

PPP-P-25
REINSTATEMENT
September 11, 1981
SUPERSEDING
CANCELLATION NOTICE
December 21, 1979

FEDERAL SPECIFICATION

PRINTING AND STATIONARY PAPER, PACKAGING AND PACKING OF

This notice was approved by the Commissioner, Federal Supply Service, General Services Administration.

This notice is issued to reinstate Federal Specification PPP-P-25F, dated January 2, 1976 and Interim Amendment-1, dated December 10, 1976.

Cancellation notice dated December 21, 1979, on Federal Specification PPP-P-25 is hereby canceled.

FSC PACK

PPP-P-25F
 January 2, 1976
 SUPERSEDING
 Fed. Spec. PPP-P-25E
 July 7, 1969

FEDERAL SPECIFICATION

PRINTING AND STATIONERY PAPER, PACKAGING AND PACKING OF

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE

1.1 This specification covers the packaging, packing, and marking of stationery paper and printing papers for shipment and storage.

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Federal Specifications:

- L-P-378 - Plastic Sheet and Strip, Thin Gauge, Polyolefin.
- QQ-S-731 - Strapping, Steel, and Seals.
- UU-P-263 - Paper, Kraft, Wrapping.
- MM-A-188 - Adhesive; Urea-Resin-Type (Liquid and Powder).
- MM-A-250 - Adhesive Water Resistant (For Closure of Fiberboard Boxes).
- MM-A-260 - Adhesive, Water-Resistant, (For Sealing Waterproofed Paper).
- PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner.
- PPP-B-636 - Boxes, Snipping, Fiberboard.
- PPP-F-320 - Fiberboard; Corrugated and Solid, Sheet Stock (Container-Grade), and Cut Snaps.
- PPP-P-1660 - Pallet, Expandable.
- PPP-S-760 - Strapping, Nonmetallic (and Connectors).
- PPP-T-45 - Tape, Gummed, Paper, Reinforced and Plain, for Sealing and Securing.
- PPP-T-60 - Tape: Packaging, Waterproof.
- PPP-T-76 - Tape, Pressure-Sensitive Adhesive Paper, (For Carton Sealing).
- PPP-T-97 - Tape, Pressure-Sensitive Adhesive, Filament Reinforced.

Federal Standards:

- Fed. Test Method Std. No. 101 - Preservation, Packaging, and Packing Materials: Test Procedures.
- Fed. Std. No. 123 - Marking for Shipment (Civil Agencies).
- Fed. Std. No. 224 - Closing, Sealing and Reinforcing of Fiberboard Shipping Boxes, General Methods for.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, WA.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

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Military Specification:

MIL-B-13239 - Barrier Material, Waterproofed, Flexible, All Temperature.

Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

MIL-STD-129 - Marking for Shipment and Storage.

MIL-STD-731 - Quality of Wood Members for Containers and Pallets.

(Copies of Military Specifications and Standards required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

National Motor Freight Traffic Association, Inc., Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

Technical Association of the Pulp and Paper Industry (TAPPI) Publication:

T464 - Water Vapor Permeability of Sheet Materials at High Temperatures and High Humidity.

(Application for copies should be addressed to the Technical Association of the Pulp and Paper Industry, One Dunwoody Park, Atlanta, GA 30341.)

3. REQUIREMENTS

3.1 Packaging. Packaging shall be level A, B, or C as specified (see 6.1).

3.1.1 Level A.

3.1.1.1 Printing papers. Unless otherwise specified (see 6.1), printing paper shall be wrapped or ream marked as indicated in table III. If ream markers are required, they shall be not less than 1 inch wide by 5 inches long, nor more than 2-1/2 inches wide by 6 inches long. One end of the marker shall project not less than 1-1/2 inches nor more than 2-1/2 inches beyond the edge of the paper. The color of the marker shall be in contrast to the color of the paper. If packaging is required, the printing paper shall be completely wrapped in not less than 40 pound basis weight (24 x 36 - 500) asphalt-free kraft paper having a water permeability at 90 percent relative humidity at 100°F of not more than 1 gram per 100 square inches in 24 hours for uncreased paper, and not more than 2 grams in 24 hours for creased paper when tested as specified in 4.5.2 and creased as specified in 4.5.2.1. When wax lamination is used, the wax shall be microcrystalline wax having a melting point of not less than 140°F. The laminated sheet shall show no delamination or total wax penetration through either side of the sheet when tested as specified in 4.5.3. Other asphalt free wrapping may be used in place of the kraft paper provided it meets the specified performance requirements of the aforementioned kraft paper. The wrapping shall be sealed with a continuous strip of adhesive conforming to MIM-A-260 or MIM-A-188, a continuous strip of hot melt or other equivalent adhesive, or a continuous strip of minimum 3 inch wide tape conforming to PPP-T-60, type IV or PPP-P-76. Adhesive shall be applied in such a manner that it makes no contact with the paper being packaged. Alternatively, the paper shall be uniformly stacked in quantities specified in table III on a fiberboard or paperboard pad, the same dimensions as the printing paper. The paper shall be completely wrapped with 40 pound minimum basis weight kraft paper conforming to UU-P-26J, type I, grade B. The paper wrap shall be sealed with adhesive or

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minimum 2-inch wide tape conforming to PPP-T-45, type III. Adhesive shall be applied in such a manner that it makes no contact with the paper being packaged. The wrapped paper shall then be bagged or wrapped with polyethylene film having a minimum thickness of 0.0015 inch and conforming to L-P-378, type 1, class 1, grades A, B or C, finish 1. All closures or seams shall be neat sealed or sealed by double folding the plastic material at the mouth and taping it to the bag or wrap body with minimum 1-inch wide tape conforming to PPP-T-60. All heat sealed seams and closures shall conform to the heat seal strength requirements of L-P-378. Prior to or during the final closure, excess air within the bag or wrap shall be expelled.

3.1.1.2 Stationery paper (except manifold). Stationery papers in quantities of one ream (500 sheets), unless a different quantity is specified (see 6.1), shall be compactly packaged as specified in 3.1.1.1.

3.1.1.3 Manifold paper. Manifold paper in quantities of two reams (1,000 sheets) shall be compactly packaged as specified in 3.1.1.1.

3.1.2 Level B.

3.1.2.1 Printing papers. Unless otherwise specified (see 6.2), printing paper shall be wrapped or ream marked as indicated in table III. When ream markers are required, they shall be as specified in 3.1.1.1. Printing paper requiring packaging shall be compactly wrapped in wax laminated kraft paper with a minimum basis weight (24 x 36 - 500) of 25/15/25 pounds, plastic coated kraft paper with a minimum basis weight (24 x 36 - 500) of 40 pounds, or 2 mil thick plastic film conforming to L-P-373. The wrap shall be sealed with an adhesive or with gummed paper tape. Adhesive shall be applied in such a manner that it makes no contact with the paper being packaged.

3.1.2.2 Stationery papers (except manifold and blotting). Stationery papers in quantities of one ream (500 sheets) unless a different quantity is specified (see 6.1), shall be compactly packaged as specified in 3.1.2.1.

3.1.2.2.1 Manifold paper. Manifold paper in quantities of two reams (1,000 sheets) shall be compactly packaged as specified in 3.1.2.1.

3.1.2.2.2 Blotting paper.

3.1.2.2.2.1 Up to and including 8-1/2" x 11". One-hundred sheets of blotting paper of one size shall be formed into a bundle, and banded girthwise with a kraft paper band not less than three inches in width into a tight, secure package. Ten packages of blotters shall be formed into a bundle two packages in width by five packages in depth, then completely wrapped in 50 pound basis weight (24 x 36-500) kraft paper with ends neatly folded and with gummed paper tape.

3.1.2.2.2.2 Over 8-1/2" x 11". Twenty-five sheets of blotting paper of one size and color shall be formed into a bundle (flat with even edges) and either completely wrapped in 50 pound basis weight (24 x 36-500) kraft paper or secured by a 50 pound basis weight (24 x 36-500) kraft paper band not less than eight inches in width encircling the bundle girthwise. The wrapping or band shall be securely sealed with adhesive or with gummed paper tape.

3.1.3 Level C (Commercial Packaging). Printing and stationery paper shall be packaged in accordance with the supplier's standard commercial practice to provide adequate protection against physical damage during shipment from the supply source to the receiving activity.

3.2 Packing. Packing shall be level A, B or C as specified (see 6.1).

3.2.1 Level A.

3.2.1.1 Printing paper. Unless otherwise specified (see 6.1), reams and packages of printing paper, packaged or ream marked as specified in 3.1, shall be packed in a fiberboard or nailed wood box as specified in table III. The boxes shall be as specified in 3.2.1.1.1 and 3.2.1.1.2. When specified (see 6.1), skids as specified in 3.2.1.1.3 or pallets as specified in 3.2.1.2.2 shall be used.

3.2.1.1.1 Fiberboard boxes. Fiberboard boxes shall conform to PPP-B-636, style FTC-L, grade V2s, except the maximum weight limitations of table II of PPP-B-636 are waived. The depth of each box shall be slightly less than the combined height of the reams to be packed so that when the cover is applied, a compact fit will be effected. Each box shall be provided with a liner fabricated in accordance with PPP-B-636. In addition, top and bottom fiberboard pads, each having dimensions equal to the length and width of the box inside the liner,

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less 1/8 inch, shall be provided. The fiberboard for the box liner and the top and bottom pads shall conform to PPP-F-320, type CF, variety DW, grade 500 minimum. The box shall be closed in accordance with Method 106 of Fed. Std. No. 224. Alternatively, the box shall be closed by gluing the surfaces of the sides and ends of the top and bottom portions of the box with a continuously applied and bonded band of adhesive conforming to MMM-A-250, type 1.

