# MIL-C-104C - Military Specification - Crates, Wood, Lumber and Plywood, Sheathed, Nailed, and Bolted

## *Subject/Scope:*

This specification covers requirements for two types and two classes of sheathed crates each of which may have two styles of bases. The crates are designed for net loads not exceeding 30,000 pounds (lb) and to withstand the most severe overseas shipping and storage conditions.

***Keywords:***
Members, crate, plywood, frame, nail, sheathing, skids, lumber, sill, panels, type, size, base, lag, nailed, member, length, load, requirements, class, joist, bolt, inspection, required, skid, headers, struts, sheathed, feet, style, thick, material, conform, specification, mil, forklift, strapping, wood, diagonal, rubbing, floorboard, construction, dimensions, types, ventilation, packaging, government, standard, barrier, anchoring, blocking, drainage, joint, shipment, military

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Text in red boxes such as this explains changes made to the document by The Wooden Crates Organization.

Red text has been added to the document or modifies the document since its final version was officially published.

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**Conversions, when made, consider materials that are available in metric or imperial sizes rather than converting sizes exactly. For example: Panelboard (plywood) in the US is typically 4 feet X 8 feet (1220 x 2440 mm) while panelboard in metric countries is typically 1200 X 2400 mm. Since the standard was developed based on readily available materials these variations in material sizes could not have been practically considered.**

This document has been converted to allow for better understand and easier navigation between documents.

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# Table of Contents

1. SCOPE 1
1.1 Scope 1
1.2 Classification 1
2. APPLICABLE DOCUMENTS 1
2.1 Government documents 1
2.1.1 Specifications, standards, and handbooks 1
2.2 Non-Government publications 2
2.3 Order of precedence 3
3. REQUIREMENTS 3
3.1 Description 3
3.2 First article (preproduction model) 3
3.3 General Requirements 3
3.3.1 Loading of crates 3
3.3.2 Weight limitations 3
3.3.3 Dimension limitations 4
3.3.4 Interior clearance 4
3.3.5 Material 4
3.3.6 Construction 5
3.4 Class 1 crates 8
3.4.1 Bases 8
3.4.2 Tops 12
3.4.3 Sides 14
3.4.4 Ends 16
3.4.5 Assembly (Class 1 crates) 16
3.5 Class 2 crates 18
3.5.1 Bases 18
3.5.2 Tops 18
3.5.3 Sides 18
3.5.4 Ends 19
3.5.5 Assembly (Class 2 crates) 19
3.6 Tolerances 20
3.7 Workmanship 20
3.8 Fire retardant 20
4. A. QUALITY ASSURANCE PROVISIONS 20
4.1 Responsibility for Inspection 20
4.1.1 Responsibility for compliance 20
4.1.2 Component and material inspection 20

4.2 Classification of inspections ..... 21
4.3 First article inspection ..... 21
4.4 Quality conformance inspection ..... 21
4.4.1 Sampling ..... 21
4.4.2 Examination ..... 21
4.4.3 Tests ..... 21
4.5 Inspection procedures ..... 21
4.5.1 Examination ..... 21
4.5.2 Tests ..... 22
4.6 Packaging inspection ..... 22
5. PACKAGING
23
5.1 Packing ..... 23
5.1.1 Level A ..... 23
5.1.2 Commercial ..... 23
5.2 Marking ..... 23
6. NOTES
23
6.1 Intended use ..... 23
6.2 Ordering data ..... 23
6.3 Preproduction model ..... 24
6.4 Sampling ..... 24
6.5 Definitions ..... 24
6.5.1 Diagonals ..... 24
6.5.2 End frame members ..... 24
6.5.3 Filler strips ..... 24
6.5.4 Frame Members ..... 24
6.5.5 Hanger-metal ..... 25
6.5.6 Headers ..... 25
6.5.7 Horizontal braces ..... 25
6.5.8 Joists ..... 25
6.5.9 Load-bearing, floorboards ..... 25
6.5.10 Rubbing strips ..... 25
6.5.11 Sheathing ..... 25
6.5.12 Side Frame members ..... 25
6.5.13 Sills ..... 25
6.5.14 Sill bridging ..... 26
6.5.15 Skids ..... 26
6.5.16 Sleepers ..... 26
6.5.17 Strap, lag screw ..... 26

6.5.18 Struts ..... 26
6.5.19 Upper and lower frame members ..... 26
6.5.20 Vertical joist supports ..... 26
6.5.21 Inside dimension ..... 26
6.5.22 Outside dimensions ..... 26
6.5.23 Cubic displacement ..... 26
6.6 Method of estimating is weight ..... 27
6.7 Crate design ..... 27
6.8 Recycled material ..... 27
6.9 Subject term (key word) listing. ..... 27
6.10 Changes from previous issue ..... 28
10. SCOPE 119
20. APPLICABLE DOCUMENTS None. 119
30. REQUIREMENTS 119
30.1 Item disassembly ..... 119
30.2 Anchoring and blocking ..... 119
30.2.1 ..... 119
30.2.2 ..... 119
30.2.3 ..... 119
30.2.4 ..... 119
30.3 Lifting attachments ..... 120
30.4 Center of balance ..... 120
30.5 Service parts ..... 120

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**30 March *1992***
**SUPERSEDING**
**MIL-C-104B**
**29January 1980**

MILITARY SPECIFICATION

# CRATES, WOOD: LUMBER AND PLYWOOD SHEATHED, NAILED, AND BOLTED

This document includes Amendment 1 – The final amendment.

*This specification is approved for use by all Departments and Agencies of the Department of Defense.*

## 1. SCOPE

### 1.1 Scope

This specification covers requirements for two types and two classes of sheathed crates each of which may have two styles of bases. The crates are designed for net loads not exceeding 30,000 pounds (lb) and to withstand the most severe overseas shipping and storage conditions.

### 1.2 Classification

Crates shall be of the following types, classes, and styles, as specified (see 6.2); these crates are available in fire retardant types, classes, and styles, when specified (see 3.8 and 6.2):

| | | |
|---|---|---|
| Type I | - | Nailed |
| Type II | - | Bolted |
| Class 1 | - | Lumber sheathed |
| Class 2 | - | Plywood sheathed |
| Style a | - | Skid base |
| Style b | - | Sill base |

## 2. APPLICABLE DOCUMENTS

### 2.1 Government documents

#### 2.1.1 Specifications, standards, and handbooks

The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5014 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.
AMSC N/A FSC 8115

DISTRIBUTION STATEMENT A: Approved for public release distribution is unlimited.

Documents are Chose listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

**SPECIFICATIONS**

**FEDERAL**

| | |
|---|---|
| FF-B-561 | Bolt, (screw), lag |
| FF-B-584 | Bolts, square Neck and tee head |
| FF-N-105 | Nail brads, staples and spikes, wire, cut and wrought |
| FF-N-836 | Nut, square, hexagon, cap slotted castle knurled, welding and single ball seat |
| FF-W-92 | Washer, flat (plain) |
| A-A-55057 | Panels, wood/wood based : construction and decorative |
| SS-R-501 | Roofing felt, asphalt prepared, smooth surfaced |
| PPP-B-1055 | Barrier material, waterproof, flexible |

**MILITARY**

| | |
|---|---|
| MIL-L-19140 | Lumber and Plywood, Fire Retardant Treated |

**STANDARDS**

**MILITARY**

| | |
|---|---|
| MIL-STD-105 | Sampling procedure and tables for Inspection by Attributes |
| MIL-STD-129 | Marketing for shipment and storage |
| MIL-STD-731 | Quality of wood members for containers and pallets |

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

## 2.2 Non-Government publications

The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of the documents not listed in the DODISS are the issues of the documents which are current on the date of the solicitation (see 6.2).

**AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)**

| | |
|---|---|
| ASTM D 4442 | Direct moisture content measurement of wood and wood base materials, standard test method for |
| ASTM D 3950 | Strapping, plastic (and seals) |
| ASTM D 3951 | Commercial packaging |
| ASTM D 3953 | Scrapping, flat steel and seals |

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

**AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI)**

ANSI/HPMA HP - Standard Specification for Hardwood and Decorative Plywood.

(Application for copies should be addressed to the Hardwood Plywood Manufacturer* Association, 1625 Michael Faraday Drive, P.O. Box 2789, Reston, VA 22090-2789.)

**U.S. DEPARTMENT OF COMMERCE**

**Product Standard**

| | |
|---|---|
| PS 1 | Softwood Plywood, Construction and Industrial. |
| PS 51 | Hardwood and Decorative Plywood. |

(Application for copies should be addressed to the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

### 2.3 Order of precedence

In the event of a conflict between the text of this document and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## 3. REQUIREMENTS

### 3.1 Description

The various types, classes, and styles or crates shall be as specified herein and as shown in figures 1 through 33.

### 3.2 First article (preproduction model)

When specified (see 6.2), the contractor shall furnish one complete crate for examination within the time frame specified (see 6.2), to prove that his production methods will produce crates that comply with the requirements of this specification. Examination shall be as specified in Section 4 and shall be subject to surveillance and approval by the Government (see 6.3).

### 3.3 General Requirements

#### 3.3.1 Loading of crates

When crates are furnished as filled containers, the extent of disassembly of the contents, and the anchoring, blocking and bracing, and applications of lifting straps shall be in accordance with the appendix to this specification.

#### 3.3.2 Weight limitations

The gross weight of crates shall not exceed 20,000 lb, whenever possible. When this limitation is not practical, gross weight of crates with skid type bases (style a) may go to 30,000 lb.

### 3.3.3 Dimension limitations

The exterior dimensions of the crate shall not exceed the following limitations, unless specified (see 6.2), for overseas shipment for which dimensions of the International Loading Gauge shall apply, figure 39.

Length - 30 feet Width - 9 feet Height - 10 feet

### 3.3.4 Interior clearance

A clearance of not less than 1 Inch shall be allowed between the item and the closest member of the sides, ends, and top of the crate. Fragile items or items within floating bag barriers shall be protected with clearances of not less than 2 inches. Additional clearances may be provided for shock mounted items. Protruding parts at the top may be allowed to extend between Joists; spacing of joists may be adjusted slightly to accommodate projections.

### 3.3.5 Material

Material shall be as specified herein. Materials not specified shall be selected by the contractor and shall be subject to all provisions of this specification (see 6.7).

#### 3.3.5.1 Lumber

Lumber components shall conform to the quality and structural classification requirements of MIL-STD-731. Sizes of all lumber specified herein shall be nominal as specified in MIL-STD-731, and shall be the minimum acceptable sizes for lumber components.

#### 3.3.5.2 Plywood

Plywood shall conform to NN-P-530, Group A or B. Softwood plywood (Group B) shall comply with PS-1, Grade C - D interior with exterior glue. Hardwood plywood (Group A) shall comply with ANSI/HPMA HP, grade 3-4, type I.

#### 3.3.5.3 Nails and staples

Nails and staples shall be steel and shall conform to FF-N-105.

#### 3.3.5.4 Bolts, nuts, and washers

Bolts shall conform to FF-B-584, Type I, Class 1, Style A. Nuts shall conform to FF-N-836, Type I or II, style 1 or 4. Washers shall conform to FF-W-92; Type A, Grade I, Class A.

##### 3.3.5.4.1 Lap bolts

Lag bolts shall conform to FF-B-561, Type I, Grade B.

#### 3.3.5.5 Strapping

Strapping shall conform to ASTM D 3953, Type 1 or 2 as applicable. Finish shall be A, B, or C.

#### 3.3.5.6 Barrier material

Barrier material, for crate liners, shall conform to PPP-B-1055, class as appropriate for crate liners.

#### 3.3.5.7 Roofing felt

Roofing felt for crate tops, shall conform to SS-R-501, 45-pound minimum weight.

### 3.3.6 Construction

#### 3.3.6.1 Nailing procedure

Nails used shall be sinkers, coolers, corkers, or common. Nail sizes specified for the fabrication of the various crates are based on Groups I and II woods. When Group III or IV woods are used, nail sizes may be one penny size smaller than those specified. The patterns to be used for the nailing of two flat pieces of lumber shall conform to the details shown in figure 1 or as specified herein. Unless otherwise specified herein, the following requirements shall determine size, placement, and quantity of nails:

a. All adjacent crate members shall be securely fastened to each other, either directly or by means of the covering.

b. All nails that are not to be clinched shall be cement-coated.

c. Nails shall be driven through the thinner member into the thicker member wherever possible.

d. Nails for fastening plywood to framing shall be clinched at least ¼ inches. Heads of nails shall always be on the plywood side.

e. When the flat faces of pieces of lumbar are nailed together and the combined thickness is 3 inches or less (except for top joists and covering material), nails shall be long enough to pass through both thicknesses and shall be clinched not less than 1/4 inch or more than 3/8 inch.

f. When the flat faces of pieces of lumber are nailed together and the combined thickness is more than 5 Inches or when the flat face of one or more pieces is nailed to the edge or end face of another, nails shall not be clinched. The portion of the nail in the thicker piece shall not be less than 2 times the length of the nail in the thinner piece for ten penny nails and smaller, and not less than 1-1/2 inches for twelve penny nails and larger.

g. When splitting occurs with the use of diamond-point nails, the nails shall be slightly blunted. When blunting does not prevent the splitting, holes slightly smaller than the diameter of the nail shall be drilled for each nail.

h. Nails shall be driven so that neither the head nor the point projects above the surface of the wood. Occasional over-driving will be permitted, but nails shall not be over-driven more than one-eighth the thickness of the piece holding the head.

i. Nails shall be positioned not less than the thickness of the piece from the end not less than one-half the thickness of the piece from the side edge of the lumber whenever possible. Nails driven into the side edge of lumber shall be centered on the side edge.

j. Nails securing plywood sheathing to frame members shall be spaced as shown in figure 32. Machine driven nails having a definite head may be used for securing plywood sheathing providing they meet size requirements specified herein.

### 3.3.6.2 Stapling

Staples may be used to fasten sheathing to frame members; they shall not be used for fabrication of bases, fastening of framing members to each other, or for assembly of crates. Staples shall have crowns of not less than 3/8 inch wide and shall have a wire diameter of not less than 0.062 inch (16 gage). Straight leg staples shall be long enough to provide a minimum 1/4-inch clinch; divergent point staples shall not be less than 1 inch long. Spacing of staples shall be the same as for nails specified herein. Staples shall always be driven from the plywood side.

### 3.3.6.2.3 Bolt application

Holes shall be pre-bored to receive carriage bolts and shall be the exact diameter of the bolt. The lead holes for lag bolts shall be the same diameter as the shank, even though the threaded portion may have a greater diameter than the shank, and shall be as shown in table I.

**TABLE I - Lag bolt lead hole sizes**

| Diameters of Threaded portion of lag bolt (inch) | Diameter of Lead Hole (inch) | |
|---|---|---|
| | Group I, II AND III Woods | Group IV Woods |
| 1/4 | 3/16 | 3/16 |
| 5/16 | 1/4 | 1/4 |
| 3/8 | 1/4 | 5/16 |
| 1/2 | 3/8 | 7/16 |
| 5/8 | 3/8 | 1/2 |
| 3/4 | 1/2 | 5/8 |

Lag bolts shall be placed by being turned In their holes The full length of the bolt and shall not be driven in with a hammer or by any similar means. If, for any reason, the thread in the wood is stripped when the lag blots are placed, the lag bolt shall be removed and placed in a new bolt near the old position. A flat washer shall be used under the head of each lag bolt and under the nut of each carriage bolt. After the nut is placed, the thread of the carriage bolt projecting beyond the nut shall be painted with a suitable metal primer or similar material.

### 3.3.6.3 Splices

Splices and butt joints made in frame members and skids of long crates shall be as shown in figure 2.

### 3.3.6.4 Inspection doors

When specified (see 6.2), one or more inspection or access doors shall be provided. Doors shall be of the size and in the location specified by the procuring agency and will be used for interim inspection or servicing of contents. Doors shall be built without cutting the frame members and shall be hinged at the top and fastened by lag screws at the sides and bottom as shown in figure 22. Cleats and stops shall be made of 1- inch material. Doors shall be made of the same type and thickness material used for sheathing. Holes shall be

provided through the door and an adjacent frame member for a seal wire and lead seal bearing the inspectors' stamp. When hinges with exposed screws are used, the hinge side of the door shall also be sealed.

**3.3.6.5 Ventilation**

All crates shall be provided with ventilating holes or slots which shall be located at each and or at ends and sides of lumber and plywood sheathed crates, or around the perimeter of plywood and lumber sheathed crates. These ventilating holes or slots shall be located immediately below the top frame member and be provided with a baffle as shown in figure 21 when slots are used in plywood sheathed crates or when holes are in clusters in lumber sheathed crates. Single holes drilled without baffles shall be sloped at 45 degrees to drain outward. Ho holes or slots shall be cut in any frame member.

**3.3.6.6.1 Class 1 crates**

Class 1 crates shall be provided with ventilating holes, 3/4 inch in diameter. The crate liner shall be removed from the ventilating area and all splinters and chips shall be removed from the holes.

**3.3.6.6.1.1 End ventilation**

Ventilating holes shall be provided. In each end in one or sore clusters, placed near the upper frame members, provided with a baffle, and spaced 2 inches on center as shown in figure 21. In small crates, holes may be located so that diagonals or struts can be utilized in part for cleats. In crates over 10 feet in length, the ventilating holes shall be divided equally between the sides and ends with a baffle provided for each group of holes. The clusters of holes shall be located as near the midpoint of the side and end as practical. The number of holes shall comply with table II.

**3.3.6.6.1.2 Perimeter ventilation**

As an alternate to end ventilation, the 3/4 inch ventilating holes may be spaced evenly around the perimeter of the crate just under the top frame member and drilled at a 45 degree angle to drain outward. The total number of holes shall comply with table II.

**3.3.6.6.2 Class 2 crates**

Class 2 crates shall be provided with a horizontal slot in each end. The ventilation slots shall be provided with baffles and screens as shown in figure 21. The required ventilating area shall comply with table II. In crates over 10 feet in length, the ventilation area shall be divided equally between the sides and ends of the crate with baffle and screen provided for each ventilating area. The ventilating area shall be placed as near the midpoints of the sides and ends as practical. In small crates, 3/4-inch-diameter holes may be substituted for the slots in the proportion of two holes for each square inch of required area.

**TABLE II. Ventilation hole requirements**

| Lumber sheathed creates | | | Plywood sheathed creates |
|---|---|---|---|
| **Volume of create (cu. Ft.)** | **End ventilation minimum number of 3/4 inch diameter holes required in each and (place in cluster and use baffle)** | **Perimeter ventilation (Alternate) Total minimum number of 3/4 inch diameter holes required around perimeter (Space evenly and slope to drain out)** | **Area required in each end (Use baffle and screen) (Sq. in.)** |
| 0 – 100 | 3 | 6 | 7 |
| 100 – 150 | 4 | 8 | 10 |
| 150 – 200 | 5 | 10 | 14 |
| 200 – 400 | 9 | 18 | 27 |
| 400 – 600 | 14 | 27 | 40 |
| 600 – 800 | 18 | 36 | 52 |
| 800 – 1000 | 22 | 44 | 66 |
| 1000 – 1200 | 27 | 54 | 80 |
| 1200 and over | 33 | 66 | 100 |

Note: In large crates, where a large ventilating area is required, two or more slots or clusters of holes may be used in panel.

## 3.4 Class 1 crates

Class 1 crates may be either bolted or nailed. Bolted crates shall be so designed that the major components of base, sides, ends, and top may be assembled to each other with lag bolts in order that the crate can be readily disassembled and, if desired, reassembled without major damage to the parts. Nailed crates are assembled with nails and straps, are not easily demountable, and because of probable damage during disassembly, are not generally reused. When specified (see 6.2), a combination of top, side, and end panels may be fabricated and assembled to each other as specified for nailed crates, and the unit fastened to the base as specified for bolted crates.

### 3.4.1 Bases

Bases shall be designed to support the weight of the crated article only when the sides and ends are fastened in place (see 6.6).

#### 3.4.1.1 Style a (skid-type)

Style a bases shall consist of longitudinal skids and rubbing strips, headers, load-bearing floorboards, and flooring as shown on figures 4 and 5. Details of construction shall be the same for bolted and nailed crates.

##### 3.4.1.1.1 Skids

Any species of wood except Group I shall be used for skids. Skids- shall be spaced no farther apart than 48 inches, center to center, across the width of the base. Minimum size shall be as shown in table III. When either the length or net load exceeds the maximum shown, the next larger skid shall be used.

**TABLE III - Allowable minimum skid sizes**

| Maximum net load (lb) | Maximum length of crate (ft.) | Nominal size of skids (in.) |
|---|---|---|
| 300 | 16 | 2x4 (flat) 1 / |
| 1000 | 12 | 2x4 (flat) 1 / |
| 2000 | 20 | 3 X 3 or 3 X 4 (flat) 2 / |
| 10000 | 32 | 4 X 4 |
| 30000 | 20 | 4 X 6 (on edge) |

1 / For nailed crates only.
2 / For crates with 2 inch thick lower frame member or 2 inch end struts.

When necessary, skids may be spliced or laminated according to the details shown in figure 2 or 3, but the use of 2- by 4-inch skids shall be limited to such lengths that no splicing would be required. Whenever possible splices shall be made not more than one-third of the length of the base from the ends of the skid and the splice locations alternated in adjacent skids. To prevent splitting, all skids shall have a carriage bolt placed crosswise and 2 to 3 inches back from each end of the skid as shown in figures 4 and 24. Bolt sizes shall comply with table IV.

**3.4.1.1.2 Rubbing strip for skids**

Rubbing strips of 3-inch thick lumber, the same width as the skids, shall be attached to the skids with two staggered rows of nails spaced 12 inches apart in each row. The nails shall be driven through the rubbing strip into the skid, shall be of such length as to penetrate a minimum of approximately 70 percent of the skid thickness, and shall not protrude through the skid. The strips shall be beveled full depth at an angle of 45 degrees at sling and forklift openings. Openings in the rubbing strips for forklift-truck access shall be 12 inches in length, 28 inches center to center, and positioned to straddle the center of balance of the loaded crate. Sling openings not less than 4 inches in length, and preferably 8 inches, shall be provided at the ends of the rubbing strip where permitted by the length of the crate and by the location of the forklift-truck access openings. No center pieces of the rubbing strips shall be less than 16 inches in length. On crates 5 feet and less in length, the forklift openings shall be omitted; end sling openings shall not be less than 6 inches long and shall serve as both forklift and sling openings.

**3.4.1.1.3 Headers**

Headers shall be placed at each end of the base and shall be bolted to each skid with one carriage bolt. Sizes of headers and bolts shall be as shown in table IV.

**3.4.1.1.4 Forklift members**

The forklift Makers shall consist of the header and two members of equal size spaced 20 and 40 inches (on center) from each end of the skids and bolted as shown in figure 4.

Where the form of the item to be crated makes it impractical to use these members, or when crates are short or narrow, 2-inch-thick lumber shall be used In the 48-inch end areas as shown In figure 5. When 2-inch lumber is used in the forklift area and intermediate skids are required because of the width of the base, the 2-inch forklift members shall be bolted to the intermediate skids. Forklift members shall be bolted to the intermediate skids. Forklift members shall be notched or set back as specified for headers in 3.4.1.1.3. If loaded containers center of balance is other than the center of the base, the space for forklift entry shall be positioned so that the center of balance is centered in between forklift openings.

**TABLE IV.- Required header sizes and carriage bolt sizes.**

| Skid size (in.) | Header size (in.) | Bolt diameter (in.) |
|---|---|---|
| 2x4 | 2x4 1/ | 3/8 |
| 3 X 3 | 3 X 3 | 3/8 |
| 3 X 4 | | |
| 4 X 4 | 4 X 4 | 1/2 |
| 4 X 6 | | |

1 / For nailed crates only in width to 48 inches. For wider crates or bolted crates, use 3 x 3.

Headers shall be of a single piece and not built up to two or more pieces to meet the dimension requirements. Headers shall be placed atop the plywood when plywood flooring is used. Headers shall be placed a distance back from the ends of the skids equal to the thickness of the end sheathing. The ends of the headers shall be notched for bases floored with lumber ends of headers for plywood floored bases shall be set back from the outside edges of the outer skids (see figures 4 and 5). The notched and set back distances shall be equal to the thickness of the lower frame Bombers of the skids.

**3.4.1.1.5 Load-bearing floorboards**

Load-bearing floorboards shall be placed where the concentrated loads of the contents occur. The cross section shall be determined from table X. The forklift members and any 1 or 2 inch flooring may be considered as load-bearing within limits of their assigned values. The ends of load-bearing floor boards shall be notched or set back from the edge of the base in the same manner as described for headers as specified in 3.4.1.1.3 (see figures 4 and 5). Load-bearing floorboards 4 inches vide shall be bolted to each skid with one carriage bolt, and load-bearing floorboards over 4 inches vide shall be bolted to each skid with two carriage bolts, and the intermediate skid where one is required. Bolt diameters shall be the same as specified in 3.4.1.1.3 for corresponding skid sizes.

**3.4.1.1.6 Lumber flooring**

Lumber floorboards shall be neither less than 1 inch thick nor less than 4 inches wide, and shall be placed at right angles to the skids. Boards shall be spaced 1/4 inch apart for drainage and the ends placed flush with the outside face of the skids. When a large area of the base is floored with 2-inch thick lumber, the use of filler strips 2 inches vide shall be used along each side over the thinner flooring to equal the thickness of the 2-inch flooring as shown in figure 5. The filler strips shall be nailed to the flooring with two staggered rows

of sixpenny nails spaced 10 inches apart. Nailing of floorboards to skids shall be as shown on figure 1 and as specified in 3.3.6.1.

#### 3.4.1.1.7 Plywood flooring

Plywood 3/8 inch in thickness may be used in place of 1-inch lumber flooring as shown in figures 4 and 5, but not as load bearing floorboards. Plywood flooring shall be laid flush with the outer edges of the skids and with the face grain perpendicular to the skid length. Headers and load-bearing floorboards shall be placed on top of the plywood and bolted to the skids after the plywood has been nailed in place. Plywood flooring shall be nailed to each skid with two rows of seven penny nails, staggered and spaced 6 inches apart in each row. A spacing of 1/4 inch shall be allowed between sheets of plywood for drainage When 1/3 to 1/2 the area of the base is floored with 2- inch boards, the plywood flooring shall be used only between these areas. Filler strips shall be nailed over the plywood as shown on figure 5, with nailing as specified in 3.4.1.1.6.

#### 3.4.1.1.8 Drainage

A drainage hole, 1/2 inch in diameter, shall be drilled adjacent to each header or load-bearing member in each outer edge of each plywood floored section of the base (a "section" being a portion of the base in which water might be trapped) (figure 4 and 5). Care shall be taken to locate the holes so that the holes villa not be covered when the contents are placed on the base of the crate

### 3.4.1.2 Style b (sill-type)

Style b bases shall be constructed as shown in figure 6. The load contained on Style b bases shall always be transmitted to the side sills by means of intermediate sills or by the article itself.

#### 3.4.1.2.1 Side and end sills

The size of the side sills shall be determined from table XI. End sills shall be of the same size as side sills. The side sills shall overlap the end sills as shown in figure 6 Sills shall be laminated as shown in figure 3, when necessary.

#### 3.4.1.2.2 Intermediate sills and load-bearing headers

Sills shall be applied crosswise of the base. The size of intermediate sills shall be determined from table XII. The weight used to determine the size of an intermediate sill shall be that amount of the load actually supported by that sill. Load-bearing headers shall be of the same size as intermediate sills. Load-bearing headers and intermediate sills will not be required when all of the load is supported by the side sills. Load-bearing headers shall be attached at their ends to intermediate sills and intermediate sills shall be attached at their ends at side sills by a combination of nailing and the use of metal strap hangers fabricated from 1-1/4 inches wide by 0.035 inch thick nail-on strapping as shown in figure 7.

#### 3.4.1.2.3 Bridging

Intermediate sills shall be bridged at the ends with 1- inch lumber and at intervals along the span not exceeding 4 feet with 2-inch lumber of the same depth as the intermediate sills (see figure 6).

#### 3.4.1.2.4 Bottom sheathing

Style b bases shall be sheathed on the bottom with lumber securely nailed to the bottom surface of the sills at right angles to the direction of the side sills. Boards shall be 4 to 10 inches wide and of not less than 1-inch material for spans of less than 30 inches between longitudinal members and of not less than 2-inch material for spans of 30 inches or more. Bottom sheathing shall be flush with the outside face of all side and end sills and be spaced 1/4 inch apart for drainage. One-inch boards shall be nailed with eight penny nails, 2-inch boards with twelve penny nails, and nailing shall be as shown in figure 1.

#### 3.4.1.2.5 Rubbing strips

Style b bases shall have rubbing strips of 3-inch thick material, the width of which shall not be less than 4 inches. The rubbing strips shall always be applied lengthwise of the base and positioned under each longitudinal member. When required intermediate rubbing strips of the same size are locate so that the clear distance between rubbing strips does not exceed 36 inches. Other requirements shall be as specified in 3.4.1.1.2.

### 3.4.2 Tops

Tops shall be double sheathed and shall be (a) narrow, widths through 34 inches; (b) intermediate, widths over 54 inches through 60 inches; (c) vide, over 60 through 120 inches in width. Plywood sheathing 1/4 inch thick, shall be attached to the lumber framing with its face grain parallel with the width of the top and its edges flush with the outside edges of the framing. All joints of the plywood sheathing shall be made over joists or other frame members. Roofing felt, or polyethylene film not less than 4 mils thick, shall non-hardening caulk or mastic shall be applied in the overlap area. Top sheathing boards not less than 4 inches wide shall be placed over the plywood sheathing and waterproof barrier and shall extend beyond the outer edges of the top framing by an amount equal to the thickness of side and end panel sheathing less 1/8 inch. Headers joining the joists together shall be 1 inch thick by the depth of the joists for intermediate and wide tops.

#### 3.4.2.1 Narrow tops

Narrow tops shall be framed on 2 x 4 inch members as shown in figure 8. Top sheathing board shall be applied parallel to the width of the top and shall be of single pieces. At plywood joints on the inside of the top, 2- x 3-inch pieces shall be used as shown in figure 8.

#### 3.4.2.2 Intermediate tops

Intermediate tops shall be framed on 2-inch joists placed flat and headers 1 inch by the thickness of the joists. The top sheathing boards shall be placed parallel to the length of the top (see figure 9). When the crate length is over 10 feet, end joints will be permitted in top sheathing boards. All joints shall be made over joists, two joints shall be adjacent to each other, and not more than one-third of the Joints shall be made over any one joist.

#### 3.4.2.3 Wide tops

Vide tops shall be constructed similar to intermediate tops except that the vide tops shall be framed in joists and headers placed on edge as shown in figure 10.

#### 3.4.2.4 Fabrication nailing

Fabrication nailing of tops shall be as shown on figures 11 and 12. All plywood members shall be nailed on at least three edges.

#### 3.4.2.5 Grabhook reinforcing joists for lifting crates

When no joists are used or when a joist does not coincide with the center of balance, a reinforcing joist shall be placed at the center of balance to distribute the load when the crate is lifted with a single set of grabhooks. Reinforcing joists shall conform to the requirements of table V.

#### 3.4.2.6 Lamination of joists

When two members are to be nailed together for joists and are 1 and 2 inches thick, respectively, they shall be nailed with seven penny nails with the nail heads in the thinner piece. When both members are 2 inches thick, twelve penny nails shall be used. Rails shall be staggered in two rows at least 1 inch from the edges, and shall be 18 inches apart in the rows.

#### 3.4.2.7 Alternate plywood sheathed top

For tops not exceeding 96 inches wide, single sheathing of 1/2-inch thick plywood nay be used in lieu of the double sheathed top Face grain of the plywood shall be parallel with the width of the top. Framing members and Joists shall be as specified for double sheathed tops. When joists do not coincide with plywood joints, a joint cover of 1- x 4-inch lumber shall be used on the inside of the top. Prior to securing the plywood to the joists or joint covers, caulking of a non-hardening type shall be applied at three places at each joint - between the plywood panels at their butt joint, and between the plywood and joint cover or joist on either side of the butt joint. The caulk shall be applied as a continuous bead and may be either performed or applied with a gun.

**TABLE V. - Reinforcing joist requirement**

| Size of single reinforcing | Gross loads not exceeding (lb) | Length of joist not exceeding (in.) |
|---|---|---|
| 2x4 | 1000 | 72 |
| 2x4 | 2000 | 60 |
| 2x4 | 3000 | 48 |
| 2x4 | 5000 | 36 |
| 4 X 4 | 10000 | 96 |
| 4 X 4 | 15000 | 72 |
| 4 X 4 | 22000 | 60 |

When the gross loads exceed 22,000 lb or where the width exceeds 96 inches for any load over 10,000 lb, two 4- by 4-inch joists shall be used; one placed approximately 2 to 3 feet each way from the center of balance, for the use of two sets of grabhooks.

### 3.4.3 Sides

#### 3.4.3.1 Number and type of panels

Sides shall be constructed as shown in figures 13, 14, and 15. In crates with style b bases, the sheathing, of sides and ends shall reach below the lower horizontal frame member a distance equal to the depth of the sills plus floor thickness, less 1/8 inch. The type of side panels shall vary with the Inside crate height as specified in table VI.

**TABLE IV. - Side panel types – class 1 creates**

| Inside height of crate (in.) | Type of panel | Reference figure No. |
|---|---|---|
| Over 24 to 60 | A | 13 |
| Over 60 to 108 | B | 14 |
| Over 108 to 144 | C | 15 |

The number of panels for each full length side shall be computed by dividing the inside crate length by the inside height, and using the nearest whole number.

#### 3.4.3.2 Member selection

The sizes of the upper and lower frame members, struts, and diagonals shall be determined from tables XIII to XXII except as otherwise specified. Loads referred to in the tables are the net loads and the dimensions are the inside measurements of the crate. The member sizes shall be based on Croup II woods. If the exact size of the crate is not given in the tables, member sizes for the crate of the next greater length and width, and the next smaller height shall be used.

##### 3.4.3.2.1 Upper and lower frame members

Except where vertical joist supports are required, upper frame members for crates over 54 inches wide shall always be 2 inches thick and a minimum of 2 by 4 inches in size. Splicing of upper or lower frame members shall be done over or under a strut and shall be as shown in figure 2.

