1
Steam Cured TRANSITE	1/5
CHEMSTONE #1 Finish	1/5
STONEHENGE	1/5
QUADRO	1/5
VENETIA	1/5
Moulded EBONY	2/Package
Moulded ELECTROBESTOS	2/Package
Cut Sheets All Products	1/5
Machined Products	2/Package
ELECTROBESTOS Sheets	1/2
TRANSITE Acoustical Panels	1/5
Perforated FLEXBOARD and PEGBOARD	1/5

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Waukegan Plant
September 29, 1972

PRINT ON BACK OF PRODUCT

<u>PRODUCT</u>	<u>FREQUENCY</u>
FLEXBOARD 1/8" 3/16"	1/2
FLEXBOARD 1/4"	1/1
PERMATONE S	1/2

<u>PRODUCT</u>	
SPLITWOOD	1/5

Pittsburg Plant

PRINT ON BACK OF PRODUCT

<u>PRODUCT</u>	
FLEXBOARD 1/8" 3/16"	1/2
FLEXBOARD 1/4"	1/2

PRODUCED
JM - 83

 Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT: MINERAL PANEL PRODUCTS PACKAGING	DIVISION	BMM
		SPEC. NO.	4743-2
		PAGE NO.	1 of 12

I. MANUFACTURING POINTS

Waukegan

II. PRODUCTS

Standard Flexboard	Permatone S Flexboard
Asbestoboard	
Painted Flexboard	
Steam Cured Flexboard	Transitop
Architectural Panels	Thermocore
Marine Veneer - Natural Gray	Transifoam
	Primed Flexboard

III. PACKAGING

<u>Spec No.</u>	<u>Mode of Shipment*</u>	<u>Product</u>
U	T/L - C/L - W/C	Standard Flexboard Asbestoboard Steam Cured Flexboard Marine Veneer - Natural Gray
P	LTL	Standard Flexboard Asbestoboard Steam Cured Flexboard Marine Veneer - Natural Gray
P	LTL - T/L - C/L - W/C	Transitop & Thermocore
P	T/L - C/L - W/C	Permatone S Flexboard
P1	LTL - T/L - C/L - W/C	Painted Flexboard
P3	T/L - C/L - W/C	Primed Flexboard
R	LTL	Transifoam 1/4" Architectural Panels 1/8" Rentone Panels Permatone S Flexboard
RA	LTL	Painted Flexboard Primed Flexboard Architectural Panels

PRODUCED
JM - 83

PRODUCED
JM - 83

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

X - INDICATES
CHANGE Revision

AUTHORITY
FOR CHANGE M. A. Baloga

SUPERSEDES: All Previous issues of same spec

DATE
ISSUED: 3/5/79

Handwritten:
Approved
3-7-79
JWH



Johns-Manville

**FINISHED PRODUCT
SPECIFICATION**

JM-252-B

PRODUCT:

MINERAL PANEL PRODUCTS PACKAGING

DIVISION

BMM

SPEC. NO.

4743-0

PAGE NO.

2 of 12

CONFIDENTIAL - FOR IN-HOUSE USE ONLY**III. PACKAGING: (Cont'd)**

<u>Spec. No.</u>	<u>Mode of Shipment*</u>	<u>Product</u>
L	T/L - C/L - W/C	Sheets for Laminator and Door Accounts
S	All	All products - Solid crate for domestic and export shipments.

*T/L - Truck Load
 C/L - Car Load
 W/C - Will Call
 LTL - Less Truck Load

IV. LABELING**A. Asbestos Caution Labels**

- One (1) Caution Label, No. LIN-4955E, shall be affixed to the back of each sheet in the load of material or the label wording, as shown below, shall be stenciled on the back of each sheet.
- The same Caution information shall be affixed, either labeled or stenciled, on the top of each load shipped.

CAUTION

CONTAINS ASBESTOS FIBERS

AVOID CREATING DUST

DUST MAY CAUSE SERIOUS

BODILY HARM

SMOKING GREATLY INCREASES

THE RISK OF SERIOUS BODILY HARM

THE ASBESTOS FIBERS IN THIS PRODUCT
 ARE "LOCKED-IN" THE CEMENT MATRIX,
 AND ARE RELEASED ONLY DURING
 FABRICATING OPERATIONS. FABRICATE
 USING RECOMMENDED WORK PRACTICES.

**PRODUCED
JM - 83****B. Architectural Panels**

One label on the top of each load, under the plastic film reading as follows:

CAUTION! Store under cover in a clean, dry place.
 If this material is to be stored for more
 than one week, open ends of plastic film and
 cover bundles with canvas tarp.

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Revise Asbestos Caution Labeling requirements. Include revised label number and additional label wording.

AUTHORITY
 FOR CHANGE

D. R. Lucy - BSD - Letter dated 3/26/80

SUPERSEDES:

Same Spec, Page 2, Dated 12/14/76

DATE

ISSUED: 4/11/80

PRINTED IN U.S.A.

371 Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT: MINERAL PANEL PRODUCTS PACKAGING	DIVISION	BPH
		SPEC. NO.	4743-0
		PAGE NO.	2 of 12

III. PACKAGING (Cont'd)

<u>Spec No.</u>	<u>Mode of Shipment*</u>	<u>Product</u>
L	T/L - C/L - W/C	Sheets for Laminator and Door Accounts
S	All	All products - Solid crate for domestic and export shipments

* T/L - Truck Load
 C/L - Car Load
 W/C - Will Call
 LTL - Less Truck Load

CANCELLED
 12/14/76

IV. LABELING

A. Asbestos Caution Labels

1. A minimum of one (1) CAUTION label will be inserted into each load of material shipped.
2. The same CAUTION information will be stenciled on the top of each load shipped.

B. Architectural Panels

One label on the top of each load, under the plastic film, reading as follows:

"CAUTION! Store under cover in a clean, dry place. If this material is to be stored for more than one week, remove plastic film and cover bundles with canvas tarp."

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APPROVED
 Q.A. DEPT.

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 CHANGE

AUTHORITY Regular Approvals
 FOR CHANGE

SUPERSEDES: All Previous issues of same spec

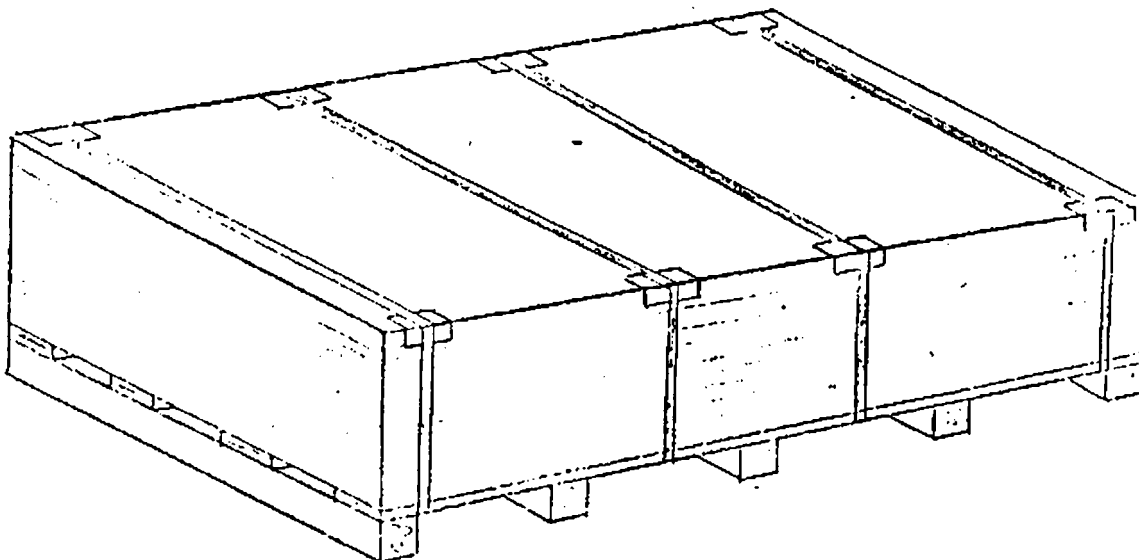
DATE 12/3/76
 ISSUED

JM John-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT: MINERAL PANEL PRODUCTS PACKAGING	DIVISION	BML
		SPEC. NO.	4743-0
		PAGE NO.	3 of 12