3.2.1.1.1.1 Sealing of fiberboard boxes. Boxes closed with tape in accordance with method 106 of Fed. Std. No. 224 shall require no further sealing. Boxes closed by all other specified materials shall be sealed in accordance with Method 150 of Fed. Std. No. 224.

3.2.1.1.1.2 Reinforcing of fiberboard boxes. Boxes shall be reinforced in accordance with Method 200 of Fed. Std. No. 224.

3.2.1.1.2 Nailed wood boxes. When nailed wood boxes are specified in table III, they shall conform to PPP-B-621, class 2, style 2, 2-1/2, 3, 4 or 4-1/2 except that the minimum thickness of sides, ends, top and bottom shall be 3/4-inch and the minimum size of the cleats shall be 3/4-inch by 3-5/8-inches. Each box shall be provided with skids in accordance with the requirements of the box specification. Each box shall be strapped in accordance with the appendix to the box specification.

3.2.1.1.3 Skid packing. When specified (see 6.1), printing paper, in quantities and arrangement as specified in table V, shall be packed on expendable wood skids constructed of wood conforming to MIL-STD-731. Printing paper shall be ream marked with markers specified in 3.1.1.1. The gross weight of the skid pack shall not exceed 3,500 pounds. The paper shall be covered with a wood cap that shall be secured to the pack with strapping.

3.2.1.1.3.1 Construction of skids, cap, and method of skid packing (see fig. 1).

3.2.1.1.3.1.1 Skids. Deck boards of skids shall be not less than 1-1/16 inches thick and approximately 5-5/8 inches in width. Runners shall be not less than one piece nominal 3 inches by 8 inches. Deck boards shall be nailed to the 3-inch dimension. Length of runners shall be equal to the longest dimension of the skid for widths of 34 inches and larger and equal to the shortest skid dimension for widths less than 34 inches. Clearance between runners shall be not less than 28 inches nor more than 38 inches. Deck boards shall abut and be nailed to the runners by spacing the nails not more than two inches apart in two staggered rows. Runners shall be notched on upper face so that strapping can be applied as specified in 3.2.1.1.3.1.4. When specified (see 6.1), the skid base shall be of the modified type as shown in figure 1a.

3.2.1.1.3.1.2 Cap. Inner face of cap shall be of the same length and width as the paper stock and made of deck boards, butt-jointed, of not less than nominal 1-inch thick lumber. Each deck board shall be securely fastened to the outer face cleats with nails in two staggered rows. Outer face of cap shall consist of not less than three pieces of nominal 1-inch by 4-inch lumber which shall be the length of the larger skid dimension. Two pieces shall be nailed at each edge of inner face and the third piece shall be centered.

3.2.1.1.3.1.3 Skid loading of printing paper. The skid deck shall be covered with a sheet of barrier material conforming to MIL-B-13239, type B-2, grade A or B, stretchable. Other barrier materials meeting the physical requirements of the types, classes, and grades of MIL-B-13239 and not having asphalt as a laminant may be used. The barrier material shall extend not less than eight inches beyond each edge of the deck. Sheets of clean paperboard having the combined thickness of not less than 0.120 inch and having the same dimensions of the skid deck shall be placed on the barrier material. After loading the paper on the skid, the stack shall be wrapped with not less than 40-pound basis weight (24 x 36-500) kraft paper conforming to grade B of UU-P-268. The extended barrier material on the deck shall be folded upward and then overwrapped on the four sides and top with the same barrier material as used on the deck for wrapping the base of the tier of paper. All seams of the barrier material shall be completely closed with minimum 3 inch wide waterproof tape conforming to PPP-T-60 or PPP-T-76; waterproof adhesive conforming to MMM-A-260; or heat sealed, as applicable. A cap constructed as specified in 3.2.1.1.3.1.2 shall be placed on top of the paper over the barrier material. Edge protectors having a length equal to the height of the paper stacked on the skid shall be used on each vertical edge of the stacked load. The edge protectors shall be as follows, at the option of the supplier: (a) A strip of solid fiberboard 12 inches wide ±1/4-inch, and not less than 0.060 inch thick, with a middle score running lengthwise, or (b) Laminated paperboard, minimum thickness 0.225 inch, formed into a rigid angle with minimum 3 inch wide legs. When specified (see 6.1) a strip of weather-resistant triple-wall fiberboard shall be used for edge protectors.

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3.2.1.1.3.1.4 Strapping. Each skid of paper shall be secured with strapping. When steel strapping is used, it shall conform to QQ-S-781, class I, type I or IV, size 3/4 x 0.023 inch for loads of 2,000 pounds and less, and 3/4 x 0.035 inch for loads exceeding 2,000 pounds. When nonmetallic strapping is used, it shall conform to PPP-S-760; type II, size 5/8 x 0.030 inch for loads of 2,000 pounds and less, and size 1-1/4 x 0.035 inch for loads exceeding 2,000 pounds; or type III, size 1/2 x 0.030 inch for loads of 2,000 pounds and less. Each skid shall have one strap spaced not more than 4 inches from each edge of face, both lengthwise and girthwise, so that each of the four straps secure the edge protectors. In addition, an intermediate strap shall be applied lengthwise on center between the two outside lengthwise straps. All straps shall be applied straight and shall be sufficiently tensioned to prevent the load from shifting during shipment.

3.2.1.2 Stationery papers. Stationery papers, packaged as specified in 3.1, shall be packed flat in layers in boxes as specified in 3.2.1.2.1. The quantity of paper and approximate size shipping container shall be as specified in table IV.

3.2.1.2.1 Boxes. Boxes shall conform to PPP-B-636, style FTC or RSC, grade V3s or V2s except the maximum weight limitations of table II of PPP-B-636 are waived. The depth of each box shall be slightly less than the combined height of the reams to be packed so that when the box is closed, a compact fit will be effected. Style FTC boxes shall be closed in accordance with Method 106 of Fed. Std. No. 224. Alternatively, each style FTC box shall be closed by gluing the surfaces of the sides and ends of the top and bottom portions of the box with a continuously applied and bonded band of waterproof adhesive conforming to MAM-A-250, type I. Style RSC boxes shall be closed in accordance with Method 101 of Fed. Std. No. 224.

3.2.1.2.1.1 Sealing of fiberboard boxes. Boxes closed with tape in accordance with Method 106 of Fed. Std. No. 224 shall require no further sealing. All other boxes shall be sealed in accordance with Method 150 of Fed. Std. No. 224.

3.2.1.2.1.2 Reinforcing of fiberboard boxes. Boxes shall be reinforced in accordance with Method 200 of Fed. Std. No. 224.

3.2.1.2.2 Palletization. When specified (see 6.1), the packed boxes shall be placed on a pallet conforming to PPP-P-1660, type II, style 2,3,4,5,6 or 7, class B or C, grade 2, except styles 2, 3 and 7 pallets shall not be used when the load is secured by the shrink film process. Unless otherwise specified (see 6.1), the size of the pallet shall be any in the specification at the option of the supplier. The load shall be centered on the pallet in a suitable pattern to form a balanced load. The length and width of the load shall be equal to the length and width of the pallet with a tolerance of plus or minus one and one-half (1-1/2) inches from each edge. The gross weight of the loaded pallet shall not exceed 2,500 pounds and the weight of the load shall not exceed the load limit of the pallet. The height of the loaded pallet shall not exceed 60 inches. The load shall be secured to the pallet by one of the methods specified in 3.2.1.2.2.1, 3.2.1.2.2.2 or 3.2.1.2.2.3.

3.2.1.2.2.1 Adhesive. Each box shall be bonded to adjacent boxes and the pallet, as applicable, with nonfiber-tearing adhesive strips or spots. The adhesive shall be H.B. Fuller Co. F4674, Scotch-Grip brand 344550, or equal. Application of adhesive shall be in accordance with the adhesive manufacturer's instructions.

3.2.1.2.2.2 Strapping. The unit load shall be secured by steel strapping conforming to QQ-S-781, class I, type I or IV, minimum size 5/8 x 0.020 inch or nonmetallic strapping conforming to PPP-S-760; type II, minimum size 5/8 x 0.030 inch; or type III, minimum size 1/2 x 0.025 inch. A minimum of two straps shall be placed around the top, bottom and sides of the load and a minimum of two straps shall be placed around the top, bottom and ends of the load. Additional straps shall be applied when necessary to insure that the load will remain in place on the pallet during shipment and storage. Metal or plastic edge protectors shall be placed on the top edges of the pallet load under each strap. All straps shall be applied straight, tensioned to a degree that will preclude looseness on the sides or top of the load, and sealed securely.

3.2.1.2.2.3 Shrink film. The load shall be secured to the pallet by the shrink film process. Thermoplastic films used in this process shall be minimum 5 mil (0.005 inch) thick polyethylene film, minimum 4 mil (0.004 inch) nylon reinforced polyethylene film, or minimum 2.5 mil (0.0025 inch) polyvinyl chloride film. Shrinking of the film shall be in accordance with industry practice.

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3.2.2 Level B.