##### 3.4.3.2.2 Vertical struts.

Vertical struts shall be continuous from the lower frame member to the upper frame member and the diagonal and horizontal braces shall be cut in between. The end struts shall be as shown in table VII.

**TABLE VII. - End strut requirements.**

| | Nominal size of end struts | |
|---|---|---|
| **Net load (lb)** | **Bolted crate (in.)** | **Nailed crate (in.)** |
| 1000 or under | 2x4 | 2X 4 |
| Over 1000 but under 5000 | 3 X 3 | 2x4 |
| 5000 and over | 4 X 4 | 2x4 |

#### 3.4.3.2.3 Horizontal braces

Horizontal braces for Types B and C panels (figures 14 and 15) shall be the same thickness as the struts and 4 Inches wide.

#### 3.4.3.2.4 Diagonals

Size of diagonals shall be as specified in the Member selection tables XIII to XXII and shall be located as shown in figures 13, 14, and IS. When frame members are 1 inch thick, gusset plates shall be cut from 1/4-inch plywood and shall be 12 inches minimum, in the shortest dimension. The corners shall coincide with the center line of the diagonals as shown in figure 16.

#### 3.4.3.2.5 Joist supports

The upper frame members shall serve as supports for tops. When crates are 6 feet wide and 12 feet high or 8 feet wide and 10 feet high (tables XIII to XXII) and when the struts are 1 inch thick, vertical joist supports shall be provided as shown in figure 16. These shall consist of 2- by 4-inch members placed on and nailed to the frame members of the side and extending under each interior joist to the floor.

### 3.4.3.3 Liners

A crate liner shall toe applied between the sheathing and frame members of sides and ends of all lumber-sheathed crates and shall conform to the crate liners specified in PPP-B-1055. The paper shall be placed horizontally as unrolled, with a 4-inch minimum shingle lap applied for proper drainage and shall cover the entire framed area. Vertical joints, when required, shall have a minimum 4-inch lap and shall be located at a vertical member.

### 3.4.3.4 Sheathing

Sheathing for the side and end panels of crates shall be applied vertically, shall extend to the bottom of the skids on side panels and to the tops of skids on the end panels of skid type base crates. Sheathing shall extend to the bottom of sills on sill-type base crates. Sheathing shall be either tongue-and-groove or square and shall be 1 inch thick. At least one side of all boards shall be dressed and the dressed side placed outward. No boards shall be less than 4 inches in width. End boards shall be not less than 6 inches wide and preferably wider. No more than 10 percent of the boards (not more than one out of 10 boards) shall be of the minimum width, nor shall the narrow boards be adjacent to each other. Short boards, not less than 2 feet in length, may be used under the following conditions (figure 17): (1) boards shall be cut at right angles, (2) the center of a short sheathing board shall be at the approximate center of the width of a diagonal and shall have full coverage by the diagonal, or shall be joined on a horizontal member, (3) at least every second board and all end boards shall be full length, and (4) nailing shall be as shown in figure 17.

### 3.4.3.5 Fabrication nailing

Nails securing sheathing to framing up to and including 2 inch thickness shall be driven through the sheathing and shall be of such length as to permit a minimum of 1/4-inch clinch on the framing. For nailing sheathing to horizontal and diagonal frame members 4 to 6 inches wide, three rows of nails shall be used. There shall be a minimum of three nails per crossing in sheathing boards 4 to 6 inches wide and a minimum of four nails in wider boards (figure 17). For nailing sheathing to horizontal and diagonal frame members over 6 inches wide, four rows of nails shall be used. There shall be a minimum of four nails per

crossing in sheathing boards 4 to 8 inches wide and a minimum of five nails in wider boards (figure 17). For nailing sheathing to struts 4 to 6 Inches wide, two rows of nails shall be used. The nails shall be spaced approximately 8 inches apart in each row and staggered. For wider struts use three rows of nails. The nails shall be spaced approximately 12 inches apart and staggered (figure 17). Nail spacing at vertical butt joints shall be as shown in figure 17. Gusset plates shall be secured with seven penny nails driven through and clinched on the sheathing. Nailing shall be shown in figure 16. Vertical joist supports shall be secured with two ten penny nails at each horizontal frame member crossing and one ten penny nail at each diagonal crossing as shown in figure 16. Where vertical joists coincide with struts, there shall be two rows of nails on 30-inch centers.

#### 3.4.3.6 Lag screw reinforcing strap for bolted crates

Reinforcing strap shall be used on side and end panels of all demountable crates as shown in figures 13, 14, 15, and 18. Galvanized steel strap, punched or drilled, 1-1/4 inches by 0.035 inch for 3/8-inch lag screws, and 2 Inches by 0.050 inch for ½ and 5/8-inch lag screws, shall be nailed to the inner face of the sheathing between the lower edge of the bottom frame member and the bottom of the sheathing as shown in figure 18. The strap shall be located to coincide with the center of the skid or header and shall be nailed on maximum 2-Inch centers to the sheathing with clout or similar nails. Rails shall be clinched at least 3/8 Inch.

### 3.4.4 Ends

End types and size of members for ends In crates over 30 Inches wide shall be determined in a manner similar to the sides, except that in all cases the thickness of the upper and lower frame members shall be the same as the struts specified in table XIII to XXII. The member arrangement shall conform, to the details shown in figure 19. For crates less than 30 inches wide, single diagonals only are required and all frame members shall be 1 by 4 inches in size as shown in figure 20

### 3.4.5 Assembly (Class 1 crates)

#### 3.4.5.1 Bolted crate

#### 3.4.5.1.1 General

Type II (bolted) crates shall be assembled with lag bolts (see 3.3.5.4.1). Lead holes shall be used for lag bolts.

#### 3.4.5.1.2 Fastening sides to base

The sides shall be secured to the skids with lag bolts. For 3- by 3-inch or 3- by 4-inch skids, 3/8 inch diameter by 3- inch long lag bolts shall be used; for 4- by 4-inch skids, 1/2 inch diameter by 4-inch long lag bolts shall be used; and for 4- by 6-inch skids, 5/8 inch diameter by 4-inch long lag bolts shall be used. The number of lag bolts shall be as specified in table XXIII. One-half the number shall be used on each side and the spacing shall be uniform along the skid. Maximum spacing shall be 16 inches for 3/8-inch lag bolts and 20 Inches for 1/2-inch lag belts. Lead holes shall conform to 3.3.6.3 in size and shall be drilled in line with and through the center of the metal reinforcing strap, as well as through the sheathing and into the skid. Assembly and placement details shall be as shown on figures 23 and 24.

#### 3.4.5.1.3 Fastening sides to top

Lag bolts, 3/8 inch diameter by 3-1/2 Inches long, shall be used to fasten the sides to the top. These lag bolts shall be placed so that there is one in the end of each joist at the approximate center (figure 25). For tops without joists, lag bolts shall be placed at the approximate center of the side frame member of the top and spaced no greater than 24 inches apart.

**3.4.5.1.4 Fastening ends to top, sides, and base.**

Lag bolts for fastening ends to tops shall be 3/8 inch In diameter by 2-1/2 inches long; Lag bolts for fastening ends to sides shall be 3/8 inch diameter by 3-1/2 inches long. Placement and other assembly details shall be as shown in figures 23 and 25. Lag bolts for fastening ends to base shall be the same size as specified in 3.4.5.1.2. Location and spacing shall be as shown in figures 23 and 24. Lead holes shall be centered on the reinforcing strap.

**3.4.5.2 Nailed crate**

**3.4.5.2.1 General**

Type I crates shall be assembled with nails and metal straps. General rules for crate assembly shall be as shown in table XXIV and figures 26 and 27.

**3.4.5.2.2 Fastening sides and ends to base**

Sides and ends shall be nailed to the skids and headers with cement-coated nails (figure 26). Two rows of nails shall be used for 2- by 4-inch, 3- by 3-inch, 3- by 4-inch, and 4- by 4-inch skids or headers and for style b bases. The number of nails required for the perimeter of the crate shall be as shown in table XXV, and based on the gross load. Nail spacing shall be no greater than 6 inches in each row, and no less than two nails shall be used in each sheathing board.

**3.4.5.2.3 Fastening ends to sides and aides to ends**

The end panels shall be nailed to the side panels with twenty penny cement-coated nails spaced 12 inches apart as shown in table XXIV and figure 26. The nails shall pass through the sheathing and the edge struts of the ends into the edge of the corner struts of the sides. Pre-drilling shall be used for these nails to prevent splitting and the bit for drilling shall be approximately 75 percent of the diameter of the nail shank. The edge sheathing boards of the side panels shall be nailed to the edge struts of the ends with eight penny cement-coated nails spaced 6 to 8 inches apart. (figure 26).

**3.4.5.2.4 Fastening top to sides and ends**

Tops shall be fastened to sides and ends with corner reinforcing straps and tensioned straps with anchor plates as shown in figure 27. Corner straps shall be of such length as to allow nailing into framing of sides and ends.

**3.4.5.2.5 Strapping**

Strapping shall be used as shown in figure 27 on all bolted crates with net loads over 3,000 lb and for all nailed crates. Tensioned metal strapping and corner straps shall conform to ASTM D-3953, Type 1 or 3, Zinc-Coated finish, Grade 2, not less than 3/4 inch wide by 0.026 inch thick. Corner strapping shall be pre punched or drilled. In addition, on crates with Style b bases, corner reinforcing straps shall be applied at the bottom corners * shown in figure 28. Nails shall be 1-1/4 to 1-1/2-inch galvanized roofing nails. A minimum of three

nails shall be used for each strap leg and strapping shall be located so that nailing is in a frame member.

## 3.5 Class 2 crates

Class 2 crates shall be Type I or II as specified and shall have the same use limitations as described for lumber-sheathed in 3.4.

### 3.5.1 Bases

The construction of bases shall conform to bases of Class 1 crates as specified in 3.4.1. Details of construction shall be as shown in figures 4, 5, 6, and 7.

### 3.5.2 Tops

The construction of tops for Class 2 crates is identical to that described for Class 1 tops in 3.4.2. Details of construction shall be as shown in figures 8, 9, 10, 11, and 12.

### 3.5.3 Sides

#### 3.5.3.1 Number and type of panels

Types of panels for various heights and corresponding illustrative figure numbers shall be as shown in table VIII.

**TABLE VIII. - Side panel types – class 2 creates**

| Inside height of crate (in.) | Type of panel | Reference figure No. |
|---|---|---|
| Over 24 to 60 | A | 29 |
| Over 60 to 96 | B | 30 |
| Over 96 to 144 | C | 31 |

Type B panels include a horizontal brace and Type C panels have two horizontal braces. These shall be located so as to equally divide the space between upper and lower frame members. For all types of side panels, struts shall be spaced 24 inches on centers except at one or both ends so that 48-inch-wide plywood can be utilized with a minimum of waste Sides shall be constructed as shown in figures 29, 30, and 31 In crates with Style b bases, the sheathing of sides and ends shall reach below the horizontal frame member a distance equal to the depth of the sills.

#### 3.5.3.2 Member selection

The sizes of the upper and lower frame members and struts shall be determined from tables XIII to XXII, except as otherwise specified. Loads referred to in the tables shall be the net loads and the dimensions shall be the inside measurements of the crate. The member sizes shall be based on Group II woods. If the exact size of the crate is not given in the tables, member sizes for the crate of the next greater length and width, and the smaller height, shall be used.

##### 3.5.3.2.1 Upper and lower frame members

The requirements for upper and lower frame members shall comply with those described for lumber-sheathed side panels in 3.4.3.2.1 and listed by size in tables XIII to XXII.

#### 3.5.3.2.2 Vertical struts

The requirements for struts shall comply with those described for lumber-sheathed side panels in 3.4.3.2.2 and listed by sizes in tables XIII to XXII.

#### 3.5.3.2.3 Diagonals

No diagonals are required for Class 2 crates.

#### 3.5.3.2.4 Joist supports

[PARAGRAPH MISSING]The Joist supports shall comply with those described for class 1 side panels in 3.4.3.2.9.

### 3.5.3.3 Liners

No liners are required for Class 2 crates.

### 3.5.3.4 Sheathing

Plywood sheathing shall be 3/8 inch thick for net loads up to 10,000 lb, and 1/2 inch for net loads over 10,000 lb, and shall be applied so that the face grain is vertical Face grain may be horizontal for crates 4 feet or less in height. Vertical Joints in plywood sheathing shall be made over the center of a strut. Horizontal joints in plywood sheathing shall not be permitted in type A side panels, are not desirable but permitted in Type B panels, and shall be permitted in Type C panels. All horizontal joints shall be made over the center of a horizontal brace.

### 3.5.3.5 Fabrication nailing

Nailing plywood sheathing to frame members of various widths shall be as shown in figure 32. For all fabrication, nails shall be driven through the plywood and clinched a minimum of 1/4 inch. Nailing vertical joist supports shall be as described in 3.4.2.5 except that nine penny nails shall be used (see figure 16). Staples may be used to fasten plywood sheathing to framing members; application shall be in accordance with 3.3.6.2.

### 3.5.3.6 Lag-screw reinforcing strap for bolted crates

Reinforcing strap shall be used on side and end panels of all bolted crates as shown in figures 29, 30, and 31. Construction details shall be as specified in 3.4.3.6 and as shown in figure 18.

## 3.5.4 Ends

Panel types and sizes of members for ends shall be determined in a manner similar to the sides, except that in all cases, the thickness of the upper and lower frame members shall be the same as the struts specified in table XIII to XXII. The member arrangement shall be as shown in figure 33. Fabrication shall be as shown on figure 32.

## 3.5.5 Assembly (Class 2 crates)

### 3.5.5.1 Bolted-crate assembly

The assembly of plywood-sheathed bolted crates shall comply with the details specified for Class 1 crates in 3.4.5.1 and as shown in figures 23, 24, and 25.

#### 3.5.5.2 Nailed-crate Assembly

The assembly of plywood-sheathed nailed crates shall comply with the details specified for Class 1 crates in 3.4.5.2 and as shown in figures 26 and 27, except for size of nails which shall be as specified in table XXIV.

#### 3.5.5.3 Reinforcing straps

The Reinforcing straps shall be as specified for Class 1 crates in 3.4 5.3 and as shown in figures 27 and 28.

### 3.6 Tolerances

A tolerance of plus or minus 1/8 inch Is allowable on the overall length and width of individual completed crate panels. Out-of-square deviation of individual panels shall be not more than 3/16 inch (3/8 inch difference in diagonals).

### 3.7 Workmanship

Crate panels shall be clean and free of slivers and protruding fastener points. Crate panels shall be square and free of cracks, splits, or other damage which would prevent easy and correct assembly and adversely affect the performance of assembled crates.

### 3.8 Fire retardant

When specified, (see'6.2) all lumber and plywood shall be treated in accordance with MIL-L-19140. Special markings shall be used to indicate the lumber and plywood have been treated with non-leachable fire retardant materials.

## 4. A. QUALITY ASSURANCE PROVISIONS

### 4.1 Responsibility for Inspection

Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor 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 supplies and services conform to prescribed requirements.

#### 4.1.1 Responsibility for compliance

All items must meet all requirements of sections 3 and S. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

#### 4.1.2 Component and material inspection

Components and materials shall be inspected in accordance with all the requirements specified herein and in applicable referenced documents.

## 4.2 Classification of inspections

The Inspection requirements specified herein are classified as follows:

a. First article inspection (see 4.3).
b. Quality conformance inspection (see 4.4).
c. Inspection of packaging (see 4.6).

## 4.3 First article inspection

The first article inspection shall be performed on crates when a first article is required (see 3.2 and 6.2). This inspection shall include the examination of 4.5.1 and the tests of 4.5.2. The first article may be either a first production item or a standard production item from the supplier's current inventory provided the item meets the requirements of the specification and is representative of the design, construction, and manufacturing technique applicable to the remaining items to be furnished under the contract. The presence of one or more defects when examined or the failure of any test shall be cause for rejection.

## 4.4 Quality conformance inspection

The quality conformance inspection shall include the examination of 4.5.1, the tests of 4 5.2, and the packaging inspection of 4.6. This inspection shall be performed on the samples selected in accordance with 4.3.

### 4.4.1 Sampling

Sampling and inspection procedures shall be in accordance with MIL-STD-105. The unit of product shall be one crate. All crates of the same type, class, and style offered for delivery at one time shall be considered a lot for the purpose of inspection (see 6.4).

### 4.4.2 Examination

Each crate shall be examined for compliance with the requirements specified in section 3 and 4.5.1 of this specification. Any redesign or modification of the contractor's standard product to comply with specified requirements, or any necessary redesign or modification following failure to meet specified requirements shall receive particular attention for adequacy and suitability. The element of inspection shall encompass all visual examinations and dimensional measurements. Noncompliance with any specified requirements or presence of one or more defects preventing or lessening maximum efficiency shall constitute cause for rejection.

### 4.4.3 Tests

The first article shall be tested as specified in 4.5.2. Each production unit shall be tested as specified in 4.5.2. Failure to pass any test shall constitute cause for rejection.

## 4.5 Inspection procedures

### 4.5.1 Examination

The crate, or the unassembled components to make a complete crate, as applicable, shall be examined for the following major defects:

**101.** Crate not of type, class, or style specified.

**102.** Crate not of proper size.

**103.** Crate panels not square within specified tolerances.

**104.** Nails and staples of improper size.

**105** Nails and staples not clinched when specified.

**106.** Carriage and lag bolts of improper size.

**107.** Quality of wood components not in accordance with MIL-STD-731.

**108.** Frame members not of sizes specified.

**109.** Skids and rubbing strips not of specified sizes

**110.** Skids not located as specified.

**111.** Headers not of single piece.

**112.** Headers and load-bearing floorboards not secured with carriage bolts as specified.

**113.** Plywood not of type specified.

**114.** Crate panels not fabricated as specified.

**115.** Waterproof barrier in top missing.

**116.** Ventilation provisions not as specified.

**117.** Forklift truck openings of improper size.

**118.** Lag bolt reinforcing strap missing on Type 11 crates.

**119.** Unassembled crate not bundled and strapped as specified.

**120.** Crate components missing from bundle.

**121**. Marking incorrect, illegible, or missing.

**122.** Lumber and plywood not marked as fire retardant

#### 4.5.2 Tests

##### 4.5.2.1 Moisture content

Moisture content shall be determined using the electric-moisture meter method of ASTM D 2016. A minimum of six readings, at least one reading on a frame member of each crate panel, shall be taken. The average of the six readings shall meet the requirements of 3.3.5.1.

##### 4.5.2.2 Assembly test

A crate shall be completely assembled to insure achievement of a container which can be properly and easily assembled which is square, and is of the proper size.

### 4.6 Packaging inspection

The packaging and marking of the item shall be in accordance with the requirements of 4.4, 4.5.1 and section 5 of this specification. The inspection shall consist of the quality conformance; and, when specified (see 6.2), a preproduction pack shall be furnished for examination and test within the time frame required (see 6.2).

# 5. PACKAGING

## 5.1 Packing

Packing shall be level A or Commercial (see 6.2).

### 5.1.1 Level A

Crates shall be unassembled with the base, sides, ends, and top secured together to form a single bundle. The bundle shall be secured with at least two straps conforming to ASTM D 3953, Type 1 or 2, Zinc-Coated, Grade 2, and having a minimum size of 5/8 by 0.020 inches. The strapping shall be located one-sixth the length of the bundle from each end; intermediate straps shall be used when the distance between straps exceeds 60 inches.

### 5.1.2 Commercial

Crates shall be shipped either assembled or unassembled (see 6.2) and bundled in accordance with the requirement in ASTM 0 3951. When crates are shipped unassembled, they should be secured as a bundle as specified in 5.1.1 for level A except that the strapping may comply with ASTM D 3950.

## 5.2 Marking

Marking for shipment and storage shall be accordance with the requirements of MIL-STD-129.

# 6. NOTES

## 6.1 Intended use

The crates described by this specification are intended to protect items from atmospheric elements during both domestic and overseas shipment. They are designed to withstand the rough handling expected during military logistic operations including stacking and outside storage for a prolonged period. Class 1 and 2 crates may be used interchangeably as desired; however, when weight is a prime consideration, the Class 2 crate should be used as the lack of diagonals and thinner plywood sheathing results in a lighter crate. Demountable crates, Type II, should be used whenever it is expected that the contained Item will require reshipping to another destination. Sill bases, Style b, are intended for items which project below their mounting points, such as disassembled vehicles. Fire retardant lumber and plywood is intended to reduce the risks and hazards of fire aboard Navy Ships and to improve fleet readiness by reducing loses due to fire destruction in compliance with the Navy Passive Fire Protection Program.

## 6.2 Ordering data

Procurement documents should specify the following:

- **a.** Title, number, date of this specification.
- **b.** Type, Class, and Style of crate required (1.2).
- **c.** Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (2.1.1 and 2.2).
- **d.** When a first article is required (3.2).'
- **e.** Time frame required for submission of first article (3.2).

**f.** When dimensions must conform to the International Loading Gauge (3.3.3).

**g.** When inspection doors are required (3.3.6.5).

**h.** When tip, sides, and ends shall be assembled with nails and the entire assembly bolted to the base (3.4). b

**i.** When lumber or plywood is to be treated with fire retardant In accordance with MIL-L-19140 (3.8).

**j.** When service parts shall be preserved in accordance with MIL-S-196(Appendix 30.5).

**k.** Level of packaging required (5.1).

**l.** When a packaging preproduction pack is required (4.6).

**m.** Time frame required for submission of packaging preproduction pack (4.6).

**n.** If crates are to be shipped assembled or unassembled (5.1.2).

## 6.3 Preproduction model

Any changes or deviations of production crates from the approved preproduction model during production will be subject to the approval of the contracting officer. Approval of the preproduction model will not relieve the contractor of his obligation to furnish crates conforming to this specification (see 3.2).

## 6.4 Sampling

Recommended Inspection Level is II and Acceptable Quality Level is S-2 (see 4.4.1).

## 6.5 Definitions

The component parts of crates discussed herein were selected on the basis of the function of the part. Alternate names are sometimes given *as* being the names often applied by industry.

### 6.5.1 Diagonals

Diagonals are frame members positioned between parallel frame members and placed at angles of nearly 45 degrees to them. Diagonals serve as braces and insure rigidity in the crate.

### 6.5.2 End frame members

End frame members are similar to side frame members but perpendicular to the long dimension.

### 6.5.3 Filler strips

Filler strips are boards placed across the ends of thin, non load-bearing floorboards which serve to fill the space below the lower frame member of the sides.

### 6.5.4 Frame Members

Frame members are those parts which form the fundamental structure of the crate upon which the strength and rigidity of a lumber-sheathed crate depends.

### 6.5.5 Hanger-metal

Hanger-metal is a metal nailed strap used to aid in support of intermediate sill in sill-type base.

### 6.5.6 Headers

Headers either transverse members at each and of skid bases or longitudinal members at each end of top joists. Headers in bases serve to hold the base together as a unit, to transfer loads to outside skids, and to provide a fastening member for end panels. Headers in top panels serve to position and support joists and to provide a fastening member for side panels.

### 6.5.7 Horizontal braces

Horizontal braces are members positioned between struts and parallel to the upper and lower frame members and serve to reduce the unsupported span of the sheathing.

### 6.5.8 Joists

Joists are members extending across the crate underneath the top which serve to support and transfer vertical stacking loads to the side panels. Joists also serve to prevent crushing or buckling of tops when slings or grab hooks are used.22

### 6.5.9 Load-bearing, floorboards

Load-bearing floorboard are transverse members of bases which serve «o distribute and transfer loads Co the outside skids.

### 6.5.10 Rubbing strips

Rubbing strips are longitudinal members nailed to the bottom of skids to provide for sling and forklift truck handling.

### 6.5.11 Sheathing

Sheathing is the plywood or boards nailed to the frame members and enclosing the crate. Usually that used on the top panels is called top sheathing; that used on the side or and panels is called side or and sheathing; that nailed to the top of skids is called flooring; and that nailed to the bottom of sills is called bottom sheathing.

### 6.5.12 Side Frame members

Side frame members are the members of top without joist which are parallel to the long dimension and serve as fastening members and to tie the construction together.

### 6.5.13 Sills

Sills are the members, which with sill bridging, form the frame work of sill-type bases. Sills carry and transfer loads to side panels and serve as fastening members. There are side sills, end sills, and intermediate sills.

**6.5.14 Sill bridging**

Sill bridging are members of the same depth as the sills, which are inserted at right angles to the intermediate sills and serve to prevent lateral turning or buckling of sills.

**6.5.15 Skids**

Skids are longitudinal members attached to the bottom of the crate which serve to support and transfer the load to the side panels.

**6.5.16 Sleepers**

Sleepers are members underneath the floor of skid-type bases to which the item is anchored (through the floor) so that the tie-down stress will be distributed.

**6.5.17 Strap, lag screw**

Strap, lag screw is a metal reinforcing strap used on sides and ends of bolted crates to reinforce and increase lateral resistance of lag screws.

**6.5.18 Struts**

Struts are vertical frame members, placed between the upper and lower frame members of the side and end panels and serve as columns for supporting vertical stacking loads. The end struts are sometimes referred to as corner pests.

**6.5.19 Upper and lower frame members**

Upper and lower frame members are those horizontal members at the top and bottom of the side and end panels which serve to tie the construction together.

**6.5.20 Vertical joist supports**

Vertical Joist supports are vertical members attached to the inside face of the sides of crates which serve to support the joists and assist the struts in supporting vertical stacking loads.

**6.5.21 Inside dimension**

Inside length or width of a crate is the distance between inner surfaces of opposite struts. Inside height is the distance between floorboards of skid bases or top of sills of sill bases and the underside of top joists or framing members.

**6.5.22 Outside dimensions**

Outside dimensions are the overall length, width, and height of the crate or its contents, whichever is greater. Actual dimensions, except in designing, are corrected whole inches, any fraction less than 1/2 inch being disregarded, and any fraction of 1/2 inch or greater being considered a full inch.

**6.5.23 Cubic displacement**

Cubic displacement of a crate is calculated from the outside dimensions in inches and is stated in cubic feet.

## 6.6 Method of estimating is weight

The approximate tare weight of either a lumber-sheathed or plywood-sheathed crate may be estimated as follows and as indicated in table IX.

Estimate the length, width, and height of the crate to the nearest 1/2 foot. Compute the total area of sides, ends, top, and base - A. Multiply crate width by crate height - S.

**TABLE IX. - Tare weight estimating factors.**

| S (sq. ft ) | Wight of create (lb.) | | | |
|---|---|---|---|---|
| | 1- inch lumber sheathing and 2- inch framing | 1- inch lumber sheathing and 1- inch framing | 3/8 – inch plywood sheathing and 2 – inch framing members | 3/8 – inch plywood sheathing and 1 – inch framing members |
| Less then 20 | A X 4.0 | A X 3.6 | A X 3.2 | A X 2.9 |
| 20 and over but less then 40 | A X 5.0 | A X 4.5 | A X 4.0 | A X 3.6 |
| 40 and over but less then 70 | A X 6.0 | A X 5.4 | A X 4.8 | A X 4.3 |
| 70 and over | A X 7.0 | A X 6.3 | A X 5.6 | A X 5.0 |

All of the above weights are based on lumber weighing 2,290 lb per 1,000 nominal board feet. For any other wood weight, the tare weights obtained should be increased or decreased in the same proportion that the wood weight is increased or decreased.

## 6.7 Crate design

The engineering design or crate includes consideration of normal handling stresses imposed on the loaded crate by forklift trucks, slings, or grab hooks as well as stresses on members and assembly fastenings encountered by drops. The tops have been designed for a superimposed load of 50 lb per square foot. The sides have been designed for a top load, with dunnage, of 200 lb per square foot for net loads of 10,000 lb, and 400 lb per square foot for loads over 10,000 lb. The skids of the base have been considered as part of the lower frame member of the side in the engineering analysis. This analysis allows the use of smaller skids thereby saving cube and material, but prevents the handling of a loaded crate without the sides and ends in place.

## 6.8 Recycled material

It is encouraged chat recycled material be used when practical as long as it meets the requirements of the specification (see 3.3.5).

## 6.9 Subject term (key word) listing.

Crates
Sheathing
Sheathed
Plywood-sheathed
Lumber-sheathed

Skid-base
Sill-base
Diagonals

## 6.10 Changes from previous issue

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes

**Custodians:**

Army – ME
Navy – YD
Air Force – 69

**Preparing Activity:**
Navy – YD

(Project 8115 – 0510)

**Review Activities:**

Army – CR, SM, GL, EA, AR
Navy – AS, MC, SA
Air forces – 99

**User Activities:**

Army – AT, ER

**TABLE X. - Allowable load in 1b per inch of floorboard width**
**Group I and II woods**

| Distance between skids (in.) | Thickness of load barrier floorboard (in.) | | | | | |
|---|---|---|---|---|---|---|
| | 3/4 | 1 – 1/2 | 2 – 1/2 | 3 – 1/2 | 5 –1/2 | 7 –1/2 |
| 12 | 57 | 287 | 600 | 1170 | 2900 | 5000 |
| 18 | 38 | 191 | 400 | 780 | 1930 | 3350 |
| 24 | 29 | 143 | 300 | 590 | 1400 | 2500 |
| 30 | 23 | 115 | 240 | 470 | 1160 | 2000 |
| 36 | 19 | 95 | 200 | 390 | 960 | 1680 |
| 42 | 16 | 82 | 170 | 335 | 830 | 1440 |
| 48 | 14 | 71 | 150 | 290 | 720 | 1250 |
| 54 | 12 | 63 | 130 | 260 | 645 | 1120 |
| 60 | 11 | 57 | 120 | 234 | 580 | 1000 |
| 66 | 10 | 52 | 110 | 212 | 525 | 910 |
| 72 | 09 | 48 | 100 | 195 | 480 | 840 |
| 84 | 08 | 41 | 85 | 140 | 360 | 710 |
| 96 | 08 | 35 | 75 | 167 | 300 | 630 |
| 108 | 07 | 34 | 66 | 130 | 233 | 560 |
| 120 | 07 | 30 | 60 | 117 | 210 | 500 |

**TABLE XI. - Nominal size of side sills (in.)***

| Gross weight of crate (lb) | Length of crate (ft.) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
| To 2000 | 2x4 | 2x4 | 2x4 | 2x4 | 2x4 | 2x6 | 2x6 | 2x6 |
| 2001 – 4000 | 2x4 | 2x4 | 2x4 | 2x4 | 2x6 | 2x6 | 2x6 | 2x8 |
| 4001 – 6000 | 2x4 | 2x4 | 2x4 | 2x6 | 2x6 | 2x6 | 2x8 | 2x8 |
| 6001- 8000 | ..... | 2x4 | 2x6 | 2x6 | 2x6 | 2x8 | 2x8 | 2x8 |
| 8001- 10,000 | ..... | 2x6 | 2x6 | 2x6 | 2x8 | 2x8 | 2x8 | 2x10 |
| 10,001- 12,000 | ..... | 2x6 | 2x6 | 2x8 | 2x8 | 2x8 | 2x10 | 2x10 |
| 12,001- 14,000 | ..... | 2x6 | 2x8 | 2x8 | 2x8 | 2x10 | 2x10 | 2x10 |
| 14,001- 16,000 | ..... | 2x8 | 2x8 | 2x8 | 2x10 | 2x10 | 2x10 | 2- 2x8 |
| 16,001- 18,000 | ..... | 2x8 | 2x8 | 2x10 | 2x10 | 2x10 | 2- 2x8 | 2- 2x8 |
| 18,001- 20,000 | ..... | 2x8 | 2x10 | 2x10 | 2x10 | 2- 2x8 | 2- 2x8 | 2- 2x8 |

* The above sizes are for crates with a height of 3 ft. or less. For heights of over 3 feet, increase 2x4 sizes to 2x6: increase 2x6 to 2x8; increase 2x8 to 2x10; and increase 2 - 2x8 to 2 - 2x10

**TABLE XII. - Allowable load for intermediate sills (in lb per inch of sill width)**

| | **Sill depth (inch) Groups I and II woods** | | | | | | |
|---|---|---|---|---|---|---|---|
| Length of sills (ft.) | 1–1/2 | 2–1/2 | 3–1/2 | 5–1/2 | 7–1/2 | 9–1/2 | 11–1/2 |
| 4 | 71 | 150 | 290 | 720 | 1250 | 2000 | 3000 |
| 5 | 57 | 120 | 234 | 580 | 1000 | 1640 | 2400 |
| 6 | 48 | 100 | 195 | 480 | 840 | 1320 | 2020 |
| 7 | 41 | 85 | 167 | 399 | 710 | 1170 | 1730 |
| 8 | 35 | 75 | 140 | 350 | 630 | 1020 | 1500 |
| 9 | 34 | 66 | 130 | 300 | 560 | 910 | 1350 |
| 10 | 30 | 60 | 117 | 270 | 500 | 820 | 1200 |

Table XIII to XXII has been reformatted for easier reading.

