OLD GROWTH DOUGLAS FIR
STANDARD STOCK DOORS
(THIRD EDITION)

COMMERCIAL STANDARD CS73-45
(Supersedes CS73-43)

Effective Date for New Production from September 20, 1945

A RECORDED VOLUNTARY STANDARD
OF THE TRADE

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PROMULGATION

of

COMMERCIAL STANDARD CS73–45

for

OLD GROWTH DOUGLAS FIR STANDARD STOCK DOORS

(Third Edition)

On April 4, 1938, at the instance of the Fir Door Institute, a general conference of representative manufacturers, distributors, and users of old growth Douglas fir standard stock doors adopted a recommended commercial standard for this commodity which was subsequently accepted by the trade and published as Commercial Standard CS73–38. The standard was revised in 1943, and issued as CS73–43. A recommended revision, submitted by the Fir Door Institute and endorsed by the Standing Committee, was circulated on June 25, 1945, to the trade for written acceptance. Those concerned have since accepted and approved the revised standard as shown herein for promulgation by the United States Department of Commerce, through the National Bureau of Standards.

The standard is effective for new production from September 20, 1945.

Promulgation recommended.

Promulgated.

Promulgation approved.

I. J. Fairchild,

Chief, Division of Trade Standards.

Lyman J. Briggs,

Director, National Bureau of Standards.

Henry A. Wallace,

Secretary of Commerce.
OLD GROWTH DOUGLAS FIR STANDARD STOCK DOORS

(Third Edition)

COMMERCIAL STANDARD CS73-45

PURPOSE

1. This standard is a basis for common understanding between manufacturers, distributors, and users of stock fir doors. By its general acceptance, use, and certification by labels it is hoped to increase interest in the manufacture, sale, and use of fir doors manufactured to standard grades, to the mutual advantage of all concerned.

2. In the development of these standards there is no desire to suppress architectural expression and custom made doors will still be available from the usual sources. However, the establishment of construction standards, together with universally accepted sizes and layouts, should prove highly advantageous by eliminating the causes of many misunderstandings occurring through the lack of standards, and produce economies in manufacture and sale which should be shared by the ultimate home owner.

SCOPE

3. This standard provides minimum specifications for 4 grades of stock fir doors in four thicknesses, 3/4, 1 1/8, 1 1/8, and 1 1/4 inches. It covers construction, defects, and the grading tolerances for these requirements. There are standard stock layouts and designs covered in door sizes ranging as follows, and in accordance with detailed schedules of Douglas fir stock door list beginning on page 6.

Cupboard doors.............................................. 1'0"×1'6" to 2'0"×6'0"
Side lights.................................................. 1'0"×8'0" to 1'6"×7'0"
House doors.................................................. 1'6"×6'0" to 3'6"×8'0"
Garage doors............................................... 2'0"×7'0" to 4'0"×8'0"

GENERAL REQUIREMENTS

4. All commercial standard fir doors shall meet the following general requirements:

5. Material.—Doors shall be made of kiln-dried, old growth Douglas fir.

6. Workmanship.—Doors shall be well manufactured and machined, and both faces shall have flat surfaces; that is, with stiles, rails, and panels smoothly sanded.

1 Old growth Douglas fir is a term generally applied to distinguish the wood developed in the later stages of the tree's growth. It is generally free from knots; of medium density with fairly close, uniformly spaced growth rings; and usually of uniform light yellowish or pinkish color. The wood is moderately hard, is resilient, tough, durable, and practically impervious to water; holds nails firmly and takes stain and paint well. The resin in the wood makes it durable. Because of the very small amount of sapwood on a Douglas fir log, it is easy to obtain lumber free from sapwood. This small portion of sapwood is a reason too for the durability of Douglas fir, for heartwood is more durable than sapwood.
7. Construction.—Doors shall be assembled by what is known as "dowelled construction"; that is, stiles and rails to be bored to receive fir dowels not less than $\frac{3}{4}$ inch in diameter by 5 inches long for doors $\frac{3}{4}$ inch thick, and not less than $\frac{3}{8}$ inch in diameter by 5 inches long for doors 1%, 1%, and 1% inches thick. The dowels shall have glue grooves. Dowels shall be set in glue and extend approximately one-third their length into each stile and rail, and assembled under pressure. Because of the fact that all present standard door boring machines are built for 2%-inch dowel centers, the required number of dowels used in joining rails to stiles are therefore limited according to the width of the rails, and shall be based on a minimum number of dowels at each end of rails as follows:

- Rails under 4$\frac{1}{4}$'' wide: 1 dowel.
- Rails 4$\frac{1}{4}$'' to 7'' wide: 2 dowels.
- Rails over 7'' wide: 3 dowels.

8. Sticking.—Three-eighths inch "bead and cove" or "ovolo" sticking shall be standard on all standard doors. "Bead and cove" sticking will be furnished, unless otherwise specified. (See fig. 1.)

Defective sticking which may develop in machining must be carefully repaired or neatly replaced.

9. Thicknesses.—Doors shall be in the following thicknesses, and a thickness tolerance of minus $\frac{1}{8}$ inch shall be allowed:

- Cupboard doors: $\frac{3}{4}$'' and 1$\frac{1}{2}$''
- Side lights: 1$\frac{3}{4}$'' and 1$\frac{3}{4}$''
- House doors: 1$\frac{1}{2}$'', 1$\frac{1}{8}$'', and 1$\frac{3}{4}$''
- Garage doors: 1$\frac{2}{3}$'', and 1$\frac{1}{4}$''

10. In standard practice, a length and width tolerance of plus $\frac{3}{4}$ inch shall be allowed. When so ordered, house doors will be trimmed to standard lengths with a tolerance of plus or minus $\frac{1}{2}$ inch. When
so trimmed, protection strips or skid blocks shall be applied to top and bottom ends.

**INSPECTION AND LABELING**

11. All doors guaranteed to conform to the Commercial Standard grading rules shall be grade-marked by stamp, brand, or label. All complaints involving the quality of any shipment must be made within 5 days from receipt thereof.

**DETAIL REQUIREMENTS**

12. Standard stock layouts and designs to which the subsequent design numbers refer are to be found in the Douglas fir stock door list beginning on page 6.

13. It is impossible to maintain absolutely arbitrary rules fixing grades, and slight variations within reason and governed by practical common sense may be expected. A shipment of any grade must represent a fair average of that grade.

14. Doors shall be graded on both sides or faces in accordance with the following standard grades. Grades A, B, and C, covering standard house doors, will be furnished in 1%- and 1%-inch thicknesses only. Standard side lights, and doors of special layout or design will be furnished in grade A only. Cupboard doors will be furnished in B and better grade only. House doors 1½ inch thick will be furnished in “millrun” grade only.

**HOUSE DOORS**

*Grade A.—Recommended for Paint or Natural or Stain Finish*

15. **Stiles, rails, and mullions.**—This stock shall be of 100-percent heartwood, all vertical grain old growth Douglas fir, the faces of which must be clear, with the exception that small, inconspicuous and neatly repaired pitch seams are permissible. Glued-up rails are permissible in widths over 7½ inches. A moisture-resistant glue shall be used.

16. **Panels—flat veneered.**—The standard thickness of 3-ply flat veneered panels shall be ¼ inch after sanding. Each face shall be of a yellowish or pinkish color or a blend of the two, and shall be from smoothly cut veneer, free from knots, splits, pitch pockets, and other open defects. Small streaks and spots of other colors are permissible, provided that they in no manner make the panel unusable for the purpose intended. Shims that occur only at the end of panels and inconspicuous well-matched patches shall be admitted.

17. **Panels—solid raised.**—The standard thickness of solid raised panels shall be not more than ¾ inch before sanding and not less than ¾ inch after sanding. They shall be either all vertical or all slash grain in any one door, and shall conform to the grade of the stiles and rails.
Grade B.—Recommended Primarily for Paint Finish

18. Stiles, rails, and mullions.—This stock shall be of vertical grain faces, with some coarse grain permitted. It shall be sound in all respects, and may contain sap, light stains, streaks, burrs, and neatly repaired pitch seams. Glued-up members of not more than two pieces are permissible except that bottom rails wider than 9© inches may contain more than two pieces. A moisture-resistant glue shall be used.

19. Panels—flat veneered.—The standard thickness of 3-ply flat veneered panels shall be ¾ inch after sanding. Each face shall be of one or more pieces of firm smoothly cut veneer. When of more than one piece, it shall be well joined and reasonably matched for grain and color at the joints. It shall be free from knots, splits, checks, pitch pockets, and other open defects. Streaks, discolorations, sapwood, shims, and neatly made patches shall be admitted.