3.2.2.1 Printing papers. Reams and packages of printing papers, packaged or ream marked as specified in 3.1, shall be packed in close-fitting fiberboard or nailed wood boxes conforming to 3.2.2.1.1 and 3.2.2.1.2 as specified in table III or when specified (see 6.1) on skids as specified in 3.2.2.1.3 or pallets as specified in 3.2.2.1.4. Unless otherwise specified in table III, reams of paper shall be packed flat stacked one on top of the other. When skid packing is specified, fiberboard or nailed wood boxes will not be required. When specified (see 6.1), printing paper, except dot gummed paper as listed in table V shall be ream marked and packed directly on skids as specified in 3.2.1.1.3 except that length, width; and clearance between runners shall be as shown on table V for size paper being packed. Dot gummed paper listed in table V shall be wrapped as specified in 3.1.1.1 and packed five (5) reams to a box as specified in 3.2.2.1.1.

3.2.2.1.1 Fiberboard boxes. Unless otherwise specified (see 6.1), each fiberboard box shall conform to PPP-B-636, class domestic, type CF, variety SW or DW, style FTC or RSC, grade 275 for net weights of 65 pounds or less and grade 350 for net weights in excess of 65 pounds. The depth of each box shall be slightly less than the combined height of the reams to be packed so that when the box is closed, a compact fit will be effected. Style FTC boxes shall be closed in accordance with Method 125 of Fed. Std. No. 224. Style RSC boxes shall be closed in accordance with Method 120 or 121 of Fed. Std. No. 224. Each box shall be reinforced in accordance with Method 210 of Fed. Std. No. 224. When specified (see 6.1), the boxes shall be class weather resistant in lieu of class domestic.

3.2.2.1.2 Nailed wood boxes. Each nailed wood box shall conform to PPP-B-621, class 1, style 2, 2-1/2, 3, 4, or 4-1/2. Each box shall be strapped in accordance with the appendix to the box specification.

3.2.2.1.3 Skid packing. When specified (see 6.1), printing paper shall be packed on nonreturnable wood skids as specified in 3.2.1.1.3.

3.2.2.1.3.1 Construction of skids and cap. The construction of the skids and caps shall be as specified in 3.2.1.1.3.1.1 and 3.2.1.1.3.1.2.

3.2.2.1.3.2 Skid loading of printing paper. The skid deck shall be covered with a sheet of waterproof wrapping paper or sheets of clean paperboard having a combined thickness of 0.060 inch. The deck covering shall have the same dimensions as the skid deck. The printing paper shall be completely wrapped with laminated waterproof wrapping paper with a minimum total basis weight (24 x 36-500) of 110 pounds. The laminating medium shall be microcrystalline wax or polyethylene, at the option of the supplier. The printing paper shall be loaded on the skid and all seams of the wrapping paper shall be completely closed with minimum 3 inch wide waterproof tape conforming to PPP-T-60 or PPP-T-76; waterproof adhesive conforming to AAA-A-260; or not melt adhesive, as applicable. A cap constructed as specified in 3.2.1.1.3.1.2 shall be placed on top of the paper over the barrier material. Edge protectors having a length equal to the height of the paper stacked on the skid shall be used on each vertical edge of the stacked load. The edge protectors shall be as follows, at the option of the supplier: (a) a strip of fiberboard 12 inches wide conforming to PPP-F-320, class domestic, type CF or SF, grade 275 minimum, with a middle score running lengthwise, or (b) laminated paperboard, minimum thickness 0.225 inch, formed into a right angle with 3 inch wide legs.

3.2.2.1.3.3 Strapping. Strapping used to secure each skid of paper shall be as specified in 3.2.1.1.3.1.4.

3.2.2.1.4 Palletization. When specified (see 6.1), printing paper of the same type and size, packaged and packed as specified in 3.1 and 3.2.2.1 shall be unit loaded on expendible pallets as specified in 3.2.1.2.2. When specified (see 6.1), other types of pallets shall be used.

3.2.2.2 Stationery papers. Stationery papers, packaged as specified in 3.1, shall be packed flat in layers, in boxes as specified in 3.2.2.2.1. The quantity of paper and approximate size shipping container shall be as specified in table IV. When specified (see 6.1) stationery paper listed in table V shall be packed as specified in 3.2.2.1 for printing papers listed in table V.

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3.2.2.2.1 Boxes. Unless otherwise specified (see 6.1), boxes shall conform to PPP-B-636, class domestic, style RSC or FTC, grade 275 for net weights less than 65 pounds; and grade 350 for net weights of 65 pounds or more. The depth of each box shall be slightly less than the combined height of the reams to be packed so that when the box is closed, a compact fit will be effected. Style FTC boxes shall be closed in accordance with Method 125 of Fed. Std. No. 224. Style RSC boxes shall be closed in accordance with Method 121 of Fed. Std. No. 224. When specified (see 6.1), the boxes shall be class weather resistant in lieu of class domestic.

3.2.2.2.2 Palletization. When specified (see 6.1), stationery papers of the same description, packaged and packed as specified in 3.1 and 3.2.2.2 shall be unit loaded on pallets as specified in 3.2.1.2.2.

3.2.3 Level C. Printing and stationery papers, packaged as specified in 3.1, shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. Containers shall be in accordance with the Uniform Freight Classification rules or National Motor Freight Classification rules, as applicable.

3.3 Marking.

3.3.1 Civil agencies. In addition to the special marking required by 3.3.3 and any special marking required by the contract or order (see 6.1), marking shall be in accordance with Fed. Std. No. 123.

3.3.2 Military requirements. In addition to the special marking required by 3.3.3 and any special marking required by the contract or order (see 6.1), marking shall be in accordance with MIL-STD-129.

3.3.3 Special marking.

3.3.3.1 Skids of paper. Each skid of paper shall be marked to indicate the side where the ream markers are placed.

3.3.3.2 Wood boxes. Nailed wood boxes shall be marked on the top with the legend "THIS SIDE UP"

3.4 Paper sizes not listed in tables III, IV, and V. When the contract or order specifies sizes or basis ream weights, or both, of printing or stationery paper not listed in tables III, IV, or V, as applicable, wrapping, packaging and packing shall be in accordance with the next larger size (area) and the next heavier ream weight of the same grade of paper if such requirements are not specified in the contract or order. Shipping container dimensions and liner dimensions of the next larger size or weight, or both, shall be modified for snug packing of the paper. When the specified size or ream weight exceeds the largest size or ream weight of the tables, the paper shall be prepared for delivery in accordance with the largest size or ream weight listed for the same grade of paper, except that nailed wood boxes shall be used in place of fiberboard boxes when content weights exceed 260 pounds. When paper in the form of rolls is specified, the rolls shall be snugly packed in FTC-L boxes (with liner) and top and bottom pads for content weights of 260 pounds and under, and in nailed wood boxes when content weight exceeds 260 pounds.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 Sampling for inspection. Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated herein. The sample unit shall be as specified in 4.3, 4.4.1.1 or 4.4.1.2 as applicable. The lot size shall be the number of shipping containers, skid loads or pallet loads of each stock item offered for delivery at one time. The inspection levels and acceptable quality levels shall be as specified in 4.4.1.3.

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4.2.1 Component and material inspection. In accordance with 4.1 above, components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.3 Testing of components. Testing of components described in this specification and changes in the testing of components listed in subsidiary specifications shall be as shown below. Results shall apply to the lot average unless otherwise specified in subsidiary specifications.

Component	Characteristics	Requirement	Test para.	Sample unit (inches)	No. of sample units to test
Kraft paper-----	Basis weight-----	3.1.2.1	4.5	10 x 10	10
Edge protectors-----	Thickness-----	3.2.1.1.3.1.3	4.5	2 3 x 3 panels	5

4.4 Inspection of the end item.

4.4.1 Examination of the end item. Examination of the end item shall be in accordance with the classification of defects at the inspection levels and acceptable quality levels (AQLs) set forth in 4.4.1.3.

4.4.1.1 Examination of the end item for defects in packaging, packing, and marking. (See table 1.) An examination shall be made to determine that packaging, packing, and marking as required by section 3 of this specification are complied with. The sample unit for this examination shall be one (1) shipping container, skid, or pallet (as applicable). The lot shall be expressed in units of shipping containers, skids, or pallets (as applicable).

TABLE 1. Examination for packaging, packing and marking

Examine	Defect	Category	
		Major	Minor
Package Paper	Not compactly wrapped and sealed.....	101	
	Adhesive when specified contacts paper within package...		201
	Manifold paper not in quantity of two reams.....	102	
	Blotting paper not quantity specified.....	103	
Packing Fiberboard box	Not packaged and bundled as specified.....	104	
	Not compact fit.....	105	
	Paper not packed flat.....		202
	Liner or pad missing when specified.....	106	
	Reinforcement missing when specified.....	107	
	Tape not applied evenly.....		203
	Gluing when specified not bonding continuously.....	108	
Nailed wood box Skid packing Barrier	Straps not applied as specified.....	109	
	Straps not applied as specified.....	110	
Weight Strapping	Kraft paper wrap missing.....	112	
	Paperboard sheets missing from bottom interior.....		204
	Barrier material on skid does not extend minimum eight inches beyond load.....		205
	Barrier material not folded, overwrapped and sealed as specified.....	113	
	Edge protector not size specified.....		206
	One or more edge protectors missing.....	114	
	Edge protector not material specified.....	115	
	Not center scored (when required).....		207
	Cap not positioned on top of paper over barrier.....	116	
	Gross weight exceeds that specified.....	117	
	Not size specified.....	118	
Not placed over edge protectors.....	119		
More than 4 inches from edge of face.....		208	
Less than four straps.....	120		
Strapping not sufficiently tensioned.....	121		

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TABLE I. Examination for packaging, packing and marking (con.)