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 0 | 6 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 6 | 8 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 8 | 10 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 12 | 16 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 12 | 16 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 16 | 20 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x8 | 1x4 |
| 0 | 1000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 0 | 1000 | 20 | 24 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 20 | 24 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 4 | 6 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 20 | 24 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 6 | 8 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 20 | 24 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 8 | 10 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 20 | 24 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x8 | 1x6 |
| 0 | 1000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 0 | 1000 | 24 | 28 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x6 |
| 0 | 1000 | 24 | 28 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 24 | 28 | 4 | 6 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x6 |
| 0 | 1000 | 24 | 28 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 6 | 8 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 24 | 28 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x8 | 1x6 |
| 0 | 1000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 0 | 1000 | 24 | 28 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 8 | 10 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 24 | 28 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 0 | 1000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 0 | 1000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x6 |
| 0 | 1000 | 28 | 32 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x6 |
| 0 | 1000 | 28 | 32 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 0 | 1000 | 28 | 32 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 4 | 6 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x6 |
| 0 | 1000 | 28 | 32 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x6 |
| 0 | 1000 | 28 | 32 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 6 | 8 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 28 | 32 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 0 | 1000 | 28 | 32 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 0 | 1000 | 28 | 32 | 6 | 8 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 0 | 1000 | 28 | 32 | 8 | 10 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 0 | 1000 | 28 | 32 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x6 | 1x4 |
| 0 | 1000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 0 | 1000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 0 | 1000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 0 | 6 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 0 | 6 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 6 | 8 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 1000 | 2000 | 8 | 10 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 10 | 12 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 12 | 16 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 1000 | 2000 | 16 | 20 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 16 | 20 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 1000 | 2000 | 16 | 20 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 1000 | 2000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 1000 | 2000 | 20 | 24 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 20 | 24 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 4 | 6 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 20 | 24 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 20 | 24 | 6 | 8 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 20 | 24 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 20 | 24 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 1000 | 2000 | 20 | 24 | 8 | 10 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 20 | 24 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 1000 | 2000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 24 | 28 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 24 | 28 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 4 | 6 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 24 | 28 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 1000 | 2000 | 24 | 28 | 6 | 8 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 24 | 28 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 24 | 28 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 24 | 28 | 8 | 10 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 24 | 28 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 1000 | 2000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 28 | 32 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 28 | 32 | 0 | 4 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 28 | 32 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 28 | 32 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 28 | 32 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 28 | 32 | 4 | 6 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 28 | 32 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 1000 | 2000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 28 | 32 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 1000 | 2000 | 28 | 32 | 6 | 8 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 28 | 32 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 1000 | 2000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 28 | 32 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 1000 | 2000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 28 | 32 | 8 | 10 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 28 | 32 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 1000 | 2000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x6 | 1x6 |
| 1000 | 2000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 1000 | 2000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 0 | 6 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 0 | 6 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 6 | 8 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 6 | 8 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 1x4 | 1x6 | 1x6 |
| 2000 | 4000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 2000 | 4000 | 8 | 10 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 8 | 10 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 8 | 10 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 8 | 10 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 10 | 12 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 10 | 12 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 10 | 12 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 2000 | 4000 | 12 | 16 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 12 | 16 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 12 | 16 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 2000 | 4000 | 12 | 16 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 2000 | 4000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 2000 | 4000 | 16 | 20 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 16 | 20 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 16 | 20 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 16 | 20 | 8 | 10 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 2000 | 4000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 2000 | 4000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 20 | 24 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 2000 | 4000 | 20 | 24 | 0 | 4 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 20 | 24 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 4 | 6 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 2000 | 4000 | 20 | 24 | 4 | 6 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 20 | 24 | 6 | 8 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 2000 | 4000 | 20 | 24 | 6 | 8 | 2 | 4 | 1x6 | 1x4 | 1x6 | 1x4 |
| 2000 | 4000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 20 | 24 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 20 | 24 | 8 | 10 | 0 | 2 | 1x6 | 1x4 | 1x6 | 1x6 |
| 2000 | 4000 | 20 | 24 | 8 | 10 | 2 | 4 | 1x6 | 1x4 | 1x6 | 1x4 |
| 2000 | 4000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 2000 | 4000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 24 | 28 | 0 | 4 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 24 | 28 | 0 | 4 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 24 | 28 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 4 | 6 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 24 | 28 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 24 | 28 | 6 | 8 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 24 | 28 | 6 | 8 | 2 | 4 | 1x6 | 1x4 | 1x6 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 24 | 28 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 24 | 28 | 8 | 10 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 24 | 28 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 2000 | 4000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 28 | 32 | 0 | 4 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 28 | 32 | 0 | 4 | 2 | 4 | 1x6 | 1x6 | 1x4 | 1x4 |
| 2000 | 4000 | 28 | 32 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 28 | 32 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 28 | 32 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 28 | 32 | 4 | 6 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 28 | 32 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 28 | 32 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 2000 | 4000 | 28 | 32 | 6 | 8 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 28 | 32 | 6 | 8 | 2 | 4 | 1x6 | 1x4 | 1x6 | 1x6 |
| 2000 | 4000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 2000 | 4000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 28 | 32 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 2000 | 4000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 28 | 32 | 8 | 10 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 2000 | 4000 | 28 | 32 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 2000 | 4000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x6 | 1x6 |
| 2000 | 4000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 2000 | 4000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 4000 | 6000 | 0 | 6 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 0 | 6 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 0 | 6 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 0 | 6 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 4000 | 6000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 0 | 4 | 6 | 8 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 6 | 8 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 6 | 8 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 6 | 8 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 2x4 |
| 4000 | 6000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 6 | 8 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 4000 | 6000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 8 | 10 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 8 | 10 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 8 | 10 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 8 | 10 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 8 | 10 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 4000 | 6000 | 8 | 10 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 10 | 12 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 10 | 12 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 10 | 12 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 10 | 12 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 4000 | 6000 | 10 | 12 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 4000 | 6000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 12 | 16 | 0 | 4 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 12 | 16 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 12 | 16 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 12 | 16 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 12 | 16 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 4000 | 6000 | 12 | 16 | 8 | 10 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 12 | 16 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 4000 | 6000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 16 | 20 | 0 | 4 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 0 | 4 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 16 | 20 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 16 | 20 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x6 | 1x6 |
| 4000 | 6000 | 16 | 20 | 6 | 8 | 0 | 2 | 2x6 | 1x4 | 2x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 2x4 | 1x6 |
| 4000 | 6000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 1x6 | 2x4 |
| 4000 | 6000 | 16 | 20 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 2x4 | 1x6 |
| 4000 | 6000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 1x4 | 2x4 |
| 4000 | 6000 | 16 | 20 | 8 | 10 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 16 | 20 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 4000 | 6000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 0 | 4 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 20 | 24 | 0 | 4 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 20 | 24 | 0 | 4 | 4 | 6 | 1x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 20 | 24 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 20 | 24 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 20 | 24 | 4 | 6 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 20 | 24 | 4 | 6 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 20 | 24 | 4 | 6 | 4 | 6 | 1x6 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x6 | 1x6 |
| 4000 | 6000 | 20 | 24 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 6 | 8 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 20 | 24 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 8 | 10 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 20 | 24 | 8 | 10 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 4000 | 6000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 0 | 4 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 24 | 28 | 0 | 4 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 24 | 28 | 0 | 4 | 4 | 6 | 1x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 24 | 28 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 24 | 28 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 24 | 28 | 4 | 6 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 24 | 28 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 24 | 28 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 6 | 8 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 24 | 28 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 24 | 28 | 8 | 10 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 24 | 28 | 8 | 10 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 4000 | 6000 | 28 | 32 | 0 | 4 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 28 | 32 | 0 | 4 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 28 | 32 | 0 | 4 | 4 | 6 | 1x6 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 28 | 32 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 28 | 32 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 28 | 32 | 4 | 6 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 28 | 32 | 4 | 6 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x4 |
| 4000 | 6000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x6 |
| 4000 | 6000 | 28 | 32 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 28 | 32 | 6 | 8 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 28 | 32 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 4000 | 6000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 4000 | 6000 | 28 | 32 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 4000 | 6000 | 28 | 32 | 8 | 10 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 4000 | 6000 | 28 | 32 | 8 | 10 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x6 |
| 4000 | 6000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 1x6 | 2x4 |
| 4000 | 6000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 4000 | 6000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 4000 | 6000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 6000 | 8000 | 0 | 6 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 0 | 6 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 0 | 6 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 0 | 6 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 0 | 6 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 0 | 6 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 0 | 6 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 0 | 6 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 6000 | 8000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 0 | 4 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 6 | 8 | 0 | 4 | 6 | 8 | 1x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 6 | 8 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 6 | 8 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 4 | 6 | 10 | 12 | 2x4 | 1x4 | 1x4 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 6 | 8 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 2x4 |
| 6000 | 8000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 6 | 8 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x4 |
| 6000 | 8000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 8 | 10 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 8 | 10 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 8 | 10 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 8 | 10 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 8 | 10 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 6000 | 8000 | 8 | 10 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 10 | 12 | 0 | 4 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 10 | 12 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 10 | 12 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 6000 | 8000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 12 | 16 | 0 | 4 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 12 | 16 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 12 | 16 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 12 | 16 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 12 | 16 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 12 | 16 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 12 | 16 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 1x6 |
| 6000 | 8000 | 12 | 16 | 8 | 10 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 12 | 16 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 6000 | 8000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 16 | 20 | 0 | 4 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 16 | 20 | 0 | 4 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 16 | 20 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 16 | 20 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 0 | 4 | 10 | 12 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 16 | 20 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 16 | 20 | 4 | 6 | 10 | 12 | 1x4 | 1x4 | 1x6 | 1x6 |
| 6000 | 8000 | 16 | 20 | 6 | 8 | 0 | 2 | 2x6 | 1x4 | 2x4 | 1x4 |
| 6000 | 8000 | 16 | 20 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 2x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 16 | 20 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 2x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 1x4 | 2x4 |
| 6000 | 8000 | 16 | 20 | 8 | 10 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 16 | 20 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 6000 | 8000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 0 | 4 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 20 | 24 | 0 | 4 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 20 | 24 | 0 | 4 | 4 | 6 | 1x6 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 20 | 24 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 6000 | 8000 | 20 | 24 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 4 | 6 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 20 | 24 | 4 | 6 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 20 | 24 | 4 | 6 | 4 | 6 | 1x6 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x6 | 1x6 |
| 6000 | 8000 | 20 | 24 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 6 | 8 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 20 | 24 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 8 | 10 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 20 | 24 | 8 | 10 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 6000 | 8000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 24 | 28 | 0 | 4 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 24 | 28 | 0 | 4 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 24 | 28 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 4 | 6 | 0 | 2 | 1x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 24 | 28 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 24 | 28 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 6 | 8 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 24 | 28 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x6 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 8 | 10 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 24 | 28 | 8 | 10 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 6000 | 8000 | 28 | 32 | 0 | 4 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 6000 | 8000 | 28 | 32 | 0 | 4 | 2 | 4 | 2x8 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 28 | 32 | 0 | 4 | 4 | 6 | 1x6 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 28 | 32 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 4 | 6 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 28 | 32 | 4 | 6 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x4 |
| 6000 | 8000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x4 | 1x6 |
| 6000 | 8000 | 28 | 32 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 6 | 8 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 28 | 32 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x4 |
| 6000 | 8000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 6000 | 8000 | 28 | 32 | 8 | 10 | 0 | 2 | 2x6 | 1x6 | 1x6 | 1x6 |
| 6000 | 8000 | 28 | 32 | 8 | 10 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 6000 | 8000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 1x6 | 2x4 |
| 6000 | 8000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 6000 | 8000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 6000 | 8000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 0 | 6 | 0 | 4 | 0 | 2 | 1x4 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 0 | 6 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 0 | 6 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 0 | 6 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 0 | 6 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 0 | 6 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 0 | 6 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 0 | 6 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x4 |
| 8000 | 10000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 0 | 6 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 0 | 6 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 6 | 8 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 6 | 8 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 6 | 8 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 6 | 8 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 6 | 8 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 6 | 8 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 6 | 8 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 6 | 8 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 1x6 |
| 8000 | 10000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 8 | 10 | 0 | 4 | 0 | 2 | 1x6 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 8 | 10 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 8 | 10 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 8 | 10 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 8 | 10 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 8 | 10 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 8 | 10 | 4 | 6 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 8 | 10 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 8 | 10 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 8 | 10 | 6 | 8 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 8 | 10 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 8 | 10 | 6 | 8 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 8 | 10 | 8 | 10 | 0 | 2 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 8 | 10 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 0 | 4 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 10 | 12 | 0 | 4 | 2 | 4 | 1x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 10 | 12 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 10 | 12 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 10 | 12 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 4 | 6 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 10 | 12 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 10 | 12 | 6 | 8 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 10 | 12 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 8 | 10 | 0 | 2 | 2x6 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 10 | 12 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 0 | 4 | 0 | 2 | 2x8 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 12 | 16 | 0 | 4 | 2 | 4 | 1x6 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 12 | 16 | 0 | 4 | 4 | 6 | 1x4 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 12 | 16 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 12 | 16 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 4 | 6 | 0 | 2 | 2x8 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 12 | 16 | 4 | 6 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 6 | 8 | 0 | 2 | 2x8 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 12 | 16 | 6 | 8 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 12 | 16 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 8 | 10 | 0 | 2 | 2x8 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 12 | 16 | 8 | 10 | 2 | 4 | 2x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 0 | 4 | 0 | 2 | 2x8 | 1x6 | 1x4 | 1x6 |
| 8000 | 10000 | 16 | 20 | 0 | 4 | 2 | 4 | 2x4 | 1x4 | 1x4 | 1x4 |
| 8000 | 10000 | 16 | 20 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 0 | 4 | 8 | 10 | 1x4 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 16 | 20 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 4 | 6 | 0 | 2 | 2x8 | 1x6 | 1x4 | 1x6 |
| 8000 | 10000 | 16 | 20 | 4 | 6 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x4 | 2 x 2 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 6 | 8 | 0 | 2 | 2x8 | 1x6 | 1x4 | 1x6 |
| 8000 | 10000 | 16 | 20 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 8000 | 10000 | 16 | 20 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 8000 | 10000 | 16 | 20 | 8 | 10 | 0 | 2 | 2x8 | 1x6 | 1x4 | 1x6 |
| 8000 | 10000 | 16 | 20 | 8 | 10 | 2 | 4 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 8000 | 10000 | 20 | 24 | 0 | 4 | 0 | 2 | 2x8 | 1x8 | 1x6 | 1x6 |
| 8000 | 10000 | 20 | 24 | 0 | 4 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 20 | 24 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 20 | 24 | 4 | 6 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 8000 | 10000 | 20 | 24 | 4 | 6 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 20 | 24 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 20 | 24 | 6 | 8 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 8000 | 10000 | 20 | 24 | 6 | 8 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 8000 | 10000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 8000 | 10000 | 20 | 24 | 8 | 10 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 8000 | 10000 | 20 | 24 | 8 | 10 | 2 | 4 | 2x8 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 8000 | 10000 | 24 | 28 | 0 | 4 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 8000 | 10000 | 24 | 28 | 0 | 4 | 2 | 4 | 2x6 | 1x4 | 1x4 | 1x6 |
| 8000 | 10000 | 24 | 28 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 24 | 28 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 24 | 28 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 24 | 28 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 24 | 28 | 4 | 6 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 8000 | 10000 | 24 | 28 | 4 | 6 | 2 | 4 | 2x6 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 6 | 8 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 8000 | 10000 | 24 | 28 | 6 | 8 | 2 | 4 | 2x8 | 2x4 | 1x8 | 2x4 |
| 8000 | 10000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 8 | 10 | 0 | 2 | 2x8 | 1x8 | 1x8 | 1x8 |
| 8000 | 10000 | 24 | 28 | 8 | 10 | 2 | 4 | 2x8 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 0 | 4 | 0 | 2 | 2x8 | 1x8 | 1x8 | 2x8 |
| 8000 | 10000 | 28 | 32 | 0 | 4 | 2 | 4 | 2x8 | 1x4 | 1x6 | 1x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 8000 | 10000 | 28 | 32 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 28 | 32 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 4 | 6 | 0 | 2 | 2x8 | 1x8 | 1x8 | 2x8 |
| 8000 | 10000 | 28 | 32 | 4 | 6 | 2 | 4 | 2x8 | 1x4 | 1x6 | 1x6 |
| 8000 | 10000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 6 | 8 | 0 | 2 | 2x10 | 2x6 | 2x4 | 2x8 |
| 8000 | 10000 | 28 | 32 | 6 | 8 | 2 | 4 | 2x10 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 8 | 10 | 0 | 2 | 1x10 | 2x6 | 2x4 | 2x8 |
| 8000 | 10000 | 28 | 32 | 8 | 10 | 2 | 4 | 2x10 | 2x4 | 2x4 | 2x4 |
| 8000 | 10000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 8000 | 10000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 0 | 6 | 0 | 4 | 0 | 2 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 0 | 6 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 0 | 6 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 4 | 6 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 6 | 8 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 0 | 6 | 8 | 10 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 6 | 8 | 0 | 4 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 6 | 8 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 6 | 8 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 6 | 8 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 6 | 8 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 6 | 8 | 4 | 6 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x4 |
| 10000 | 15000 | 6 | 8 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 6 | 8 | 6 | 8 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 6 | 8 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x4 |
| 10000 | 15000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 6 | 8 | 8 | 10 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 0 | 4 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 8 | 10 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 8 | 10 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 8 | 10 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 8 | 10 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 8 | 10 | 4 | 6 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 6 | 8 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 8 | 10 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 0 | 4 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 10 | 12 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 10 | 12 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 10 | 12 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 10 | 12 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 4 | 6 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 6 | 8 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 8 | 10 | 0 | 4 | 2x4 | 2x4 | 1x4 | 2x6 |
| 10000 | 15000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 0 | 4 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 12 | 16 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 12 | 16 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 12 | 16 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 4 | 6 | 0 | 4 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 16 | 20 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x4 |
| 10000 | 15000 | 16 | 20 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 16 | 20 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 16 | 20 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 16 | 20 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 16 | 20 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 16 | 20 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 0 | 4 | 0 | 4 | 2x8 | 2x6 | 2x4 | 2x4 |
| 10000 | 15000 | 20 | 24 | 0 | 4 | 4 | 6 | 2x8 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 4 | 6 | 0 | 4 | 2x8 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 6 | 8 | 0 | 4 | 2x8 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 8 | 10 | 0 | 4 | 2x8 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 24 | 28 | 0 | 4 | 0 | 4 | 2x10 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 0 | 4 | 6 | 8 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 4 | 6 | 0 | 4 | 2x10 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x8 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 6 | 8 | 0 | 4 | 2x10 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 8 | 10 | 0 | 4 | 2x10 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 10000 | 15000 | 28 | 32 | 0 | 4 | 0 | 4 | 2x10 | 2x8 | 2x6 | 2x6 |
| 10000 | 15000 | 28 | 32 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 4 | 6 | 0 | 4 | 2x10 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x8 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 6 | 8 | 0 | 4 | 2x10 | 2x6 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 10000 | 15000 | 28 | 32 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x8 | 2x4 | 2x4 | 2x8 |
| 10000 | 15000 | 28 | 32 | 8 | 10 | 0 | 4 | 2x10 | 2x8 | 2x8 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 10000 | 15000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 10000 | 15000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 10000 | 15000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 10000 | 15000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 0 | 6 | 0 | 4 | 0 | 4 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 0 | 4 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 4 | 6 | 0 | 4 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 6 | 8 | 0 | 4 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 8 | 10 | 0 | 4 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 6 | 8 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 6 | 8 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 6 | 8 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 6 | 8 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 8 | 10 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 8 | 10 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 10 | 12 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 10 | 12 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 12 | 16 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 12 | 16 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 12 | 16 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x6 |
| 15000 | 20000 | 16 | 20 | 0 | 4 | 0 | 4 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 16 | 20 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 16 | 20 | 4 | 6 | 0 | 4 | 2x8 | 2x4 | 2x4 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 16 | 20 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 16 | 20 | 6 | 8 | 0 | 4 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 16 | 20 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 16 | 20 | 8 | 10 | 0 | 4 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 20 | 24 | 0 | 4 | 0 | 4 | 2x10 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 0 | 4 | 4 | 6 | 2x8 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 20 | 24 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 4 | 6 | 0 | 4 | 2x10 | 2x12 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x8 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 20 | 24 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 6 | 8 | 0 | 4 | 2x10 | 2x6 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x8 | 2x4 | 2x6 | 2x6 |
| 15000 | 20000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x6 | 2x8 |
| 15000 | 20000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 20 | 24 | 8 | 10 | 0 | 4 | 2x10 | 2x6 | 2x8 | 2x6 |
| 15000 | 20000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x8 | 2x4 | 2x8 | 2x6 |
| 15000 | 20000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 24 | 28 | 0 | 4 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 0 | 4 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 0 | 4 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x6 |
| 15000 | 20000 | 24 | 28 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 4 | 6 | 0 | 4 | 2x10 | 2x8 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 24 | 28 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 24 | 28 | 6 | 8 | 0 | 4 | 2x10 | 2x8 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 24 | 28 | 8 | 10 | 0 | 4 | 2x10 | 2x8 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 0 | 4 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 28 | 32 | 0 | 4 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 28 | 32 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 28 | 32 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 4 | 6 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 6 | 8 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 15000 | 20000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 28 | 32 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 8 | 10 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x6 |
| 15000 | 20000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x8 |
| 15000 | 20000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 15000 | 20000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x4 |
| 20000 | 25000 | 0 | 6 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 0 | 6 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 0 | 6 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 0 | 6 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x6 |
| 20000 | 25000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 6 | 8 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 6 | 8 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 6 | 8 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 6 | 8 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 6 | 8 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 6 | 8 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x4 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x6 |
| 20000 | 25000 | 6 | 8 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 6 | 8 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 6 | 8 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x6 |
| 20000 | 25000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 6 | 8 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x6 |
| 20000 | 25000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 20000 | 25000 | 8 | 10 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 8 | 10 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 8 | 10 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 8 | 10 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x6 |
| 20000 | 25000 | 8 | 10 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x6 |
| 20000 | 25000 | 8 | 10 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x6 |
| 20000 | 25000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 10 | 12 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 10 | 12 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 6 | 8 | 0 | 4 | 2x8 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 8 | 10 | 0 | 4 | 2x8 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 12 | 16 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 12 | 16 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 12 | 16 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 6 | 8 | 0 | 4 | 2x8 | 2x4 | 2x6 | 2x6 |
| 20000 | 25000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 8 | 10 | 0 | 4 | 2x8 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 0 | 4 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 16 | 20 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 16 | 20 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 4 | 6 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 6 | 8 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 8 | 10 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 0 | 4 | 0 | 4 | 2x8 | 2x4 | 2x4 | 2x6 |
| 20000 | 25000 | 20 | 24 | 0 | 4 | 4 | 6 | 2x10 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 20 | 24 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 20 | 24 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 4 | 6 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x10 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x8 | 2x4 | 2x4 | 2x10 |
| 20000 | 25000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x8 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 6 | 8 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x10 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x8 | 2x4 | 2x4 | 2x10 |
| 20000 | 25000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x8 | 2x4 | 2x8 | 2x10 |
| 20000 | 25000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 8 | 10 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x10 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x8 | 2x4 | 2x4 | 2x10 |
| 20000 | 25000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x8 | 2x4 | 2x8 | 2x10 |
| 20000 | 25000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x10 |
| 20000 | 25000 | 24 | 28 | 0 | 4 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 0 | 4 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 0 | 4 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 24 | 28 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 4 | 6 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x10 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x8 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 6 | 8 | 0 | 4 | 2x10 | 2x8 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x10 | 2x4 | 2x10 | 2x10 |
| 20000 | 25000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x8 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 24 | 28 | 8 | 10 | 0 | 4 | 2x10 | 2x8 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x10 |
| 20000 | 25000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x8 |
| 20000 | 25000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x10 |
| 20000 | 25000 | 28 | 32 | 0 | 4 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 0 | 4 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 0 | 4 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 28 | 32 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 4 | 6 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 4 | 6 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 4 | 6 | 6 | 8 | 2x10 | 2x4 | 2x4 | 2x10 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 20000 | 25000 | 28 | 32 | 4 | 6 | 8 | 10 | 2x8 | 2x4 | 2x8 | 2x8 |
| 20000 | 25000 | 28 | 32 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 6 | 8 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 6 | 8 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 6 | 8 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x10 |
| 20000 | 25000 | 28 | 32 | 6 | 8 | 8 | 10 | 2x8 | 2x4 | 2x4 | 2x10 |
| 20000 | 25000 | 28 | 32 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x10 |
| 20000 | 25000 | 28 | 32 | 8 | 10 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 8 | 10 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |
| 20000 | 25000 | 28 | 32 | 8 | 10 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x10 |
| 20000 | 25000 | 28 | 32 | 8 | 10 | 8 | 10 | 2x8 | 2x4 | 2x4 | 2x10 |
| 20000 | 25000 | 28 | 32 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x4 | 2x10 |
| 25000 | 30000 | 0 | 6 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 0 | 4 | 6 | 8 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 4 | 6 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 0 | 6 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 0 | 6 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 0 | 6 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 0 | 6 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 0 | 6 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 6 | 8 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 6 | 8 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 6 | 8 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 6 | 8 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 6 | 8 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 6 | 8 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 6 | 8 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x10 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 6 | 8 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 6 | 8 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 6 | 8 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 6 | 8 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 6 | 8 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 6 | 8 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 8 | 10 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x6 |
| 25000 | 30000 | 8 | 10 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x6 |
| 25000 | 30000 | 8 | 10 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 8 | 10 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 8 | 10 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 8 | 10 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 8 | 10 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 8 | 10 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 8 | 10 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 8 | 10 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 8 | 10 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 8 | 10 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 10 | 12 | 0 | 4 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 10 | 12 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 10 | 12 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 10 | 12 | 0 | 4 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 0 | 4 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 4 | 6 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 10 | 12 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 10 | 12 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 10 | 12 | 4 | 6 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 4 | 6 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 6 | 8 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 10 | 12 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 10 | 12 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 6 | 8 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 6 | 8 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 8 | 10 | 0 | 4 | 2x6 | 2x4 | 2x4 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 10 | 12 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 10 | 12 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 8 | 10 | 8 | 10 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 10 | 12 | 8 | 10 | 10 | 12 | 2x4 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 12 | 16 | 0 | 4 | 0 | 4 | 2x8 | 2x4 | 2x10 | 2x8 |
| 25000 | 30000 | 12 | 16 | 0 | 4 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 12 | 16 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 12 | 16 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 12 | 16 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 12 | 16 | 4 | 6 | 0 | 4 | 2x8 | 2x4 | 2x10 | 2x8 |
| 25000 | 30000 | 12 | 16 | 4 | 6 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 12 | 16 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 12 | 16 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 12 | 16 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 12 | 16 | 6 | 8 | 0 | 4 | 2x8 | 2x4 | 2x10 | 2x8 |
| 25000 | 30000 | 12 | 16 | 6 | 8 | 4 | 6 | 2x6 | 2x4 | 2x6 | 2x8 |
| 25000 | 30000 | 12 | 16 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 12 | 16 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 12 | 16 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 12 | 16 | 8 | 10 | 0 | 4 | 2x8 | 2x4 | 2x10 | 2x8 |
| 25000 | 30000 | 12 | 16 | 8 | 10 | 4 | 6 | 2x6 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 12 | 16 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x10 | 2x10 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 12 | 16 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 12 | 16 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 16 | 20 | 0 | 4 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 16 | 20 | 0 | 4 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 16 | 20 | 0 | 4 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x10 |
| 25000 | 30000 | 16 | 20 | 0 | 4 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 16 | 20 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 16 | 20 | 4 | 6 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 16 | 20 | 4 | 6 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x10 |
| 25000 | 30000 | 16 | 20 | 4 | 6 | 6 | 8 | 2x6 | 2x4 | 2x4 | 2x10 |
| 25000 | 30000 | 16 | 20 | 4 | 6 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 16 | 20 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 16 | 20 | 6 | 8 | 0 | 4 | 2x10 | 2x8 | 2x4 | 2x8 |
| 25000 | 30000 | 16 | 20 | 6 | 8 | 4 | 6 | 2x8 | 2x4 | 2x4 | 2x10 |
| 25000 | 30000 | 16 | 20 | 6 | 8 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 16 | 20 | 6 | 8 | 8 | 10 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 16 | 20 | 6 | 8 | 10 | 12 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 16 | 20 | 8 | 10 | 0 | 4 | 2x10 | 2x8 | 2x4 | 2x8 |
| 25000 | 30000 | 16 | 20 | 8 | 10 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x10 |
| 25000 | 30000 | 16 | 20 | 8 | 10 | 6 | 8 | 2x6 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 16 | 20 | 8 | 10 | 8 | 10 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 16 | 20 | 8 | 10 | 10 | 12 | 2x6 | 2x4 | 2x10 | 2x10 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 20 | 24 | 0 | 4 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 20 | 24 | 0 | 4 | 4 | 6 | 2x10 | 2x4 | 2x8 | 2x8 |
| 25000 | 30000 | 20 | 24 | 0 | 4 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 20 | 24 | 0 | 4 | 8 | 10 | 2x8 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 20 | 24 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 20 | 24 | 4 | 6 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 20 | 24 | 4 | 6 | 4 | 6 | 2x10 | 2x8 | 2x8 | 2x8 |
| 25000 | 30000 | 20 | 24 | 4 | 6 | 6 | 8 | 2x8 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 20 | 24 | 4 | 6 | 8 | 10 | 2x8 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 20 | 24 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 20 | 24 | 6 | 8 | 0 | 4 | 2x4 | 2x10 | 2x4 | 2x8 |
| 25000 | 30000 | 20 | 24 | 6 | 8 | 4 | 6 | 2x4 | 2x10 | 2x8 | 2x10 |
| 25000 | 30000 | 20 | 24 | 6 | 8 | 6 | 8 | 2x4 | 2x8 | 2x6 | 2x10 |
| 25000 | 30000 | 20 | 24 | 6 | 8 | 8 | 10 | 2x4 | 2x8 | 2x10 | 2x10 |
| 25000 | 30000 | 20 | 24 | 6 | 8 | 10 | 12 | 2x4 | 2x8 | 2x4 | 2x10 |
| 25000 | 30000 | 20 | 24 | 8 | 10 | 0 | 4 | 2x10 | 2x4 | 2x4 | 2x8 |
| 25000 | 30000 | 20 | 24 | 8 | 10 | 4 | 6 | 2x10 | 2x8 | 2x8 | 2x10 |
| 25000 | 30000 | 20 | 24 | 8 | 10 | 6 | 8 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 20 | 24 | 8 | 10 | 8 | 10 | 2x8 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 20 | 24 | 8 | 10 | 10 | 12 | 2x8 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 24 | 28 | 0 | 4 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 25000 | 30000 | 24 | 28 | 0 | 4 | 4 | 6 | 2x10 | 2x4 | 2x4 | 2x8 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 24 | 28 | 0 | 4 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x12 |
| 25000 | 30000 | 24 | 28 | 0 | 4 | 8 | 10 | 2x8 | 2x4 | 2x4 | 2x10 |
| 25000 | 30000 | 24 | 28 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 24 | 28 | 4 | 6 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 25000 | 30000 | 24 | 28 | 4 | 6 | 4 | 6 | 2x10 | 2x8 | 2x4 | 2x8 |
| 25000 | 30000 | 24 | 28 | 4 | 6 | 6 | 8 | 2x10 | 2x6 | 2x8 | 2x10 |
| 25000 | 30000 | 24 | 28 | 4 | 6 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 24 | 28 | 4 | 6 | 10 | 12 | 2x6 | 2x4 | 2x10 | 2x10 |
| 25000 | 30000 | 24 | 28 | 6 | 8 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 25000 | 30000 | 24 | 28 | 6 | 8 | 4 | 6 | 2x10 | 2x8 | 2x6 | 2x10 |
| 25000 | 30000 | 24 | 28 | 6 | 8 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 24 | 28 | 6 | 8 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 24 | 28 | 6 | 8 | 10 | 12 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 24 | 28 | 8 | 10 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 25000 | 30000 | 24 | 28 | 8 | 10 | 4 | 6 | 2x12 | 2x8 | 2x6 | 2x10 |
| 25000 | 30000 | 24 | 28 | 8 | 10 | 6 | 8 | 2x10 | 2x4 | 2x8 | 2x10 |
| 25000 | 30000 | 24 | 28 | 8 | 10 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 24 | 28 | 8 | 10 | 10 | 12 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 0 | 4 | 0 | 4 | 2x12 | 2x6 | 2x4 | 2x8 |
| 25000 | 30000 | 28 | 30 | 0 | 4 | 4 | 6 | 2x12 | 2x8 | 2x4 | 2x10 |
| 25000 | 30000 | 28 | 30 | 0 | 4 | 6 | 8 | 2x10 | 2x8 | 2x8 | 2x10 |
| 25000 | 30000 | 28 | 30 | 0 | 4 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x10 |

**Table XIII to XXII-Panel number selection table for various net loads***

| Weight | | Length | | Width | | Height | | Upper | Lower | Struts | Diagonals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min+ | Max | Min+ | Max | Min+ | Max | Min+ | Max | Frame | Frame | | |
| 25000 | 30000 | 28 | 30 | 0 | 4 | 10 | 12 | 2x6 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 4 | 6 | 0 | 4 | 2x12 | 2x8 | 2x4 | 2x8 |
| 25000 | 30000 | 28 | 30 | 4 | 6 | 4 | 6 | 2x12 | 2x8 | 2x4 | 2x10 |
| 25000 | 30000 | 28 | 30 | 4 | 6 | 6 | 8 | 2x10 | 2x8 | 2x8 | 2x10 |
| 25000 | 30000 | 28 | 30 | 4 | 6 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 4 | 6 | 10 | 12 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 6 | 8 | 0 | 4 | 2x12 | 2x8 | 2x4 | 2x8 |
| 25000 | 30000 | 28 | 30 | 6 | 8 | 4 | 6 | 2x12 | 2x8 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 6 | 8 | 6 | 8 | 2x10 | 2x8 | 2x8 | 2x10 |
| 25000 | 30000 | 28 | 30 | 6 | 8 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 6 | 8 | 10 | 12 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 8 | 10 | 0 | 4 | 2x12 | 2x8 | 2x4 | 2x8 |
| 25000 | 30000 | 28 | 30 | 8 | 10 | 4 | 6 | 2x12 | 2x8 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 8 | 10 | 6 | 8 | 2x10 | 2x8 | 2x8 | 2x12 |
| 25000 | 30000 | 28 | 30 | 8 | 10 | 8 | 10 | 2x8 | 2x4 | 2x6 | 2x10 |
| 25000 | 30000 | 28 | 30 | 8 | 10 | 10 | 12 | 2x8 | 2x4 | 2x6 | 2x12 |