20. Panels—raised.—The standard thickness of raised panels shall be not more than ¾ inch before sanding and not less than ⅜ inch after sanding. They may be either slash or mixed grain, and shall conform to the grade of the stiles and rails. Two-piece, glued-up, solid panels are permissible.

Grade C.—Recommended for Paint Finish Only

21. This grade shall be manufactured and sold only in the standard designs, as specifically indicated in the layout details on pages 12, 13, 19, 20, 21, and 22.

22. Stiles, rails, and mullions.—This stock may be of mixed grain and mixed woods and may contain any amount of discolored sap or heartwood, burrs, solid pitch, streaks, and any number of repaired pitch seams, or other sound defects not otherwise permitted in the higher grades, providing it presents a solid surface. Glued-up members are permissible. A moisture-resistant glue shall be used.

23. Panels—flat veneered.—The standard thickness of 3-ply flat veneered panels shall be ¾ inch after sanding. Each face shall present a smooth surface suitable for painting. Discoloration, unmatched patches, shims, and pieced faces are admissible.

24. Panels—raised.—The standard thickness of raised panels shall be not more than ¾ inch before sanding and not less than ¾ inch after sanding. They shall conform to the grade of the stiles and rails. Two-piece, glued-up, solid panels are permissible.

Millrun Grade

25. Stiles, rails, and mullions.—This grade shall be manufactured and sold in 1¾-inch thickness only developed and accumulated by planing down stock too thin for 1¾-inch thickness, consequently it will include an undetermined amount of all or any of the other grades. This grade and thickness shall be confined to the following standard designs: Storm doors, cupboard doors, F3, F3W, F13, F13W, F33, and F133. (See stock door list beginning on page 6.)

26. Panels—flat veneered.—The standard thickness of 3-ply, flat veneered panels shall be ¾ inch after sanding. They shall conform to the grades applying to grade B and/or grade C doors described above.

27. Panels—raised.—The standard thickness of raised panels shall be not more than ¾ inch before sanding, and not less than ¾ inch after sanding. They shall conform to the grades applying to grade B and/or grade C doors, described above.
GARAGE DOORS

Manufactured primarily for paint finish in one quality only, which is described below.

28. *Stiles, rails, and mullions.*—This stock shall be substantially all vertical grain, with accumulations of coarse or mixed grain permitted. It shall be sound in all respects, and may contain sap, stain, burls, pitch streaks, and neatly repaired pitch seams. Glued-up members are permissible. A moisture-resistant glue shall be used.

29. *Panels—flat veneered.*—The standard thickness of 3-ply flat veneered panels shall be \( \frac{3}{16} \) inch after sanding. They shall be of door panel grade **B**, as described under paragraph 19.

30. *Panels—solid raised.*—The standard thickness of solid raised panels shall be not more than \( \frac{3}{16} \) inch before sanding and not less than \( \frac{1}{16} \) inch after sanding. They may be vertical, slash, or mixed grain, at the option of the manufacturer, and shall conform to the grade of the stiles and rails.

31. *Batten garage doors (designs F190 and F290).*—The stiles and battens shall have all vertical grain faces, which shall be clear, except that neatly repaired pitch seams, not to exceed 4 inches in length, and at a minimum distance of 2 feet apart either way, will be admitted on each face of the door.

DESIGNS AND LAYOUTS

32. House doors of any design narrower than 1 foot 6 inches will be furnished with stiles 3\( \frac{1}{16} \) inches in width, over-all, unless otherwise specified.

33. Measurements for stiles, rails, and mullions shown in layouts are over-all, including sticking. Glass measurements shown may vary slightly.

<table>
<thead>
<tr>
<th>Standard sizes, cupboard doors</th>
<th>Standard sizes, house doors</th>
<th>Standard sizes, side lights</th>
<th>Standard sizes, garage doors</th>
</tr>
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<tr>
<td>1-0X1-6 1-0X4-0 1-2 1-4 1-6 1-8 1-10 2-0</td>
<td>2-0X8-0 1-6X7-0 1-2 1-4 1-6 1-8 1-10 2-0</td>
<td>10&quot;X6-8 1-0 1-2 1-4 1-6 1-8 1-10 2-0X7-0 1-0 1-2 1-4 2-0</td>
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<tr>
<td>-X2-0 1-0X4-6 1-2 1-4 1-6 1-8 1-10 2-0</td>
<td>2-4X6-4 1-6X6-6 2-0 2-4 2-6</td>
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<td>2-6X6-4 1-6X6-6 2-0 2-4 2-6</td>
<td>2-8X6-6 1-0 1-2 1-4 1-6 2-0</td>
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<td>2-0X8-0 1-6X6-8 2-0 2-4 2-6</td>
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<td>2-0X8-0 1-6X6-8 2-0 2-4 2-6</td>
<td>2-8X8-0 1-0 1-2 1-4 1-6 2-0</td>
<td></td>
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</tbody>
</table>
34. The stock layouts and designs for old growth Douglas fir doors are illustrated below.

35. An index immediately follows showing the various use classifications including "front entrance doors," "interior doors," etc., and indicating the identifying stock number, a brief description of the panel arrangement, and the pages on which the illustrations and dimensions appear.

36. A second index is arranged on the basis of numerical arrangement of the stock numbers.

"USE" CLASSIFICATION INDEX

<table>
<thead>
<tr>
<th>Stock number</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>F66, F67</td>
<td>6 panel Colonial</td>
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</tr>
<tr>
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<td>14</td>
</tr>
<tr>
<td>F145</td>
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<td>14</td>
</tr>
<tr>
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<tr>
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</tr>
<tr>
<td>F152</td>
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<td>16</td>
</tr>
<tr>
<td>F154</td>
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</tr>
<tr>
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<td>17</td>
</tr>
<tr>
<td>F162</td>
<td>2 panel (vertical)—1 light</td>
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</tr>
<tr>
<td>F63</td>
<td>4 panel (3 vertical)</td>
<td>17</td>
</tr>
<tr>
<td>F163</td>
<td>3 panel (vertical)—1 light</td>
<td>17</td>
</tr>
<tr>
<td>F108, F109</td>
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<td>15</td>
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<tr>
<td>F128, F129</td>
<td>do</td>
<td>16</td>
</tr>
<tr>
<td>F147</td>
<td>do</td>
<td>19</td>
</tr>
<tr>
<td>F214H</td>
<td>3 panel—3 light (horizontal)</td>
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<tr>
<td>F415H</td>
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<td>19</td>
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<td>F110, F111</td>
<td>1 panel—1 light</td>
<td>18</td>
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<td>F310, F311</td>
<td>1 panel—3 light (vertical)</td>
<td>18</td>
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<tr>
<td>F610, F611</td>
<td>1 panel—6 light (3 wide—2 high)</td>
<td>18</td>
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<tr>
<td>F810, F811</td>
<td>1 panel—8 light (4 wide—2 high)</td>
<td>18</td>
</tr>
<tr>
<td>F35, F36, F37</td>
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<td>23</td>
</tr>
<tr>
<td>F535, F536, F537</td>
<td>5 light (horizontal)</td>
<td>23</td>
</tr>
<tr>
<td>F635, F636, F637</td>
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<td>23</td>
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<td>F935M, F936M, F937M</td>
<td>9 light (marginal)</td>
<td>23</td>
</tr>
<tr>
<td>F1035, F1036, F1037</td>
<td>10 light (2 wide—5 high)</td>
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</tr>
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<td>24</td>
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<td>F1535, F1536, F1537</td>
<td>15 light (3 wide—5 high)</td>
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</tr>
<tr>
<td>F1635, F1636, F1637</td>
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<table>
<thead>
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<tbody>
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</tr>
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### Interior Doors

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<td>F20, F21, F22</td>
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<td>16</td>
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<tr>
<td>F80</td>
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### Rear Entrance Doors

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<td>F418</td>
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### Storm Doors

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</thead>
<tbody>
<tr>
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</tr>
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### Cupboard Doors

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### Garage Doors

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<thead>
<tr>
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<tbody>
<tr>
<td>F491</td>
<td>Saw-buck—4 light</td>
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<td>F691</td>
<td>Saw-buck—6 light</td>
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<td>F493</td>
<td>2 panel (vertical)—4 light</td>
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<td>F693</td>
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<td>F695</td>
<td>4 cross panel—6 light</td>
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<td>F804</td>
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<td>Flush door—1 light</td>
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<tr>
<td>F290</td>
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### STOCK NUMBER INDEX

#### House Doors

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</tr>
<tr>
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<td>15 light (3 wide—5 high)</td>
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<td>16 light (2 wide—8 high)</td>
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### STOCK NUMBER INDEX—Continued

#### SIDE LIGHTS

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#### STORM DOORS

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<td>FS7</td>
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#### CUPBOARD DOORS

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#### GARAGE DOORS

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<td>9 panel (vertical)</td>
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<tr>
<td>F190</td>
<td>Flush door—1 light</td>
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</tr>
<tr>
<td>F290</td>
<td>Flush door—2 light</td>
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</tr>
<tr>
<td>F491</td>
<td>Saw-buck—4 light</td>
<td>26</td>
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<td>F493</td>
<td>2 panel—4 light</td>
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<td>F495</td>
<td>4 panel (horizontal)—4 light</td>
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<td>4 panel—4 light</td>
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<td>F693</td>
<td>3 panel—6 light</td>
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<td>F695</td>
<td>4 panel (horizontal)—6 light</td>
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<td>F696</td>
<td>6 panel—6 light</td>
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</tr>
<tr>
<td>F894</td>
<td>4 panel—8 light</td>
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</tbody>
</table>

---

**F1**

Raised insert frame. Sticking: Ovolo.