Examine	Defect	Category	
		Major	Minor
Pallets	Gross weight exceeds 2,500 pounds.....	122	
	Straps not positioned as specified.....	123	
	One or more edge protectors missing.....	124	
	Strip adhesive when specified caused damage or break-away from containers.....		209
Marking	Omitted, incomplete, incorrect, illegible, of improper size, location, sequence or method of application....	125	
	Ream markers missing when specified.....	126	

4.4.1.2 Examination of shipping components for construction and condition defects. (See table II.) The sample unit for this examination shall be one (1) box, skid, cap or pallet (as applicable). The lot shall be expressed in units of applicable components.

TABLE II. Examination of shipping components for construction and condition defects

Examine	Defect	Category	
		Major	Minor
Construction			
Fiberboard box	Not type specified.....	101	
	Depth of box greater than specified.....		201
Liner	Not double-wall fiberboard.....	102	
Nailed wood box	Minimum thickness of sides, top, bottom and ends less than specified.....	103	
	Cleats less than specified size.....	104	
	Skids missing.....	105	
	Not expendable type.....	106	
Skids	Not assembled as specified.....	107	
	Dimensions less than minimum specified.....		202
	Not square.....		203
Cap	Nails more than 2 inches apart.....	108	
	Notches missing on upper face of runners or deck boards.	109	
	Deck boards not butt jointed.....		204
	Nails not in two staggered rows for fastening deck boards to face cleats.....	110	
	One or more pieces missing from outer face of cap.....	111	
Pallets	Length and width dimensions less than paper stock.....	112	
	Out of square.....		205
	Does not provide for handling with hand lift truck.....	113	
	Dimensions exceed those specified.....		206
Condition			
Fiberboard boxes	Fiberboard dirty, torn or unduly scuffed.....		207
Skids, cap or pallets	Nails protruding or not properly clinched.....	114	
	Split, damaged or broken boards.....	115	
	Knots which cause weakness in boards or in nailing.....	116	

4.4.1.3 Inspection levels and acceptable quality level (AQLs) for examination. The inspection levels for determining the sample size and the acceptable quality levels (AQLs) expressed in defects per 100 units shall be as follows:

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Examination paragraph	Inspection level	AQLs	
		Major	Total
4.4.1.1	S-2	2.5	10.0
4.4.1.2	S-2	2.5	10.0

4.5 Tests.

4.5.1 Paper and fiberboard tests. Paper and fiberboard shall be tested in accordance with the methods of Federal Test Method Std. No. 101 for the following characteristics:

Thickness	1J03
Basis weight of Paper and Paperboard	5022

4.5.2 Moisture vapor permeability test (see 3.1.1.1). The test shall be performed in accordance with TAPPI Standard 1464. The test specimen does not require conditioning before testing.

4.5.2.1 Creasing specimen for moisture vapor permeability test (see 3.1.1.1). Fold a 3 x 3 inch specimen so that the corners of the specimen diagonally coincide. Partially crease the specimen so that it can be positioned for creasing in a semi-creased condition by running the thumb and forefinger parallel to, but not touching, the folded edge. Place the partially folded specimen on the base plate of an apparatus consisting of a smooth flat base plate having hinged to it at one edge a top plate weighing 10 ± 1/4 pounds capable of matching and surfacing the base plate. Position the specimen so that the folded edge faces the hinge at the approximate center of the base plate. Lower the top plate on the specimen. After not less than 30 seconds, raise the top plate, remove the specimen and repeat the procedure to make a crease on the other side of the specimen and at right angles to the first crease.

4.5.3 Delamination and penetration (see 3.1.1.1). A 6 x 6 inch specimen shall be placed in an oven at a temperature of 140°F. After 5 hours at 140°F, the specimen shall be removed from the oven and visually examined for delamination and wax penetration to either outside surface of the laminated sheet.

5. PREPARATION FOR DELIVERY. This section is not applicable to this specification.

6. NOTES

6.1 Ordering data. Purchasers should select the preferred options permitted herein, and include the following information in procurement documents:

- (a) Title, number, and date of this specification.
- (b) Selection of applicable levels of packaging and packing (see 3.1 and 3.2).
- (c) If special packaging is required (see 3.1.1.1 and 3.1.2.1).
- (d) If quantity to be wrapped is other than one ream (see 3.1.1.2 and 3.1.2.2).
- (e) If special packing is required (see 3.2.1.1).
- (f) When skid packs or pallets are required for level A (see 3.2.1.1, 3.2.1.1.3, and 3.2.1.2.2).
- (g) When modified skid base is required (see 3.2.1.1.3.1.1).
- (n) When weather-resistant triple-wall fiberboard shall be used for edge protectors (see 3.2.1.1.3.1.3).
- (i) When a specific size pallet is required (see 3.2.1.2.2).
- (j) When skid packs or pallets are required for level B (see 3.2.2.1, 3.2.2.1.3, and 3.2.2.1.4).
- (k) When fiberboard boxes shall be other than style FTC or RSC for level B (see 3.2.2.1.1 and 3.2.2.2.1).
- (l) When weather-resistant boxes are required for level B (see 3.2.2.1.1 and 3.2.2.2.1).
- (m) If a different type of pallet is required (see 3.2.2.1.4).
- (n) When skid packing is required for stationery paper (see 3.2.2.2).
- (o) Special marking required (see 3.3.1 and 3.3.2).

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6.2 Position of packed nailed wood boxes. When nailed wood boxes are the shipping containers, the boxes should be shipped in railroad cars or trucks in the upright position with skids on the bottom.

6.3 Although table III may not require ream wrapping for some items, if wrapping of these items is desired by the ordering agency, it should be specified in the applicable procurement documents.

6.4 Definitions. Stationery papers are generally considered those sizes 8-1/2 x 15-inches and smaller. Printing papers generally are those larger than 8-1/2 x 15-inches.

MILITARY INTEREST:Custodians:

Army - GL
Navy - SA
Air Force - 84

Review activities:

Army - SM
Navy - SA
Air Force - 84

User activity:

Navy - MC

Preparing activity:

GSA-FSS

CIVIL AGENCY COORDINATING ACTIVITIES:

AGR - APS
COM - NBS
GPO
GSA - FSS
HEW - SSA
IIT - GES
JUS - FPI
VA - DMS

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TABLE III. Packaging and packing of printing papers

Nomenclature	Ream		Weight	Approximate thickness	Wrapped	Marked with marker placed length-wise	Shipping container			
	Inches	Pounds					Inches	Quantity	Approximate net weight	Type
Cardboard, railroad, JCP-Q20, 0.018 inch (UU-C-201, type II).	22 x 28	144	9	50 sheet packages	----	----	28 x 22	6 packages	88	Fiberboard
Cardboard, railroad, JCP-Q20, 0.030 inch (UU-C-201, type II).	32 x 42	314	9	50 sheet packages	----	----	42 x 32	2 packages	63	Fiberboard
Cardboard, railroad, JCP-Q20, 0.048 inch (UU-C-201, type II).	22 x 28	240	15	50 sheet packages	----	----	28 x 22	6 packages	144	Fiberboard
Cardboard, wood, JCP-Q40, sub. 75, (22-1/2 x 28-1/2 - 75/500) (UU-C-201, type III).	22 x 28	384	24	50 sheet packages	----	----	28 x 22	3 packages	115	Fiberboard
Paper, blotting, colored, sub. 100, (19 x 24 - 100/500) (UU-P-63, grade B) JCP 0-21.	28 x 44	768	24	50 sheet packages	----	----	44 x 28	2 packages	154	Fiberboard
Paper, bond, 25 percent, JCP-G40, sub. 16, (17 x 22 - 16/500) (UU-P-121, type III).	22-1/2 x 28-1/2	75	5	50 sheet packages	----	----	28-1/2 x 22-1/2	6 packages	45	Fiberboard
Paper, bond, JCP-G40, sub. 20, (17 x 22 - 20/500) (UU-P-121, type III).	19 x 24	100	----	25 sheet packages	No	No	24 x 19	5 packages	25	Fiberboard
Paper, bond, JCP-G10, sub. 20, (17 x 22 - 20/500) (UU-P-121, type IV).	24 x 38	200	----	25 sheet packages	No	No	38 x 24	5 packages	50	Fiberboard
Paper, writing, JCP-U10, sub. 16, (17 x 22 - 16/500) (UU-P-121, type V).	16 x 21	14.37	1.55	No	Yes	Yes	32 x 21	8 reams	115	Fiberboard
	17 x 22	16.00	1.55	No	Yes	Yes	34 x 22	6 reams	96	Fiberboard
	22 x 34	32.00	1.55	No	Yes	Yes	34 x 22	4 reams	128	Fiberboard
	32 x 42	51.44	1.55	No	Yes	Yes	42 x 32	2 reams	115	Fiberboard
	22 x 17	20.00	2	Yes	No	No	22 x 17	6 reams	120	Fiberboard
	32 x 42	71.87	2	Yes	No	No	42 x 32	1 ream	72	Fiberboard
Paper, bond, JCP-G10, sub. 20, (17 x 22 - 20/500) (UU-P-121, type IV).	16 x 21	17.97	2	Yes	No	No	32 x 21	6 reams	108	Fiberboard
	17 x 22	20.00	2	Yes	No	No	34 x 22	6 reams	120	Fiberboard
	22 x 34	40.00	2	Yes	No	No	34 x 22	3 reams	120	Fiberboard
	32 x 42	71.87	2	Yes	No	No	42 x 32	1 ream	72	Fiberboard
Paper, writing, JCP-U10, sub. 16, (17 x 22 - 16/500) (UU-P-121, type V).	16 x 21	14.37	1.55	Yes	No	No	32 x 21	8 reams	115	Fiberboard
	17 x 22	16.00	1.55	Yes	No	No	34 x 22	8 reams	128	Fiberboard
	22 x 34	32.00	1.55	Yes	No	No	34 x 22	4 reams	128	Fiberboard
	32 x 42	57.50	1.55	Yes	No	No	42 x 32	1 ream	58	Fiberboard
Paper, writing, JCP-U10, sub. 20, (17 x 22 - 20/500) (UU-P-121, type V).	21 x 32	35.94	2	Yes	No	No	32 x 21	3 reams	108	Fiberboard
	22 x 34	40.00	2	Yes	No	No	34 x 22	3 reams	120	Fiberboard

TABLE III. Packaging and packing printing papers (con.)