**TABLE XXIII : Lag bolts required to assemble sides to base of bolted crates using lag bolt reinforcing strap (skids to be group II, III of IV woods )**

| Weight of crates and contents (lb) | Size of lag bolt | | |
|---|---|---|---|
| | 3/8 X 3 – inch (3X3or 3X4 inch skids ) | 1/2x4 inch (4 X 4 inch skids) | 5/8 X 4 inch (4X6 inch skids) |
| 2,000 | 6 | 6 | 6 |
| 3,000 | 10 | 6 | 6 |
| 4,000 | 14 | 8 | 6 |
| 6,000 | 20 | 12 | 8 |
| 8,000 | .... | 16 | 10 |
| 10,000 | .... | 18 | 12 |
| 12,000 | .... | 22 | 14 |
| 14,000 | .... | 26 | 16 |
| 16,000 | .... | 30 | 18 |
| 18,000 | .... | 32 | 22 |
| 20,000 | .... | 36 | 24 |
| 24,000 | .... | .... | 28 |
| 28,000 | .... | .... | 32 |
| 32,000 | .... | .... | 36 |
| 36,000 | .... | .... | 42 |
| 40,000 | .... | .... | 46 |

***** Use one half the numbers on each side

Maximum spacing: 3/8 X 3 – 16 inches on center
1/2x4 – 20 inches on center
5/8 X 4 – 20 inches on center

Minimum number: 3 per side, 2 per end

**TABLE XXIV Assembly nailing of nailed crate (see figure 26)***

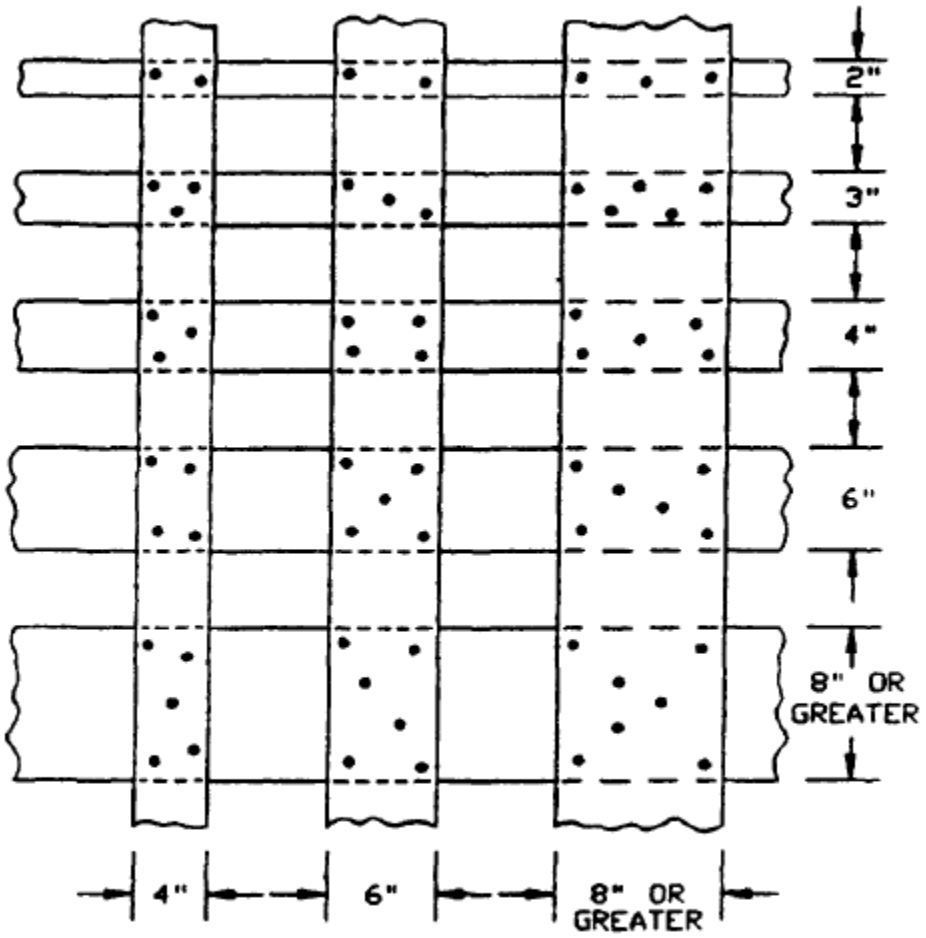
| Fasten | | Nail side and spacing | | |
|---|---|---|---|---|
| Part | To Part | Lumber sheathing | Plywood sheathing | Notes |
| Sheathing of side and end | Sid and end header (skid base)<br><br>End and side sills (sill base) | Eight penny minimum size 3-inch maximum spacing<br><br>2 rows up to 4x4 skids 3 rows 4x6 skid (on edge) 3 rows for all sill bases | Seven penny minimum size 3-inch maximum spacing<br><br>2 rows up to 4x4 skids 3 rows for 4x6 skid (on edge) 3 rows for all sill bases | See nailing table XXV for number required |
| Corner strut of end | Corner strut of side | Twenty penny predrill 12-in spacing | Twelve penny 12-in spacing | Predrill for twenty penny nails, 75% of shank diameter |
| Sheathing of side | Corner strut of end | Eight penny minimum size 6- to 8-inch spacing | Seven penny minimum size 6- to 8-inch | |

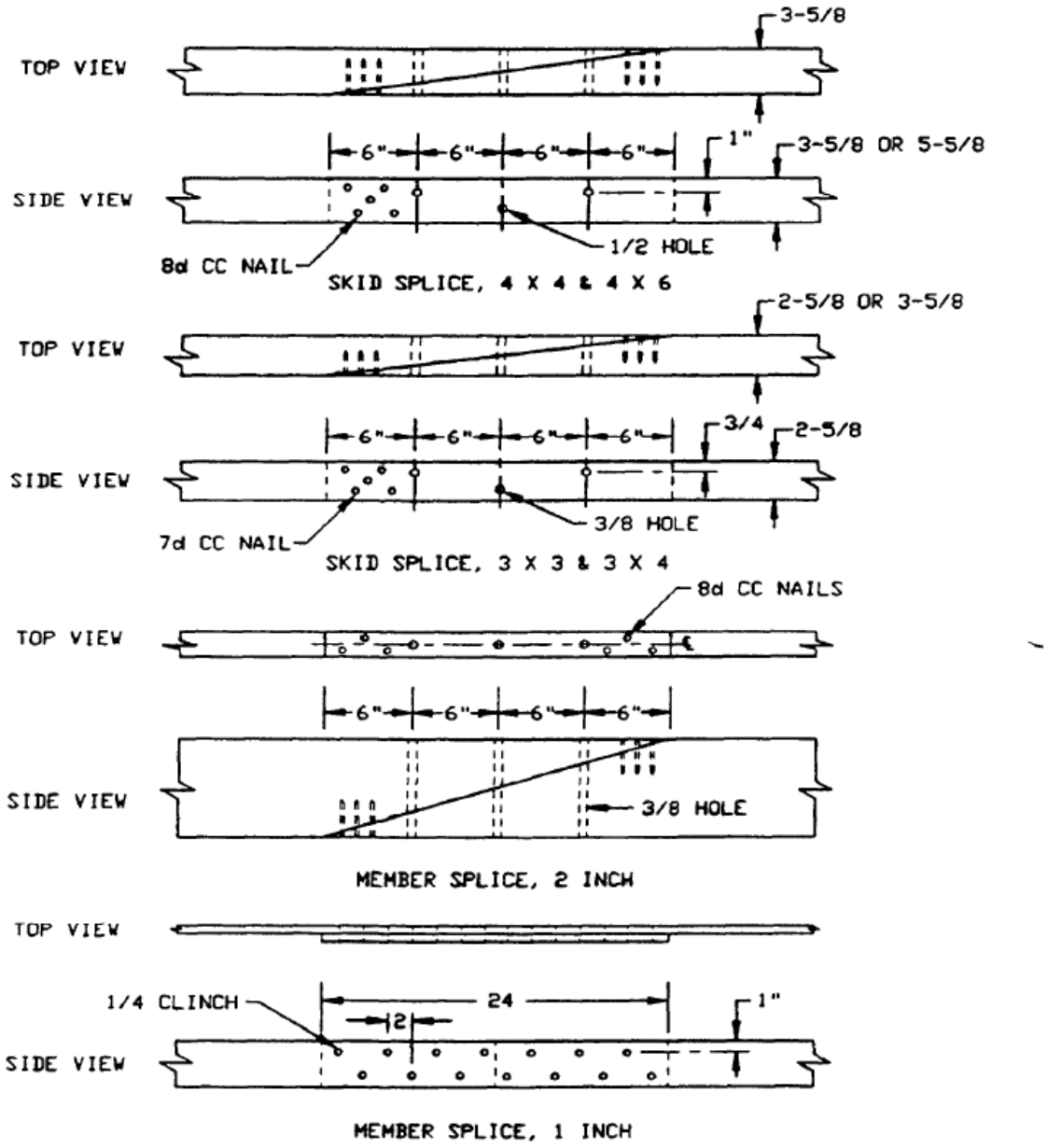
* For fastening top to sides and ends use strapping as specified in 3.3.5.5 and shown in figure 27

**TABLE XXV Number of nails per each 1000 pound gross load (nailing sheathing to base around perimeter of nailed crated.*)**

| Type of nail | Size of nail | Wood group of skid | | |
|---|---|---|---|---|
| | | II | III | IV |
| Sinker or cooler | 7d | 23 | 26 | 19 |
| | 8d or 9d | 19 | 21 | 16 |
| | 10d | 18 | 19 | 14 |
| | 12d | 15 | 16 | 12 |
| Corker | 7d | 24 | 26 | 19 |
| | 8d or 9d | 17 | 19 | 14 |
| | 10d | 15 | 16 | 12 |
| | 12d | 15 | 16 | 12 |

* Nails shall not be less than 2 per board (lumber sheathing) and shall neither be more than 3 inches apart nor less than 1-1/2 inches apart

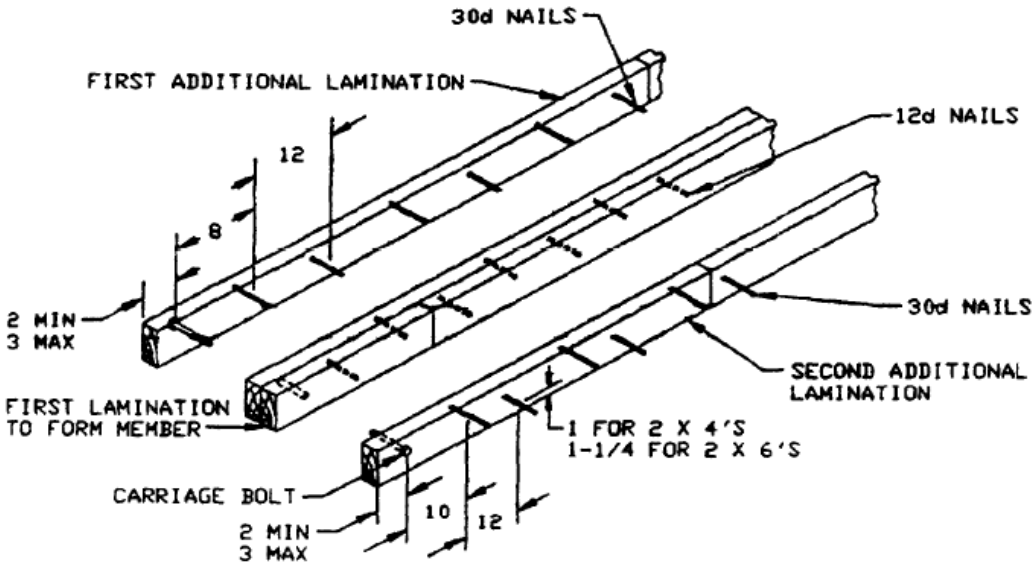

2"
3"
4"
6"
8" OR GREATER
4"
6"
8" OR GREATER

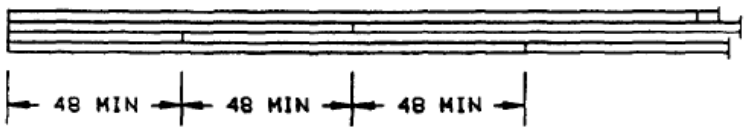



**Notes:**

1. Use Carnage Bolts
2. All dimensions in Inches

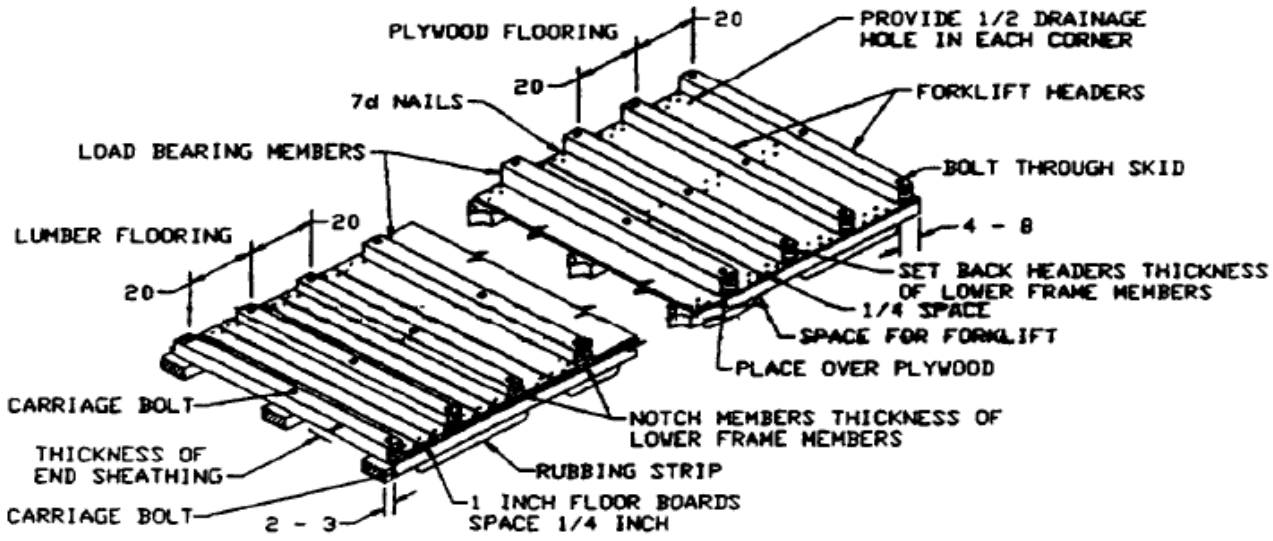
**Figure 2. Splicing of members**

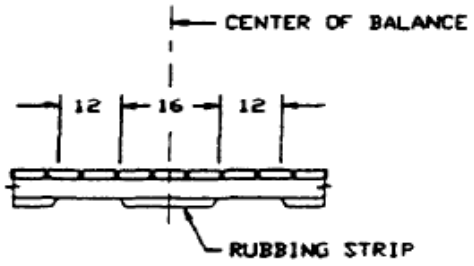


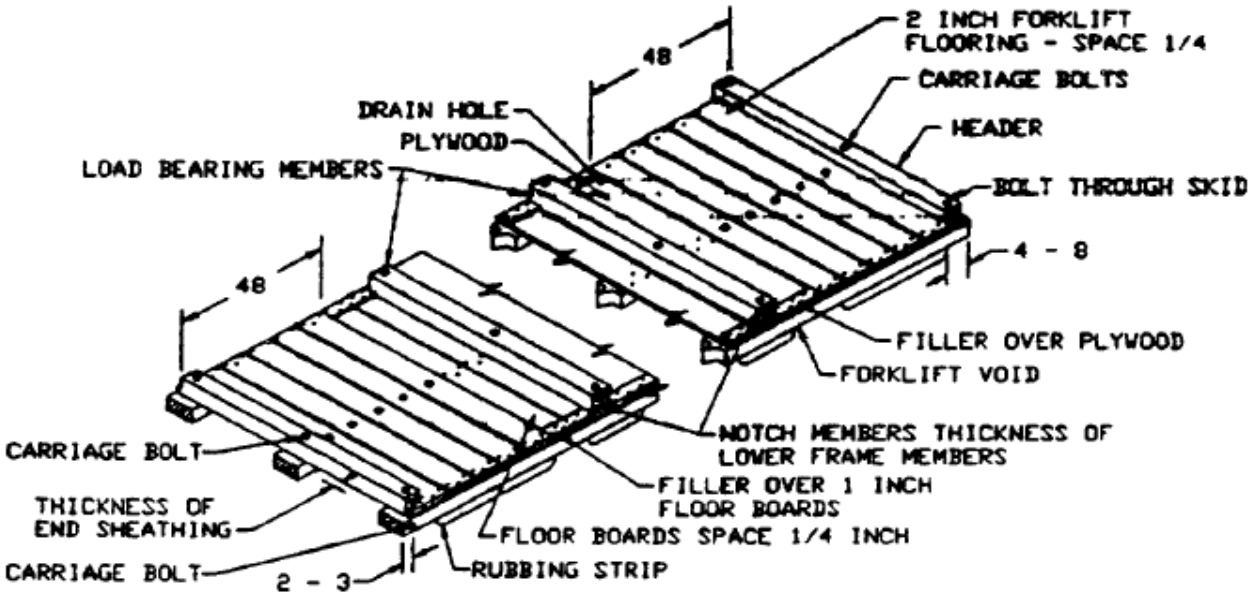

STAGGERING JOINTS TOP VIEW

**LAMINTION OF SKID OR SILL MEMBERS**
**(2 INCH THICK MATERIAL)**

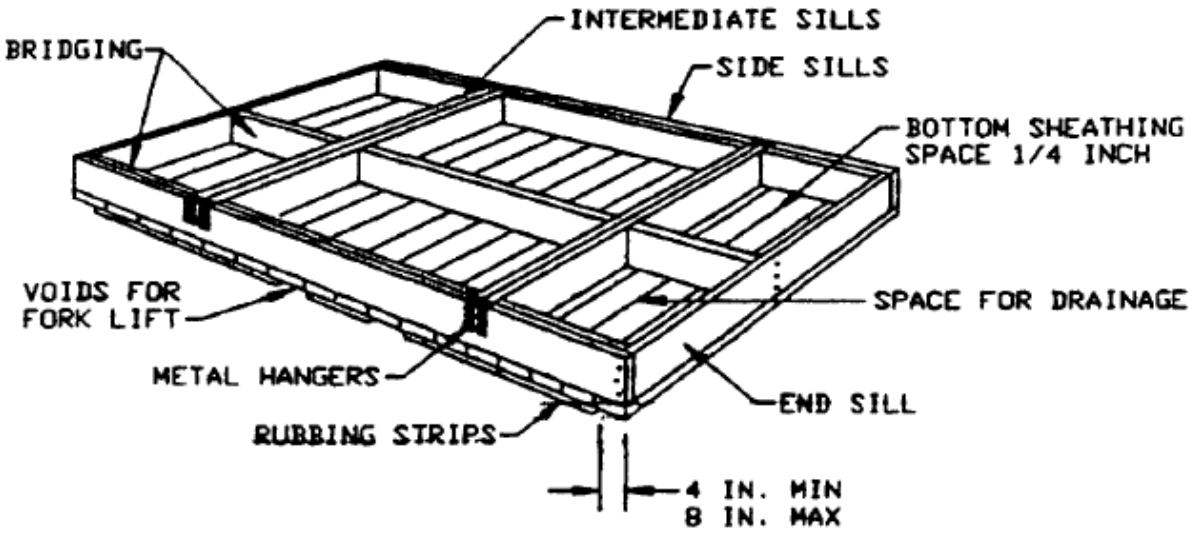


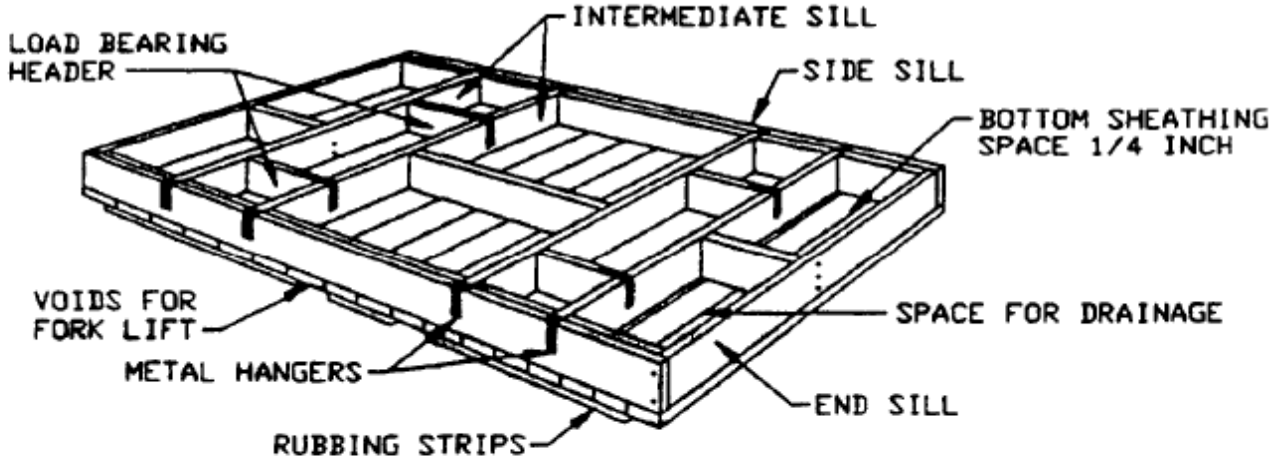

FORKLIFT AREA



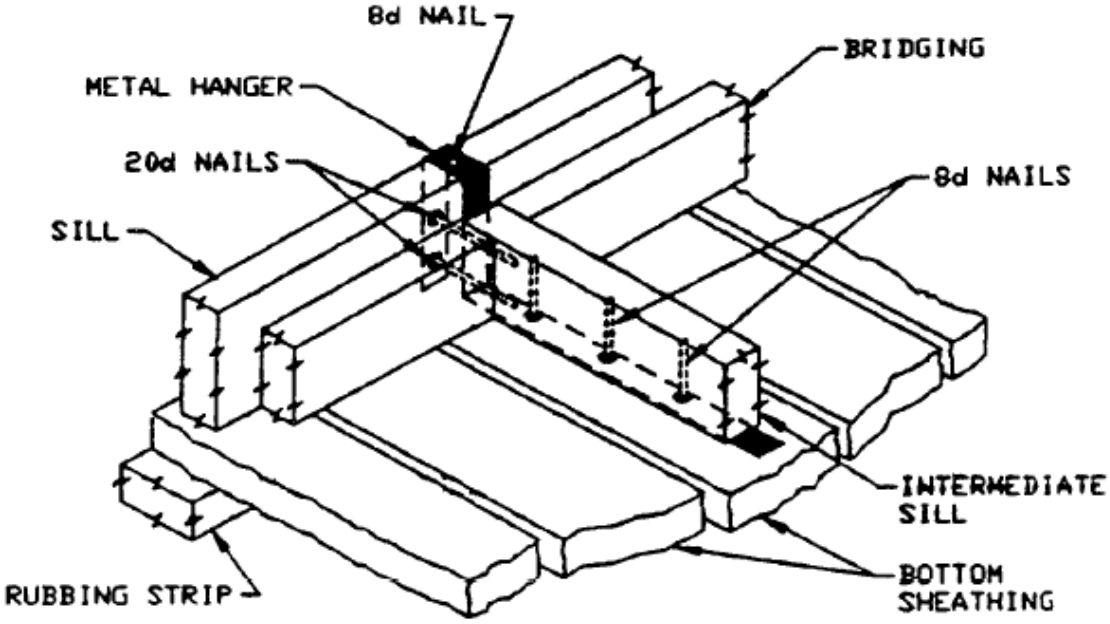

LUMBER FLOORING PLYWOOD FLOORING

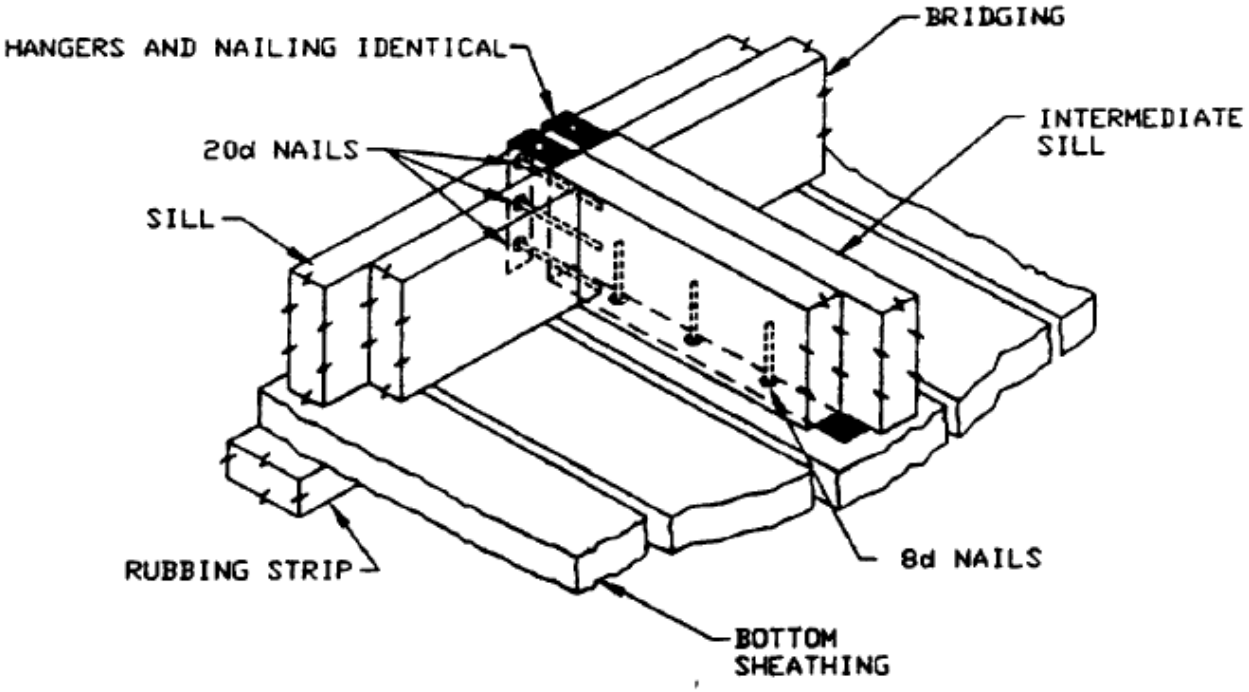


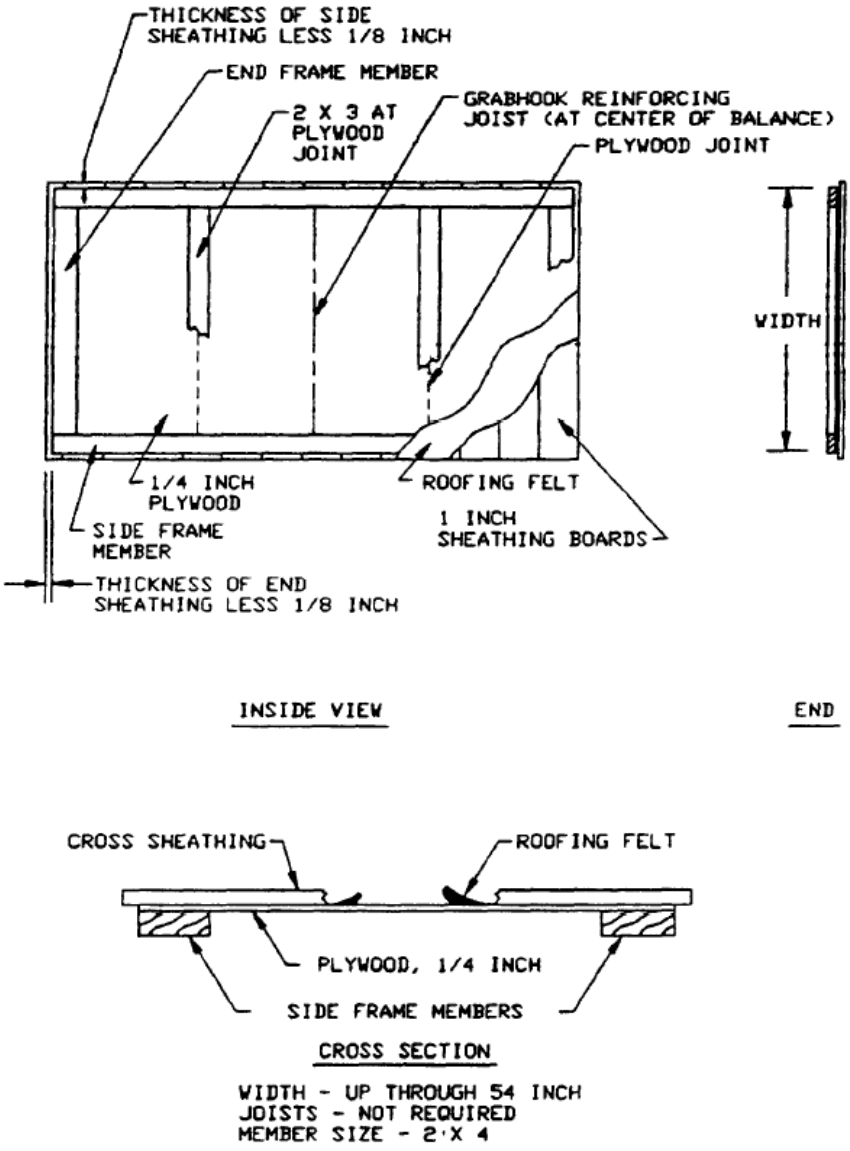

**SILL BASE WITH DOUBLED SILLS**




**SILL BASE WITH LOAD-BEARING HEADERS**

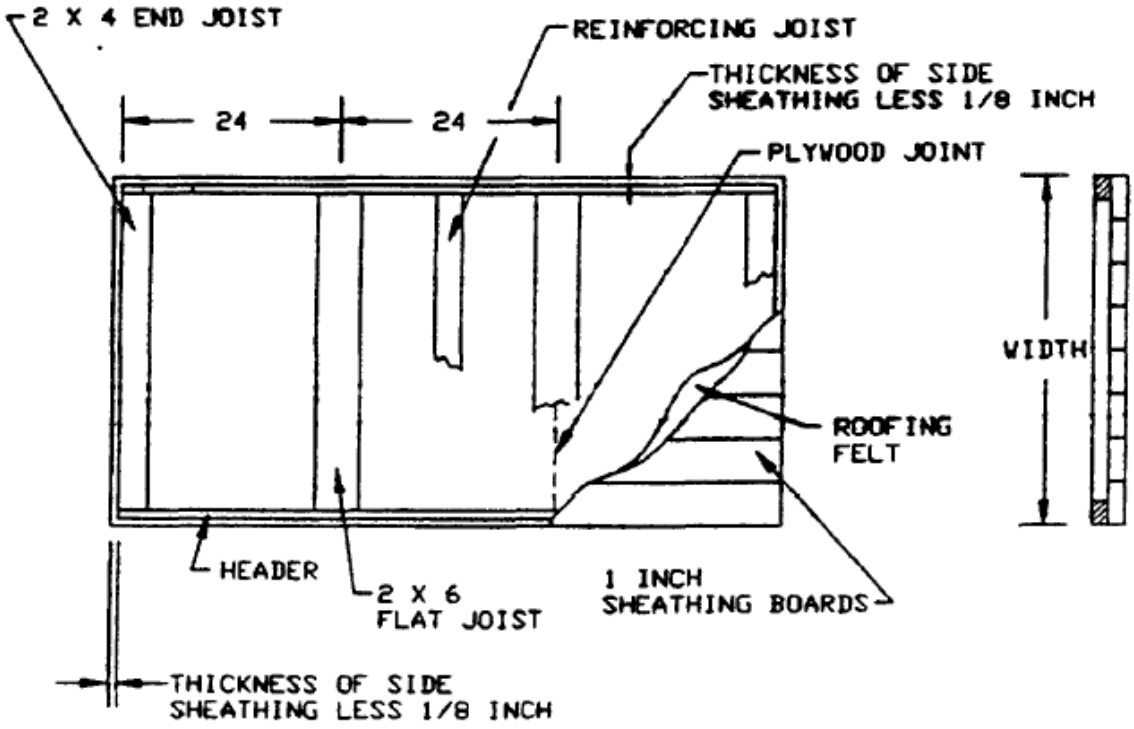

8d NAIL
BRIDGING
METAL HANGER
20d NAILS
8d NAILS
SILL
INTERMEDIATE SILL
BOTTOM SHEATHING
RUBBING STRIP

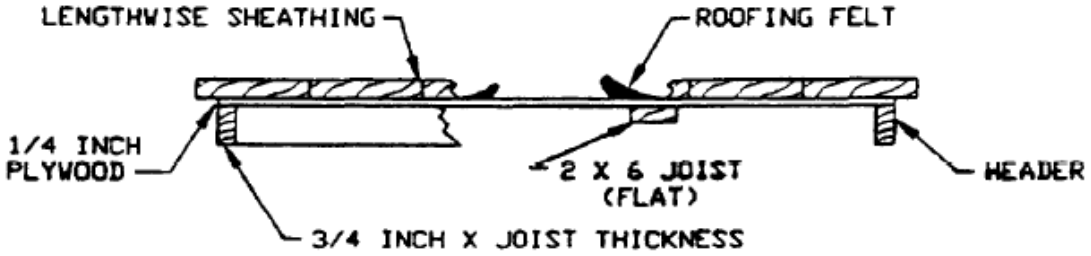

BRIDGING
HANGERS AND NAILING IDENTICAL
INTERMEDIATE SILL
20d NAILS
SILL
8d NAILS
RUBBING STRIP
BOTTOM SHEATHING




## CROSS SECTION

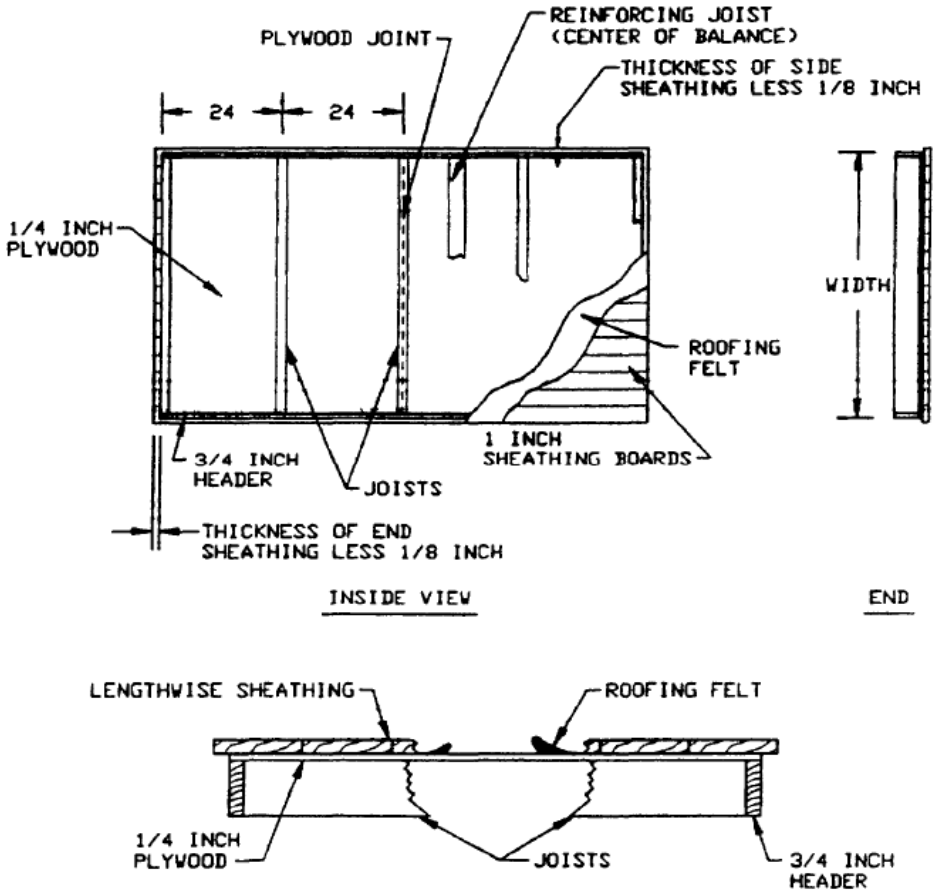
WIDTH – UP THROUGH 54 INCH
JOISTS – NOT REQUIRED
MEMBER SIZE 2’ x 4’