SHIPPING UNIT SPECIFICATION

Type II - Unitized
Strapped

Use - Standard Flexboard
Asbestoboard
Steam Cured Flexboard
Marine Veneer



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE-8
 10' - 48" x 120" Expendable - Spec No. FBE-10
 12' - 48" x 144" Expendable - Spec No. FBE-12

RP-2705-2

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Pallet	8' Exp.	10' Exp.	12' Exp.	1	1	1
Core Stock - Top						
Core Stock - Bottom						
Edge Protectors - Ends						
Edge Protectors - Sides						
Edge Protectors - Corners						
Metal Strapping	3/4"	3/4"	3/4"	3	4	4
Pallet Runners - 1" x 4"	As Req'd.	As Req'd.	As Req'd.	2	2	2
Strapping Protectors	4" x 4" x 6"	4" x 4" x 6"	4" x 4" x 6"	6	8	8
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4		

Used for: Truck Load - Car Load - Will Call

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

X - INDICATES
CHANGE Complete Revision

AUTHORITY
FOR CHANGE Regular Approvals

SUPERSEDES: All Previous issues of same spec

DATE 12/3/76
ISSUED:



Johns-Manville

**FINISHED PRODUCT
SPECIFICATION**

PRODUCT:

MINERAL PANEL PRODUCTS PACKAGING

DIVISION

B/M

SPEC. NO.

4743-9

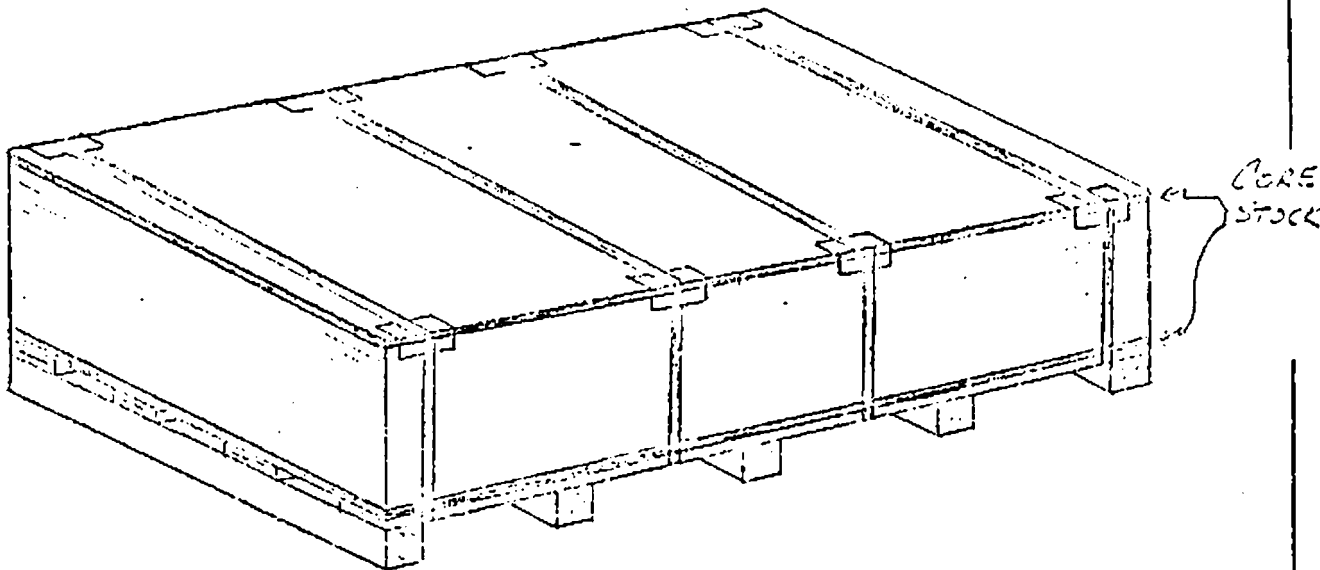
PAGE NO.

4 of 12

SHIPPING UNIT SPECIFICATION

Type U1 - Unitized
Core Protector Sheets
Strapped

Use - Transitop Panels
Thermocore Panels



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE- 8
10' - 48" x 120" Expendable - Spec No. FBE-10
12' - 48" x 144" Expendable - Spec No. FBE-12

RP 2705-2

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Pallet	8' Exp.	10' Exp.	12' Exp.	1	1	1
Core Stock - Top	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Core Stock - Bottom	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Edge Protectors - Ends						
Edge Protectors - Sides						
Edge Protectors - Corners						
Metal Strapping	3/4"	3/4"	3/4"	3	4	4
Pallet Runners - 1" x 4"	As Req'd.	As Req'd.	As Req'd.	2	2	2
Strapping Protectors	4" x 4" x 6"	4" x 4" x 6"	4" x 4" x 6"	6	8	8
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4	5	5

Used for: Truck Load - Car Load - Will Call

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

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AUTHORITY Regular Approvals
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SUPERSEDES: All Previous issues of same spec

DATE
ISSUED: 12/3/76



Johns-Manville

PRODUCT:

DIVISION

BM1

FINISHED PRODUCT
SPECIFICATION

MINERAL PANEL PRODUCTS PACKAGING

SPEC. NO.

4743-0

PAGE NO.