**F2**

Flat insert frame. Sticking: P & G.
Stiles and top rail: 4\(\frac{1}{4}\)" 
Bottom rail: 6\(\frac{3}{4}\)"
Insert frame: 2\(\frac{1}{4}\)"

3-ply laminated flat panel. Furnished in grades A and B only.

Stiles and top rail: 4\(\frac{1}{4}\)" 
Muntin: 4\(\frac{1}{4}\)" 
Bottom rail: 9\(\frac{3}{4}\)"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.
Stiles and top rail .................................. 4 1/8"  
Intermediate rails .................................. 4 1/4"  
Bottom rail ......................................... 9 3/8"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

Stiles and top rail .................................. 4 1/8"  
Intermediate rails .................................. 4 1/4"  
Bottom rail ......................................... 9 3/8"

3-ply laminated flat panels. Furnished in grades A and B only. Sticking: Standard.

Stiles and top rail .................................. 4 1/8"  
Lock rail ............................................. 8"  
Intermediate rail and muntins ...................... 4 1/4"  
Bottom rail ......................................... 9 3/8"  
Height from floor to top of lock rail .......... 30 1/2"  
Height from top of intermediate rail to top of door .. 12 3/4"  
Height of center panels vary with height of door.

Doors 1' 8" and narrower made one panel wide. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.
Douglas Fir Stock Doors


<table>
<thead>
<tr>
<th>Size of door</th>
<th>Size of glass</th>
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<tbody>
<tr>
<td>2'6&quot; x 6'6&quot;</td>
<td>21½&quot; x 20½&quot;</td>
</tr>
<tr>
<td>2'8&quot; x 6'8&quot;</td>
<td>23½&quot; x 21½&quot;</td>
</tr>
<tr>
<td>2'10&quot; x 6'10&quot;</td>
<td>25½&quot; x 22½&quot;</td>
</tr>
<tr>
<td>3'0&quot; x 7'0&quot;</td>
<td>27½&quot; x 22½&quot;</td>
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</tbody>
</table>

Beads for glass included.


<table>
<thead>
<tr>
<th>Size of door</th>
<th>Size of glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot; x 6'6&quot;</td>
<td>21½&quot; x 20½&quot;</td>
</tr>
<tr>
<td>2'8&quot; x 6'8&quot;</td>
<td>23½&quot; x 21½&quot;</td>
</tr>
<tr>
<td>2'10&quot; x 6'10&quot;</td>
<td>25½&quot; x 22½&quot;</td>
</tr>
<tr>
<td>3'0&quot; x 7'0&quot;</td>
<td>27½&quot; x 22½&quot;</td>
</tr>
</tbody>
</table>

Beads for glass included.
Stiles and top rail: 49/16"
Lock rail: 8"
Muntins: 41/2"
Bottom rail: 93/4"
Height from floor to top of lock rail: 303/4"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.

---

Stiles and top rail: 49/16"
Intermediate rails and muntins: 41/2"
Bottom rail: 93/4"
Height from floor to top of upper cross rail: 423/4"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.

---

Stiles and top rail: 49/16"
Lock rail: 8"
Muntins: 41/2"
Bottom rail: 93/4"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.

---

Stiles and top rail: 49/16"
Intermediate rails and muntins: 41/2"
Bottom rail: 93/4"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.

---

Size of door
Size of glass
2'6" x 6'0" 2194" x 38"
2'8" x 6'0" 2194" x 40"
2'10" x 6'10" 2194" x 42"
3'0" x 7'0" 2194" x 44"

Beads for glass included.
Douglas Fir Stock Doors

Stiles and top rail ........................................... 4\(\frac{3}{4}\)"'
Lock rail .................................................... 8"'
Bottom rail .................................................. 9\(\frac{3}{4}\)"
Height to top of lock rail ................................ 30\(\frac{3}{4}\)"

2-ply laminated flat panels. Furnished in grades A and B only. Sticking: Standard.

Beads for glass included.

Stiles and top rail ........................................... 4\(\frac{3}{4}\)"'
Lock rail .................................................... 8"'
Bottom rail .................................................. 9\(\frac{3}{4}\)"

3-ply laminated flat panels. Furnished in grades A and B only. Sticking: Standard.

Size of door                  Size of glass
2'6" x 6'0"                   21\(\frac{3}{4}\)" x 20" 23\(\frac{3}{4}\)" x 20"
2'8" x 6'0"                   23\(\frac{3}{4}\)" x 20" 22" x 20"
2'10" x 6'10"                 25\(\frac{3}{4}\)" x 30" 24" x 30"
3'0" x 7'0"                   27\(\frac{3}{4}\)" x 32" 29" x 32"

Beads for glass included.

Bars \(\frac{1}{4}\)" between glass. 3-ply laminated flat panel. Furnished in grades A and B only. Sticking: Standard.

Size of door                  Size of glass
2'6" x 6'0"                   6\(\frac{3}{4}\)" x 12\(\frac{3}{4}\)"
2'8" x 6'0"                   7\(\frac{1}{4}\)" x 13"
2'10" x 6'10"                 8\(\frac{3}{4}\)" x 13\(\frac{3}{4}\)"
3'0" x 7'0"                   8\(\frac{3}{4}\)" x 14\(\frac{3}{4}\)"

Beads for glass included.

Stiles....................................................... 4\(\frac{3}{4}\)"'
Top and lock rails ......................... 6\(\frac{3}{4}\)"'
Bottom rail .............................................. 9\(\frac{3}{4}\)"

3-ply laminated flat panels. Furnished in grades A and B only. Sticking: Standard.

Size of door                  Size of glass
2'6" x 6'0"                   21\(\frac{3}{4}\)" x 20" 23\(\frac{3}{4}\)" x 20"
2'8" x 6'0"                   23\(\frac{3}{4}\)" x 20" 22" x 20"
2'10" x 6'10"                 25\(\frac{3}{4}\)" x 30" 24" x 30"
3'0" x 7'0"                   27\(\frac{3}{4}\)" x 32" 29" x 32"

Beads for glass included.
Stiles and top rail.......................... 494" 504"
Lock rail...................................... 414" 514"
Bottom rail................................... 914" 1114"

Height from top of lock rail to top
of door........................................ 22" 2334"

8-ply laminated flat panels. Furnished in grades
A and B only. Sticking: Standard.

Stiles........................................... 494"" 504"
Top and lock rails........................... 514" 614"
Intermediate rails and muntins............ 314"" 314"
Bottom rail................................... 914" 1114"

3-ply laminated flat panels. Can also be fur-
nished with raised panels, if desired. Furnished
in grades A and B only. Sticking: Standard.

Size of glass

Size of door | F128 | F129
-------------|------|------
2'6" x 6'6" | 2154" x 18" | 20" x 18"
2'8" x 6'8" | 2354" x 18" | 22" x 18"
2'10" x 6'10" | 2554" x 18" | 24" x 18"
3'0" x 7'0" | 2754" x 18" | 26" x 18"

Beads for glass included.

Stiles........................................... 494"" 504"
Top and lock rails........................... 514" 614"
Intermediate rails and muntins............ 314"" 314"
Bottom rail................................... 914" 1114"

3-ply laminated flat panels. Can also be fur-
nished with raised panels, if desired. Furnished
in grades A and B only. Sticking: Standard.

Size of glass

Size of door | F128 | F129
-------------|------|------
2'6" x 6'6" | 2154" x 24" | 2154" x 24"
2'8" x 6'8" | 2354" x 24" | 2354" x 24"
2'10" x 6'10" | 2554" x 24" | 2554" x 24"
3'0" x 7'0" | 2754" x 24" | 2754" x 24"

Beads for glass included.
Douglas Fir Stock Doors

F62

Stiles and top rail .................................. 49/4"
Lock rail and muntin ................................ 43/4"
Bottom rail ........................................... 93/4"
Height from top of lock rail to top of door. 22"

3-ply laminated flat panels. Furnished in grades A and B only. Sticking: Standard.