**CROSS SECTION**

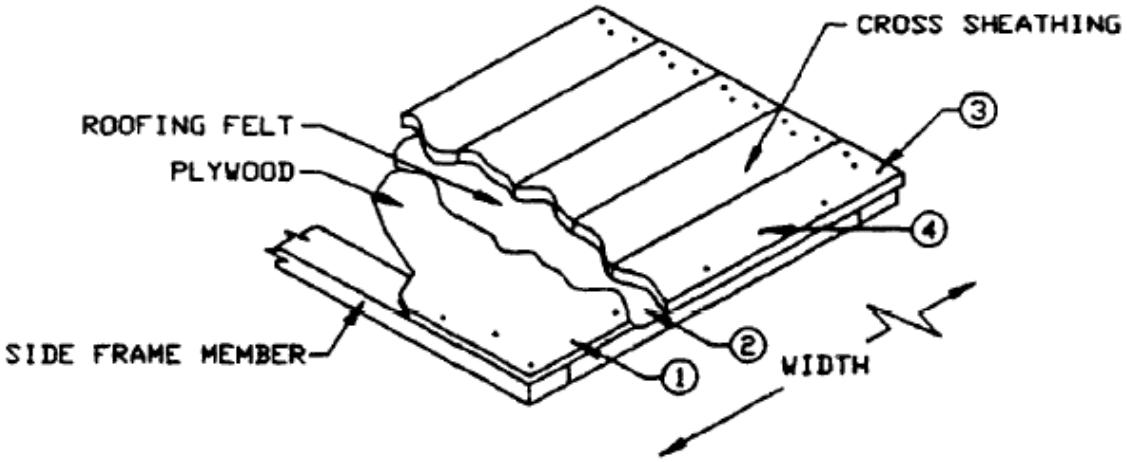
WIDTH – OVER 54 INCH THROUGH 60 INCH
JOISTS – 2x6 (FLAT), 24 INCHES O.C.
2x4 (FLAT) END JOIST
HEADER – 3/4 INCH x JOIST THICKNESS




## CROSS SECTION

**WIDTH - OVER 60 INCHES THROUGH 120 INCHES**
**JOISTS - (SPACE 24 INCHES O.C.)**

| SPAN | SIZE |
|---|---|
| **OVER 60 INCHES THRU 66 INCHES** | **2x4** |
| **OVER 66 INCHES THRU 78 INCHES** | **2x4 PLUS 1x4 OR 3 X 4 1/** |
| **OVER 78 INCHES THRU 90 INCHES** | **2 – 2x4 OR 4x 4 1/** |
| **OVER 90 INCHES THRU 102 INCHES** | **2x6** |
| **OVER 102 INCHES THRU 120 INCHES** | **2x6 PLUS 1x6 OR 3 X 6 1/** |



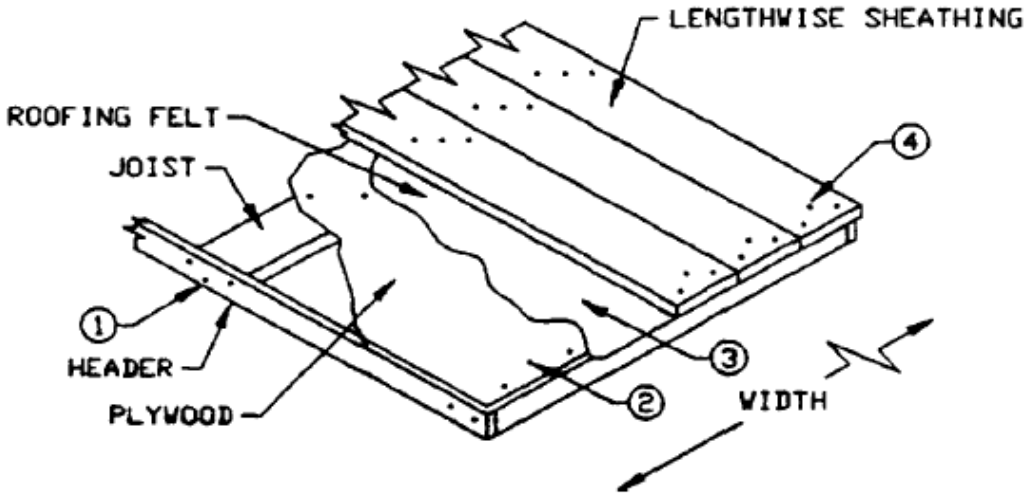

NARROW TOPS

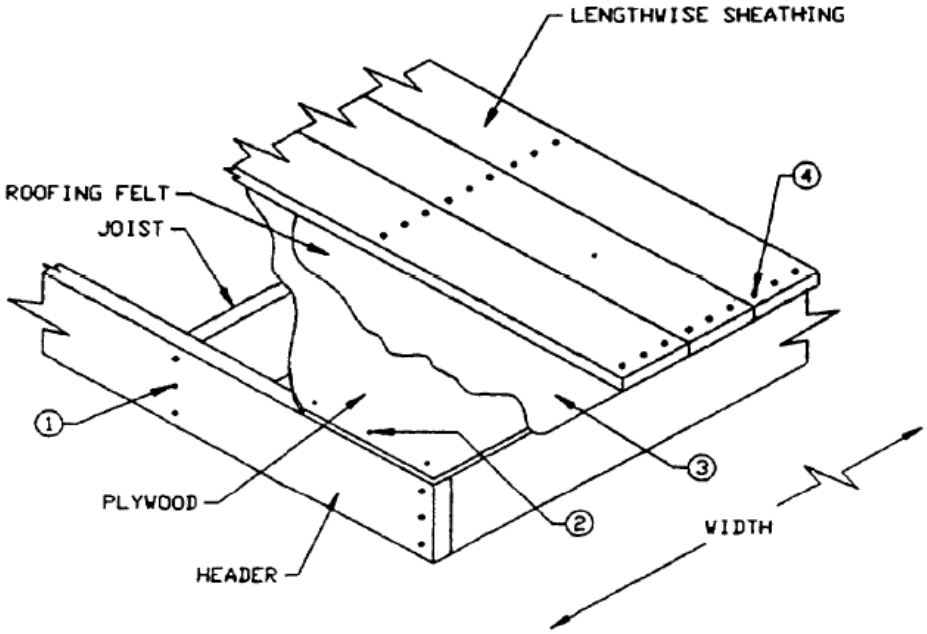
① PLYWOOD TO FRAME MEMBERS
NAILS - 5d CEMENT COATED
SPACING - 8 INCHES O. C.

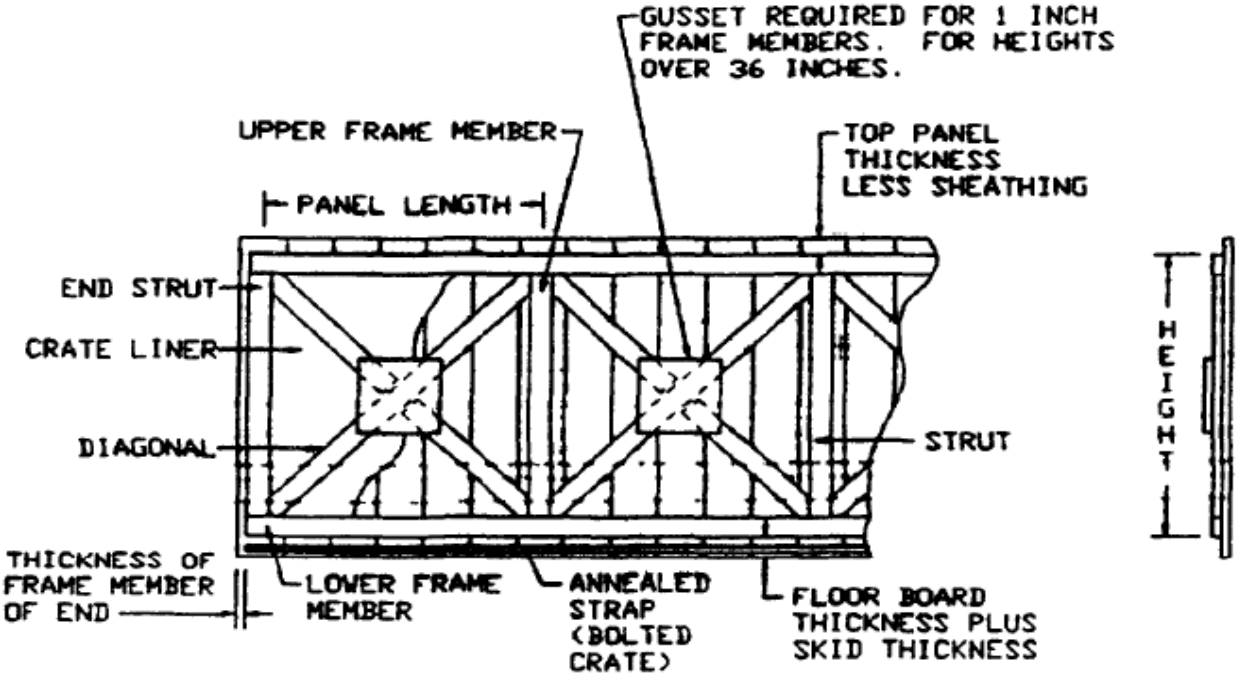
② ROOFING FELT - 4 INCH LAP AT JOINT - USE MASTIC

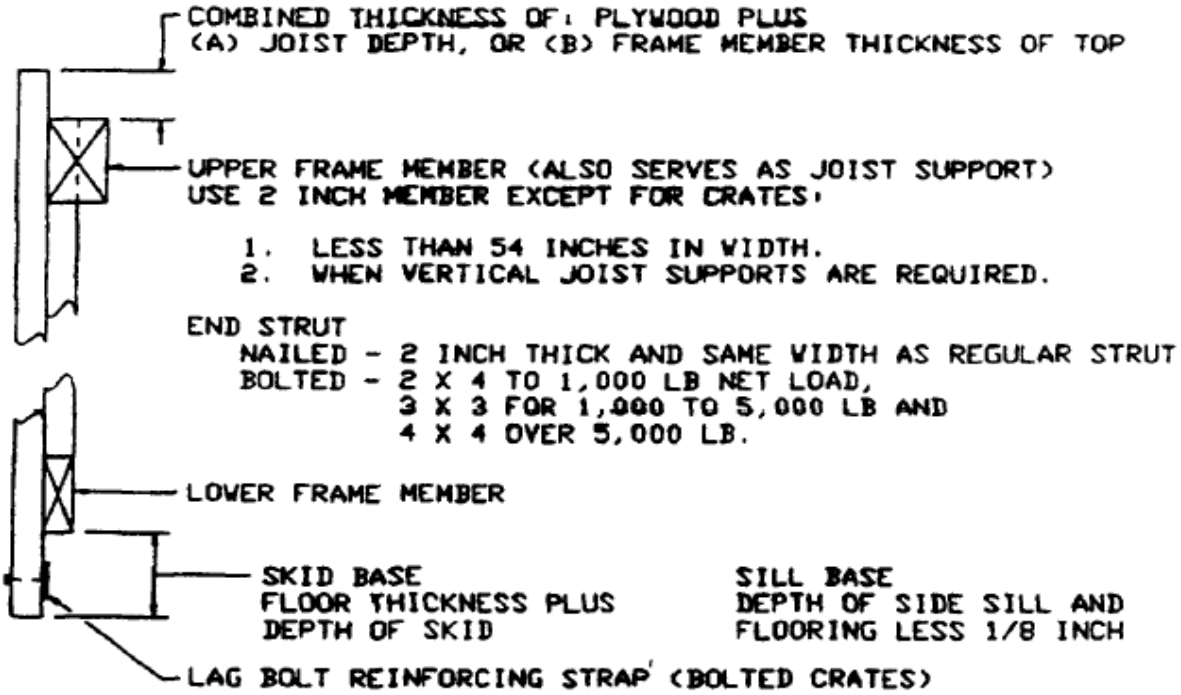
③ SHEATHING THROUGH PLYWOOD INTO FRAMING MEMBER
NAILS - 8d CEMENT COATED
SPACING - 3 INCHES O C (MINIMUM 2 PER BOARD)

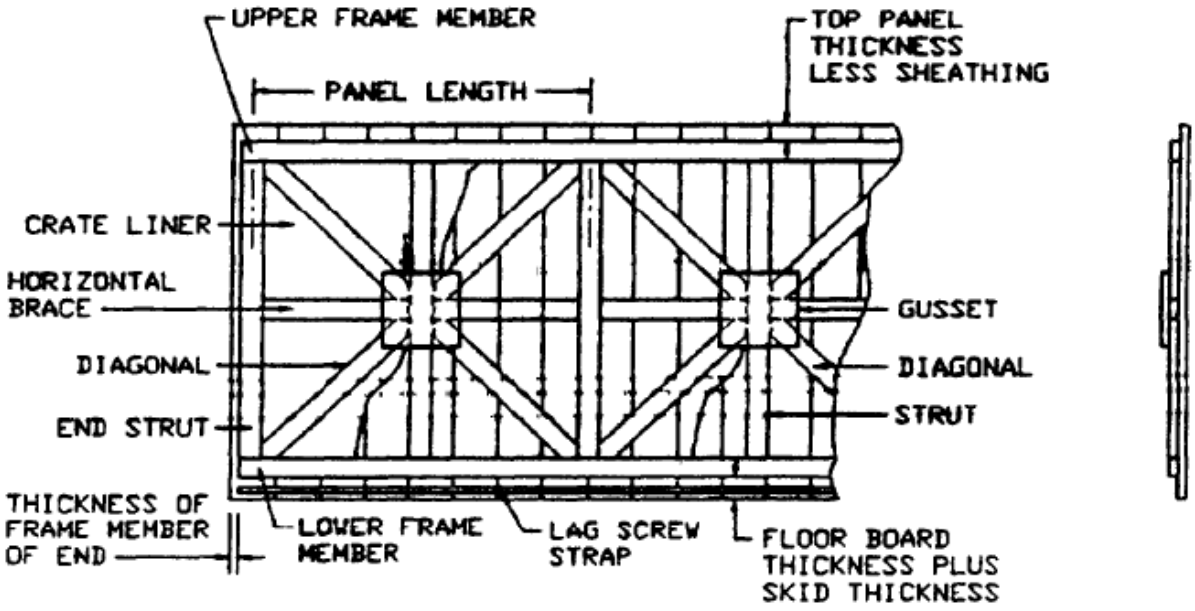
④ AS ③ BUT SPACE 8 INCHES O. C.

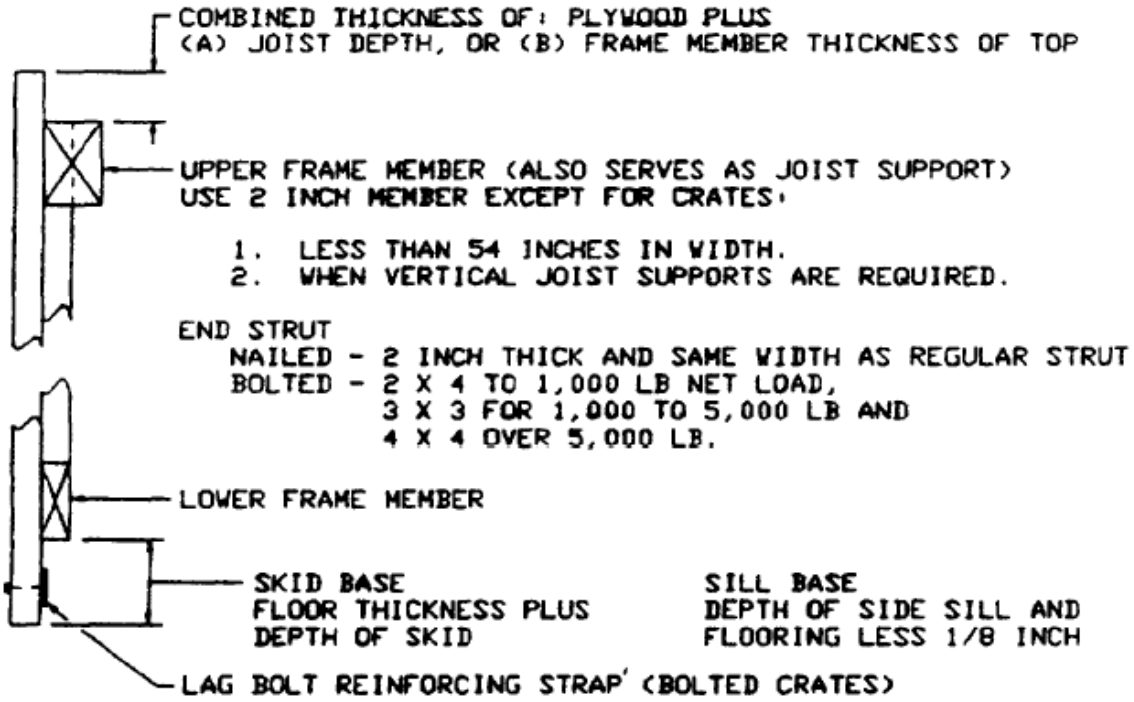


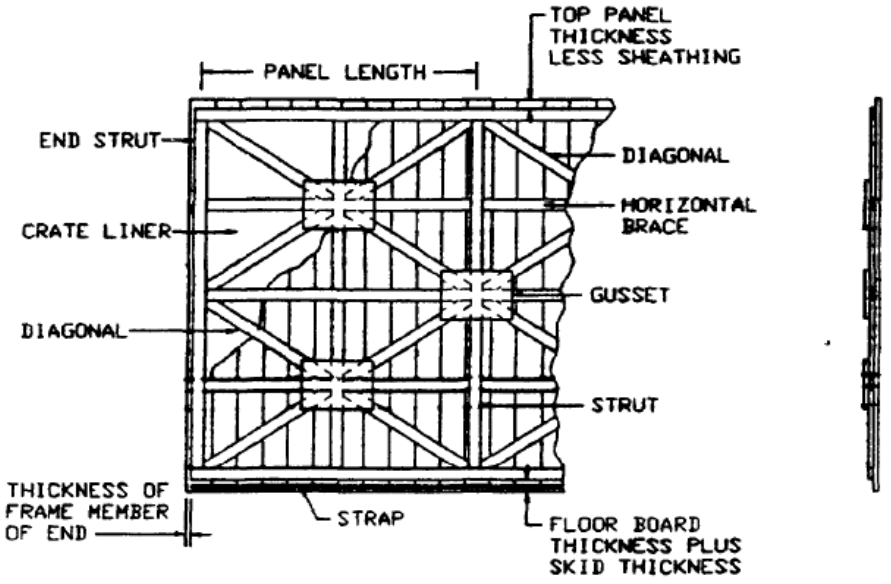

LENGTHWISE SHEATHING
ROOFING FELT
JOIST
4
1
3
2
PLYWOOD
HEADER
WIDTH

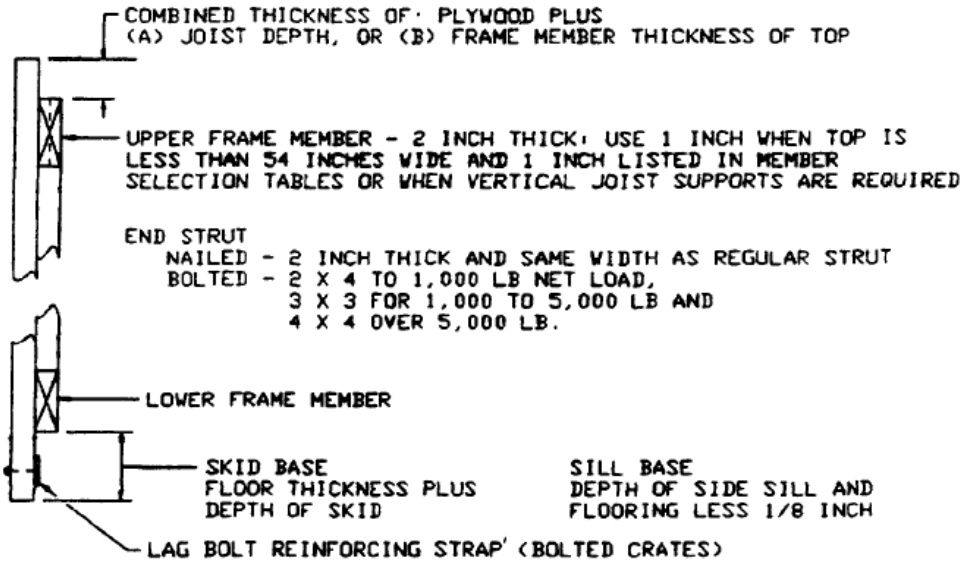

GUSSET REQUIRED FOR 1 INCH FRAME MEMBERS. FOR HEIGHTS OVER 36 INCHES.
UPPER FRAME MEMBER
TOP PANEL THICKNESS LESS SHEATHING
PANEL LENGTH
END STRUT
CRATE LINER
DIAGONAL
STRUT
HEIGHT
THICKNESS OF FRAME MEMBER OF END
LOWER FRAME MEMBER
ANNEALED STRAP (BOLTED CRATE)
FLOOR BOARD THICKNESS PLUS SKID THICKNESS

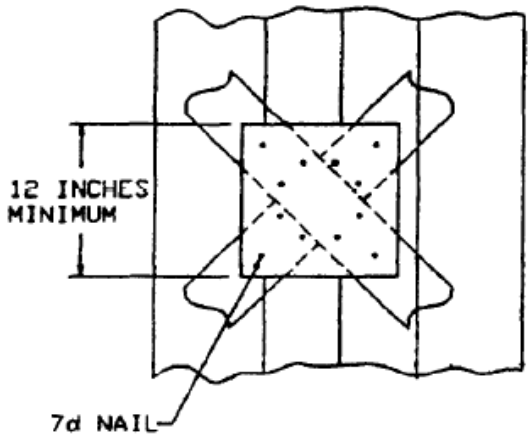

COMBINED THICKNESS OF: PLYWOOD PLUS (A) JOIST DEPTH, OR (B) FRAME MEMBER THICKNESS OF TOP
UPPER FRAME MEMBER (ALSO SERVES AS JOIST SUPPORT) USE 2 INCH MEMBER EXCEPT FOR CRATES:
1. LESS THAN 54 INCHES IN WIDTH.
2. WHEN VERTICAL JOIST SUPPORTS ARE REQUIRED.
END STRUT
NAILED - 2 INCH THICK AND SAME WIDTH AS REGULAR STRUT
BOLTED - 2 X 4 TO 1,000 LB NET LOAD,
3 X 3 FOR 1,000 TO 5,000 LB AND
4 X 4 OVER 5,000 LB.
LOWER FRAME MEMBER
SKID BASE
FLOOR THICKNESS PLUS DEPTH OF SKID
SILL BASE
DEPTH OF SIDE SILL AND FLOORING LESS 1/8 INCH
LAG BOLT REINFORCING STRAP (BOLTED CRATES)


UPPER FRAME MEMBER
PANEL LENGTH
TOP PANEL THICKNESS LESS SHEATHING
CRATE LINER
HORIZONTAL BRACE
DIAGONAL
END STRUT
GUSSET
DIAGONAL
STRUT
THICKNESS OF FRAME MEMBER OF END
LOWER FRAME MEMBER
LAG SCREW STRAP
FLOOR BOARD THICKNESS PLUS SKID THICKNESS


COMBINED THICKNESS OF: PLYWOOD PLUS (A) JOIST DEPTH, OR (B) FRAME MEMBER THICKNESS OF TOP
UPPER FRAME MEMBER (ALSO SERVES AS JOIST SUPPORT) USE 2 INCH MEMBER EXCEPT FOR CRATES:
1. LESS THAN 54 INCHES IN WIDTH.
2. WHEN VERTICAL JOIST SUPPORTS ARE REQUIRED.
END STRUT
NAILED - 2 INCH THICK AND SAME WIDTH AS REGULAR STRUT
BOLTED - 2 X 4 TO 1,000 LB NET LOAD,
3 X 3 FOR 1,000 TO 5,000 LB AND
4 X 4 OVER 5,000 LB.
LOWER FRAME MEMBER
SKID BASE
FLOOR THICKNESS PLUS DEPTH OF SKID
SILL BASE
DEPTH OF SIDE SILL AND FLOORING LESS 1/8 INCH
LAG BOLT REINFORCING STRAP (BOLTED CRATES)


TOP PANEL
THICKNESS
LESS SHEATHING
PANEL LENGTH
END STRUT
DIAGONAL
HORIZONTAL
BRACE
CRATE LINER
GUSSET
DIAGONAL
STRUT
THICKNESS OF
FRAME MEMBER
OF END
STRAP
FLOOR BOARD
THICKNESS PLUS
SKID THICKNESS


COMBINED THICKNESS OF: PLYWOOD PLUS
(A) JOIST DEPTH, OR (B) FRAME MEMBER THICKNESS OF TOP
UPPER FRAME MEMBER - 2 INCH THICK; USE 1 INCH WHEN TOP IS
LESS THAN 54 INCHES WIDE AND 1 INCH LISTED IN MEMBER
SELECTION TABLES OR WHEN VERTICAL JOIST SUPPORTS ARE REQUIRED
END STRUT
NAILED - 2 INCH THICK AND SAME WIDTH AS REGULAR STRUT
BOLTED - 2 X 4 TO 1,000 LB NET LOAD,
3 X 3 FOR 1,000 TO 5,000 LB AND
4 X 4 OVER 5,000 LB.
LOWER FRAME MEMBER
SKID BASE
FLOOR THICKNESS PLUS
DEPTH OF SKID
SILL BASE
DEPTH OF SIDE SILL AND
FLOORING LESS 1/8 INCH
LAG BOLT REINFORCING STRAP (BOLTED CRATES)



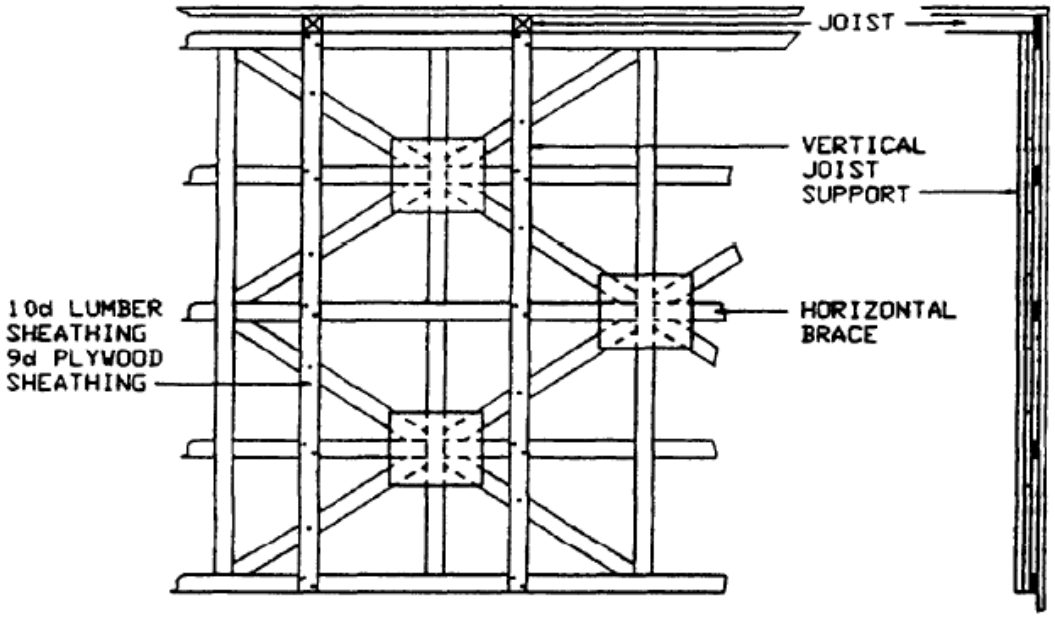

PLYWOOD GUSSET

1 USE 1/4 INCH PLYWOOD SHORTEST DIMENSION 12 INCHES MINIMUM.

2. USE 3 NAILS (MIN.) PER MEMBER INTERSECTION - CLINCH ON SHEATHING SIDE.

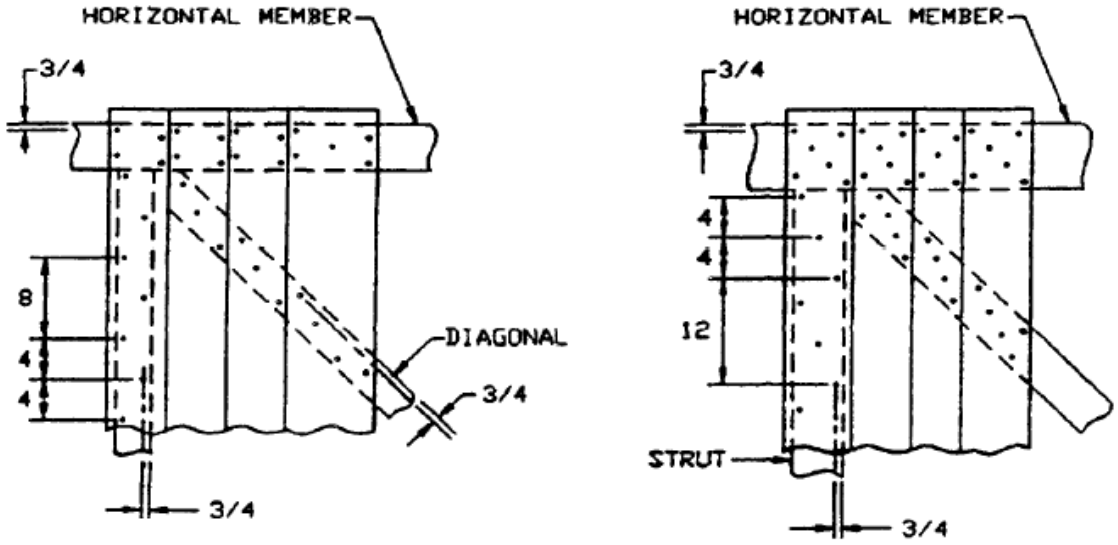
3 CENTER CORNERS ON CENTERLINE OF DIAGONALS.