Nomenclature	Ream		Ream		Ream marked with marker placed length-wise	Approximate thickness	Shipping container		Approximate net weight	Type
	Size	Weight	Approximate thickness	Approximate inside length and width (inside of liners)			Quantity	Pounds		
Paper, cover, litho coated, JCP-L10, sub. 60 (20 x 26 - 60/500) (UU-P-196, type I).	20 x 26	60	6.16		Yes		40 x 26	4 reams	240	Nailed wood
	23 x 35	96	6.16		100 sheet packages		35 x 23	3 reams	288	Nailed wood
Paper, cover, antique finish, JCP-L20, sub. 50 (20 x 26 - 50/500) (UU-P-196, type II, class A).	16 x 21	32.31	3.85		Yes		32 x 21	4 reams	123	Fiberboard
	20 x 26	50	3.85		Yes		40 x 26	4 reams	200	Fiberboard
	26 x 40	100	3.85		200 sheet packages		40 x 26	2 packages	200	Fiberboard
	32 x 42	129.23	3.85		Yes		42 x 32	1 ream	130	Fiberboard
	34 x 44	143.85	3.85		1000 sheet packages		44 x 34	1 package	288	Fiberboard
	22 x 33	90.75	5		Yes		33 x 22	1 ream	91	Fiberboard
Paper, cover, stock, antique finish, grain long, JCP-L40 sub. 65 (20 x 26 - 65/500) (UU-P-196, type II, Class, B).	23 x 35	100.62	5		250 sheet packages		35 x 23	3 packages	151	Fiberboard
	23 x 35	100.62	5		Yes		35 x 23	1 ream	101	Fiberboard
Paper, duplicating copy, liquid process, JCP-C10, sub. 20 (17 x 22 - 20/500) (UU-P-232).	17 x 22	20	1.55		Yes		22 x 17	4 reams	81	Fiberboard
	22 x 34	40	1.55		Yes		34 x 22	3 reams	120	Fiberboard
Paper, index, JCP-K20, sub. 110 (25-1/2 x 30-1/2 - 110/500) (UU-P-258, grade B).	20-1/2 x 24-3/4	71.76	----		100 sheet packages		24-3/4 x 20-1/2	5 packages	72	Fiberboard
	25-1/2 x 30-1/2	110	----		100 sheet packages		30-1/2 x 25-1/2	5 packages	110	Fiberboard
Paper, index, JCP-K20, sub. 140 (25-1/2 x 30-1/2 - 140/500) (UU-P-258, grade B)	22-1/2 x 28-1/2	115.43	----		100 sheet packages		28-1/2 x 22-1/2	5 packages	116	Fiberboard
	21 x 32	95.04	4.25		Yes		32 x 21	1 ream	95	Fiberboard
Paper, index, JCP-K10, sub. 110 (25-1/2 x 30-1/2 - 110/500) (UU-P-258, grade C).	16 x 21	47.52	4.25		100 sheet packages		21 x 16	5 packages	48	Fiberboard
	17-1/2 x 22-1/2	55.69	4.25		100 sheet packages		22-1/2 x 17-1/2	6 packages	67	Fiberboard
	22-1/2 x 28-1/2	90.69	4.25		100 sheet packages		28-1/2 x 22-1/2	6 packages	109	Fiberboard
	22-1/2 x 35	111.38	4.25		100 sheet packages		35 x 22-1/2	6 packages	134	Fiberboard
	24 x 37-1/2	127.29	4.25		100 sheet packages		37-1/2 x 24	5 packages	128	Fiberboard

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TABLE III. Packaging and packing printing papers (con.)

Nomenclature	Ream		Size	Weight	Approximate thickness	Wrapped	Ream marked with marker placed length-wise	Approximate inside length and width (inside of liners)	Shipping container		Type
	Pounds	Inches							Quantity	Approximate net weight	
Paper, index, JCP-K10, sub. 110 (25-1/2 x 30-1/2 - 110/500) (UU-P-258, grade C).	110	4.25	25-1/2 x 30-1/2	110	4.25	100 sheet packages	----	30-1/2 x 25-1/2	6 packages	132	Fiberboard
	199.13	4.25	32 x 44	199.13	4.25	100 sheet packages	----	44 x 32	5 packages	200	Fiberboard
	211.58	4.25	34 x 44	211.58	4.25	100 sheet packages	----	44 x 34	2 packages	85	Fiberboard
Paper, index, JCP-K10, sub. 140 (25-1/2 x 30-1/2 - 140/500) (UU-P-258, grade C).	115.43	5.25	22-1/2 x 28-1/2	115.43	5.25	100 sheet packages	----	28-1/2 x 22-1/2	5 packages	115	Fiberboard
	140	5.25	25-1/2 x 30-1/2	140	5.25	100 sheet packages	----	30-1/2 x 25-1/2	5 packages	140	Fiberboard
	60.48	5.25	16 x 21	60.48	5.25	100 sheet packages	----	16 x 21	5 packages	61	Fiberboard
Paper, index, JCP-K10, sub. 170 (25-1/2 x 30-1/2 - 170/500) (UU-P-258, grade C).	241.93	5.25	32 x 42	241.93	5.25	100 sheet packages	----	42 x 32	2 packages	97	Fiberboard
	140.16	6.25	22-1/2 x 28-1/2	140.16	6.25	100 sheet packages	----	28-1/2 x 22-1/2	5 packages	140	Fiberboard
	170	6.25	25-1/2 x 30-1/2	170	6.25	100 sheet packages	----	30-1/2 x 25-1/2	5 packages	170	Fiberboard
Paper ledger, 100 percent, JCP-J30, sub. 24 (17 x 22 - 24/500) (UU-P-288, type I).	24	1.9	17 x 22	24	1.9	100 sheet packages	----	22 x 17	8 reams	192	Fiberboard
	32.00	2.7	17 x 22	32.00	2.7	Yes	----	34 x 22	8 reams	256	Fiberboard
	64.00	2.7	22 x 34	64.00	2.7	Yes	----	34 x 22	4 reams	256	Fiberboard
Paper ledger, 25 percent, JCP-J20, sub. 32 (17 x 22 - 32/500) (UU-P-288, type II).	21	2.1	17 x 22	21	2.1	Yes	----	34 x 22	8 reams	192	Fiberboard
	48	2.1	22 x 34	48	2.1	Yes	----	34 x 22	4 reams	192	Fiberboard
	32	2.7	17 x 22	32	2.7	Yes	----	34 x 22	6 reams	192	Fiberboard
Paper ledger, JCP-J10, sub. 32 (17 x 22 - 32/500) (UU-P-288, type III).	64	2.7	22 x 34	64	2.7	Yes	----	34 x 22	3 reams	192	Fiberboard

TABLE III. Packaging and packing printing papers (con.)