5 of 12

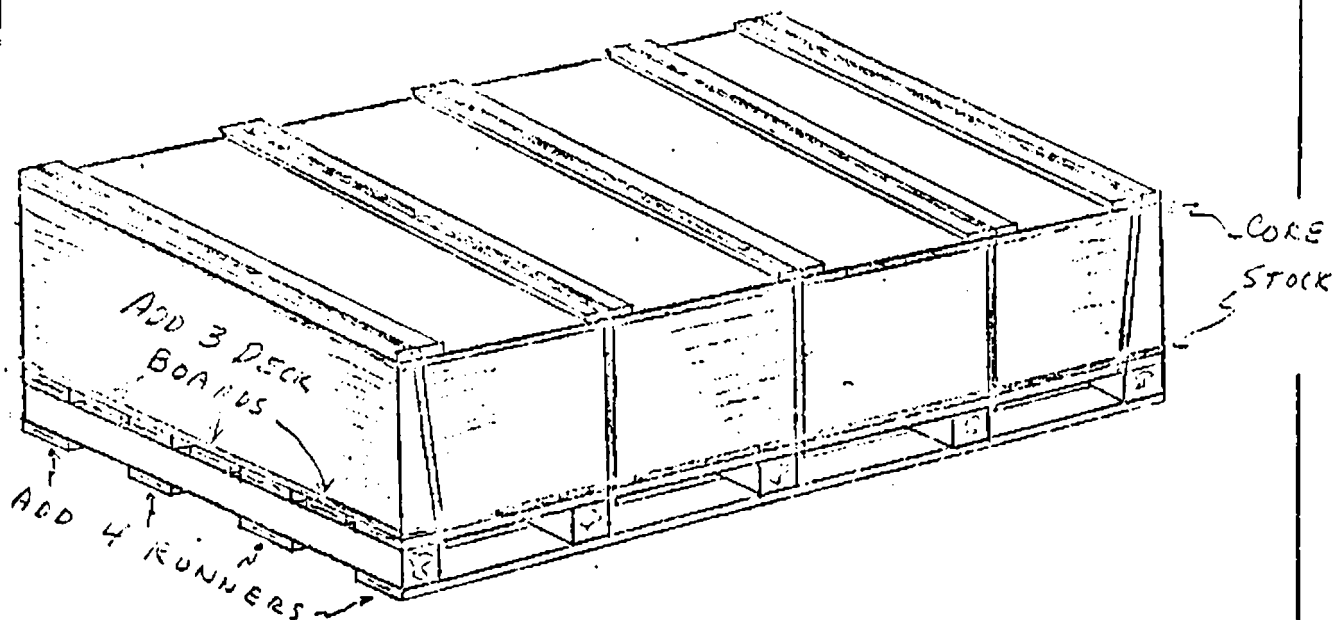
SHIPPING UNIT SPECIFICATION

Type U2 - Unitized

Use - Transifoam Panels

Core Protector Sheets

Special Pallet



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE-8
 10' - 48" x 120" Expendable - Spec No. FBE-10 } RP 2705-2
 12' - 48" x 144" Expendable - Spec No. FBE-12 }

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Pallet	8' Exp.	10' Exp.	12' Exp.	1	1	1
Core Stock - Top	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Core Stock - Bottom	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Edge Protectors - Ends						
Edge Protectors - Sides						
Edge Protectors - Corners						
Metal Strapping	3/4"	3/4"	3/4"	4	5	5
Pallet Runners - 1" x 4"	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	4	4	4
Strapping Protectors	1" x 4" x 4'	1" x 4" x 4'	1" x 4" x 4'	4	5	5
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4	5	5
Additional Deck Boards	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	3	3	3

Truck Load - Car Load - Will Call Shipments

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

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JM-83

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Complete Revision

AUTHORITY
FOR CHANGE

Regular Approvals

SUPERSEDES:

All Previous issues of same spec

DATE
ISSUED:

12/3/76



Johns-Manville

**FINISHED PRODUCT
SPECIFICATION**

PRODUCT:

MINERAL PANEL PRODUCTS PACKAGING

DIVISION

BMM

SPEC. NO.

4743-0

PAGE NO.

6 of 12

SHIPPING UNIT SPECIFICATION

Type P - Protected-Unitized

Core Protector Sheets

Edge & Corner Protectors

Std. Flexboard*

Steam Cured *

Flexboard *

Asbestoboard *

Marine Veneer *

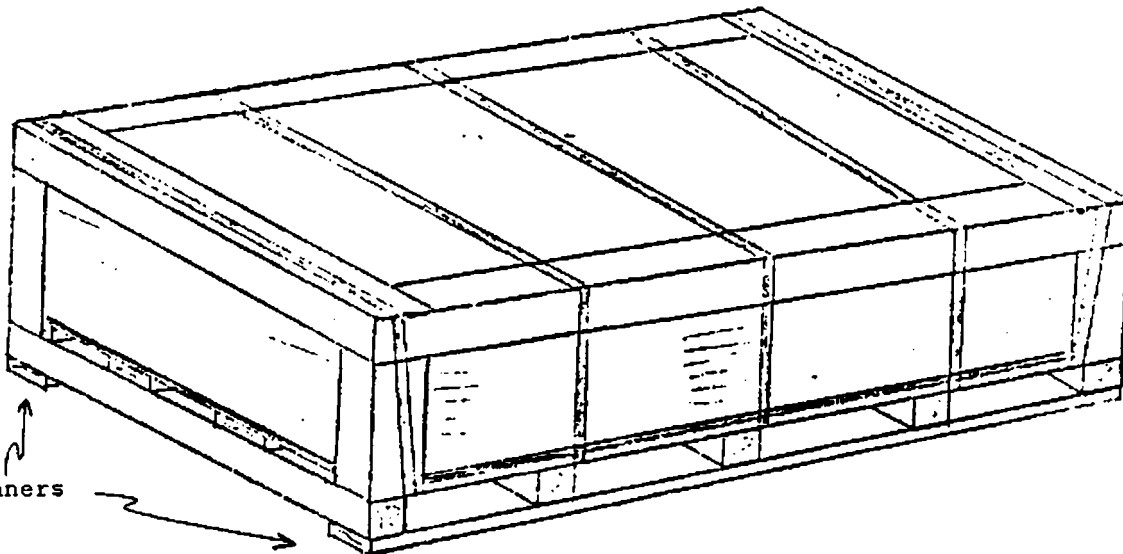
Use - Transitop Panels

Thermocore Panels

Permatone "S" & Flexb.

Painted Flexboard

Primed Flexboard



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE- 8

10' - 48" x 120" Expendable - Spec No. FBE-10

12' - 48" x 144" Expendable - Spec No. FBE-12

RP 2705-2

*No Core Stock Required

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Pallet	8' Exp.	8' Exp.	8' Exp.	1	1	1
Core Stock - Top*	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Core Stock - Bottom*	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Edge Protectors - Ends	4" x 4" x 4"	4" x 4" x 4"	4" x 4" x 4"	2	2	2
Edge Protectors - Sides	4" x 4" x 8"	4" x 4" x 10"	4" x 4" x 12"	2	2	2
Edge Protectors - Corners	4" x 4" x varies	4" x 4" x varies	4" x 4" x varies	4	4	4
Metal Strapping	3/4"	3/4"	3/4"	4	5	5
Additional Deck Boards	--	--	--	--	--	--
Pallet Runners - LTL Units	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	2	2	2
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4	5	5

Used For: LTL - TL - CL - Will Call - Standard Transitop & Thermocore Panels
LTL Shipments - Standard Flexboard, Steam Cured Flexboard, Asbestoboard.

TL-CL-Will Call - Permatone "S", Painted & Primed Flxb., Marine Veneer

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

Pallet Runners: TL - CL - Will Call. Use only if specified.

X - INDICATES
CHANGE Revision

AUTHORITY
FOR CHANGE M. A. Baloga

SUPERSEDES: All previous issues of same spec

DATE
ISSUED: 3/5/79

PRODUCED
JM - 83

*Approved 3/5/79
J.M.B.
3-5-79*



Johns-Manville

FINISHED PRODUCT SPECIFICATION

PRODUCT:

MINERAL PANEL PRODUCTS PACKAGING

DIVISION

BMM

SPEC. NO.