F162

Stiles and top rail .................................. 49/4"
Lock rail and muntin ................................ 43/4"
Bottom rail ........................................... 93/4"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.

F63

Stiles and top rail .................................. 49/4"
Muntins ................................................. 31/4"
Bottom rail ........................................... 93/4"
Height from top of lock rail to top of door. 22"

3-ply laminated flat panels. Furnished in grades A and B only. Sticking: Standard.

F163

Stiles and top rail .................................. 49/4"
Muntins ................................................. 31/4"
Bottom rail ........................................... 93/4"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A and B only. Sticking: Standard.

Beads for glass included.

Beads for glass included.

Size of door ........................................ Size of glass
2'6" x 6'6" ............................................ 213/4" x 18"
2'8" x 6'6" ............................................ 233/4" x 18"
2'10" x 6'10" ......................................... 253/4" x 18"
3'0" x 7'0" ............................................ 273/4" x 18"

Size of door ........................................ Size of glass
2'6" x 6'6" ............................................ 213/4" x 18"
2'8" x 6'6" ............................................ 233/4" x 18"
2'10" x 6'10" ......................................... 253/4" x 18"
3'0" x 7'0" ............................................ 273/4" x 18"
3-ply laminated flat panel. Furnished in grades A and B only. Sticking: Standard.

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F110</th>
<th>F111</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot; x 6'6&quot;</td>
<td>2154&quot; x 22&quot;</td>
<td>20&quot; x 22&quot;</td>
</tr>
<tr>
<td>2'8&quot; x 6'6&quot;</td>
<td>2354&quot; x 22&quot;</td>
<td>22&quot; x 22&quot;</td>
</tr>
<tr>
<td>2'10&quot; x 6'10&quot;</td>
<td>2554&quot; x 22&quot;</td>
<td>24&quot; x 22&quot;</td>
</tr>
<tr>
<td>3'0&quot; x 7'0&quot;</td>
<td>2754&quot; x 22&quot;</td>
<td>20&quot; x 22&quot;</td>
</tr>
</tbody>
</table>

Beads for glass included.

3-ply laminated flat panel. Furnished in grades A and B only. Sticking: Standard.

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F310</th>
<th>F311</th>
</tr>
</thead>
</table>
| 2'6" x 6'6"  | 6754" x 22" | 544" x 22"
| 2'8" x 6'6"  | 6954" x 22" | 614" x 22"
| 2'10" x 6'10" | 6154" x 22" | 7 9/16" x 22" |
| 3'0" x 7'0"  | 6354" x 22" | 8 3/4" x 22" |

Beads for glass included.

3-ply laminated flat panel. Furnished in grades A and B only. Sticking: Standard.

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F610</th>
<th>F611</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot; x 6'6&quot;</td>
<td>6754&quot; x 10 1/4&quot;</td>
<td>544&quot; x 10 1/4&quot;</td>
</tr>
<tr>
<td>2'8&quot; x 6'6&quot;</td>
<td>6954&quot; x 10 1/4&quot;</td>
<td>614&quot; x 10 1/4&quot;</td>
</tr>
<tr>
<td>2'10&quot; x 6'10&quot;</td>
<td>6154&quot; x 10 1/4&quot;</td>
<td>7 9/16&quot; x 10 1/4&quot;</td>
</tr>
<tr>
<td>3'0&quot; x 7'0&quot;</td>
<td>6354&quot; x 10 1/4&quot;</td>
<td>8 3/4&quot; x 10 1/4&quot;</td>
</tr>
</tbody>
</table>

Beads for glass included.

3-ply laminated flat panel. Furnished in grades A and B only. Sticking: Standard.

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F810</th>
<th>F811</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot; x 6'6&quot;</td>
<td>5&quot; x 10 1/4&quot;</td>
<td>4 15/16&quot; x 10 1/4&quot;</td>
</tr>
<tr>
<td>2'8&quot; x 6'6&quot;</td>
<td>5 15/16&quot; x 10 1/4&quot;</td>
<td>6 1/8&quot; x 10 1/4&quot;</td>
</tr>
<tr>
<td>2'10&quot; x 6'10&quot;</td>
<td>6&quot; x 10 1/4&quot;</td>
<td>7 9/16&quot; x 10 1/4&quot;</td>
</tr>
<tr>
<td>3'0&quot; x 7'0&quot;</td>
<td>6 3/4&quot; x 10 1/4&quot;</td>
<td>6 3/4&quot; x 10 1/4&quot;</td>
</tr>
</tbody>
</table>

Beads for glass included.
Stiles and top rail .................................. 53/4"
Lock rail ........................................... 93/4"
Bottom rail ......................................... 113/4"

3-ply laminated flat panel. Can also be furnished with raised panel, if desired. Furnished in grades A and B only. Sticking: Standard.

Size of door Size of glass
2'6" x 6'0"
2'10" x 6'10"
3'0" x 7'0"

Beads for glass included.

Stiles and top rail .................................. 49/4"
Lock and Intermediate rails ....................... 41/4"
Bottom rail ......................................... 99/4"

Bars 1/2" between glass. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

Size of door Size of glass
2'6" x 6'6"
2'8" x 6'8"
2'10" x 6'10"
3'0" x 7'0"

Beads for glass included.
Stiles and top rail ............................................. 49¼”
Lock and intermediate rails ................................. 49¼”
Bottom rail ..................................................... 99¼”

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

<table>
<thead>
<tr>
<th>Size of door</th>
<th>Size of glass</th>
<th>Size of glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>2’0” x 6’0”</td>
<td>2154” x 24”</td>
<td>2154” x 23¾”</td>
</tr>
<tr>
<td>2’6” x 6’0”</td>
<td>2354” x 24”</td>
<td>2354” x 23¾”</td>
</tr>
<tr>
<td>3’0” x 6’0”</td>
<td>2554” x 24”</td>
<td>2554” x 23¾”</td>
</tr>
<tr>
<td>3’0” x 6’10”</td>
<td>2754” x 23¾”</td>
<td>2754” x 23¾”</td>
</tr>
</tbody>
</table>

Beads for glass included.

Stiles ......................................................... 49¼”
Top and lock rails ......................................... 59¼”
Intermediate rails ......................................... 39¼”
Bottom rail .................................................. 99¼”

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

<table>
<thead>
<tr>
<th>Size of door</th>
<th>Size of glass</th>
<th>Size of glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>2’0” x 6’0”</td>
<td>2154” x 24”</td>
<td>2154” x 24”</td>
</tr>
<tr>
<td>2’6” x 6’0”</td>
<td>2354” x 24”</td>
<td>2354” x 24”</td>
</tr>
<tr>
<td>3’0” x 6’0”</td>
<td>2554” x 24”</td>
<td>2554” x 24”</td>
</tr>
<tr>
<td>3’0” x 6’10”</td>
<td>2754” x 23¾”</td>
<td>2754” x 23¾”</td>
</tr>
</tbody>
</table>

Beads for glass included.
Douglas Fir Stock Doors

Stiles and top rail: 49 1/16"
Lock rail: 5 1/8"
Intermediate rails: 4 1/2"
Bottom rail: 9 1/8"

Bars 1/4" between glass. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

Size of door | Size of glass
--- | ---
2'6" x 6'6" | 10 1/4" x 15"
2'8" x 6'8" | 11 3/4" x 16"
2'10" x 6'10" | 12 3/4" x 17"
3'0" x 7'0" | 13 3/4" x 18"

Beads for glass included.

F118

Stiles: 49 1/16"
Top and lock rails: 5 1/8"
Intermediate rails: 3 3/4"
Bottom rail: 9 1/8"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

Size of door | Size of glass
--- | ---
2'6" x 6'6" | 21 3/4" x 30"
2'8" x 6'8" | 22 3/4" x 34"
2'10" x 6'10" | 23 3/4" x 36"
3'0" x 7'0" | 27 3/4" x 38"

Beads for glass included.

F453

Stiles and top rail: 49 1/16"
Intermediate rails: 4 1/8"
Bottom rail: 9 1/8"

Bars 1/4" between glass. 3-ply laminated flat panels. Furnished in grades A and B only. Sticking: Standard.

Size of door | Size of glass
--- | ---
2'6" x 6'6" | 10 1/4" x 15"
2'8" x 6'8" | 11 3/4" x 16"
2'10" x 6'10" | 12 3/4" x 17"
3'0" x 7'0" | 13 3/4" x 18"

Beads for glass included.