Nomenclature	Size	Ream		Weight	Approximate thickness	Wrapped	Marked with marked placed length-wise	Approximate inside length and width (inside of liners)	Shipping container		Type
		Pounds	Inches						Quantity	Approximate net weight	
Paper, manifold, JCP-F10, sub. 9, (17 x 22 - 9/500) (UU-P-328, type V).	16 x 21	8.10	1.05	1000 sheet packages	-----	-----	-----	32 x 21	8 packages	130	Fiberboard
	16 x 26	10.00	1.05	1000 sheet packages	-----	-----	-----	32 x 26	8 packages	160	Fiberboard
	32 x 42	32.40	1.05	1000 sheet packages	-----	-----	-----	42 x 32	3 packages	194	Fiberboard
	21 x 32	16.20	1.05	1000 sheet packages	-----	-----	-----	42 x 32	4 packages	130	Fiberboard
Paper, mimeograph, JCP-B10 sub. 20, (17 x 22 - 20/500) (UU-P-388, type III).	16 x 21	17.97	2	Yes	-----	-----	-----	21 x 16	3 reams	54	Fiberboard
Paper, book, coated, JCP-A170 sub. 50, (25 x 38 - 50/500) (UU-P-465, type I).	17 x 22	19.7	1.25	No	-----	-----	-----	34 x 22	10 reams	197	Fiberboard
Paper, book, coated, JCP-A180 sub. 70, (25 x 38 - 70/500) (UU-P-465, type I).	17 x 22	27.6	1.65	No	-----	-----	-----	34 x 22	6 reams	165	Fiberboard
Paper, book, coated, JCP-A170 sub. 60, (25 x 38 - 60/500) (UU-P-465, type I).	17 x 22	23.62	1.5	No	-----	-----	-----	34 x 22	8 reams	189	Fiberboard
Paper, book, offset, JCP-A60 sub. 40, (25 x 38 - 40/500) (UU-P-465, type I).	16 x 21	14.15	1.35	Yes	-----	-----	-----	32 x 21	12 reams	170	Fiberboard
	17 x 22	15.75	1.35	Yes	-----	-----	-----	34 x 22	12 reams	189	Fiberboard
Paper, book, offset, JCP-A60, sub. 50, (25 x 38 - 50/500) (UU-P-465, type II).	10 x 14	7.37	1.85	Yes	-----	-----	-----	20 x 14	10 reams	74	Fiberboard
	10-1/2 x 16	8.84	1.85	Yes	-----	-----	-----	16 x 10-1/2	5 reams	45	Fiberboard
	16 x 21	17.68	1.85	Yes	-----	-----	-----	32 x 21	10 reams	177	Fiberboard
	17 x 22	19.68	1.85	Yes	-----	-----	-----	34 x 22	10 reams	197	Fiberboard
	17-1/4 x 22-1/4	20.20	1.85	Yes	-----	-----	-----	34-1/2 x 22-1/4	10 reams	202	Fiberboard
	17-1/2 x 22-1/2	20.72	1.85	Yes	-----	-----	-----	35 x 22-1/2	10 reams	207	Fiberboard
	17 x 28	25.05	1.85	Yes	-----	-----	-----	34 x 28	8 reams	200	Fiberboard
	21 x 32	35.37	1.85	Yes	-----	-----	-----	32 x 21	4 reams	142	Fiberboard
	22 x 34	39.37	1.85	Yes	-----	-----	-----	34 x 22	5 reams	197	Fiberboard
	22-1/2 x 35	41.45	1.85	Yes	-----	-----	-----	35 x 22-1/2	4 reams	166	Fiberboard
	32 x 42	70.74	1.85	Yes	-----	-----	-----	42 x 32	2 reams	142	Fiberboard

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TABLE III. Packaging and packing printing papers (con.)

Nomenclature	Ream			Shipping container			Type
	Size	Weight	Approximate thickness	Ream marked with marker placed length-wise	Approximate inside length and width (inside of liners)	Quantity	
	Inches	Pounds	Inches		Inches		Pounds
Paper, book, offset, JCP-A60, sub. 60, (25 x 38 - 60/500) (UU-P-465, type II).	16 x 21 17 x 22 17-1/2 x 22-1/2	21.22 23.62 24.87	2.1 2.1 2.1	Yes Yes Yes	32 x 21 34 x 22 35 x 22-1/2	8 reams 8 reams 8 reams	170 189 199
	21 x 32 22 x 34 22-1/2 x 25-1/2	42.44 47.24 36.24	2.1 2.1 2.1	Yes Yes Yes	32 x 21 34 x 22 25-1/2 x 22-1/2	4 reams 4 reams 5 reams	189 181 199
	22-1/2 x 35 32 x 42 35 x 45	49.74 84.88 99.47	2.1 2.1 2.1	Yes Yes Yes	35 x 22-1/2 42 x 32 45 x 35	4 reams 1 ream 1 ream	199 85 100
Paper, book, offset, JCP-A60, sub. 80 (25 x 38 - 80/500) (UU-P-465, type II).	16 x 21	28.29	2.4	Yes	32 x 21	6 reams	170
Paper, book, english finish, JCP-A30, sub. 45 (25 x 38 - 45/500) (UU-P-465, type IV, class B).	16 x 22	16.67	1.35	Yes	32 x 22	10 reams	167
Paper, book, antique book, JCP-A100, sub. 70 (25 x 38 - 70/500) (UU-P-465, type IV, class D).	16 x 21	24.76	2.7	Yes	21 x 16	1 ream	25
Paper, newsprint, JCP-A10, sub. 32, (24 x 36 - 32/500) (UU-P-405).	22 x 28 32 x 42	22.8 50	1.75 1.75	Yes No	22 x 28 42 x 32	3 reams 3 reams	69 150
Pressboard, 0.025, UU-P-701, JCP-R10.	28 x 42	504	12.5	25 sheet packages	36 x 24	4 packages	101
Tagboard, Jute, JCP-P30, sub. 140, (22-1/2 x 28-1/2 - 140/500) (UU-T-1336, type I).	28-1/2 x 22-1/2 36 x 24 40 x 25	140.00 188.62 218.32	4.0 4.0 4.0	No No No	28-1/2 x 22-1/2 36 x 24 40 x 25	1 ream 1 ream 1 ream	140 189 219
Tagboard, Manila, JCP-P10, sub. 140, (24 x 36 - 140/500) (UU-T-1336, type II).	24 x 36	140	---	Yes	36 x 24	1 ream	140
Paper, U.S. postal card, sub. 94, (22-1/2 x 28-1/2 - 94/500) JCP-Q60.	16-1/2 x 44	106.4	4.5	100 sheet packages	44 x 16-1/2	5 packages	107
Paper, masking, photolithographic, coated, sub. 80 (25 x 38 - 80/500) JCP-O50, (UU-P-381).	25 x 38 38 x 50	80 160	2 2	Yes Yes	38 x 25 50 x 38	3 reams 3 reams	240 480
Paper, white, conventional, adhesive, 20 lbs, unglued, (17 x 22 - 20/500) JCP-O10.	17 x 22	20	2	Yes	34 x 22	6 reams	120

TABLE IV. Packaging and packing of stationery papers

Nomenclature	Sheet size (Inches)	Ream weight (Pounds)	Unit package quantity	Quantity	Shipping container		Approximate net weight
					Arrangement in container	Approximate size (length and width)	
Paper, Blotting, 25 percent, cotton or linen fibers, white, sub. 80, (19 x 24 - 500) (UU-P-63, grade A) JCP 0-20.	3 x 9-1/2 4 x 9-1/2	5.00 6.67	100 sheets 100 sheets	50 packages 50 packages	5 x 2 x 5 5 x 2 x 5	19 x 15 20 x 19	50 67
Paper, bond, 50 percent, sub. 16 (17 x 22 - 500) (UU-P-121, type II) JCP G-70.	8 x 10-1/2	3.59	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	36
Paper, bond, 25 percent, sub. 16, (17 x 22 - 500) (UU-P-121, type III) JCP G-40.	8 x 10-1/2	3.59	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	36
	8 x 13	4.45	1 ream	10 reams	2 x 1 x 5	16 x 13	45
	8-1/2 x 11	4.00	1 ream	10 reams	2 x 1 x 5	17 x 11	40
	8-1/2 x 14	5.09	1 ream	10 reams	2 x 1 x 5	17 x 14	51
Paper, bond, 25 percent, sub. 20, (17 x 22 - 500) (UU-P-121, type III) (JCP G-40).	8 x 10-1/2	4.49	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	45
Paper, bond, chemical wood, white, sub. 20 JCP G-10.	8 x 10-1/2	4.49	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	45
	8 x 13	5.56	1 ream	10 reams	2 x 1 x 5	16 x 13	56
	8-1/2 x 11	5.00	1 ream	10 reams	2 x 1 x 5	17 x 11	50
	8-1/2 x 13	5.91	1 ream	10 reams	2 x 1 x 5	17 x 13	59
	8-1/2 x 14	6.36	1 ream	10 reams	2 x 1 x 5	17 x 14	64
Paper, book, offset, JCP A60, sub. 40 (25 x 38 - 40/500) (UU-P-465, type II).	8 x 10-1/2	3.54	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	35
Paper, book, offset, JCP A60, sub. 50 (25 x 38 - 50/500) (UU-P-465, type II).	8 x 10-1/2	4.42	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	44
	8-1/2 x 11	4.92	1 ream	10 reams	2 x 1 x 5	17 x 11	49
	8-1/2 x 13	5.82	1 ream	10 reams	2 x 1 x 5	17 x 13	58
Paper, book, offset, JCP A60, sub. 60 (25 x 38 - 60/500) (UU-P-465, type II).	8 x 10-1/2	5.31	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	53
	8-1/2 x 11	5.91	1 ream	10 reams	2 x 1 x 5	17 x 11	59
	8-1/2 x 14	7.52	1 ream	10 reams	2 x 1 x 5	17 x 14	75
Paper, book, offset, JCP A60, sub. 80 (25 x 38 - 80/500) (UU-P-465, type II).	8 x 10-1/2	7.07	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	71
Paper, book, 50 percent antique book, (UU-P-465, type IV, class E).	8 x 13	4.38	1 ream	10 reams	2 x 1 x 5	16 x 13	44
Paper, book, antique book, JCP-A100, sub. 60 (25 x 38 - 60/500) (UU-P-465, type IV, class D).	8 x 10-1/2	5.31	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	53
Paper, writing, JCP U-10, sub. 16, (17 x 22 - 16/500) (UU-P-121, type V).	8 x 10-1/2	3.59	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	36
	8 x 13	4.45	1 ream	10 reams	2 x 1 x 5	16 x 13	45
	8 x 13-1/2	4.62	1 ream	10 reams	2 x 1 x 5	16 x 13-1/2	46
	8-1/2 x 11	4.00	1 ream	10 reams	2 x 1 x 5	17 x 11	40
	8-1/2 x 14	5.09	1 ream	10 reams	2 x 1 x 5	17 x 14	51

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TABLE IV. Packaging and packing of stationery papers (con.)