4743-0

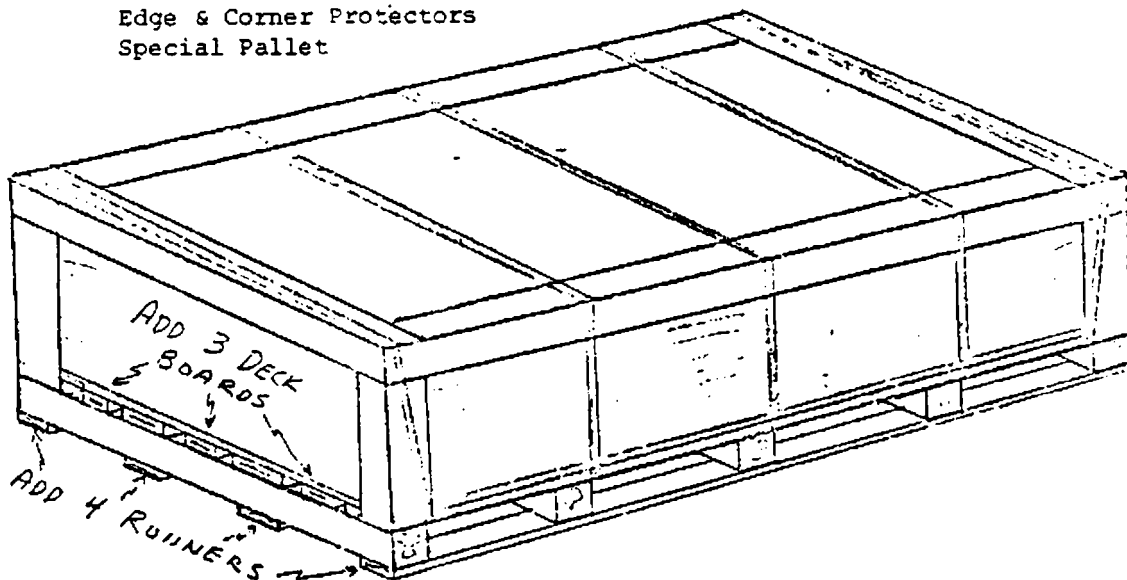
PAGE NO.

7 of 12

SHIPPING UNIT SPECIFICATION

Type P1 - Protected-Unitized
Core Protector Sheets
Edge & Corner Protectors
Special Pallet

Use - Transifoam Panels



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE-8
10' - 48" x 120" Expendable - Spec No. FBE-10
12' - 48" x 144" Expendable - Spec No. FBE-12

RP-2705-2

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12' *	8'	10'	12'
Pallet	8' Exp.	10' Exp.	12' Exp.	1	1	1
Core Stock - Top	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Core Stock - Bottom	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Edge Protectors - Ends	4" x 4" x 4'	4" x 4" x 4'	4" x 4" x 4'	2	2	2
Edge Protectors - Sides	4" x 4" x 8'	4" x 4" x 10'	4" x 4" x 12'	2	2	2
Edge Protectors - Corners	4"x4"xVaries	4"x4"xVaries	4"x4"xVaries	4	4	4
Metal Strapping	3/4"	3/4"	3/4"	4	5	5
Additional Deck Boards	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	3	3	3
X Pallet Runners - LTL Units	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	4	4	4
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4	5	5

LTL - TL - CL - Will Call

Pallet Runners: TL - CL - Will Call. Use only if specified.

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

X - INDICATES
CHANGE Revision

AUTHORITY
FOR CHANGE M. A. Baloga

SUPERSEDES: All Previous issues of same spec

DATE
ISSUED: 3/5/79

PRODUCED
JM - 83

Handwritten:
JMH
3-7-79



Johns-Manville

**FINISHED PRODUCT
SPECIFICATION**

PRODUCT:

MINERAL PANEL PRODUCTS PACKAGING

DIVISION

BM-1

SPEC. NO.

4743-0

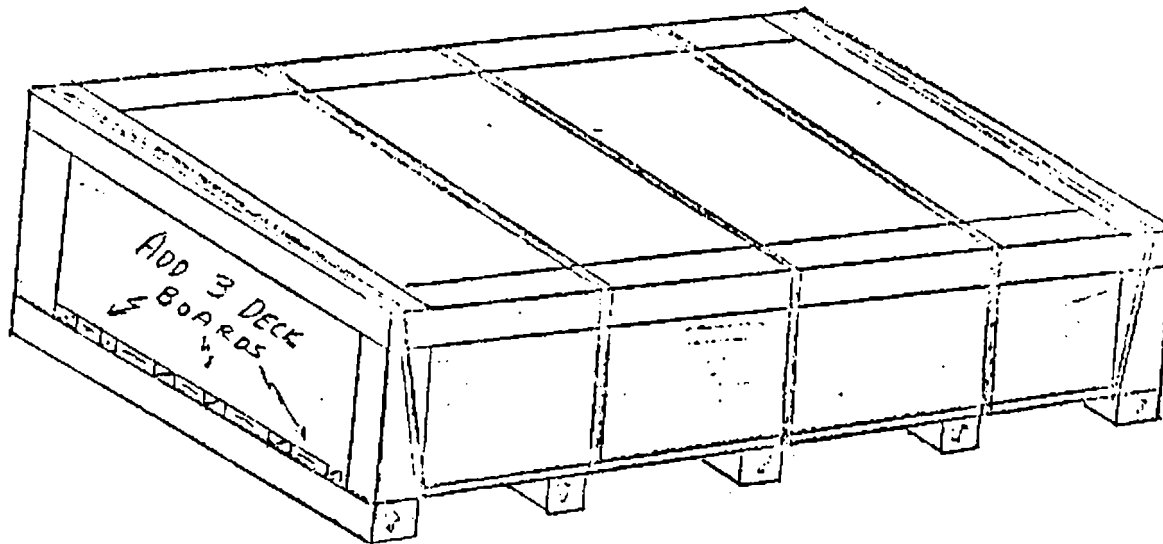
PAGE NO.

8 of 12

SHIPPING UNIT SPECIFICATION

Type F3 - Protected-Unitized
Plastic Wrapped
Edge & Corner Protectors
Special Pallet

Use - 1/4" Santone*
1/8" & 1/4" Rentone
1/4" Klefstone*
1/4" Splitwood II*



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE-8
10' - 48" x 120" Expendable - Spec No. FBE-10
12' - 48" x 144" Expendable - Spec No. FBE-12
*11'6" for Santone, Klefstone & Splitwood II

RP 2705-2

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Pallet	8' Exp.	10' Exp.	12' Exp.	1	1	1
Plastic Wrap-Side,End,Top	Full Unit	Full Unit	Full Unit	1	1	1
Pallet Runners - 1" x 4"	As Req'd.	As Req'd.	As Req'd.	2	2	2
Edge Protectors - Ends	4" x 4" x 4'	4" x 4" x 4'	4" x 4" x 4'	2	2	2
Edge Protectors - Sides	4" x 4" x 8'	4" x 4" x 10'	4" x 4" x 12'	2	2	2
Edge Protectors - Corners	4"x4"xVaries	4"x4"xVaries	4"x4"xVaries	4	4	4
Metal Strapping	3/4"	3/4"	3/4"	4	5	5
Additional Deck Boards	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	3	3	3
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4	5	5

Truck Load - Car Load - Will Call

Note: Polyethylene cushioning sheet between pallet and bottom sheet, and between each sheet. Top sheet face down - All other sheets face up.