F118 1/2

Stiles: 49 1/16"
Top and lock rails: 5 1/8"
Intermediate rails: 3 3/4"
Bottom rail: 9 1/8"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

Size of door | Size of glass
--- | ---
2'6" x 6'6" | 21 3/4" x 30"
2'8" x 6'8" | 22 3/4" x 34"
2'10" x 6'10" | 23 3/4" x 36"
3'0" x 7'0" | 27 3/4" x 38"

Beads for glass included.
### Commercial Standard CS73-45

**Stiles** | 4\(\frac{1}{4}\)"
---|---
**Top and lock rails** | 5\(\frac{1}{4}\)"
**Intermediate rails** | 3\(\frac{1}{4}\)"
**Bottom rail** | 9\(\frac{3}{4}\)"

Bars \(\frac{1}{4}\)" between glass. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

**Size of door** | **Size of glass**
---|---
2'6" x 6'6" | 6\(\frac{1}{4}\)" x 32"
2'8" x 6'6" | 7\(\frac{1}{4}\)" x 34"
2'10" x 6'10" | 8\(\frac{1}{4}\)" x 36"
3'0" x 7'0" | 9\(\frac{3}{4}\)" x 38"

Bars for glass included.

---

**F618**

**Stiles** | 4\(\frac{1}{4}\)"
---|---
**Top and lock rails** | 5\(\frac{1}{4}\)"
**Intermediate rails** | 3\(\frac{1}{4}\)"
**Bottom rail** | 9\(\frac{3}{4}\)"

Bars \(\frac{1}{4}\)" between glass. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

**Size of door** | **Size of glass**
---|---
2'6" x 6'6" | 6\(\frac{1}{4}\)" x 154"
2'8" x 6'8" | 7\(\frac{1}{4}\)" x 160"
2'10" x 6'10" | 8\(\frac{1}{4}\)" x 176"
3'0" x 7'0" | 9\(\frac{3}{4}\)" x 184"

Bars for glass included.

---

**F918**

**Stiles** | 4\(\frac{1}{4}\)"
---|---
**Top and lock rails** | 5\(\frac{1}{4}\)"
**Intermediate rails** | 3\(\frac{1}{4}\)"
**Bottom rail** | 9\(\frac{3}{4}\)"

Bars \(\frac{1}{4}\)" between glass. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

**Size of door** | **Size of glass**
---|---
2'6" x 6'6" | 6\(\frac{1}{4}\)" x 109"
2'8" x 6'8" | 7\(\frac{1}{4}\)" x 115"
2'10" x 6'10" | 8\(\frac{1}{4}\)" x 131"
3'0" x 7'0" | 9\(\frac{3}{4}\)" x 139"

Bars for glass included.
Douglas Fir Stock Doors

Furnished in grades A and B only. Sticking: Standard.

**F35** | **F36** | **F37**
---|---|---
Stiles | 4¾" | 5¾" | 6¾"
Top rail | 4¾" | 5¾" | 6¾"
Bottom rail | 9¾" | 11¾" | 13¾"

- **Beads for glass included.**

**Sizes of glass (in inches)**

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F35</th>
<th>F36</th>
<th>F37</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot;x6'6&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>2'8&quot;x6'8&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>2'10&quot;x6'10&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>3'0&quot;x7'0&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
</tbody>
</table>

F35M | F36M | F37M
---|---|---
Stiles | 4¾" | 5¾" | 6¾"
Top rail | 4¾" | 5¾" | 6¾"
Bottom rail | 9¾" | 11¾" | 13¾"

Bars ¾" between glass. Furnished in grades A and B only. Sticking: Standard.

**Sizes of glass (in inches)**

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F35M</th>
<th>F35M</th>
<th>F37M</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot;x6'6&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>2'8&quot;x6'8&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>2'10&quot;x6'10&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>3'0&quot;x7'0&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
</tbody>
</table>

F35M | F36M | F37M | F38M | F38M | F38M
---|---|---|---|---|---
Stiles | 4¾" | 5¾" | 6¾" | 5¾" | 5¾" | 5¾"
Top rail | 4¾" | 5¾" | 6¾" | 5¾" | 5¾" | 5¾"
Bottom rail | 9¾" | 11¾" | 13¾" | 9¾" | 11¾" | 13¾"

Bars ¾" between glass. Furnished in grades A and B only. Sticking: Standard.

**Sizes of glass (in inches)**

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F35</th>
<th>F36</th>
<th>F37</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot;x6'6&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>2'8&quot;x6'8&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>2'10&quot;x6'10&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>3'0&quot;x7'0&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
</tbody>
</table>

Bars ¾" between glass. Furnished in grades A and B only. Sticking: Standard.

**Sizes of glass (in inches)**

<table>
<thead>
<tr>
<th>Size of door</th>
<th>F35</th>
<th>F36</th>
<th>F37</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'6&quot;x6'6&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
<tr>
<td>2'8&quot;x6'8&quot;</td>
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<td>5x5</td>
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<tr>
<td>2'10&quot;x6'10&quot;</td>
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<td>5x5</td>
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<tr>
<td>3'0&quot;x7'0&quot;</td>
<td>5x5</td>
<td>5x5</td>
<td>5x5</td>
</tr>
</tbody>
</table>

Beads for glass included.

---

- **F35** | **F36** | **F37**
---|---|---
Stiles | 4¾" | 5¾" | 6¾"
Top rail | 4¾" | 5¾" | 6¾"
Bottom rail | 9¾" | 11¾" | 13¾"

- **Beads for glass included.**

Sizes of glass (in inches)  
**F1035**  
**F1036**  
**F1037**  
---  
**F1035**  
**F1036**  
**F1037**  
---  
**F1035**  
**F1036**  
**F1037**  
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**F1035**  
**F1036**  
**F1037**  
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**F1035**  
**F1036**  
**F1037**  
---  
**F1035**  
**F1036**  
**F1037**  
---


Sizes of glass (in inches)  
**F1235**  
**F1236**  
**F1237**  
---  
**F1235**  
**F1236**  
**F1237**  
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**F1235**  
**F1236**  
**F1237**  
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**F1236**  
**F1237**  
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**F1235**  
**F1236**  
**F1237**  
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**F1235**  
**F1236**  
**F1237**  
---


Sizes of glass (in inches)  
**F1535**  
**F1536**  
**F1537**  
---  
**F1535**  
**F1536**  
**F1537**  
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**F1537**  
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**F1535**  
**F1536**  
**F1537**  
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**F1535**  
**F1536**  
**F1537**  
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Sizes of glass (in inches)  
**F1635**  
**F1636**  
**F1637**  
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**F1635**  
**F1636**  
**F1637**  
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**F1635**  
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**F1637**  
---
SIDELIGHTS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F035</td>
<td>Stiles: Not over 2 1/2&quot; wide.  Top rail: Not over 6 1/4&quot; wide. Bottom rail: Not over 12 1/2&quot; wide. Top and bottom rails made same width as in doors with which they are used. Furnished in grade A only. Sticking: Standard. Bars 1/2&quot; between glass. Beads for glass included.</td>
</tr>
<tr>
<td>F0535</td>
<td>Stiles: Not over 2 1/2&quot; wide.  Top rail: Not over 6 1/4&quot; wide. Bottom rail: Not over 12 1/2&quot; wide. Top and bottom rails made same width as in doors with which they are used. Furnished in grade A only. Sticking: Standard. Bars 1/2&quot; between glass. Beads for glass included.</td>
</tr>
<tr>
<td>F0635M</td>
<td>Stiles: Not over 2 1/2&quot; wide.  Top rail: Not over 6 1/4&quot; wide. Bottom rail: Not over 12 1/2&quot; wide. Top and bottom rails made same width as in doors with which they are used. Furnished in grade A only. Sticking: Standard. Bars 1/2&quot; between glass. Beads for glass included.</td>
</tr>
</tbody>
</table>

STORM DOORS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F57</td>
<td>Stiles and top rail: 4 1/2&quot;  Intermediate rails: 4 1/2&quot;  Bottom rail: 0 3/4&quot;  3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in 1/4&quot; millrun grade only. Sticking: Standard.</td>
</tr>
<tr>
<td>FS07</td>
<td>Stiles and top rail: 4 1/2&quot;  Intermediate rails: 4 1/2&quot;  Bottom rail: 0 3/4&quot;  3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in 1/4&quot; millrun grade only. Sticking: Standard.  Storm doors made 1/4&quot; over in width and 1&quot; over in length than corresponding standard size openings.</td>
</tr>
</tbody>
</table>

Size of door: Size of glass
- 2'6 1/2" x 6 7/16"  22" x 16 1/4" 2'6 1/2" x 6 9/16"  24" x 16 1/4" 2'10 1/2" x 6 11/16"  26" x 17 1/4" 3'11 1/2" x 7 1/16"  28" x 18 3/4"  Beads for glass included.
CUPBOARD DOORS

F05 doors are made as below:

1'10" to 2'2" 2 cross panel.
2'4" to 3'0" 3 cross panel.
3'2" to 3'10" 4 cross panel.
4'0" to 6'6" 5 cross panel.