Nomenclature	Sheet size (Inches)	Ream weight (Pounds)	Unit package quantity	Quantity	Shipping container		Approximate net weight
					Arrangement in container	Approximate size (length and width)	
Paper, writing, JCP U-10, sub. 20, (17 x 22 - 20/500) (UU-P-121, type V).	8 x 10-1/2	4.49	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	45
Paper, duplicating copy, liquid process, JCP C10, sub. 20, (17 x 22 - 20/500) (UU-P-232).	8 x 10-1/2	4.49	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	45
Paper, duplicating master spirit process, sub. 60, (25 x 38 - 500) (UU-P-233).	8 x 13	5.56	1 ream	10 reams	2 x 1 x 5	16 x 13	56
	8-1/2 x 11	5.00	1 ream	10 reams	2 x 1 x 5	17 x 11	50
Paper, index, JCP K10, sub. 110 (25-1/2 x 30-1/2 - 110/500) (UU-P-258, grade C).	8-1/2 x 14	6.36	1 ream	10 reams	2 x 1 x 5	17 x 14	64
	8 x 10-1/2	5.31	1 ream	10 reams	2 x 1 x 5	16 x 10	53
Paper, manifold, 25 percent glazed white, JCP F30, sub. 8, (17 x 22 - 8/500) (UU-P-328, type VI).	8-1/2 x 11	5.91	1 ream	10 reams	2 x 1 x 5	17 x 11	59
	8 x 13	6.57	1 ream	10 reams	2 x 1 x 5	16 x 13	66
Paper, manifold, 25 percent, white, JCP F20, sub. 9, (17 x 22 - 9/500) (UU-P-328, type IV).	8 x 10-1/2	1.88	1 ream	4 reams	2 x 1 x 2	16 x 10-1/2	48
Paper, manifold, 25 percent, white, JCP F20, sub. 9, (17 x 22 - 9/500) (UU-P-328, type IV).	8 x 10-1/2	1.80	1000 sheets	10 packages	2 x 1 x 5	16 x 10-1/2	36
Paper, manifold, white and colored, chemical wood, JCP F10, sub. 9, (17 x 22 - 9/500) (UU-P-328, type V).	8 x 10-1/2	2.02	1000 sheets	10 packages	2 x 1 x 5	16 x 10-1/2	40
	8 x 13	2.50	1000 sheets	10 packages	2 x 1 x 5	16 x 13	50
Paper, mimeograph, white, 25 percent, cotton or linen JCP-B20, sub. 20, (17 x 22 - 20/500) (UU-P-388, type I).	8-1/2 x 11	2.25	1000 sheets	10 packages	2 x 1 x 5	17 x 11	45
	8-1/2 x 14	2.86	1000 sheets	10 packages	2 x 1 x 5	17 x 14	57
Paper, mimeograph, white bond, JCP-G30, sub. 20, (17 x 22 - 20/500) (UU-P-388, type II).	8 x 10-1/2	2.02	1000 sheets	10 packages	2 x 1 x 5	16 x 10-1/2	40
	8 x 13	2.50	1000 sheets	10 packages	2 x 1 x 5	16 x 13	50
Paper, mimeograph, white and colored, JCP-B10, sub. 20, (17 x 22 - 20/500) (UU-P-388, type III).	8-1/2 x 11	2.25	1000 sheets	10 packages	2 x 1 x 5	17 x 11	45
	8-1/2 x 14	2.86	1000 sheets	10 packages	2 x 1 x 5	17 x 14	57
Paper, court martial, 22 percent bond, JCP-G40, sub. 16 (17 x 22 - 16/500) (UU-P-1153).	8 x 10-1/2	4.49	1 ream	10 reams	2 x 1 x 5	16 x 10-1/2	45
	8-1/2 x 11	5.00	1 ream	10 reams	2 x 1 x 5	17 x 11	50
Paper, newspaper, JCP-A10, sub. 32 (24 x 36 - 32/500) (UU-P-405).	8-1/2 x 14	6.36	1 ream	10 reams	2 x 1 x 5	17 x 14	64
	8 x 13	4.45	1 ream	10 reams	2 x 1 x 5	16 x 13	45
	8 x 12	3.56	1 ream	10 reams	2 x 1 x 5	16 x 12	36

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TABLE V. Ream marked-packed on skids

Item	Size (inches)	Sheets per skid	Est. size of skid L.W.H. (inches)	Clearance between runners (inches)	Est. weight of skid (pounds)
Paper, bond and writing, white (Fed. Spec. UU-P-121) 25 percent rag, type III, basis 32 lbs. (17 x 22 - 1000) 7530-00-767-3649	16 x 21	90,000	48 x 42 x 59	36	2806
Same as above except basis 40 lbs. (17 x 22-1000) 7530-00-926-4880	22 x 34	20,000	44 x 34 x 55	38	1748
Chemical wood, white, type IV. basis 40 (17 x 22-1000) 7530-00-926-4881	17 x 22	60,000	51 x 44 x 46	38	2562
7530-00-926-4882	22 x 34	20,000	44 x 34 x 46	38	1708
7530-00-842-0286	32 x 42	10,000	42 x 32 x 46	36	1546
Type V, writing, basis 24 lbs. (17 x 22-1000) 7530-00-767-3535	17 x 22	90,000	51 x 44 x 54	38	2322
Same as above, except basis 32 lbs. (17 x 22-1000) 7530-00-767-3436	8 x 10-1/2	360,000	48 x 42 x 59	36	2709
7530-00-767-3457	16 x 21	90,000	48 x 42 x 59	36	2806
7530-00-767-3493	17 x 22	90,000	51 x 44 x 59	38	3096
7530-00-767-3549	21 x 32	30,000	42 x 32 x 59	36	1871
7530-00-767-3501	22 x 34	30,000	44 x 34 x 59	38	2064
7530-00-926-4872	32 x 42	15,000	42 x 32 x 59	36	1854
7530-00-926-4585	42 x 56	11,000	56 x 42 x 43	36	2752
Type V, writing, basis 40 lbs. (17 x 22-1000) 7530-00-767-3435	8 x 10-1/2	250,000	53 x 48 x 52	36	2317
7530-00-767-3526	17 x 22	60,000	51 x 44 x 52	38	2580
7530-00-767-3537	22 x 34	20,000	44 x 34 x 52	38	1720
7530-00-926-4874	22 x 34	22,000	44 x 34 x 56	38	1800
7530-00-926-4876	32 x 42	10,000	42 x 32 x 52	38	1548
7530-00-767-3550	34 x 44	10,000	44 x 34 x 52	38	1720
Paper, manifold, white (UU-P-328) Type V, chemical wood 7530-00-767-3668	22 x 34	30,000	44 x 34 x 49	38	1161
Paper, book (offset, white (UU-P-465) Type II, basis 80 lbs. (25 x 38-1000) 9310-00-061-1719	32 x 42	9,000	42 x 32 x 40	36	1148
Type II, basis 100 lbs. (25 x 38-1000) 9310-00-767-3638	8 x 10-1/2	250,000	53 x 40 x 52	34	2914
9310-00-926-1420	8-1/2 x 11	240,000	51 x 44 x 52	38	2580
9310-00-926-1422	10-1/2 x 16	120,000	48 x 42 x 52	36	2258
9310-00-782-5552	16 x 21	36,000	42 x 32 x 49	36	1363
9310-00-767-3616	16 x 21	60,000	48 x 42 x 52	36	2258
9310-00-767-3641	17 x 22	60,000	51 x 44 x 52	38	2580
9310-00-842-0290	21 x 32	12,000	42 x 32 x 32	36	960
9310-00-926-4539	21-1/2 x 32-1/4	24,000	43 x 32-1/4 x 48	38	1860
9310-00-734-3995	22 x 33	20,000	44 x 33 x 42	38	1748
9310-00-926-4512	21 x 36	20,000	42 x 36 x 42	36	1702
9310-00-767-3642	22 x 34	20,000	44 x 34 x 52	38	1720
9310-00-926-4514	22-1/2 x 25-1/2	40,000	51 x 45 x 52	38	2570
9310-00-926-4515	22-1/2 x 35	20,000	45 x 35 x 52	38	1778
9310-00-160-8212	25 x 28	10,000	50 x 28 x 28	38	850
9310-00-782-5551	32 x 42	9,000	42 x 32 x 48	36	1148
9310-00-142-6076	35 x 44	12,500	44 x 35 x 56	38	2138
9310-00-965-0359	35 x 45	10,000	45 x 35 x 52	38	1778

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TABLE V. Ream marked-packed on skids (con.)