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

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CHANGE Complete Revision

AUTHORITY
FOR CHANGE Regular Approvals

SUPERSEDES: All previous issues of same spec

DATE
ISSUED: 12/3/76

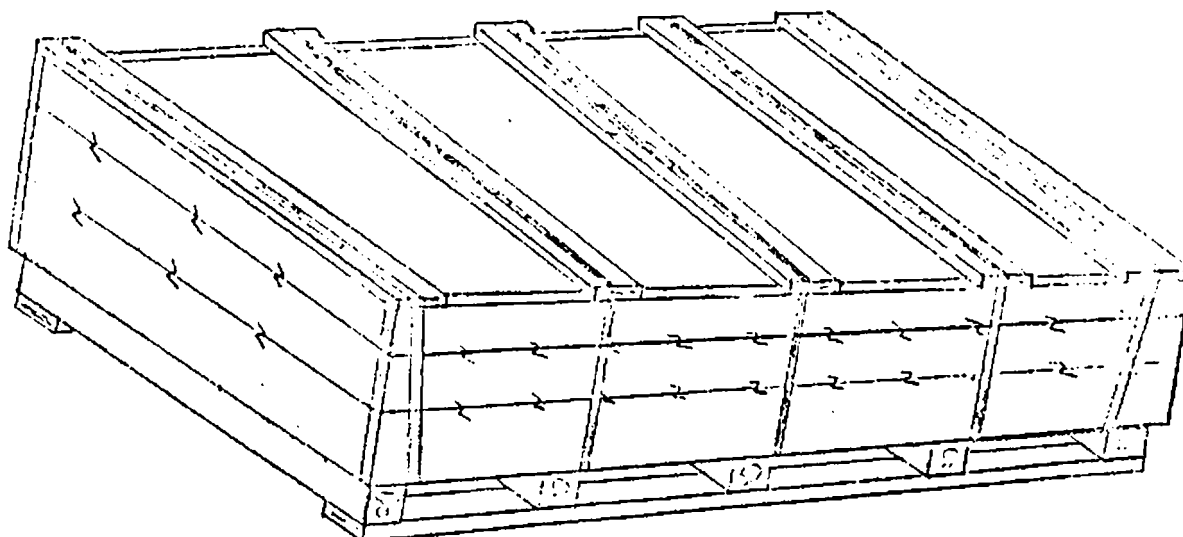
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JM - 83

 Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT: MINERAL PANEL PRODUCTS PACKAGING	DIVISION	BWH
		SPEC. NO.	4743-0
		PAGE NO.	9 of 12

SHIPPING UNIT SPECIFICATION

Type R - Reinforced Crate
 Core Protector Sheets
 Solid Wood Sides

Use - Permatone "S" Flexboard
 Permatone "T" Flexboard
 Painted Flexboard
 Primed Flexboard



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE-8
 10' - 48" x 120" Expendable - Spec No. FBE-10 } RP 2705-2
 12' - 48" x 144" Expendable - Spec No. FBE-12 }

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Pallet	8' Exp.	10' Exp.	12' Exp.	1	1	1
Core Stock - Top	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Core Stock - Bottom	4' x 8' x 7/16"	4' x 10' x 7/16"	4' x 12' x 7/16"	1	1	1
Ends	1" x 4" - 10"	1" x 4" - 10"	1" x 4" - 10"	V A	R I E S	
Sides	1" x 4" - 10"	1" x 4" - 10"	1" x 4" - 10"	V A	R I E S	
Top Wood Cleats	1" x 4" & 6"	1" x 4" & 6"	1" x 4" & 6"	4	5	5
Metal Strapping	3/4"	3/4"	3/4"	4	5	5
Pallet Runners	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	2	2	2
Corr. Fasteners	Approx 12" G	Approx 12" G	Approx 12" G	V A	R I E S	
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4	5	5

Used For: LTL Shipments

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

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SUPERSEDES: All Previous issues of same spec

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PRODUCT:

MINERAL PANEL PRODUCTS PACKAGING

DIVISION

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FINISHED PRODUCT
SPECIFICATION

SPEC. NO.

4743-0

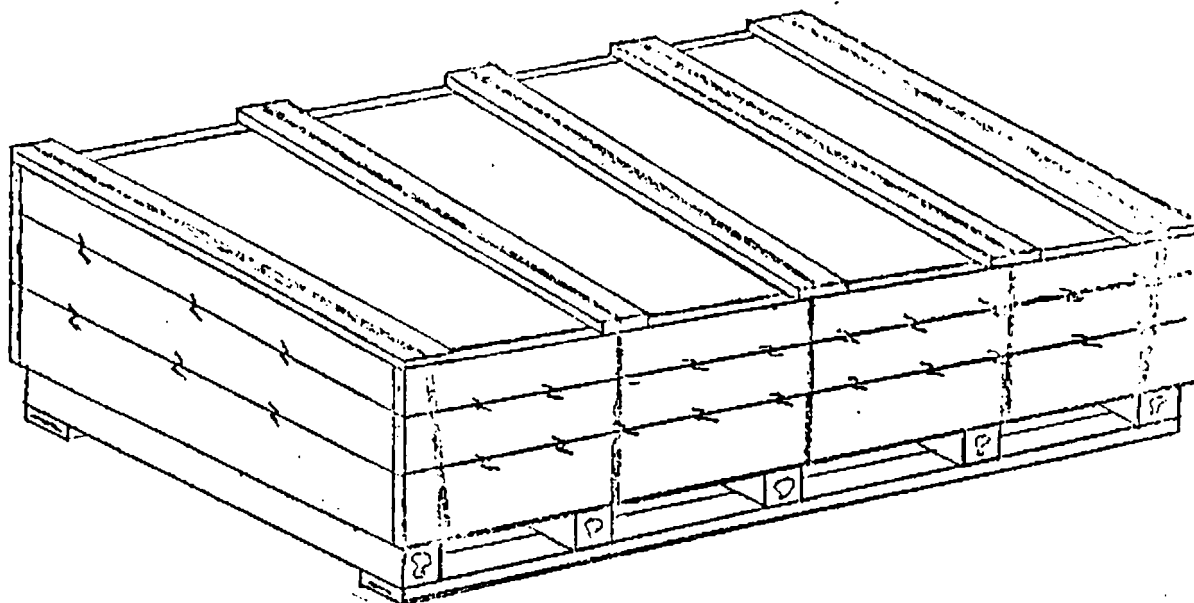
PAGE NO.

10 of 12

SHIPPING UNIT SPECIFICATION

Type R-A - Reinforced Crate
Solid Wood Sides
Special Pallet
Plastic Wrapped

Use - Santone *
Kleftone *
Rentone
Splitwood II *



Pallet: 8' - 48" x 96" Expendable - Spec No. FBE- 8
10' - 48" x 120" Expendable - Spec No. FBE-10 } RP 2705-2
12' - 48" x 144" Expendable - Spec No. FBE-12
* - Santone, Kleftone & Splitwood II at 11'6"

DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Pallet	8' Exp.	10' Exp.	12' Exp.	1	1	1
Plastic Wrap-Side,End,Top	Full Unit	Full Unit	Full Unit	1	1	1
Additional Deck Boards	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	3	3	3
Ends	1" x 4" - 10"	1" x 4" - 10"	1" x 4" - 10"	V	A	R
Sides	1" x 4" - 10"	1" x 4" - 10"	1" x 4" - 10"	V	A	R
Top Wood Cleats	1" x 4" & 6"	1" x 4" & 6"	1" x 4" & 6"	4	5	5
Metal Strapping	3/4"	3/4"	3/4"	4	5	5
Pallet Runners	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'	2	2	2
Corr. Fasteners	Approx 12" G	Approx 12" G	Approx 12" G	V	A	R
Pallet Stringers	3" x 3" x 4'	3" x 3" x 4'	3" x 3" x 4'	4	5	5

LTL Shipments:

Note: Architectural Panels packaged same as spec P-3

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

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**FINISHED PRODUCT
SPECIFICATION**

PRODUCT:

MINERAL PANEL PRODUCTS PACKAGING

DIVISION

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SPEC. NO.