3-ply laminated flat panels.
F05 can be furnished with raised panels.
Cupboard doors made in B and better grade only.
Sticking: Standard

GARAGE DOORS


For standard glass sizes of garage doors, see page 28.
Douglas Fir Stock Doors

**F493**

<table>
<thead>
<tr>
<th>G</th>
<th>G</th>
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<tbody>
<tr>
<td>G</td>
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<tr>
<td>G</td>
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</tbody>
</table>

Stiles: 4½"
Top and lock rails: 6½"
Muntins: 1"
Bottom rail: ½"
Vertical bars, 3⁄₄" between glass.
Horizontal bars, 1" between glass.

2-ply laminated flat panels. Can also be furnished with raised panels, if desired.

Sticking: Standard.

Beads for glass included.

**F693**

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<tr>
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<tbody>
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</tbody>
</table>

Stiles, top and lock rails: 5½"
Muntins: ½"
Bottom rail: ½"
Vertical and horizontal bars, 1" between glass.

3-ply laminated flat panels. Can also be furnished with raised panels, if desired.

Sticking: Standard.

Beads for glass included.

**F495**

<table>
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</tbody>
</table>

Stiles: 4½"
Top and lock rails: 6½"
Intermediate rails: 4½"
Bottom rail: ½"
Vertical bars, 3⁄₄" between glass.

3-ply laminated flat panels. Can also be furnished with raised panels, if desired.

Sticking: Standard.

Beads for glass included.

**F695**

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</tr>
</tbody>
</table>

Stiles, top and lock rails: 5½"
Intermediate rails: 4½"
Bottom rail: ½"
Vertical and horizontal bars, 1" between glass.

3-ply laminated flat panels. Can also be furnished with raised panels, if desired.

Sticking: Standard.

Beads for glass included.

For standard glass sizes of garage doors, see page 28.
F496

<table>
<thead>
<tr>
<th>Stiles</th>
<th>4%6&quot;</th>
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</thead>
<tbody>
<tr>
<td>Top and lock rails</td>
<td>5%4&quot;</td>
</tr>
<tr>
<td>Intermediate rail</td>
<td>5%4&quot;</td>
</tr>
<tr>
<td>Bottom rail</td>
<td>5%4&quot;</td>
</tr>
<tr>
<td>Height of top panels</td>
<td>9%6&quot;, shoulder to shoulder.</td>
</tr>
</tbody>
</table>

Vertical bars 5%6" between glass. Horizontal bars 1" between glass, 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Sticking: Standard.

Beads for glass included.

STANDARD GLASS OPENINGS FOR STANDARD GARAGE DOOR DESIGNS SHOWN ABOVE

SETS

<table>
<thead>
<tr>
<th>Size of door</th>
<th>Size of glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot;x7'6&quot;</td>
<td>9%4&quot;x16&quot;</td>
</tr>
<tr>
<td>20&quot;x8'0&quot;</td>
<td>9%4&quot;x16&quot;</td>
</tr>
<tr>
<td>26&quot;x7'6&quot;</td>
<td>10%4&quot;x16&quot;</td>
</tr>
<tr>
<td>26&quot;x8'0&quot;</td>
<td>10%4&quot;x16&quot;</td>
</tr>
<tr>
<td>28&quot;x7'6&quot;</td>
<td>11%4&quot;x13&quot;</td>
</tr>
<tr>
<td>28&quot;x8'0&quot;</td>
<td>11%4&quot;x16&quot;</td>
</tr>
<tr>
<td>30&quot;x8'0&quot;</td>
<td>12&quot;x13&quot;</td>
</tr>
<tr>
<td>40&quot;x7'6&quot;</td>
<td>12&quot;x16&quot;</td>
</tr>
<tr>
<td>40&quot;x8'0&quot;</td>
<td>12&quot;x16&quot;</td>
</tr>
</tbody>
</table>

PAIRS

<table>
<thead>
<tr>
<th>Size of door</th>
<th>Size of glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'6&quot;x7'0&quot;</td>
<td>10&quot;x13&quot;</td>
</tr>
<tr>
<td>3'6&quot;x7'6&quot;</td>
<td>10&quot;x16&quot;</td>
</tr>
<tr>
<td>3'6&quot;x8'0&quot;</td>
<td>10&quot;x16&quot;</td>
</tr>
<tr>
<td>3'9&quot;x7'0&quot;</td>
<td>11&quot;x16&quot;</td>
</tr>
<tr>
<td>3'9&quot;x7'6&quot;</td>
<td>11&quot;x16&quot;</td>
</tr>
<tr>
<td>3'9&quot;x8'0&quot;</td>
<td>11&quot;x16&quot;</td>
</tr>
<tr>
<td>4'0&quot;x7'0&quot;</td>
<td>12&quot;x13&quot;</td>
</tr>
<tr>
<td>4'0&quot;x7'6&quot;</td>
<td>12&quot;x16&quot;</td>
</tr>
<tr>
<td>4'0&quot;x8'0&quot;</td>
<td>12&quot;x16&quot;</td>
</tr>
</tbody>
</table>

F696

| Stiles, top and lock rails | 5%6" |
| Intermediate rail and muntins | 5%6" |
| Bottom rail                 | 5%6" |
| Height of top panels        | 9%6", shoulder to shoulder. |

Vertical and horizontal bars 1" between glass, 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Sticking: Standard.

Beads for glass included.

F894

| Stiles, top and lock rails | 6%6" |
| Muntins                   | 3%4" |
| Bottom rail                | 5%6" |

Vertical bars 5%6" between glass. Horizontal bars 1" between glass, 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Sticking: Standard.

Beads for glass included.

<table>
<thead>
<tr>
<th>Size of door</th>
<th>Size of glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'6&quot;x7'0&quot;</td>
<td>714&quot;x13&quot;</td>
</tr>
<tr>
<td>3'6&quot;x7'0&quot;</td>
<td>714&quot;x16&quot;</td>
</tr>
<tr>
<td>3'9&quot;x7'0&quot;</td>
<td>814&quot;x13&quot;</td>
</tr>
<tr>
<td>3'9&quot;x7'0&quot;</td>
<td>814&quot;x16&quot;</td>
</tr>
<tr>
<td>4'0&quot;x7'0&quot;</td>
<td>9&quot;x13&quot;</td>
</tr>
<tr>
<td>4'0&quot;x7'0&quot;</td>
<td>9&quot;x16&quot;</td>
</tr>
</tbody>
</table>

Beads for glass included.
### Douglas Fir Stock Doors

**F093**
- **Stiles, top and lock rails**: 5 3/4”
- **Muntins**: 3 3/4”
- **Bottom rail**: 9 3/4”

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Sticking: Standard.

**F099**
- **Stiles, top and lock rails**: 5 3/4”
- **Intermediate rails and muntin**: 5 3/4”
- **Bottom rail**: 9 3/4”

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Sticking: Standard.

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**F190**
- V.G. flush garage door in sets, with standard glass openings, as shown, or without glass openings (blank).
- Each side of each door with 6 batts (“V” ceiling strips) wide, 3 “V” grooves.
- Stiles full thickness of door with intervening ceiling strips glued and nailed to core.
- Sets of 3, standard width of each door 2’8”, glass size 10 3/4” x 16”, beads tacked in.
- One light per door, standard, placed 18” from top of door.
- Metal bars or leaded glass recommended for divided light effect, if desired.
- Made in 1 3/4” thickness only.

**F290**
- V.G. flush garage door in pairs, with standard glass openings, as shown, or without glass openings (blank).
- Each side of each door with 9 batts (“V” ceiling strips) wide, 3 “V” grooves.
- Stiles full thickness of door with intervening ceiling strips glued and nailed to core.
- Standard width of each door in pairs, 4’0”, glass size 10 3/4” x 16”, beads tacked in.
- Two lights per door, standard, placed 18” from top of door.
- Metal bars or leaded glass recommended for divided light effect, if desired.
- Made in 1 3/4” thickness only.
GRADE MARKING

37. The following sets forth the grade marking rules adopted by the Fir Door Institute to preserve the high standards of quality herein recorded and to insure distributors and ultimate consumers receiving the proper grade of fir door for their specific needs:

38. All fir doors guaranteed to conform to the commercial standard grading rules shall be marked or branded with the letters "FDI" followed by the numerals designating the particular manufacturer. (The numerals 00 are used here only for illustration.)

38 (a). All fir doors of A grade shall be stamped or branded

38 (b). All fir doors of B grade shall be stamped or branded

38 (c). All fir doors of C grade shall be stamped or branded

38 (d). All fir doors of "Millrun" grade shall be stamped or branded

EFFECTIVE DATE

39. The standard is effective for new production from September 20, 1945.
STANDING COMMITTEE

40. The following individuals comprise the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Each organization nominated its own representatives. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Division of Trade Standards, National Bureau of Standards, which acts as secretary for the committee.