Item	Size (inches)	Sheets per skid	Est. size of skid L.W.H. (inches)	Clearance between runners (inches)	Est. weight of skid (pounds)
Type II, basis 120 lbs. (25 x 38-1000)					
9310-00-905-9101	8 x 10-1/2	160,000	53 x 40 x 42	38	1835
9310-00-727-7091	10-1/2 x 16	80,000	42 x 32 x 52	36	1808
9310-00-782-5554	16 x 21	36,000	42 x 32 x 49	36	1638
9310-00-926-4518	22-1/2 x 26	20,000	45 x 26 x 52	38	1593
9310-00-926-4517	22-1/2 x 35	20,000	45 x 35 x 52	38	2105
9310-00-727-7116	38 x 50	9,000	50 x 38 x 49	38	2290
Paper, index, chemical wood, UU-P-258, Grade C, basis 220 lbs. (25-1/2 x 30-1/2 - 1000)					
9310-00-782-5436	16 x 21	20,000	42 x 32 x 55	36	2011
9310-00-782-5438	16 x 21	20,000	42 x 32 x 55	36	2011
9310-00-782-5439	16 x 21	20,000	42 x 32 x 55	36	2011
9310-00-926-1416	17 x 22	20,000	44 x 34 x 55	38	2279
9310-00-728-6077	21 x 32	10,000	42 x 32 x 55	36	2011
9310-00-728-6080	21 x 32	10,000	42 x 32 x 55	36	2011
9310-00-728-6087	21 x 32	10,000	42 x 32 x 55	36	2011
9310-00-728-6079	21 x 32	18,000	42 x 32 x 72	36	3532
9310-00-767-9315	22 x 34	10,000	44 x 34 x 55	38	2279
9310-00-926-4541	22-1/2 x 35	10,000	45 x 35 x 55	38	2397
9310-00-926-4542	22-1/2 x 35	10,000	45 x 35 x 55	38	2397
9310-00-926-4543	22-1/2 x 35	10,000	45 x 35 x 55	38	2397
9310-00-926-4544	22-1/2 x 35	10,000	45 x 35 x 55	38	2397
9310-00-926-4547	22-1/2 x 35	10,000	45 x 35 x 55	38	2397
9310-00-782-5435	32 x 42	5,000	42 x 32 x 55	36	2051
9310-00-782-5437	32 x 42	5,000	42 x 32 x 55	36	2051
Type C, basis 340 lbs. (25-1/2 x 30-1/2 - 1000)					
9310-00-728-7641	21 x 32	6,000	42 x 32 x 50	36	1873
Paper, ledger, chemical pulp, UU-P-288, type III, basis 48 lbs. (17 x 22 - 1000)					
7530-00-786-8956	22 x 34	20,000	44 x 34 x 54	38	2064

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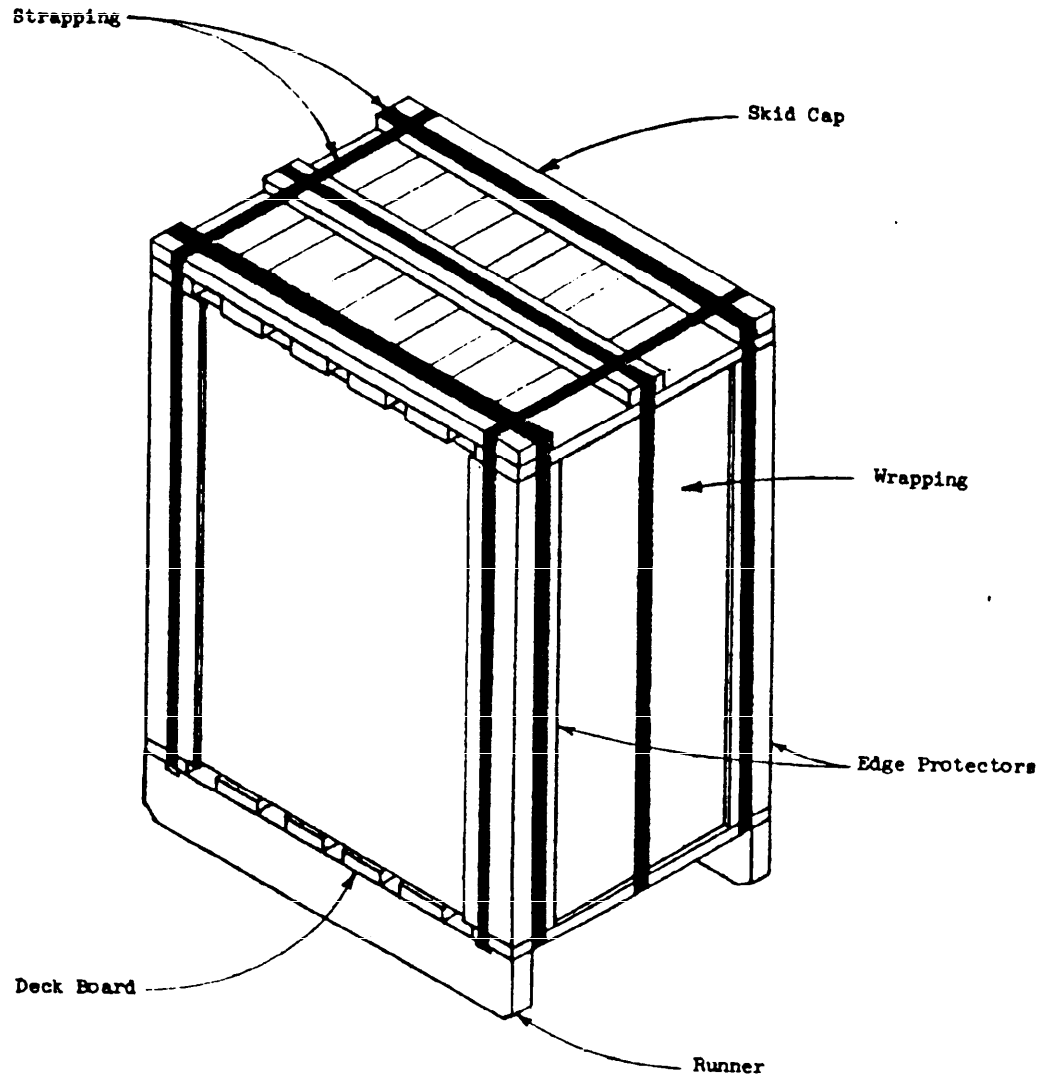
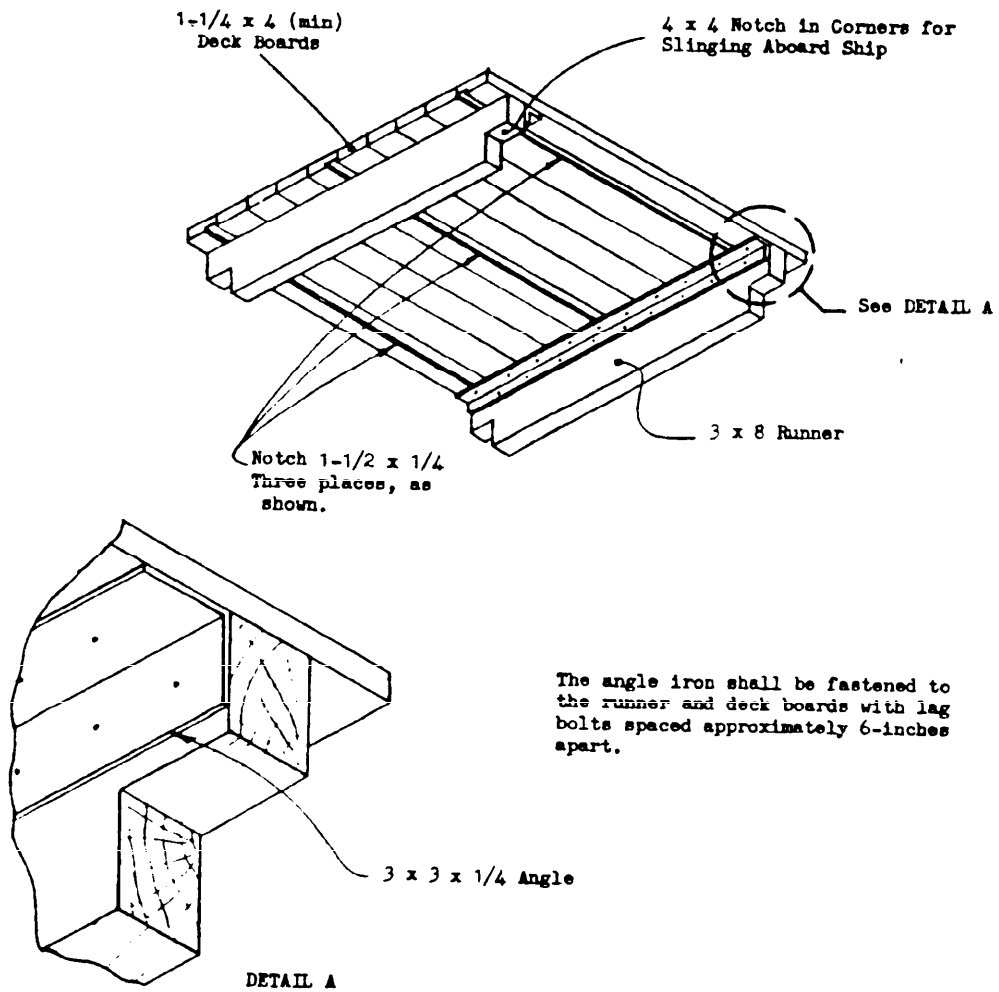


FIGURE 1. Skid Pack

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FIGURE 1A
MODIFIED SKID
(BOTTOM VIEW)
(All dimensions in inches)



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