4743-0

PAGE NO.

11 of 12

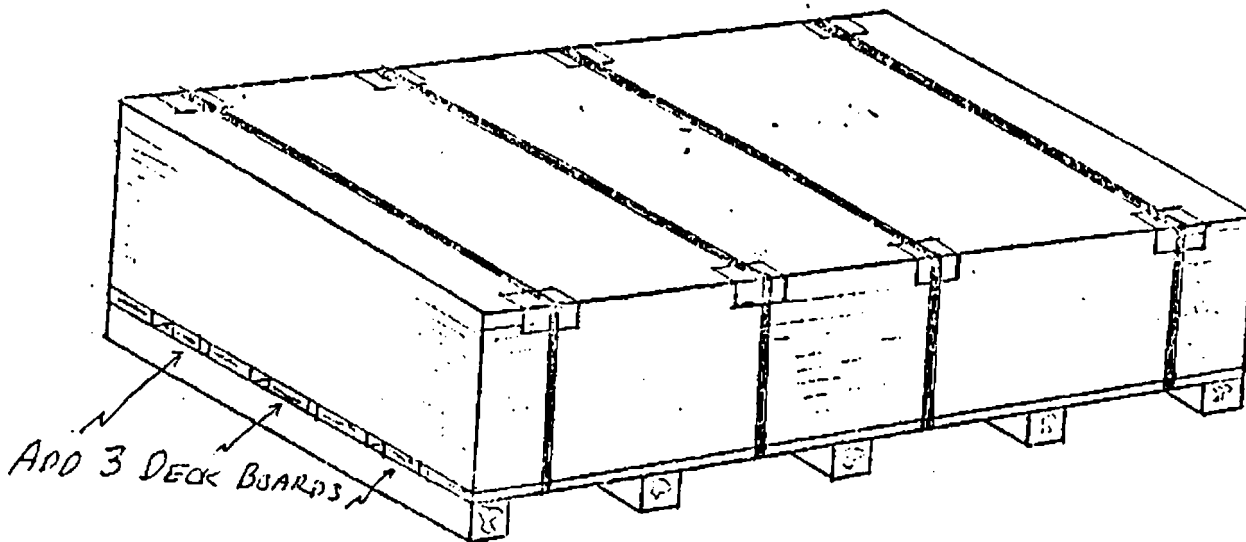
SHIPPING UNIT SPECIFICATION

Type L - Unitized-Laminator

Use - Laminator Accounts

Door Sheets

Full Size Sheets

Pallet Stringers

4 on 8' & Doors

5 on 10' & 12'

Pallet: 8' - 48" x 96" Expendable - Spec No. FBE- 8
 10' - 48" x 120" Expendable - Spec No. FBE-10 RP-2704-2
 12' - 48" x 144" Expendable - Spec No. FBE-12
 Doors - Per size required

DESCRIPTION	DOORS	NOMINAL SIZES		
		8'	10'	12'
Pallet	Size Req'd	8' Exp.	10' Exp.	12' Exp.
Extra Deck Boards	1" x 4" x Varies	1" x 4" x 8'	1" x 4" x 10'	1" x 4" x 12'
Strapping Protectors	4" x 4" x 6"	4" x 4" x 6"	4" x 4" x 6"	4" x 4" x 6"
Metal Strapping	3/4"	3/4"	3/4"	3/4"

DESCRIPTION	NO. REQ'D.			
	DOORS	8'	10'	12'
Pallet	1	1	1	1
Extra Deck Boards	3	3	3	3
Strapping Protectors	6	6	8	8
Metal Strapping	3	3	4	4

Truck Load - Car Load - Will Call
Shipments

Pallet Runners - 2 @ 1" x 4" added
when required

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

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Regular Approvals

SUPERSEDES:

All Previous issues of same spec

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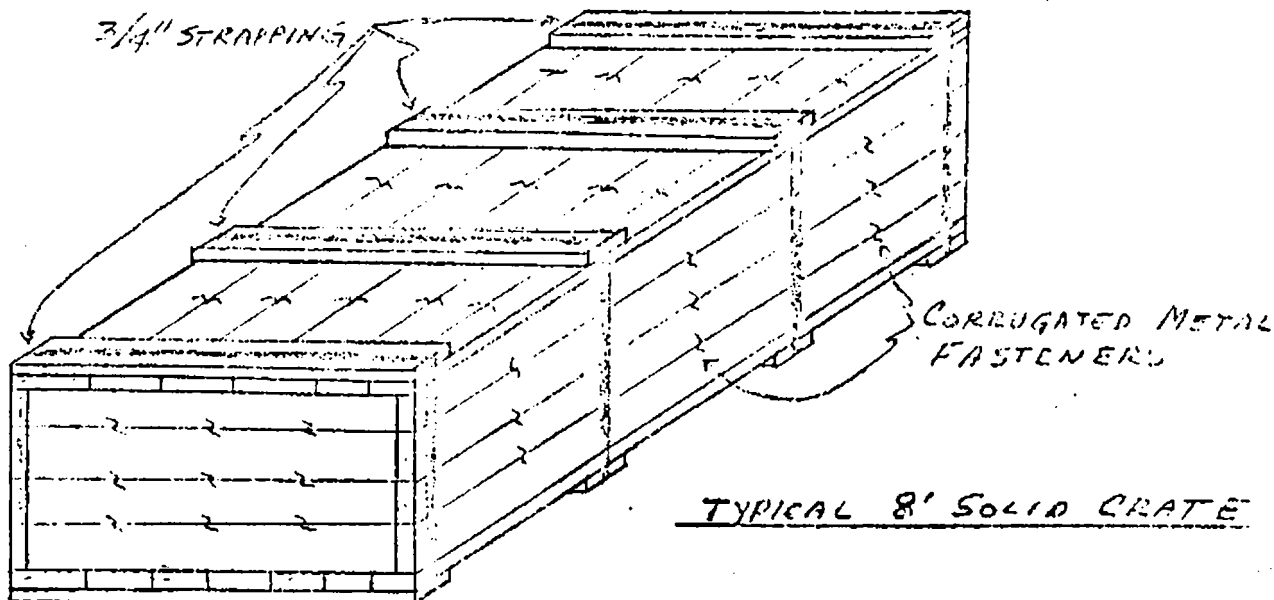
DATE 12/3/76
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 Johns-Manville FINISHED PRODUCT SPECIFICATION	PRODUCT: MINERAL PANEL PRODUCTS PACKAGING	DIVISION	BIM
		SPEC. NO.	4743-0
		PAGE NO.	12 of 12