Manufacturers:
Henry L. Mertz, Buffelen Lumber and Manufacturing Co., Tacoma, Wash.
D. C. Salley, Northwest Door Co., Tacoma, Wash.

Distributors:
Don S. Coles, W. P. Fuller & Co., 1117 A St., Tacoma 1, Wash.
Lionel Ray, Huttig Sash and Door Co., 1000–1300 S. Vandeventer Ave., St. Louis, Mo.
Don A. Campbell, Bonner Campbell Co., Lebanon, Ky., Representing National Retail Lumber Dealers Association.
George W. LaPointe, Jr., O. and N. Lumber Co., 620 Main St., Menominee, Wis.

Users:
Earl W. Macy, Property Standards Unit, Federal Housing Administration, National Housing Agency, Washington 25, D. C.
Nelson J. Morrison, Room 228, Peikins Bldg., Tacoma, Wash., Representing The American Institute of Architects.

HISTORY OF PROJECT

41. On January 25, 1938, the Fir Door Institute requested the cooperation of the Division of Trade Standards in bringing together all interested parties for the development and establishment of standards for stock fir doors. A draft of the preliminary standard was sent on March 11, 1938, to a comprehensive list of those interested in the production, distribution, sale, and use of this commodity. On April 4, 1938, a general conference was held at Tacoma, Wash., for the public discussion of the proposed standard. Some modifications were made and the conference unanimously passed a resolution that the standard, as modified, be circulated for public acceptance as the commercial standard of the industry. This was done on April 28, 1938. Following satisfactory acceptance and in the absence of active opposition, the establishment of the commercial standard, designated as CS73–38, was announced on June 30, 1938, to become effective for new production immediately.

FIRST REVISION

42. On January 4, 1943, the Fir Door Institute submitted a proposed revision which included two new door layouts and a slight modification in the requirements for panels and bottom rails for grade A and grade B doors. These changes were approved by the Standing Committee, and the recommended revision was circulated on February 27, 1943 to those directly concerned for written acceptance.
43. Following acceptance by a satisfactory majority, the success of the revision was announced on May 15, 1943, as CS73–43, effective for new production from June 15, 1943.
SECOND REVISION

44. Difficulties encountered in securing wide widths of old growth Douglas fir shop lumber led to the submission of a proposed revision on April 27, 1945, by the Fir Door Institute to permit a limited number of stiles, rails, and mullions to be glued-up with moisture-resistant glue. The millrun grade was dropped from five layouts, two stock layouts were deleted entirely, and six additional layouts were made available in grades C and millrun. Upon approval by the standing committee, the recommended revision was circulated to the trade for written acceptance on June 25, 1945. Following acceptance by a satisfactory majority, the success of the revision was announced on August 20, 1945 as Commercial Standard CS73-45.
ACCEPTANCE OF COMMERCIAL STANDARD

If acceptance has not previously been filed, this sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date .................................

Division of Trade Standards,
National Bureau of Standards,
Washington 25, D. C.

Gentlemen:

We believe that the Commercial Standard CS73-45 constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the

Production 1    Distribution 1    Purchase 1    Testing 1

of old growth Douglas fir standard stock doors.

We reserve the right to depart from it as we deem advisable.

We understand, of course, that only those articles which actually comply with the standard in all respects can be identified or labeled as conforming thereto.

Signature of authorized officer ..................................................... (In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer ....................................................

Organization ................................................................................. (Fill in exactly as it should be listed)

Street address .................................................................................

City, zone, and State ........................................................................

1 Underscore which one. Please see that separate acceptances are filed for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade associations, trade papers, etc., desiring to record their general support, the words "General Support" should be added after the signature.
TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. Enforcement.—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices, and the like.

2. The acceptor's responsibility.—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distribution, or consumption of the article in question.

3. The Department's responsibility.—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: First, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. Announcement and promulgation.—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active, valid opposition, the success of the project is announced. If, however, in the opinion of the standing committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.
ASSOCIATIONS

(General Support)

Building Officials Conference of America, Washington, D. C.
Carolina Lumber & Building Supply Association, Charlotte, N.C.
Douglas Fir Plywood Association, Tacoma, Wash.
Fir Door Institute, Tacoma, Wash.
National Hardwood Lumber Association, Chicago, Ill.
North East Lumbermens Association, Columbus, Mo.
Ohio Association of Retail Lumber Dealers, The, Xenia, Ohio.
Prefabricated Home Manufacturers' Institute, Washington, D. C.
Southern California Retail Lumber Association, Los Angeles, Calif.
Southern Woodwork Association, Atlanta, Ga.
West Coast Lumbermen's Association, Seattle, Wash.
Wisconsin Retail Lumbermens Association, Milwaukee, Wis.
Woodwork Jobbers Service Bureau, Chicago, Ill.