4. FOR CRATES WITH 1 INCH MEMBERS AND HEIGHTS OVER 36 INCHES.




VERTICAL JOIST SUPPORTS

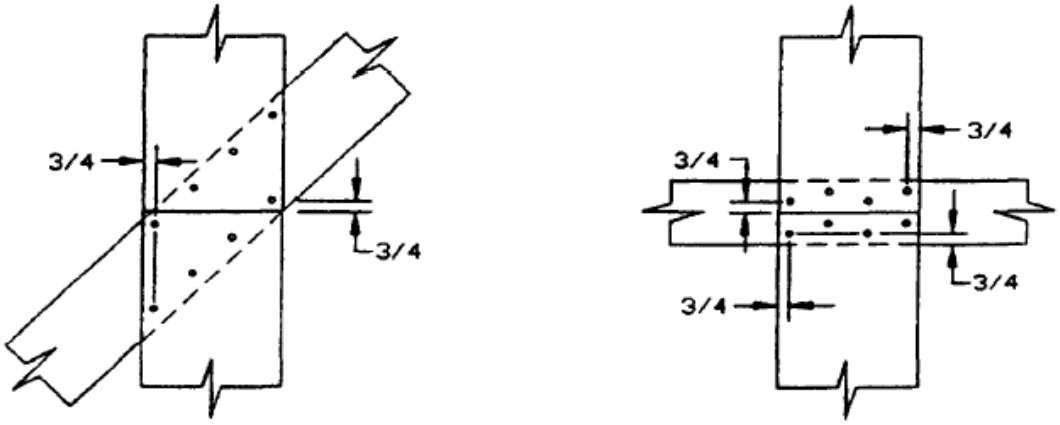
USE FOR 12 FOOT CRATE HEIGHT IN 6 FOOT WIDTH AND FOR 10 FOOT HEIGHT IN 8 FOOT WIDTH WHEN STRUTS ARE SHOWN AS 1 INCH THICK IN MEMBER SELECTION TABLES IV TO IX




FRAME MEMBER WIDTH

4 INCH AND 6 INCH WIDTHS

8 INCH AND WIDER



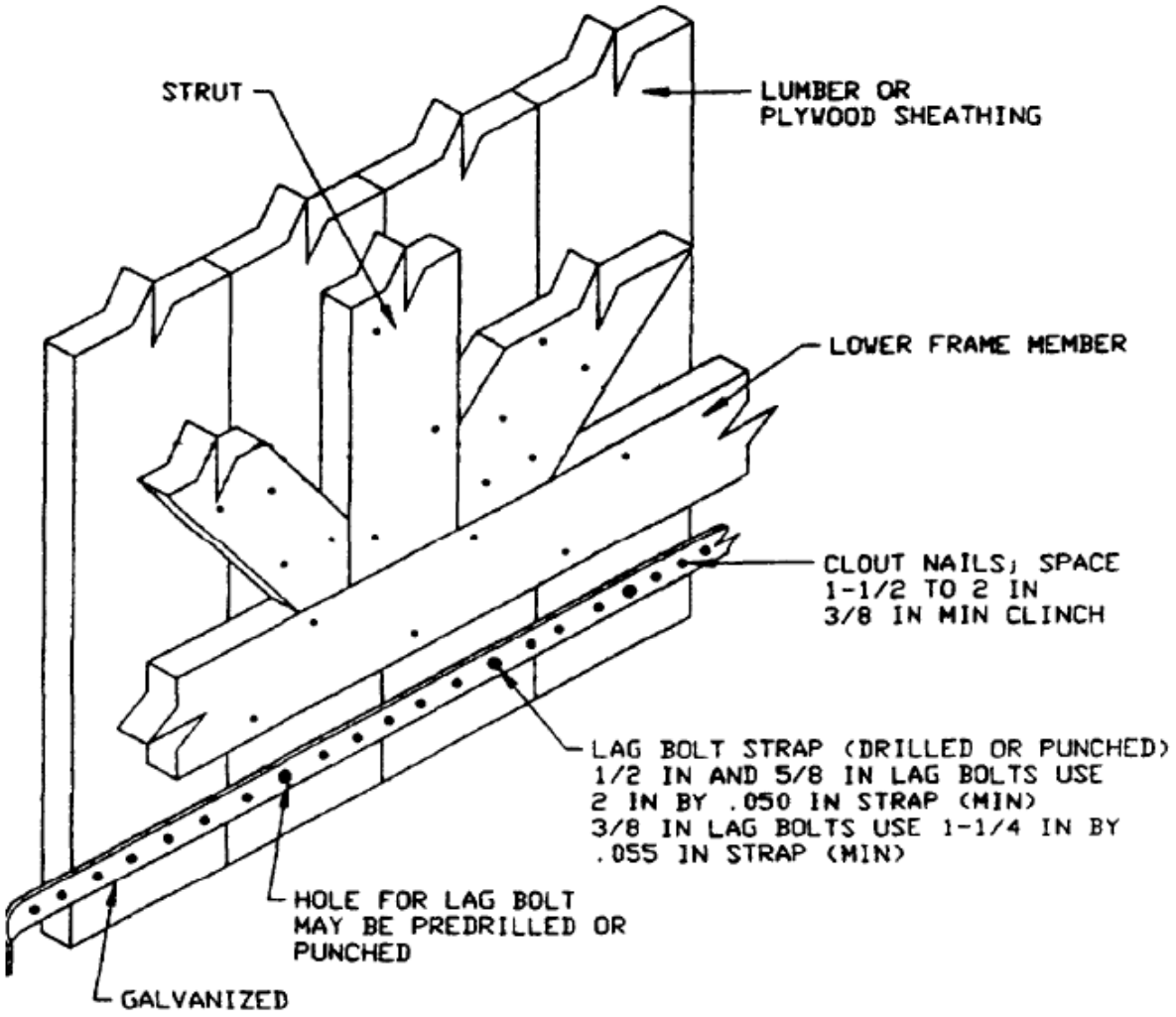

BUTT JOINTS OF SHEATHING

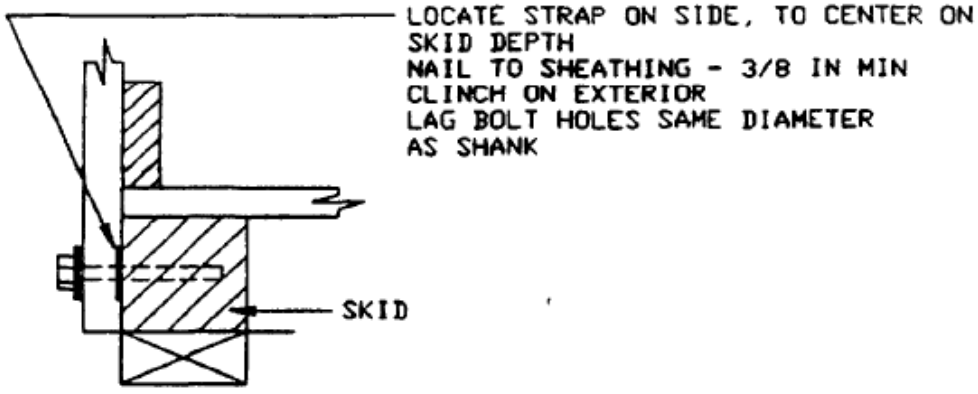
AT DIAGONAL

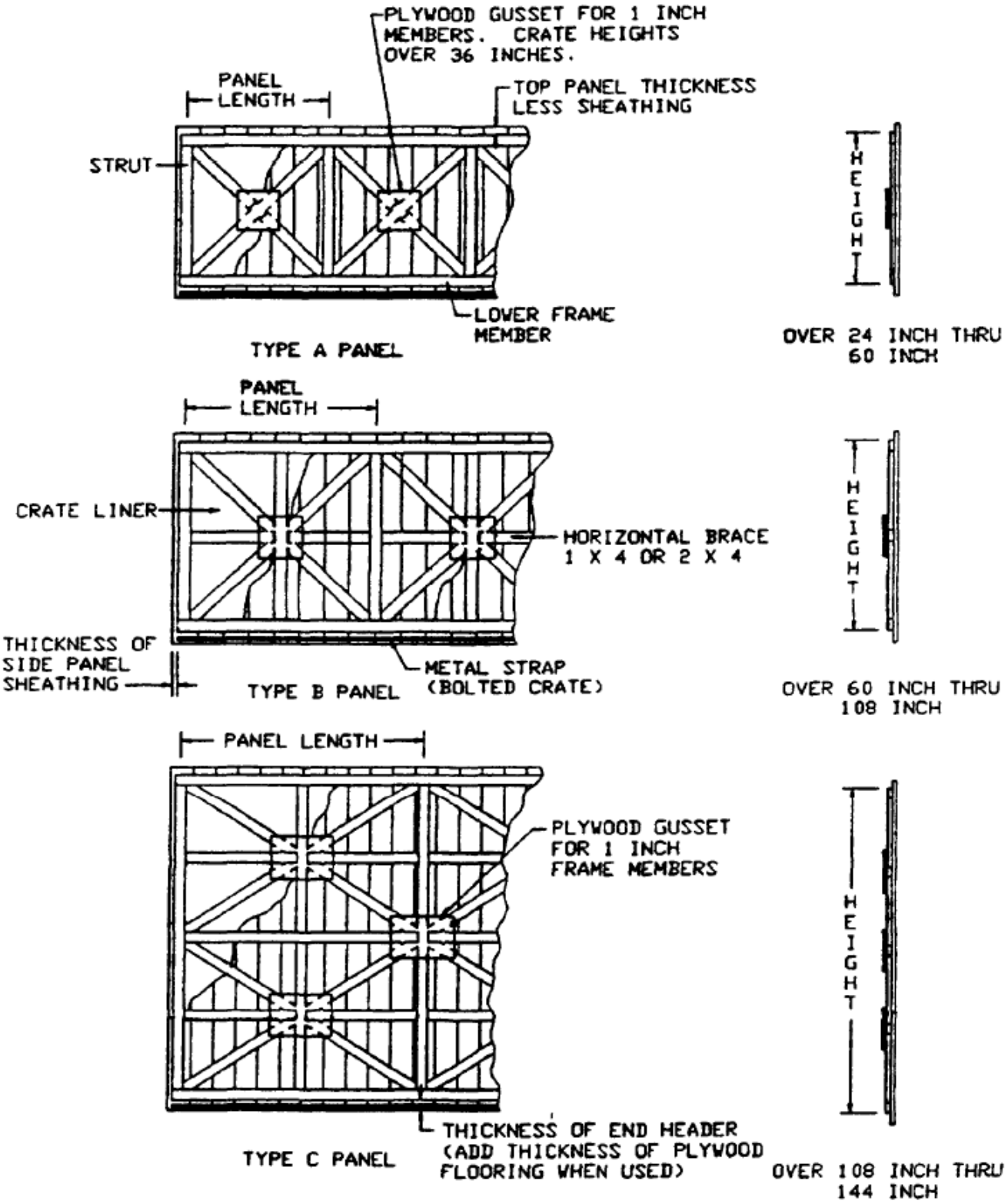
3 NAILS - 1 X 4 - 1 X 6
4 NAILS - 1 X 8 AND WIDER

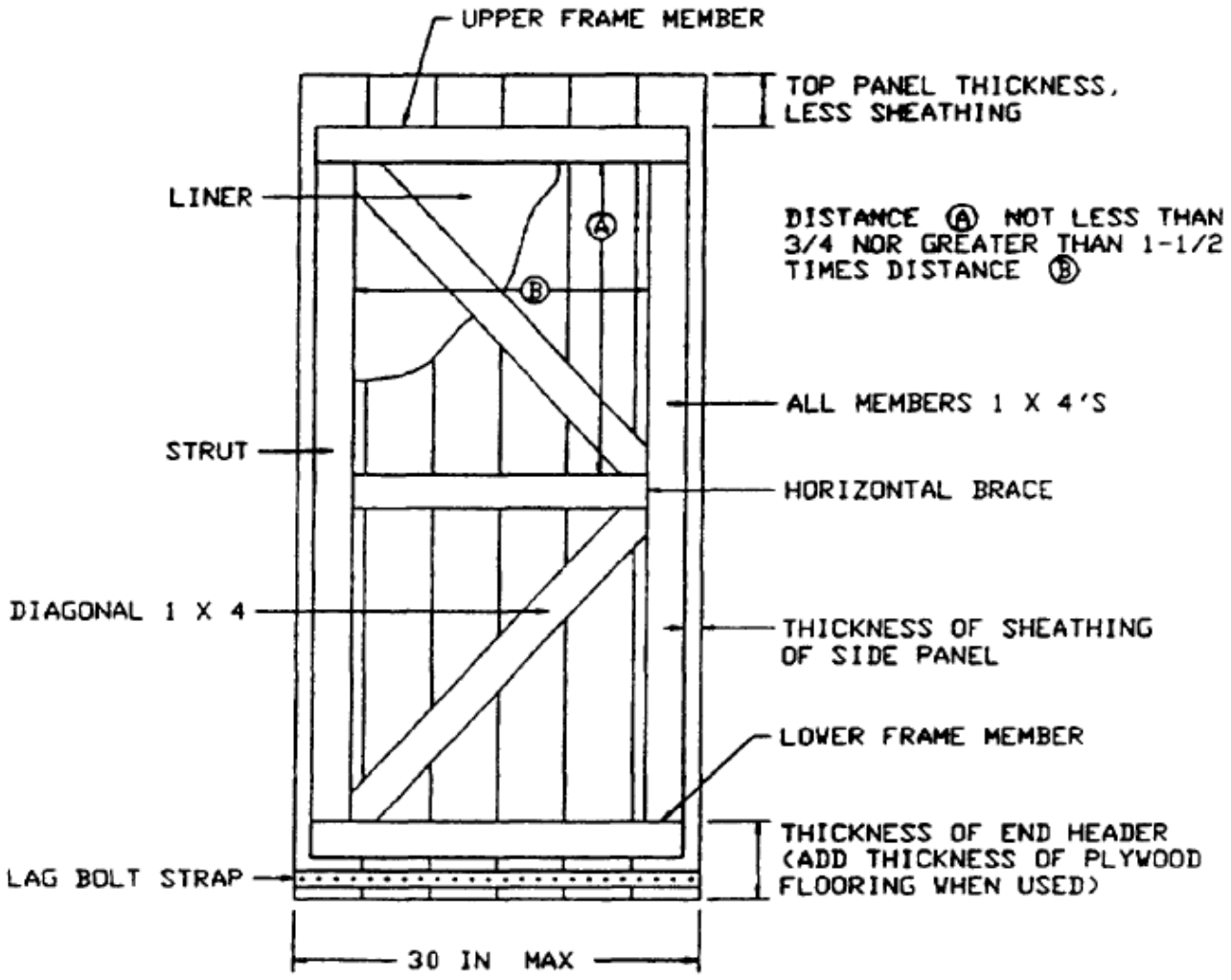
AT HORIZONTAL MEMBER

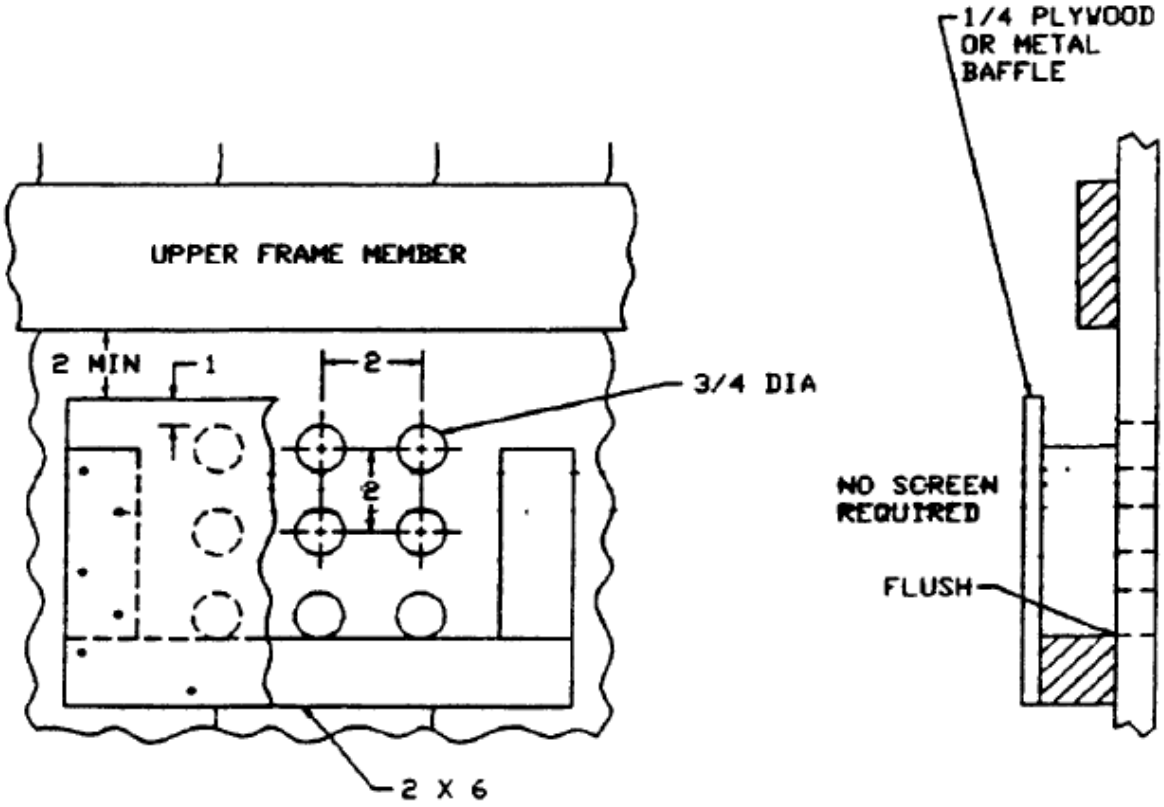
3 NAILS - 1 X 4 - 1 X 6
4 NAILS - 1 X 8 AND WIDER


STRUT
LUMBER OR
PLYWOOD SHEATHING
LOWER FRAME MEMBER
CLOUT NAILS; SPACE
1-1/2 TO 2 IN
3/8 IN MIN CLINCH
LAG BOLT STRAP (DRILLED OR PUNCHED)
1/2 IN AND 5/8 IN LAG BOLTS USE
2 IN BY .050 IN STRAP (MIN)
3/8 IN LAG BOLTS USE 1-1/4 IN BY
.055 IN STRAP (MIN)
HOLE FOR LAG BOLT
MAY BE PREDRILLED OR
PUNCHED
GALVANIZED

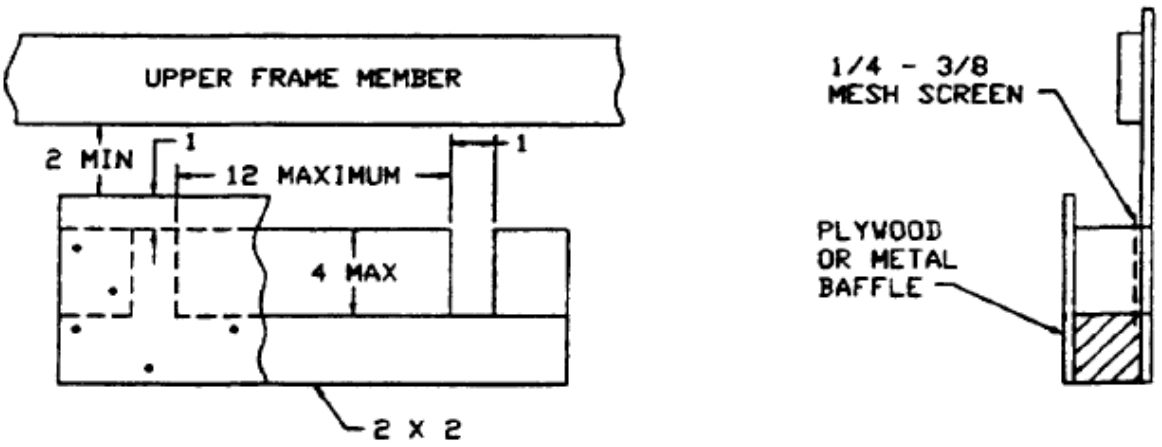

LOCATE STRAP ON SIDE, TO CENTER ON
SKID DEPTH
NAIL TO SHEATHING - 3/8 IN MIN
CLINCH ON EXTERIOR
LAG BOLT HOLES SAME DIAMETER
AS SHANK
SKID

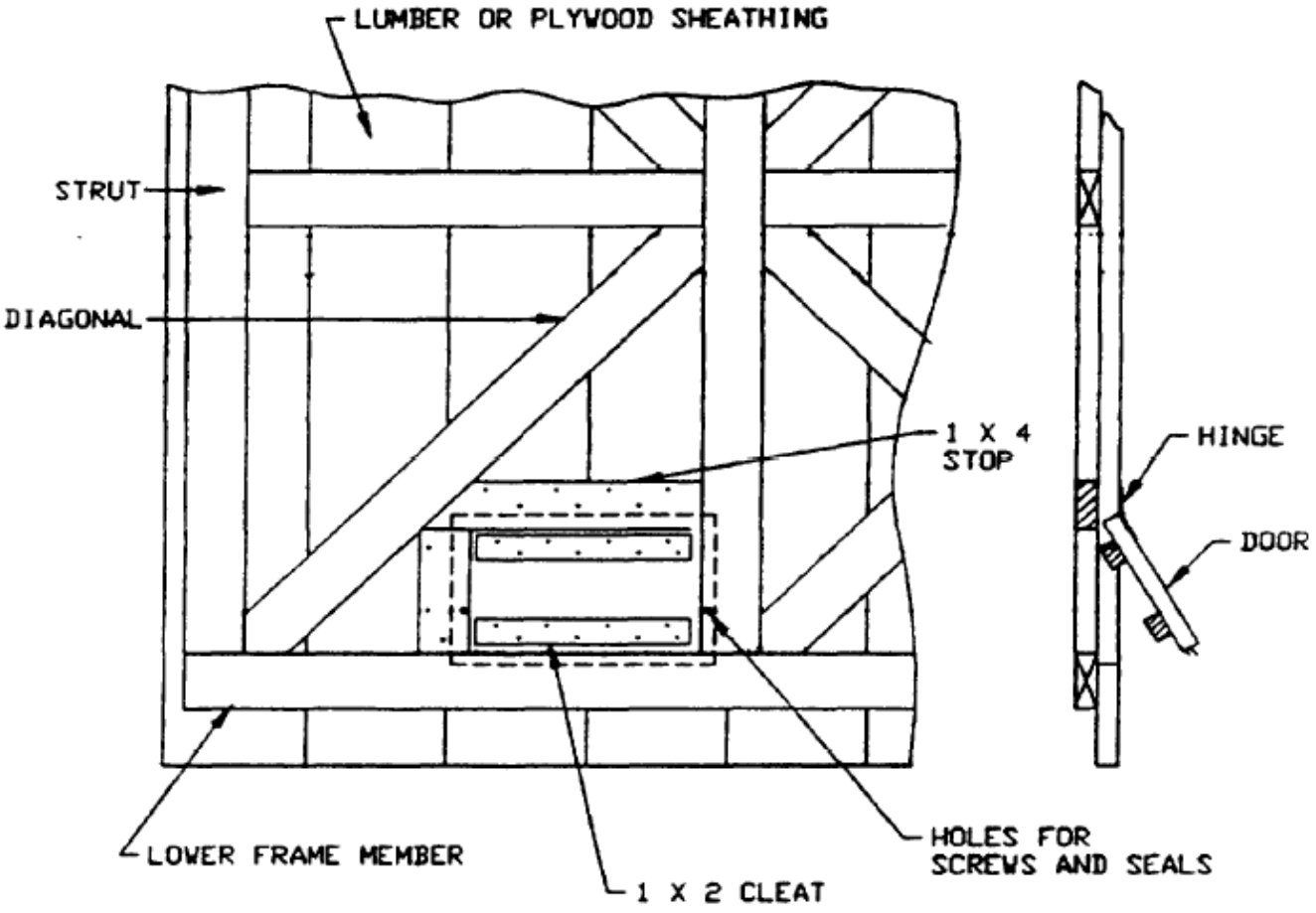

PLYWOOD GUSSET FOR 1 INCH MEMBERS. CRATE HEIGHTS OVER 36 INCHES.
PANEL LENGTH
TOP PANEL THICKNESS LESS SHEATHING
STRUT
LOWER FRAME MEMBER
TYPE A PANEL
HEIGHT
OVER 24 INCH THRU 60 INCH
PANEL LENGTH
CRATE LINER
HORIZONTAL BRACE 1 X 4 OR 2 X 4
THICKNESS OF SIDE PANEL SHEATHING
METAL STRAP (BOLTED CRATE)
TYPE B PANEL
HEIGHT
OVER 60 INCH THRU 108 INCH
PANEL LENGTH
PLYWOOD GUSSET FOR 1 INCH FRAME MEMBERS
THICKNESS OF END HEADER (ADD THICKNESS OF PLYWOOD FLOORING WHEN USED)
TYPE C PANEL
HEIGHT
OVER 108 INCH THRU 144 INCH

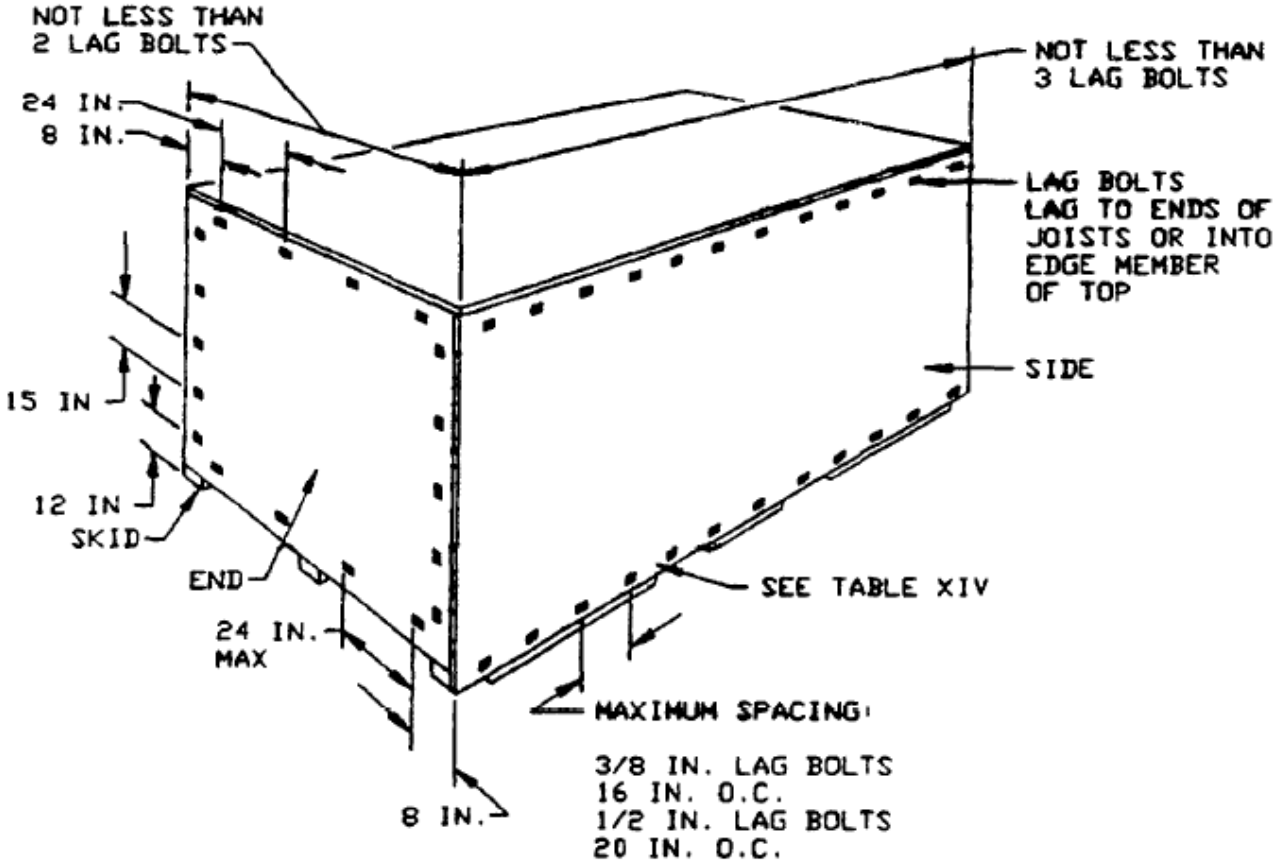

UPPER FRAME MEMBER
TOP PANEL THICKNESS, LESS SHEATHING
LINER
DISTANCE (A) NOT LESS THAN 3/4 NOR GREATER THAN 1-1/2 TIMES DISTANCE (B)
ALL MEMBERS 1 X 4'S
STRUT
HORIZONTAL BRACE
DIAGONAL 1 X 4
THICKNESS OF SHEATHING OF SIDE PANEL
LOWER FRAME MEMBER
THICKNESS OF END HEADER (ADD THICKNESS OF PLYWOOD FLOORING WHEN USED)
LAG BOLT STRAP
30 IN MAX

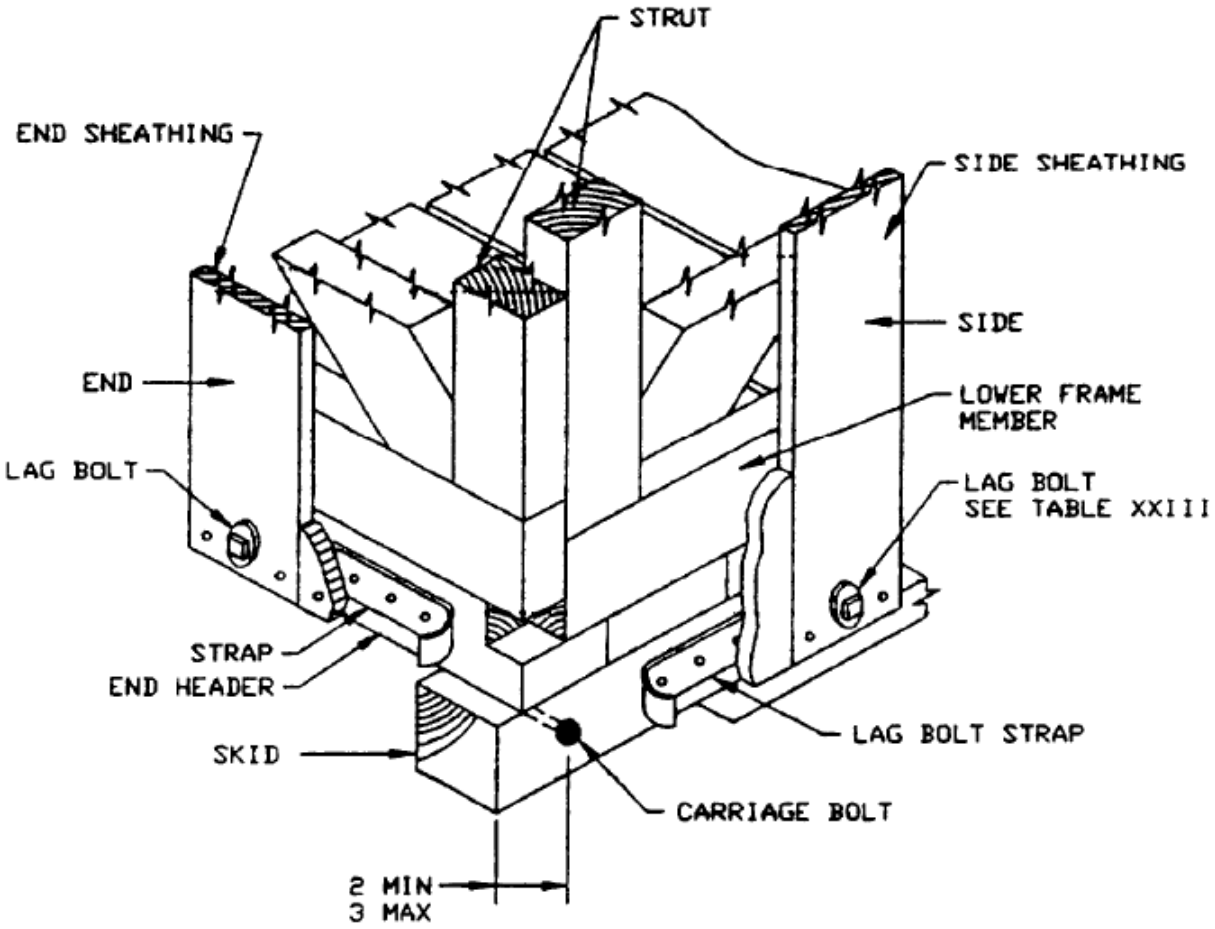


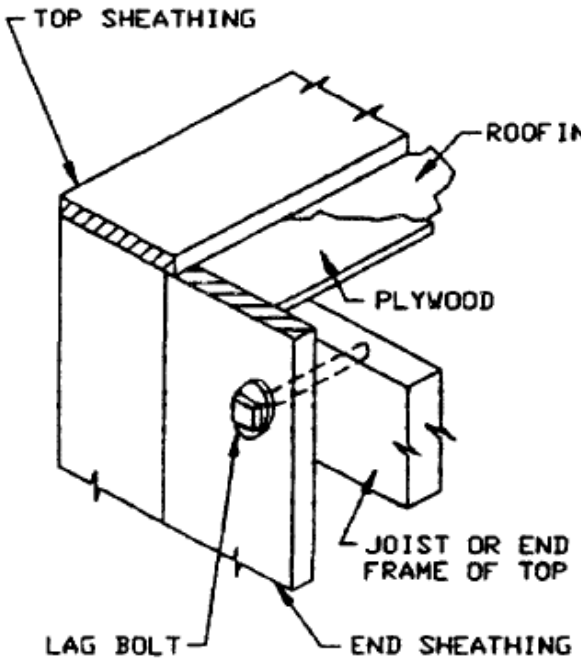

LUMBER SHEATHED CRATE



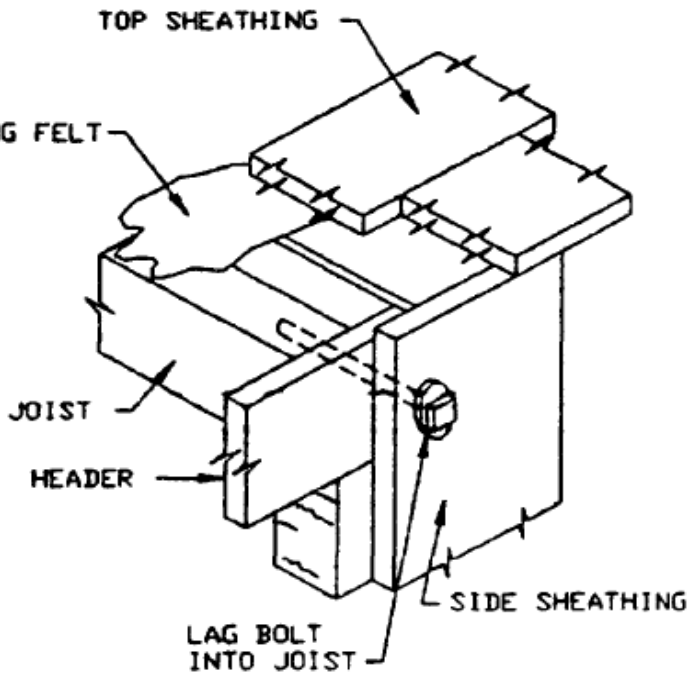

LUMBER OR PLYWOOD SHEATHING
STRUT
DIAGONAL
1 X 4
STOP
HINGE
DOOR
LOWER FRAME MEMBER
1 X 2 CLEAT
HOLES FOR
SCREWS AND SEALS


NOT LESS THAN
2 LAG BOLTS
24 IN.
8 IN.
NOT LESS THAN
3 LAG BOLTS
LAG BOLTS
LAG TO ENDS OF
JOISTS OR INTO
EDGE MEMBER
OF TOP
SIDE
15 IN
12 IN
SKID
END
24 IN.
MAX
SEE TABLE XIV
MAXIMUM SPACING:
3/8 IN. LAG BOLTS
16 IN. O.C.
1/2 IN. LAG BOLTS
20 IN. O.C.
8 IN.