Shipping Unit Specification

Type S - Solid Crate
 Domestic
 Export

Use - All Products



DESCRIPTION	NOMINAL SIZES			NO. REQ'D.		
	8'	10'	12'	8'	10'	12'
Top	1"x4",6",8"	1"x 4",6",8"	1"x 4",6",8"	V A R I E S		
Bottom	1"x 4",6",8"	1"x 4",6",8"	1"x 4",6",8"	V A R I E S		
Sides	1"x 4",6",8"	1"x 4",6",8"	1"x 4",6",8"	V A R I E S		
Ends	1"x 4",6",8"	1"x 4",6",8"	1"x 4",6",8"	V A R I E S		
Wood Cleats	1" x 4"	1" x 4"	1" x 4"	8	10	10
Corr. Fasteners	Approx 18" G.	Approx 18" G.	Approx 18" G.	V A R I E S		
Strapping	3/4"	3/4"	3/4"	4	5	5
Core Stock - Top	4'x 8'x 7/16"	4'x 10'x 7/16"	4'x 12'x 7/16"	1	1	1
Core Stock - Bottom	4'x 8'x 7/16"	4'x 10'x 7/16"	4'x 12'x 7/16"	1	1	1
Plastic Film	8' x 24'	10' x 24'	10' x 32'	1	1	1

Comments: Core stock inside crate - under the product and on top of the product.
 Plastic Film for export crates only. Use around the product inside the crate.

Approvals: When this spec is stamped "APPROVED-Q.A. DEPT." the original record of required approvals will be on file in the Quality Assurance Department.

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SUPERSEDES: All Previous issues of same spec

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CAUTION

**CONTAINS ASBESTOS FIBERS.
AVOID CREATING DUST.
BREATHING ASBESTOS DUST MAY
CAUSE SERIOUS BODILY HARM.
SMOKING GREATLY INCREASES THE
RISK OF SERIOUS BODILY HARM.**

The asbestos fibers in this product are "locked-in" the cement matrix, and are released only during fabricating operations. Fabricate using recommended work practices.



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JOHNS-MANVILLE FINISHED PRODUCT SPECIFICATION	PRODUCT TRANSITOP PRODUCTS SHIPPING PROCEDURE	DIVISION	RP
		SPEC NO.	4743-0
		PAGE NO.	1

I. Manufacturing Plants

Waukegan

II. Products

Transitop
Thermostone
Thermocore
Transifoam

III. Face Types

1. Standard Flexboard - 2 sides
2. Permatone "S" Flexboard - 2 sides
3. Permatone "S" Flexboard - 1 side - primed Steam Cured Flexboard 1 side
4. Primed Flexboard - 2 inches
5. Steam Cured Flexboard - 2 sides

IV. Packaging

Standard FLEXBOARD Faces - Steam Cured Flexboard Faces
No separators

Decorative Faces

014 to 030 Chipboard separators are used between panels. Size to be such to leave approximately 1/2" border around edges. When more than one separator piece is required adjacent sheets should not overlap nor have a gap exceeding 8".

CANCELLED

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C. R. WILSON
APR 21 1970

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X- INDICATES CHANGE		REASON: TO SHOW THICKNESS RANGE FOR CHIPBOARD SEPARATORS		PLEASE RETURN TO	
AUTHORITY FOR CHANGE		REGULAR APPROVALS		J-M RESEARCH	
SUPERSEDES:		PAGE 1, SAME SPECIFICATION ISSUED 3-31-70		LIBRARY (MM)	
MR. G. C. C.	MR. G. C. C.	SUPR. G. C. C.	PROD. SUPT.	PLANT. MGR.	RES. E. W. THOMPSON J. NORTH, JR.
				DATE ISSUED	4-17-70

TRANSITOP PRODUCTS
CHIPPING PROCEDURE

TRANSITOP PRODUCTS
CHIPPING PROCEDURE

DIVISION

SPEC NO.

PAGE NO.

8758-C

I. Manufacturing Process

Monkage

II. Products

Transitop
Thermosone
Thermocore
Transifoam

III. Face Types

1. Standard Flexboard - 2 sides
2. Permatone "B" Flexboard - 2 sides
3. Permatone "B" Flexboard - 1 side - primed Steam Cured Flexboard 1 side
4. Primed Flexboard - 2 sides
5. Steam Cured Flexboard - 2 sides

IV. Packaging

Standard FLEXFORMED Faces - Steam Cured Flexboard Faces
No separators.

Decorative Faces

0.030 chipboard separators are used between panels. Size to be such to leave approximately 1/2" border around edges. When more than one separator piece is required adjacent sheets should not overlap nor have a gap exceeding 8".

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S. R. VANDER LINDEN
MAR 31 1970
FILE #
12

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X- INDICATES
CHANGE -REASON:

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SUPSEDES:

PAGE 1, SAME SPECIFICATION ISSUED 8-25-64 (UPRACY 1124)

MSR
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SUPR
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PROD.
SUPE.

PLNT.
FIN.

DES.
MKT.

E. W. THOMPSON
J. NORTH, JR.

DATE
ISSUED

3-31-70

REVISIONS	PROJECT	DIVISION	FF
ISSUED FOR SPECIFICATION	TRANSIT PRODUCTS SHIPPING PROCEDURE	SPEC NO	4752-0
		PAGE NO.	2

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V. Shipping

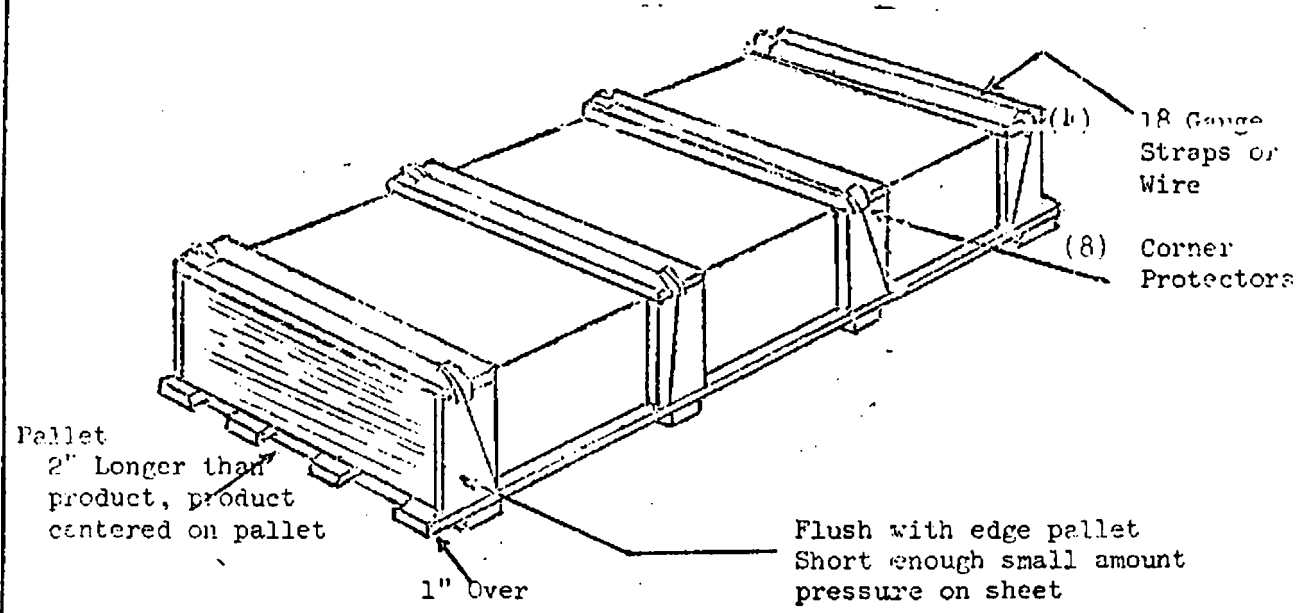
Shipments are to be either crated or palletized unless otherwise specified on order.