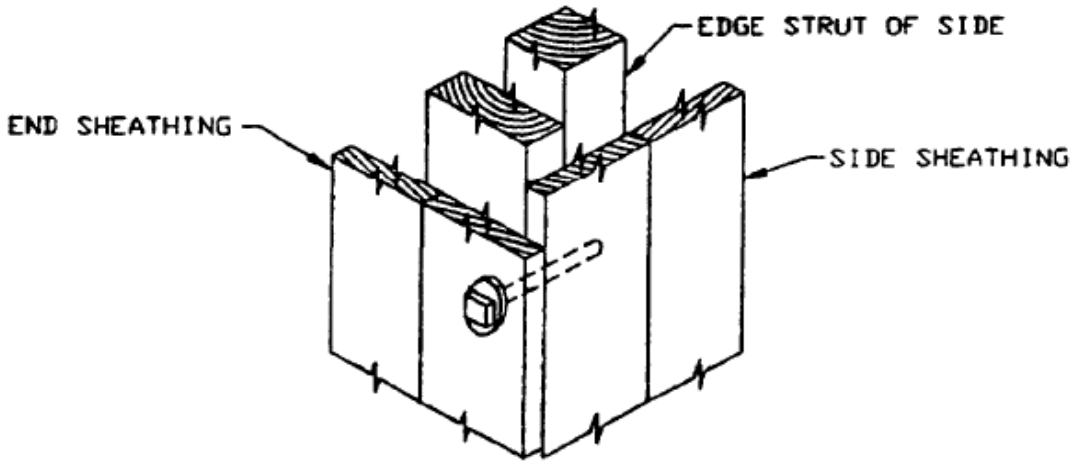

STRUT
END SHEATHING
SIDE SHEATHING
SIDE
END
LOWER FRAME MEMBER
LAG BOLT
LAG BOLT SEE TABLE XXIII
STRAP
END HEADER
LAG BOLT STRAP
SKID
CARRIAGE BOLT
2 MIN
3 MAX

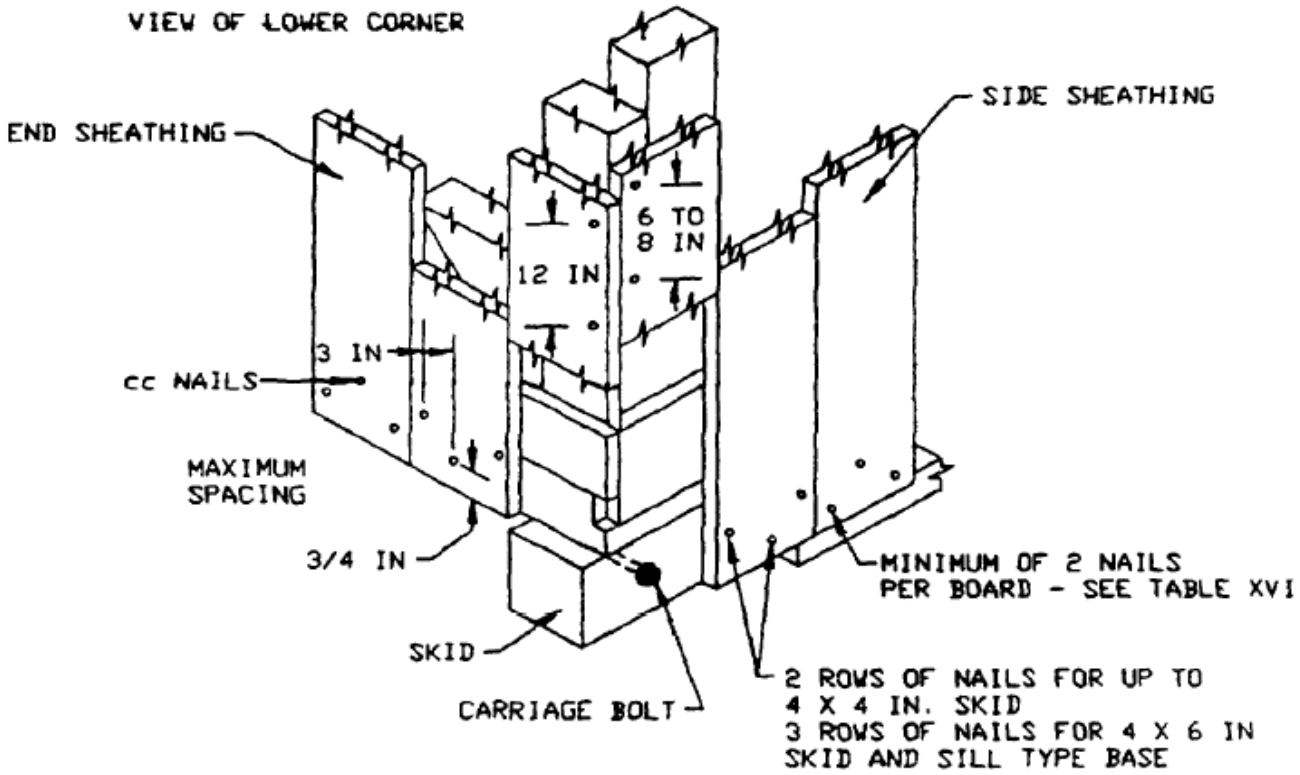


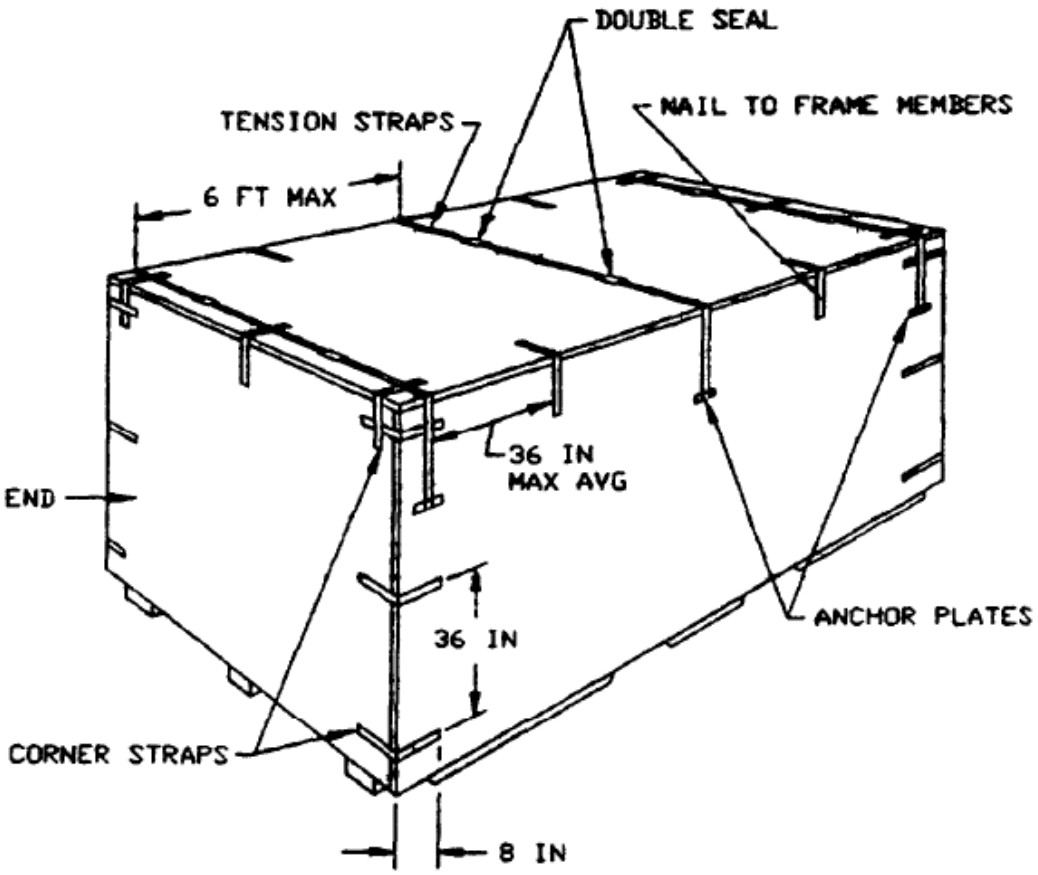

END TO TOP

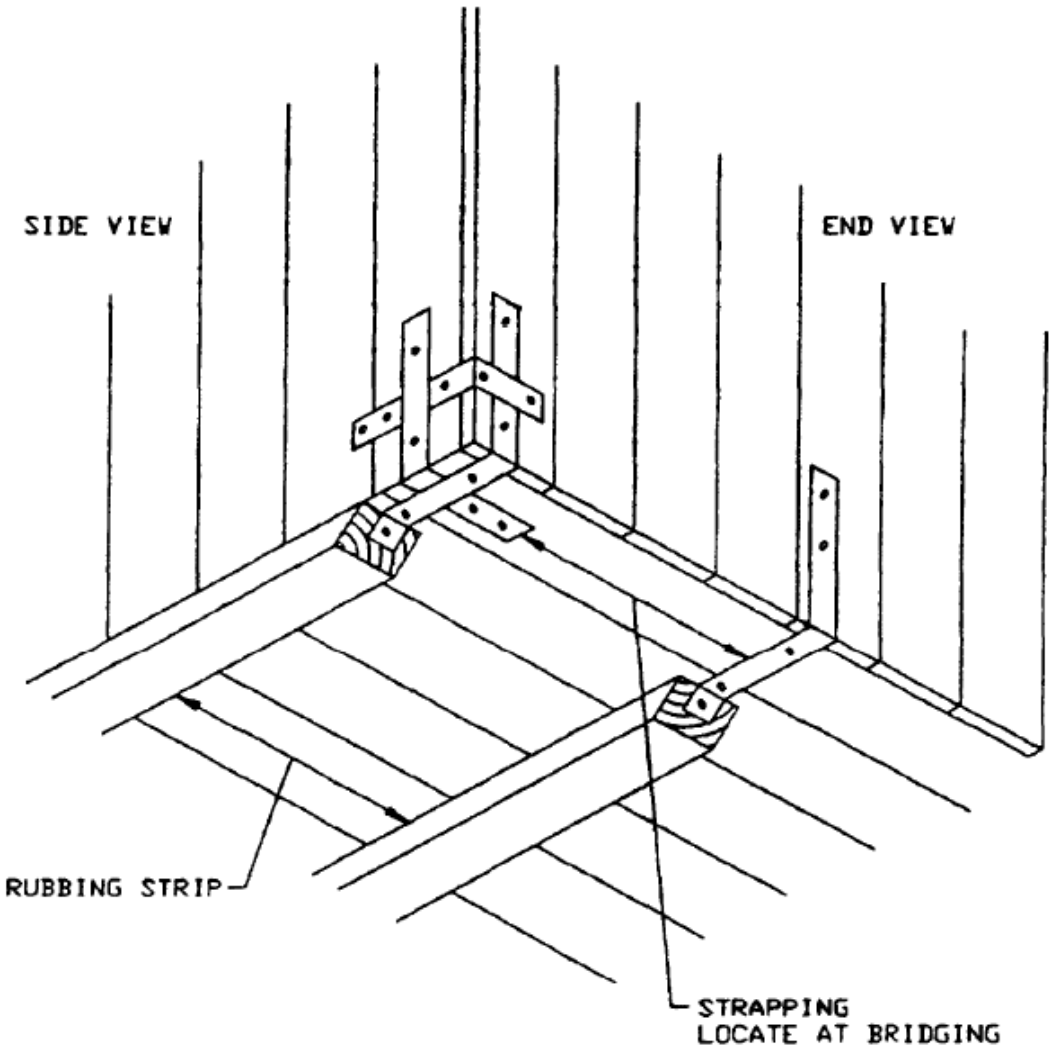


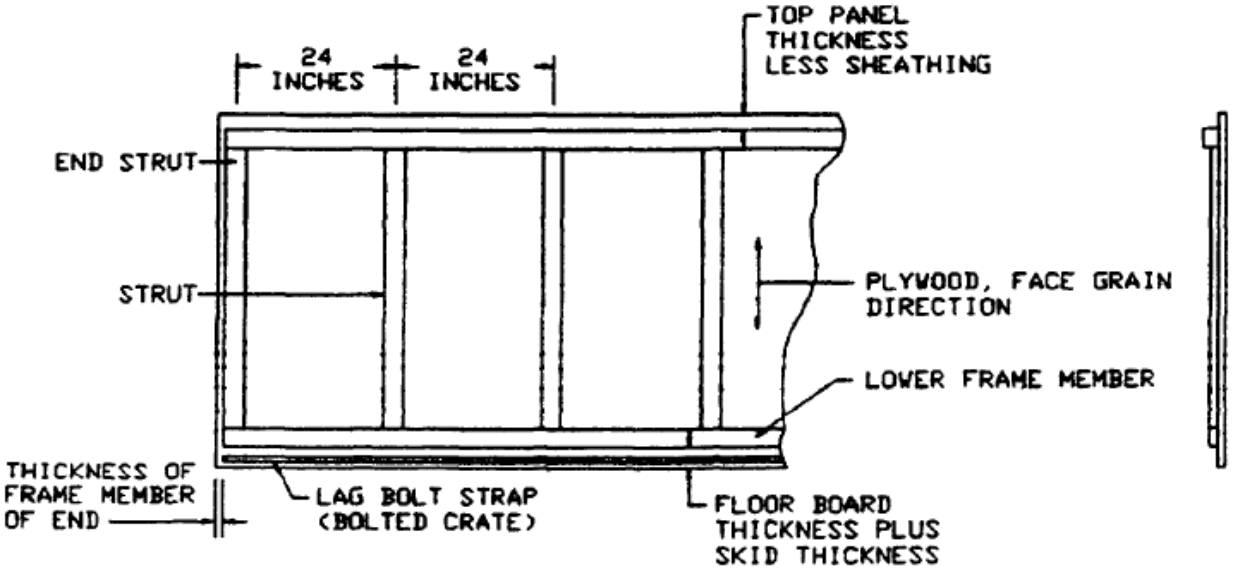

SIDE TO TOP

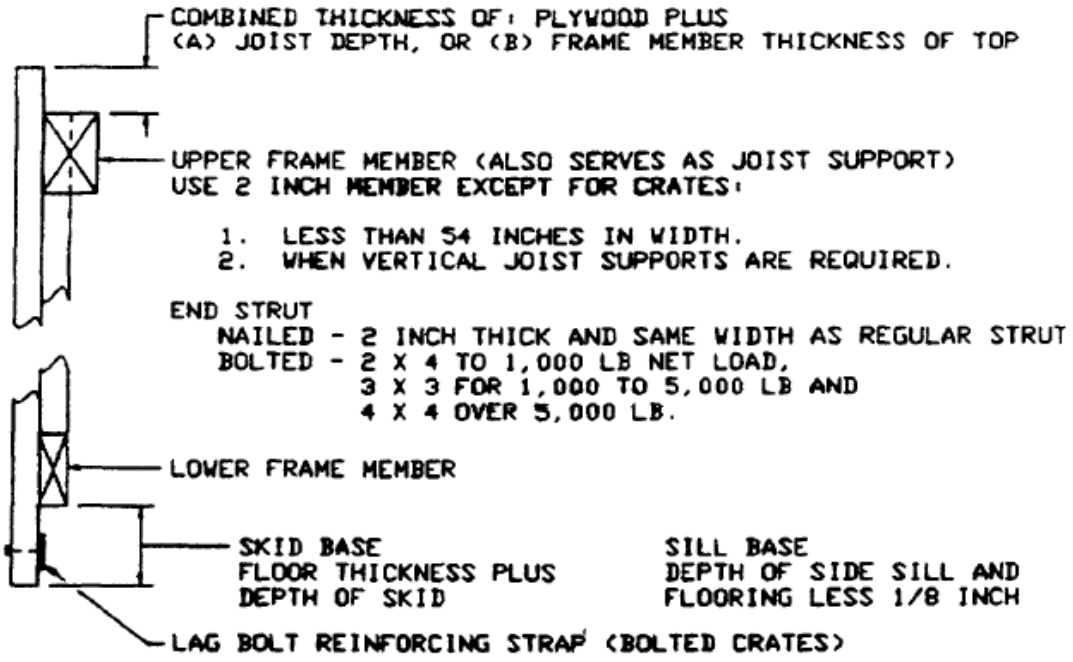


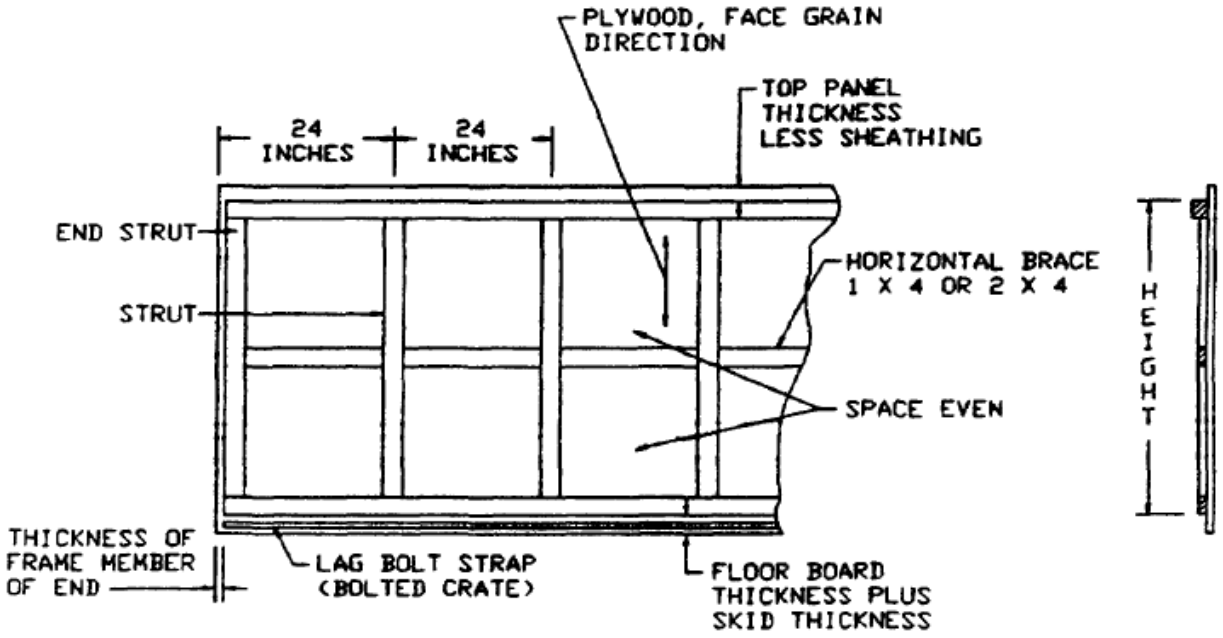

VIEW OF LOWER CORNER
END SHEATHING
SIDE SHEATHING
6 TO 8 IN
12 IN
3 IN
cc NAILS
MAXIMUM SPACING
3/4 IN
MINIMUM OF 2 NAILS PER BOARD - SEE TABLE XVI
SKID
CARRIAGE BOLT
2 ROWS OF NAILS FOR UP TO 4 X 4 IN. SKID
3 ROWS OF NAILS FOR 4 X 6 IN SKID AND SILL TYPE BASE

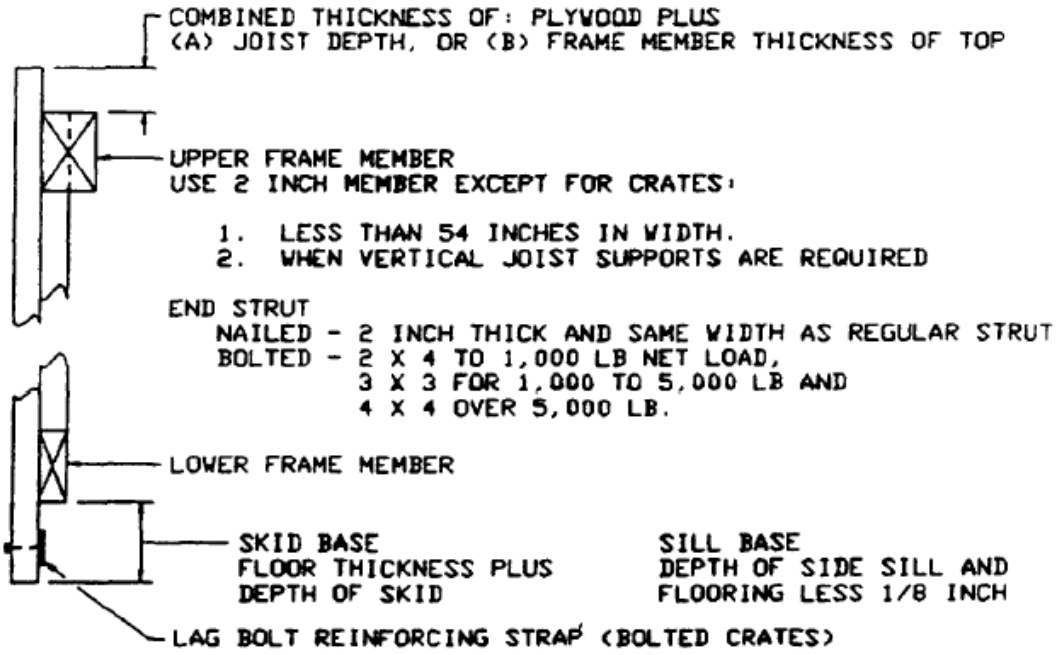

DOUBLE SEAL
TENSION STRAPS
NAIL TO FRAME MEMBERS
6 FT MAX
36 IN
MAX AVG
END
36 IN
ANCHOR PLATES
CORNER STRAPS
8 IN

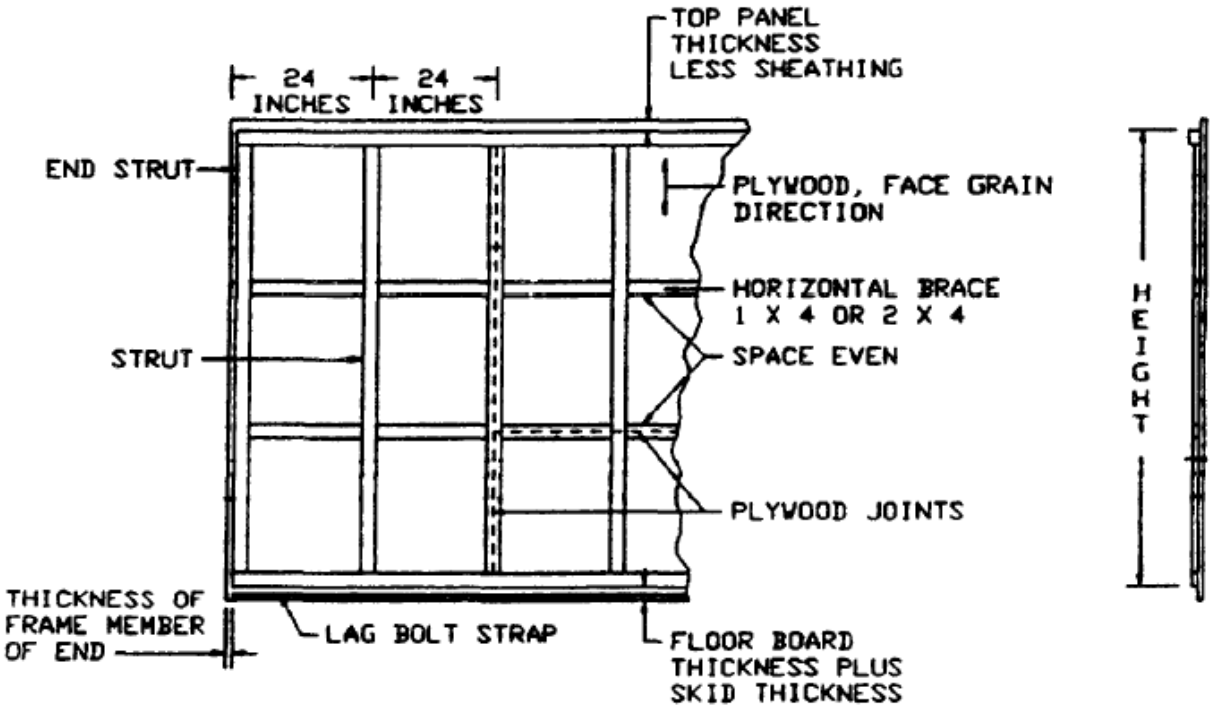

SIDE VIEW
END VIEW
RUBBING STRIP
STRAPPING
LOCATE AT BRIDGING

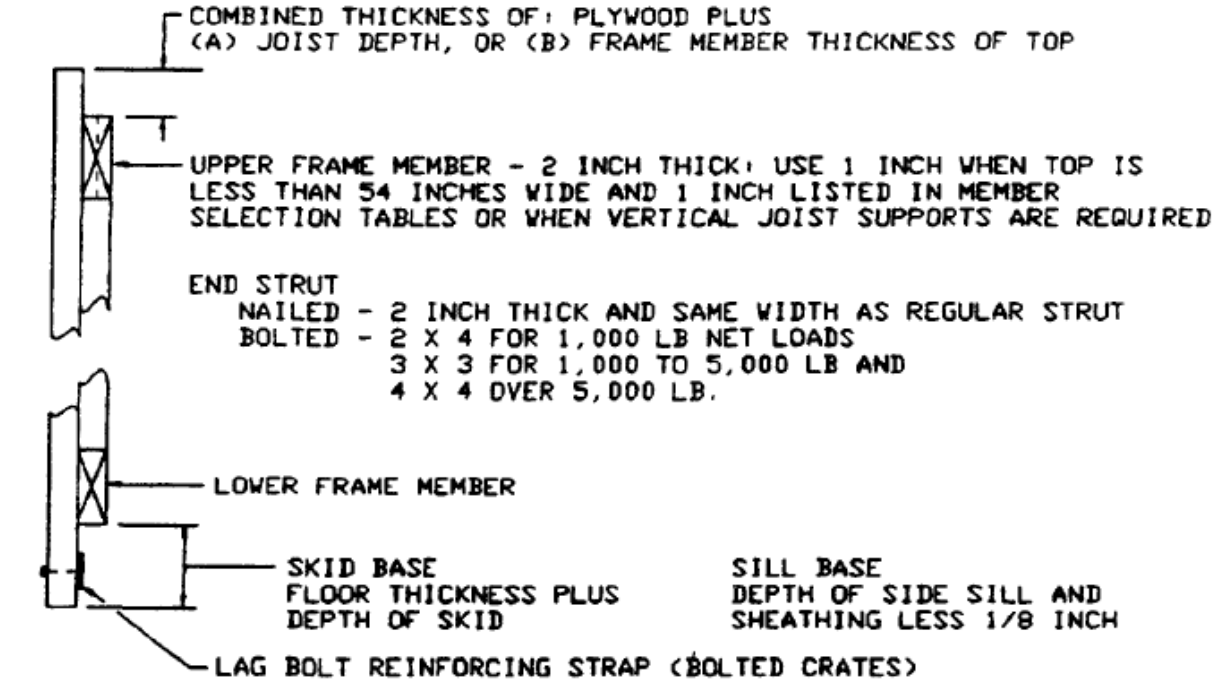

24 INCHES
24 INCHES
TOP PANEL THICKNESS LESS SHEATHING
END STRUT
STRUT
PLYWOOD, FACE GRAIN DIRECTION
LOWER FRAME MEMBER
THICKNESS OF FRAME MEMBER OF END
LAG BOLT STRAP (BOLTED CRATE)
FLOOR BOARD THICKNESS PLUS SKID THICKNESS

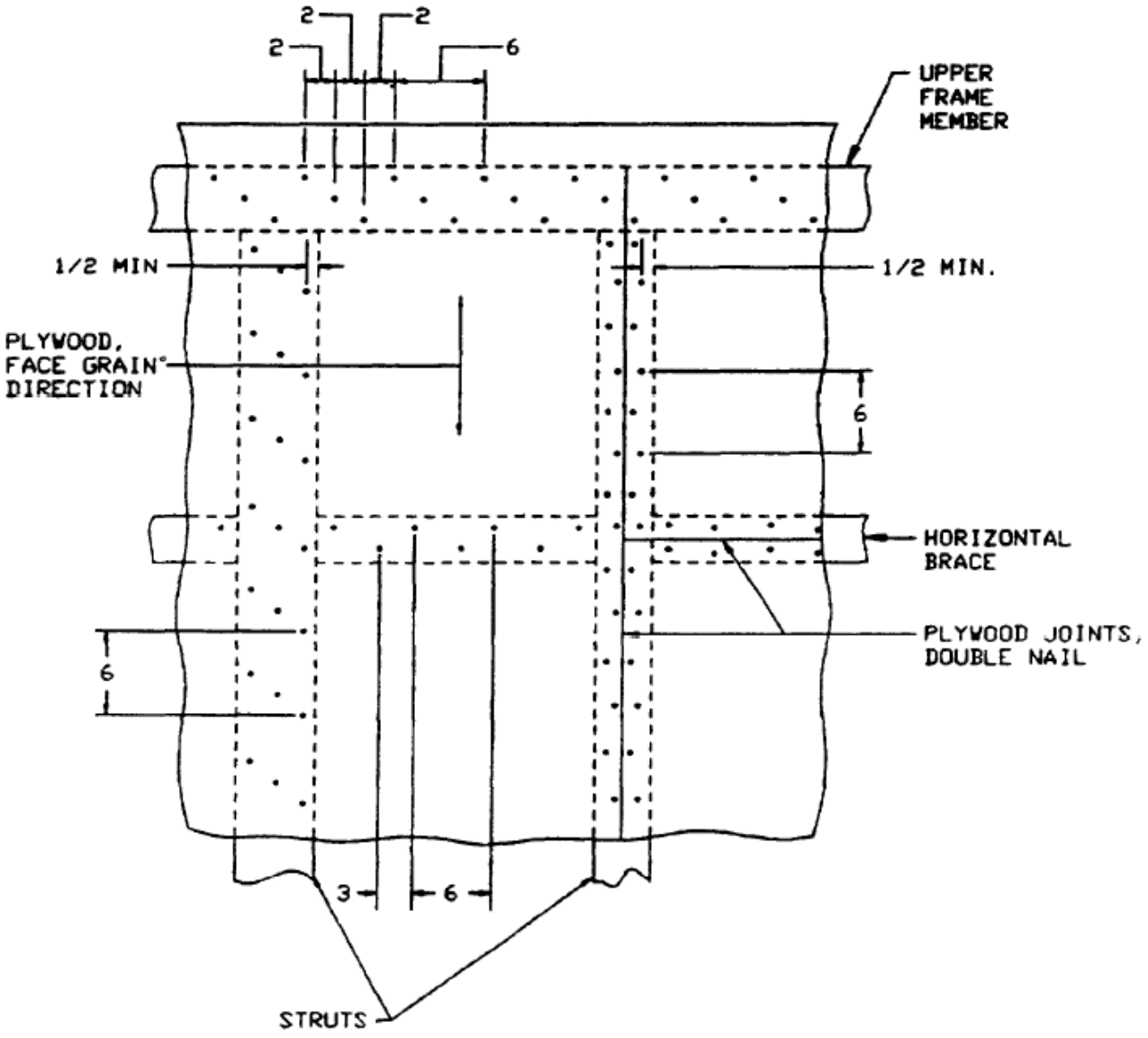

COMBINED THICKNESS OF: PLYWOOD PLUS (A) JOIST DEPTH, OR (B) FRAME MEMBER THICKNESS OF TOP
UPPER FRAME MEMBER (ALSO SERVES AS JOIST SUPPORT) USE 2 INCH MEMBER EXCEPT FOR CRATES:
1. LESS THAN 54 INCHES IN WIDTH.
2. WHEN VERTICAL JOIST SUPPORTS ARE REQUIRED.
END STRUT
NAILED - 2 INCH THICK AND SAME WIDTH AS REGULAR STRUT
BOLTED - 2 X 4 TO 1,000 LB NET LOAD,
3 X 3 FOR 1,000 TO 5,000 LB AND
4 X 4 OVER 5,000 LB.
LOWER FRAME MEMBER
SKID BASE
FLOOR THICKNESS PLUS
DEPTH OF SKID
SILL BASE
DEPTH OF SIDE SILL AND
FLOORING LESS 1/8 INCH
LAG BOLT REINFORCING STRAP (BOLTED CRATES)