<u>Total Thickness</u>	<u>Sheets/Crate</u>	<u>Sq. Ft./Crate</u>
11/16"	8	256
1-1/8"	6	192
1-9/16"	5	160
2"	5	160

Above figures are for 4' x 8' sheets.

Export crates are strapped with 4 bands of 3/4" strapping.

Palletized shipments are to be strapped as shown in sketch below:



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X- INDICATES CHANGE		REASON: REISSUE OF PAGE		PLEASE RETURN TO	
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SUPERSEDES:		PAGE 2, SAME SPECIFICATION ISSUED 6-24-63		LIBRARY (MM)	
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				DATE ISSUED	4-17-70

FINISHED PRODUCT SPECIFICATION	TRANSITOP	DIVISION	17
		SPEC NO.	4743
		PAGE NO.	1

- I. Manufacturing Point - Warrington
- Facings - Facing Types shall be as listed below:
1. Standard Flexboard - 2 sides
 2. Fined Flexboard - 2 sides
 3. Foxstone "S" - 2 sides
 4. Foxstone "S" one side - Steam cured primed - one side
 5. Steam cured Flexboard - 2 sides
- II. Specifications to be Met

The impregnated core shall meet the Federal Specification for Fibreboard; Insulation, LLL-I-225, Amendment 1, Class A.

The Flexboard faces shall meet all the requirements of the present Finished Product Specification for "Standard Flexboard", 1/8" thick.

III. Construction

Standard Sizes

<u>Thickness</u>	<u>Width</u>	<u>Lengths</u>
11/16"	4 ft.	6, 8, 9, 10, 12 ft.
1-1/8"	4 ft.	6, 8, 9, 10, 12 ft.
1-9/16"	4 ft.	6, 8, 9, 10, 12 ft.
2"	4 ft.	6, 8, 9, 10, 12 ft.

Transitop is made from an impregnated insulating board core, 7/16" or 21/32" in multiples of these thicknesses, faced two sides with facings as approved.

Cores 7/16" and 21/32" in thickness shall be single continuous sheets. Cores 1-5/16" or more in thickness shall preferably be continuous sheets bonded together but it is permissible to make the inner plies of the core from not more than two pieces for each ply. Both outer plies must be single continuous sheets. Sheets with core splits not exceeding 3" in length are acceptable.

If the inner plies of a core are each made from two pieces, the joints must be staggered.

All facing sheets shall be single, continuous pieces.

All edges of standard faces, standard core are to be edge sealed with an approved edge sealer.

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INDICATES CHANGE - REASON: 1X - To show Name Change and Up-Date Specification

AUTHORITY FOR CHANGE PLC 041-7-69 G. E. Thompson 1/20/69

SUPERSEDES: Page 1 same specification issued 7/19/65

NO. 1	NO. 2	SUP. 1	PROD. 1	DATE 1	FILE 1	ISS. 1	DATE 1	ISSUED 1	2-20-69

FORM 3225-A JUL 1964 U.S.A.

11. Dimensional Tolerances

Length and Width References, both Standard and cut pieces

Plus $1/32"$, Minus $3/32"$

Thickness Tolerance - Nominal #1/16"

Squareness - 1/64" per lineal foot

Edges - Shall be cut reasonably square and straight and shall be wiped cleaned after sawing.

Control Tests - Production: Spot check on all dimensions. All dimensions to be checked at start of each shift and at each saw change.

Quality Control: Spot check all material.

V. Appearance Tolerances

វិសោធនៈ

- a. Color: Some color variation is permissible due to the nature of the material. See standard samples.
- b. Texture: Shall have smooth surface but may not look alike due to variation in fibre distribution. See standard samples.
- c. Defects: The sheets shall be free from pull-outs, projections, cracks, chips, lumps, bruises, dents, foreign matter, etc. which may present a rough, damaged or unworkmanlike appearance. Sheets with not over two corners broken less than 1/4" may be shipped.
- d. Decorative Finishes:

Decorative Finishes furnished in accordance with Section I
Finish to be uniform and continuous in appearance. See
standard samples.

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[illegible]

X-- INDICATES CHANGE --REASON: To show thickness Tolerance $\pm 1/16"$

Product Manager Approval

supersede: Page 2 same specification issued 1/30/69

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DIF.	PRO.	SUPP.	PROD.	PART.	125	E. W. Thompson
00	00	S.O.	SUPP.	PR		J. North, Jr.

DATE 3/4/70

1. TITLE: <u>PLC 041-7-69</u> 2. PROJECT: <u>General Revision</u>	3. ISSUE:	4. IN:
	5. SPEC NO.	6. MFG:
	7. PAGE NO.	8. 3

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VI. Physical Characteristics

A. Quality Control - Adhesion

Each unit as produced is to be checked visually for delamination. Provided delamination is detected a probe shall be used to determine the extent of the delamination. If the delamination exceeds 3" in length and 1/4" in depth the panel is to be rejected.

B. Weights

<u>Core Thickness</u>	<u>Total Thickness</u>	<u>Approx. Wt./1 Sq. Ft.</u>
7/16"	11/16"	3420
7/8"	1-1/8"	4088
1-5/16"	1-9/16"	4756
1-3/4"	2"	5424

VII. Packaging

Package in accordance with F.P.S. 4743-0.

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Form 330-5A Rev. 10-1-64

9. INDICATES CHANGE — REASON: <u>General Revision and Name Change</u>							
AUTHORITY FOR CHANGE: <u>Regular Approval</u> <u>PLC 041-7-69</u> <u>G. E. Thompson</u> <u>1/20/69</u>							
SUPERSEDES: <u>Page 3 same specification issued 11/9/64</u>							
10. DESIGNED BY	11. CHECKED BY	12. DRAWN BY	13. PROD. CONT.	14. TEST.	15. APPR. BY	16. DATE ISSUED	17. 1-20-69
					<u>G. W. Constantin</u> <u>E. W. Thompson</u>		

VII. Packing and Labeling (cont'd)

Total Thickness	Sheets/Crate	Sq. Ft./Crate	Shipping Weight	
			Domestic	Export
1-1/16"	8	256	917	1012
1-1/8"	6	192	874	986
1-0/16"	5	160	848	969
2"	5	160	955	1085

25% Kraft paper separators are used between Pre-Primed panels.

Export crates are strapped with 4 bands of 3/4" strapping.

Above figures are for 4' x 8' sheets.

Fernatone Transitop

Corrugated cardboard separator strips (non-test board) are used to protect the painted panels. These strips (4" x 47") are laid crossways on each panel approx. 20 inches apart. In stacking the panels the strips are superimposed at the same location on the panels in order to build up a column of spacers at each location.

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X- INDICATES CHANGE —REASON: To show use of corr. spacers

AUTHORITY FOR CHANGE Additional information

SUPERSEDES: Page 4, same spec. issued 3-7-62

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