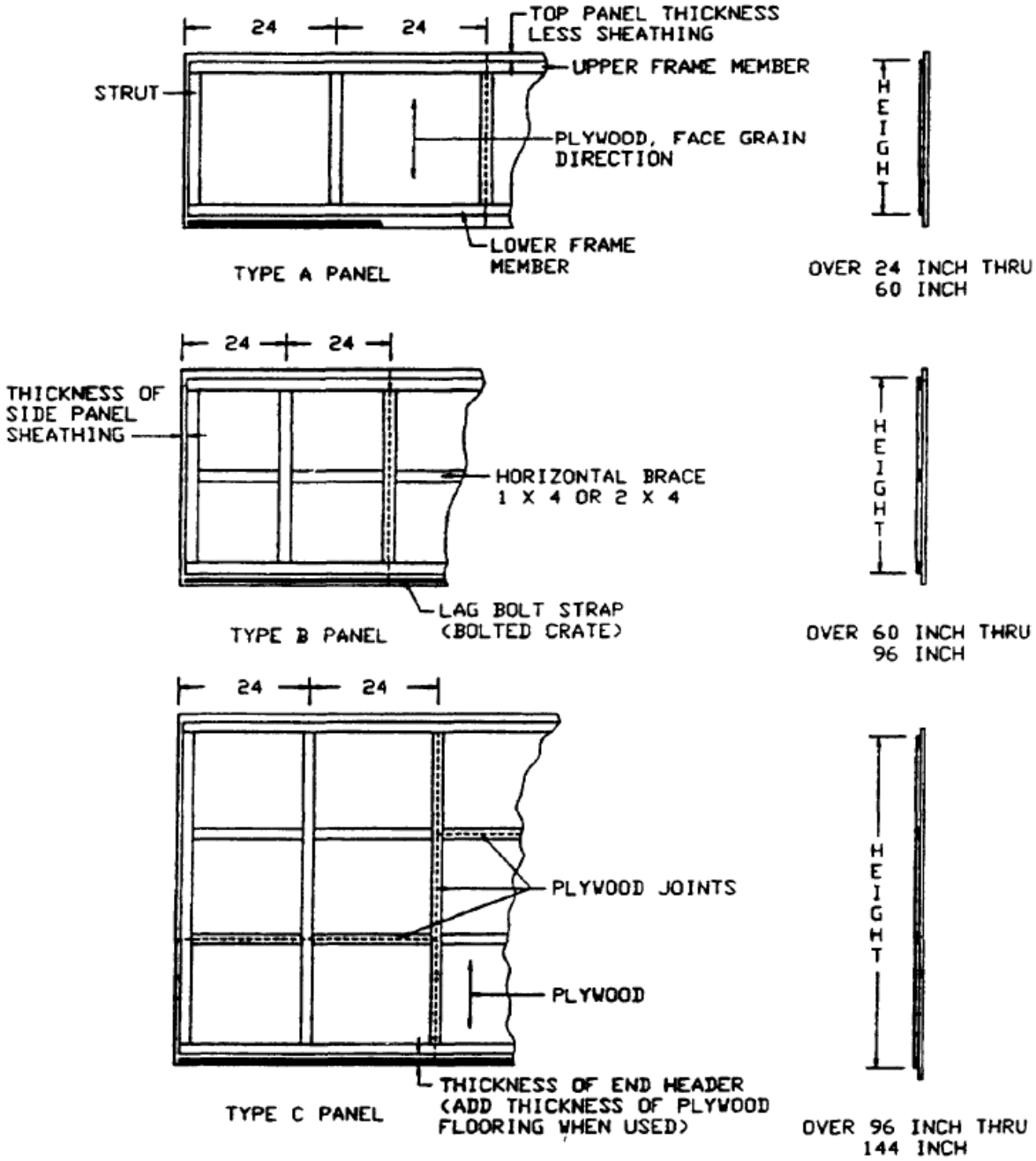

PLYWOOD, FACE GRAIN DIRECTION
TOP PANEL THICKNESS LESS SHEATHING
24 INCHES
24 INCHES
END STRUT
STRUT
HORIZONTAL BRACE 1 X 4 OR 2 X 4
SPACE EVEN
HEIGHT
THICKNESS OF FRAME MEMBER OF END
LAG BOLT STRAP (BOLTED CRATE)
FLOOR BOARD THICKNESS PLUS SKID THICKNESS


COMBINED THICKNESS OF: PLYWOOD PLUS (A) JOIST DEPTH, OR (B) FRAME MEMBER THICKNESS OF TOP
UPPER FRAME MEMBER
USE 2 INCH MEMBER EXCEPT FOR CRATES:
1. LESS THAN 54 INCHES IN WIDTH.
2. WHEN VERTICAL JOIST SUPPORTS ARE REQUIRED
END STRUT
NAILED - 2 INCH THICK AND SAME WIDTH AS REGULAR STRUT
BOLTED - 2 X 4 TO 1,000 LB NET LOAD,
3 X 3 FOR 1,000 TO 5,000 LB AND
4 X 4 OVER 5,000 LB.
LOWER FRAME MEMBER
SKID BASE
FLOOR THICKNESS PLUS DEPTH OF SKID
SILL BASE
DEPTH OF SIDE SILL AND FLOORING LESS 1/8 INCH
LAG BOLT REINFORCING STRAP (BOLTED CRATES)


TOP PANEL
THICKNESS
LESS SHEATHING
24 INCHES
24 INCHES
END STRUT
PLYWOOD, FACE GRAIN
DIRECTION
HORIZONTAL BRACE
1 X 4 OR 2 X 4
STRUT
SPACE EVEN
HEIGHT
PLYWOOD JOINTS
THICKNESS OF
FRAME MEMBER
OF END
LAG BOLT STRAP
FLOOR BOARD
THICKNESS PLUS
SKID THICKNESS

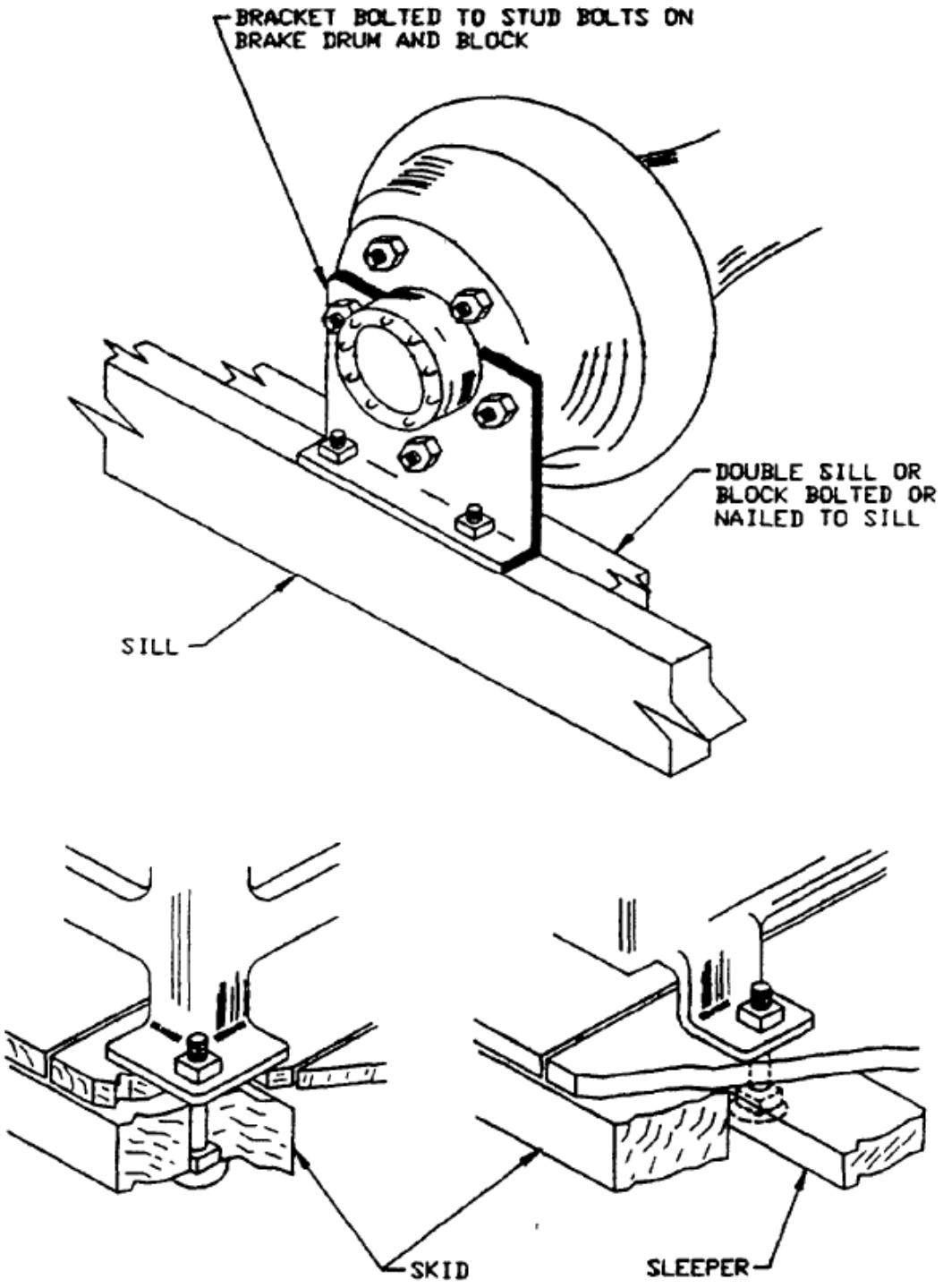

COMBINED THICKNESS OF: PLYWOOD PLUS
(A) JOIST DEPTH, OR (B) FRAME MEMBER THICKNESS OF TOP
UPPER FRAME MEMBER - 2 INCH THICK: USE 1 INCH WHEN TOP IS
LESS THAN 54 INCHES WIDE AND 1 INCH LISTED IN MEMBER
SELECTION TABLES OR WHEN VERTICAL JOIST SUPPORTS ARE REQUIRED
END STRUT
NAILED - 2 INCH THICK AND SAME WIDTH AS REGULAR STRUT
BOLTED - 2 X 4 FOR 1,000 LB NET LOADS
3 X 3 FOR 1,000 TO 5,000 LB AND
4 X 4 OVER 5,000 LB.
LOWER FRAME MEMBER
SKID BASE
FLOOR THICKNESS PLUS
DEPTH OF SKID
SILL BASE
DEPTH OF SIDE SILL AND
SHEATHING LESS 1/8 INCH
LAG BOLT REINFORCING STRAP (BOLTED CRATES)

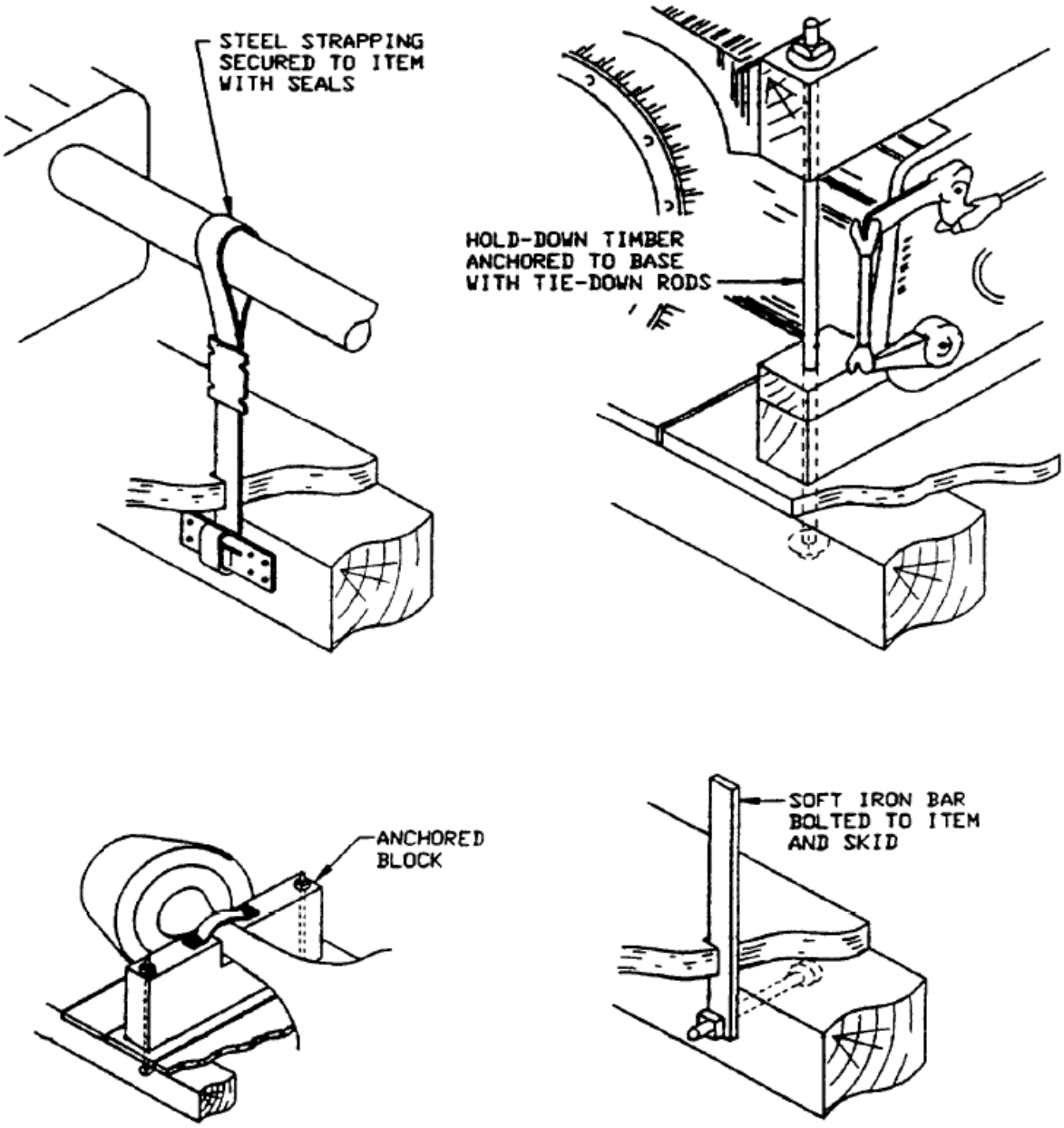

2
2
2
6
UPPER FRAME MEMBER
1/2 MIN
1/2 MIN.
PLYWOOD, FACE GRAIN DIRECTION
6
HORIZONTAL BRACE
PLYWOOD JOINTS, DOUBLE NAIL
6
3
6
STRUTS




**NOTE:**

1. **All dimensions are in inches**


BRACKET BOLTED TO STUD BOLTS ON BRAKE DRUM AND BLOCK
DOUBLE SILL OR BLOCK BOLTED OR NAILED TO SILL
SILL
SKID
SLEEPER


STEEL STRAPPING
SECURED TO ITEM
WITH SEALS
HOLD-DOWN TIMBER
ANCHORED TO BASE
WITH TIE-DOWN RODS
ANCHORED
BLOCK
SOFT IRON BAR
BOLTED TO ITEM
AND SKID

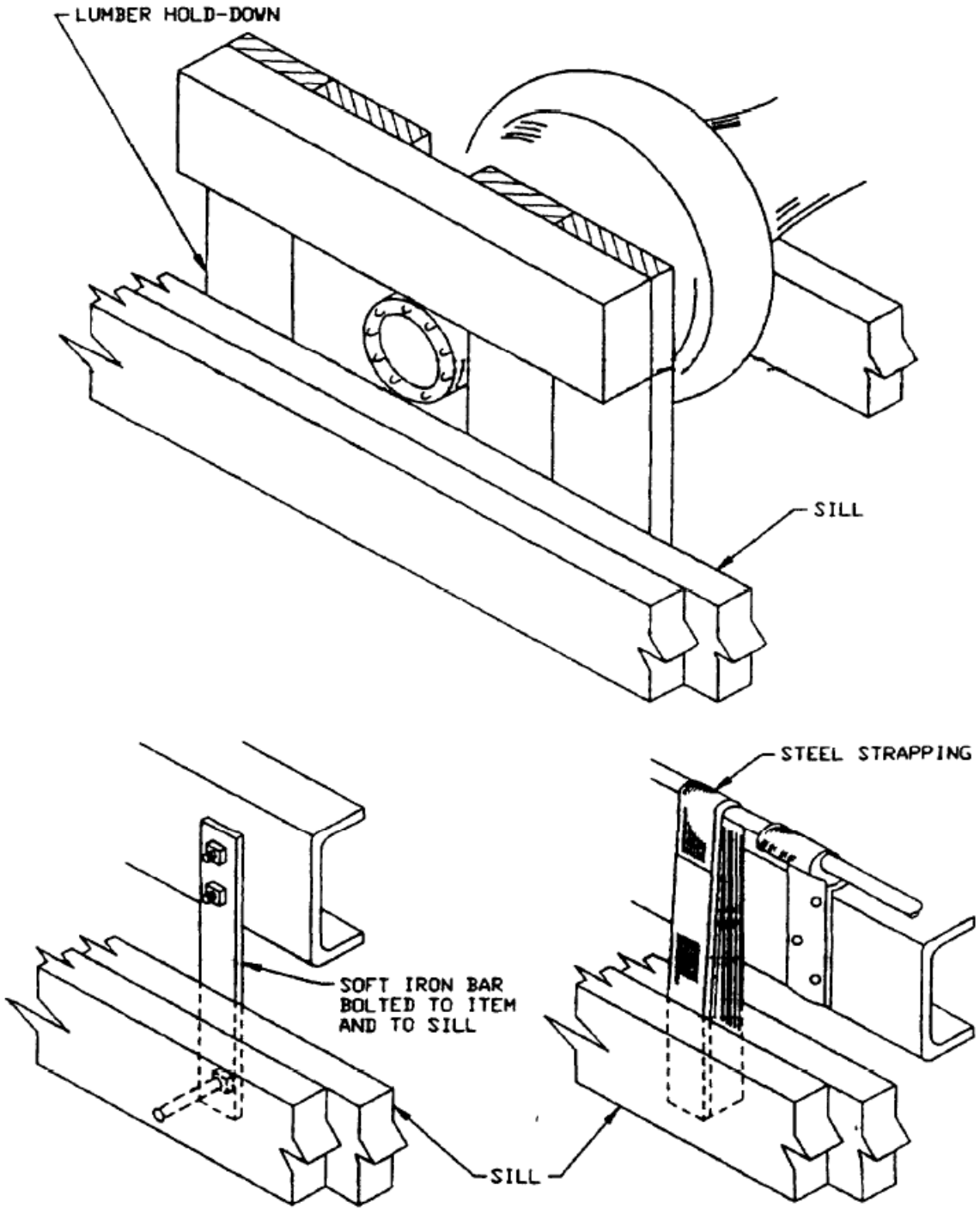
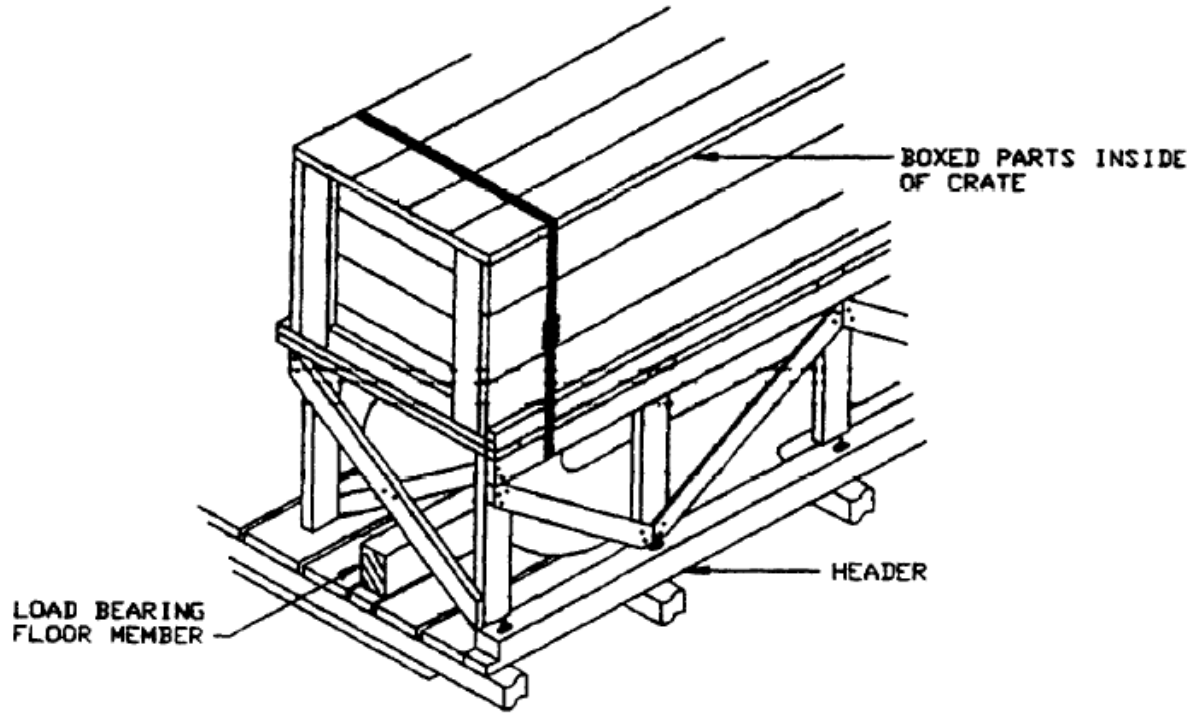
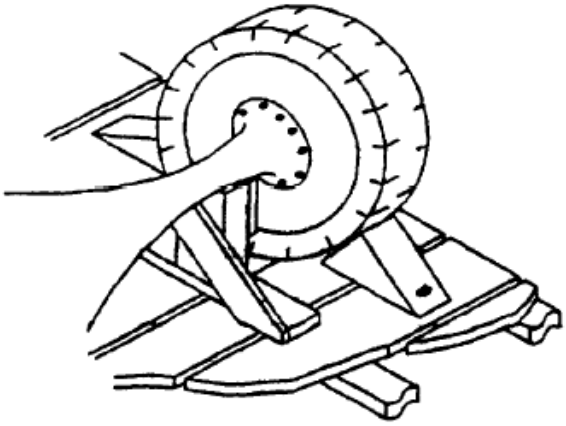
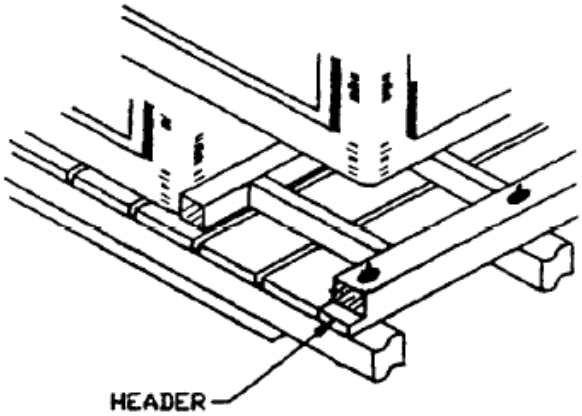
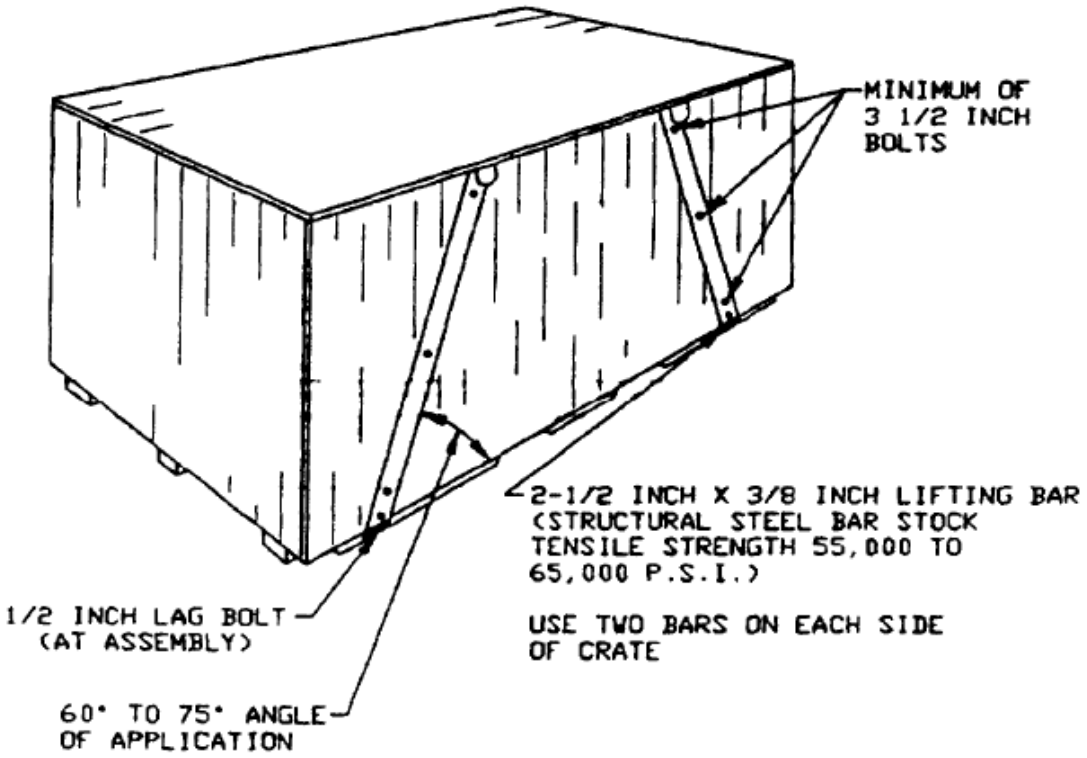


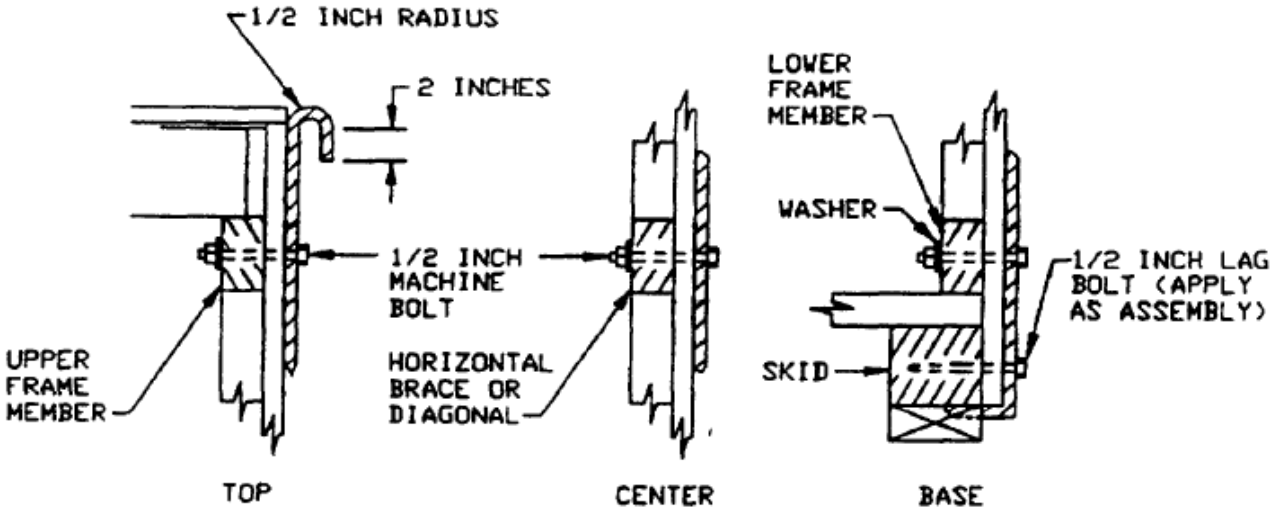

**FIGURE 36 : Hold downs and tie downs for sill bases**

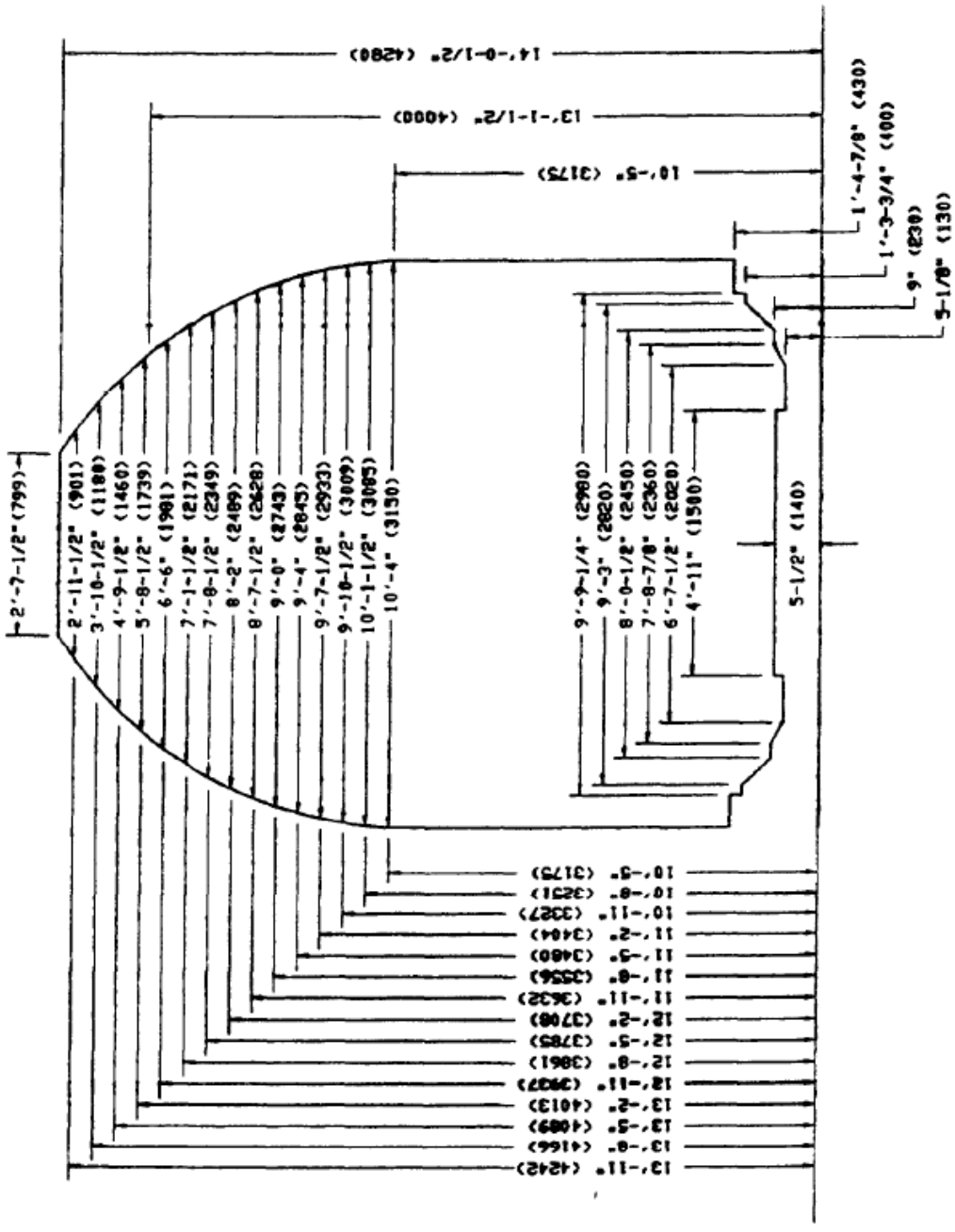

BOXED PARTS INSIDE OF CRATE
HEADER
LOAD BEARING FLOOR MEMBER




HEADER


MINIMUM OF
3 1/2 INCH
BOLTS
2-1/2 INCH X 3/8 INCH LIFTING BAR
(STRUCTURAL STEEL BAR STOCK
TENSILE STRENGTH 55,000 TO
65,000 P.S.I.)
USE TWO BARS ON EACH SIDE
OF CRATE
1/2 INCH LAG BOLT
(AT ASSEMBLY)
60° TO 75° ANGLE
OF APPLICATION


1/2 INCH RADIUS
2 INCHES
1/2 INCH
MACHINE
BOLT
UPPER
FRAME
MEMBER
HORIZONTAL
BRACE OR
DIAGONAL
LOWER
FRAME
MEMBER
WASHER
1/2 INCH LAG
BOLT (APPLY
AS ASSEMBLY)
SKID
TOP
CENTER
BASE




Notes:

1. Height of wagon floor used to be deducted from heights shown on this drawing.
2. Figures in parentheses indicate dimensions in millimeters.

FIGURE 39. International loading gauge.

# APPENDIX

# DISASSEMBLY OF ITEM, ANCHORING, BLOCKING, AND LIFTING ATTACHMENTS

## 10. SCOPE

This appendix covers disassembly of items, anchoring and blocking, and lifting attachments.

## 20. APPLICABLE DOCUMENTS None.

## 30. REQUIREMENTS

### 30.1 Item disassembly

Design of the crate should be based on a careful study of the item(s) to be packed Such a study should consider the shape, size, weight, strength and degree of fragility of the item(s), the availability of the mounting provisions and the disassembly permissible for shipment. All reasonable disassembly should be performed to effect a saving in crate volume. Unless otherwise specified by the procuring agency, the disassembly shall not be of such extent as to require special personnel or equipment or an unjustifiable amount of time for reassembling.

### 30.2 Anchoring and blocking

**30.2.1** General Attention shall be given to anchoring of the contents within the crate in order that proper design and construction of the container will not be nullified during shipment and rough handling. Care shall be taken, by padding and cushioning where necessary, to prevent damage to the contents of the crate at points where blocks, braces, or straps come in contact with a part of the crated item

**30.2.2** Bolting down When there are holes in the item being crated which can be utilized for anchoring it to the crate base, the item shall be bolted through the skids or chamfered longitudinal sleepers, minimum size 2 inches by 4 inches by not less than 3 feet long, shall be added underneath the floor of the skid-type bases so that the tie-down stress will be distributed. When bolting to sill bases, bolts shall not pass through the depth of the sill but through blocks which shall be securely nailed or bolted to the sill (see figure 34)

**30.2.3** Hold-downs and tie-downs. When bolt holes in the item being crated are not available, the item shall be anchored to the base by means of either lumber hold-downs, tie-down rods used in combination with hold-downs timbers, or tensioned metal strapping or soft iron straps securely attached to the skids, sills or other frame members (see figures 35 and 36). Consideration shall also be given to strapping parts of the item being crated to itself.

**30.2.4** Blocking and bracing. In conjunction with, or in lieu of metal strapping, wood blocks and braces shall be used to prevent movement of load within the crate Sideways movement of top-heavy items shall be prevented either by strapping, blocking, or bracing (see figure 37). Wood blocks and braces shall be securely nailed to floorboards, sills, headers, or other frame members and not directly to sheathing. End grain nailing shall not be used to hold blocks in place.

### 30.3 Lifting attachments

Large, heavy crates are often severely damaged by ordinary handling with slings or grab hooks. Much of the damage can be eliminated by providing special handling attachments on crates. Suggested details of such crates are shown in figure 38. Such attachments are capable of carrying 12,000 lb each with a factor of safety of about four. Smaller bars Bay be used for lighter crates but the safety factor of four should be maintained.

### 30.4 Center of balance

After crates are assembled and loaded, those over 10 feet long shall be marked to indicate the center or balance. Harking shall consist of a 1-inch wide vertical stripe on each side extending from the lower edge of the panel upwards about 12 inches. The stripes may be either red or black and shall have "CENTER OF BALANCE" stenciled or printed in 1-inch high letters adjacent to or above them. The markings should be of water-proof materials and shall be applied to assure easy legibility.

### 30.5 Service parts

The preservative application criteria and applicable methods of preservation of MIL-F-116 shall be used to preserve service parts. When specified (see 6.2), the service parts shall be preserved in accordance with level A requirements of MIL-S-196, or when parts are not specifically covered in MIL-R-196, requirements in MIL-STD-2073 shall be used.

Instructions and form for submitting changes has been removed.

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