FIRMS

Asce Door Co., Hoquiam, Wash.
Adams, Franklin O., Tampa, Fla.
Adams & Kelly Co., Omaha, Nebr.
Adams-Rogers Co., Indianapolis, Ind.
Addison-Budesal Co., Atlanta, Ga.
Aetna Industrial Corporation, C. C. Coolbaugh & Son Co. Division, Gloucester City, N. J.
Andrews, Jones, Blaise & Goodell, Boston, Mass.
Angelina County Lumber Co., Keltys, Tex.
Arizona Sash, Door & Glass Co., Tucson, Ariz.
Atkinson Mill & Manufacturing Co., Oakland, Calif.
Atlantic City Lumber Co., Atlantic City, N. J.
Austin, Ennis R., South Bend, Ind.
Baltimore, City of, Bureau of Plans & Surveys, Baltimore, Md.
Barger Millwork Co., Statesville, N. C.
Baxter & Co. C. B., Kansas City, Mo.
Beasley & Sons Co., Nashville, Tenn.
Bedard & Morency Mill Co., Oak Park, Ill.
Bell Manufacturing Co., Inc., C. C., West Monroe, La.
Bennett-Bailey Lumber Co., Minneapolis, Minn.
Bennington Lumber Co., Cansas City, Mo.
Beringer, F. E. & R. L. Kelley, Champaign, Ill.
Beutler, William, Sioux City, Iowa.
Beyster & Sons Co., John, Detroit, Mich.
Billings Sash & Door Co., Billings, Mont.
Birmingham Sash & Door Co., Birmingham, Ala.
Biltmore, H. A., La Mesa, Calif.
Blackburn, Inc., Robert, Milwaukee, Wis.
Blount Lumber Co., The, La Crosse, N. Y.
Boehm, George H., Door Co., N. Y.
Bohnhoff Lumber Co., Inc, Los Angeles, Calif.
Borland Lumber Co., Oil City, Pa.
Boosman & Casson, Harrison, N. J.
Bovard, William R., Kansas City, Mo. (General support.)
Brainerd, Harry B., New York, N. Y. (General support.)
Bratton, Clarence W., New York, N. Y.
Bristol Door & Lumber Co., Bristol, Va.
Brust & Brust, Milwaukee, Wis.
Buehner & Orth, St. Paul, Minn. (General support.)
Buell Lumber & Manufacturing Co., Dallas, Tex.
Buffalo, City of, Department of Public Works, Architectural Service, Buffalo, N. Y.
Buffalo Plywood Corporation, Buffalo, N. Y.
Buhfelen Lumber & Manufacturing Co., Tacoma, Wash., and Fort Worth, Tex.
Builders Supply Co., Bismarck, N. Dak.
Building Service, Inc., Great Falls, Mont.
Burton Lingo Co., Ft. Worth, Tex.
Byron Sash & Door Co., Inc, Louisville, Ky.
C-W Plywood Co., Chicago, Ill.
California Door Co., The, Los Angeles, Calif.
California Panel & Veneer Co., Los Angeles, Calif.
Calmar Manufacturing Co., The, Calmar, Iowa.
Cameron Lumber Co., Inc., Newburgh, N. Y.
Camlet, J. Thomas, Pascoa, N. J.
Camp Plywood Co., Inc., The E. W., Indianapolis, Ind., and Louisville, Ky.
Cannon & Mullen, Salt Lake City, Utah.
Cannahan Manufacturing Co., Loogootee, Ind.
Cellar Lumber Co., The, Westerville, Ohio.
Central Glazing Co., Fort Worth, Tex.
Central Wholesale Co., Inc., Shreveport, La.
Chapin, Rollo C., Minneapolis, Minn. (General support.)
Chapin Lumber Co., The, Denver, Aurora Branch, Colo.
Charlottesville Lumber Co., Inc, Charlottesville, Va.
Chicago & Riverdale Lumber Co., Chicago, III.
Christmann Veneer & Lumber Co., St. Louis, Mo.
Cincinnati City Lumber Co., The, Cincinnati, Ohio.
Clark Veneer Co., Walter, Grand Rapids, Mich.
Cleary Millwork Co., Inc, Ansonia, Conn.
Clent Lumber Co., Dallas, Tex.
Cline Brothers Lumber Co., Inc, Kendallville, Ind.
Cogswell Construction Co., The, Baltimore, Md.
Collier Barnett Co., The, Toledo, Ohio.
Comb Lumber Co., Lexington, Ky.
Conrad & Cummings, Binghamton, N. Y.
Conrow, H. S., Wichita, Kans.
Continental Homes, Inc., Crawfordsville, Ind.
Coolidge, Shepley, Bulfinch & Abbott, Boston, Mass.
Cordele Sash, Door & Lumber Co., Inc, Cordele, Ga.
Cram & Ferguson, Boston, Mass.
Crawford Co., Baton Rouge, La.
Crossett & Ireland Lumber Co., Brooklyn, N. Y.
Crouch & Beahan Co., Rochester, N. Y.
Crowell & Lancaster, Bangor, Maine.
Crowne City Lumber & Mill Co., Pasadena, Calif.
Curtsis Co.'s, Inc, Chicago Division, Chicago, Ill.
Dakota Sash & Door Co., Aberdeen, S. Dak.
D'Arcy Co., Dover, N. J.
Davidson Sash & Door Co., Inc, Lake Charles, La.
Dayton Sash & Door Co., The, Dayton, Ohio.
Dejarrett, Charles Wagner, Des Moines, Iowa.
Doming & Thompson Co., Inc, Frankfort, Ind.
Dietz, George J., Buffalo, N. Y.
Doddington Corporation, The, Columbus, Ohio.
Donlin-Johnson Co., St. Cloud, Minn.
Donovan, John J., Berkeley, Calif.
Dowling & Co., Inc., Cincinnati, Ind.
Dyke Bros., Fort Smith, Ark.
Dykes Lumber Co., New York, N. Y.
Eliot Bay Mill Co., Seattle, Wash.
Emmons-Hawkins Co., Watertown, Conn.
Erlanger Lumber Co., Superior, Wis.
Estes Lumber Co., Birmingham, Ala.
Evans-MacArthur Co., New York, N. Y.
Fank, Charles William, Anderson, S. C.
Farr & Loetscher Manufacturing Co., Dubuque, Iowa.
Ferguson, C., St. Louis, Mo.
Fischer Lime & Cement Co., Memphis, Tenn.
Fish & Hunter Co., The, Rapid City, S. Dak.
Flannagan, Eric G., Henderson, N. C.
Florida, University of, School of Forestry, Gainesville, Fla.
Foltz & Son, Herbert, Winter Haven, Fla.
Fort Wayne Builders Supply Co., Fort Wayne, Ind.
Foster Lumber Co., R. S., Indianapolis, Ind.
Frederick & Co., R. W., Fort Lake Co., Utah.
Frederick Bros., Inc., Pottstown, Pa.
Furner, William C., Honolulu, Hawaii.
Gallagher & Huguley, Inc., Washington, D. C.
Garber, Frederick W., Cincinnati, Ohio.
General Millwork & Lumber Co., Canton, Ohio.
General Paint Corporation, Spokane, Wash.
Gibson Door Co., The, Utica, N. Y.
Glendale Sash & Millwork Corporation, Glendale, Calif., N. Y., and N.
Gourley & Co., John, Highland Park, III.
Green Lakes Sash & Door Co., The, Cleveland, Ohio.
Gresham Lumber Co., Inc., Griffin, Ga.
Groebstein Construction Co., Lakewood, N. J.
Hahn, Stanley W., Silver Spring, Md.
Haley Bros., Santa Monica, Calif.
Hanrahan & Sons, Samuel, Cincinnati, Ohio.
Hargis & Mott, Fort Smith, Ark.
Harbor Plywood Corporation, Atlanta, Ga., Hough, Wash., and Jacksonville, Fla.
Harbor Plywood Corporation (Chicago Division), Chicago, Ill.
Hartford Lumber Co., Grand Island, Nebr.
Hasness, Carlisle D., Harrisburg, Pa.
Hawker Lumber & Warehouse Co., Boston, Mass.
Haxby & Bissell, Minneapolis, Minn.
Heidtter Lumber Corporation, Elizabeth, N. J.
Helfenstein, Hirsch & Watson, St. Louis Mo.
Higgins, Charles H., New York, N. Y.
Hogdson & Son, Charles, San Gabriel, Calif.
Hoerner, P. John, St. Louis, Mo.
Hogan Lumber Co., Oakland, Calif.
Holsman & Holsman & Kleikamp, Chicago, Ill.
Homerink Co., F. W., New York, N. Y.
Hunt, Frank L., Jr., Springfield, Calif.
Houkorn, S. M., Fargo, N. Dak.
Huber-Laneton Co., Rensselaer, N. Y.
Hudson Lumber Co., Akron, Ohio.
Hussey-Williams Co., Inc., Ozone Park, L. I., N. Y.
Huttig Sash & Door Co., Columbus, Ohio, Jackson.
Irons & Leecy, St. Louis, Mo.
Huttig Sash & Door Co. of Texas, Dallas, Tex.
Indiana Lumber & Manufacturing Co., South Bend, Ind.
Interior Woodwork Co., Milwaukee, Wis.
Interstate Lumber Co., Missoula, Mont.
Interstate Sash & Door Co., The, Canton, Ohio.
Ivey, Inc., Edison J., Seattle, Wash.
Jersey Millwork Corporation, Jersey City, N. J.
Johnson & Lundgren, Tacoma, Wash.
Johnson, Waukiap & Dukehart, Portland, Oreg.
Kaufman, Louis R., Cohoes, N. Y.
Keich & O'Brien, Warren, Ohio.
Kellogg & Sons Co., Charles C., Utica, N. Y.
Kilham, Hopkins & Greesly, Boston, Mass.
Kimball & Wilson, Roanoke, Va., General.
Kimball, Steel & Sandham, Omaha, Nebr.
Kneeland, Bigelow Distributing Co., Bay City, Mich.
Koehl & Son, Inc., John W., Los Angeles, Calif.
Kohler & Holm, Alhambra, Calif.
Kohn, Robert D.-Chas. Butler, New York, N. Y.
Krauss Bros. Lumber Co. of Florida, Tampa, Fla.
Law, Law & Manufacturing Co., Minneapolis, Minn.
Larrick, Thomas, Columbus, Ohio.
Law, Law, Potter & Nystrom, Madison, Wis.
Levy, Will, St. Louis, Mo.
Levis Lumber Co., Spring Lake, N. J.
Liberty Lumber & Manufacturing Co., Inc., Erwin, Tenn.
Loeb, Laurence M., White Plains, N. Y.
Loetischer & Burch Manufacturing Co., Des Moines, Iowa.
Long Bell Lumber Co., The, Fort Smith, Ark.
Lumbermen's Door & Trim Co., The, Cleveland, Ohio.
Lumbermen's Supply, Inc., Sacramento, Calif.
Lyman Hawkins Lumber Co., Akron, Ohio.
Lyons-Gray Lumber Co., Dallas, Tex.
Malone Door & Wood Co., Portland, Oreg.
Mabood, Alex B., Bluefield, W. Va.
Mansfield Lumber Co., Fort Smith, Ark.
Markland Contracting Co., M. B., Atlantic City N. J.
Marquard Sash & Door Manufacturing Co., The, Cleveland, Ohio.
Marvin, A. R., Waterbury, Conn.
Mason City Millwork Co., Mason City, Iowa.
Mason & Co., George D., Detroit, Mich.
Mason & Sons, Inc., A., Peru, N. Y.
Massena & du Pont, Wilmington, Del.
Mathey Sash & Door Co., Oakland, Calif.
Maulk Seattle Lumber Co., Seattle, Wash.
McBain, Russell, Crowell & Mulgardt, St. Louis Mo.
McClellan Co., The, Davenport, Iowa.
McCoy Co., Inc., C. M., Reading, Tenn.
McGowen Lyons Hardware & Supply Co., Mobile, Ala.
McGuinn Lumber Co., N. J., Charlotte, N. C.
McPhileps Manufacturing Co., Mobile, Ala.
Melander & Co., C. T., East Orange, N. J.
Memphis Sash & Door Co., Memphis, Tenn.
Metropolitan Millwork Co., Brooklyn, N. Y.
Miller Bros., Inc., Lebanon, Pa.
Miller & Yeager, Terre Haute, Ind. (General Support).
Minot Builders Supply Co., Minot, N. Dak.
Montgomery Ward & Co., Chicago, III.
Morgan, William, San Francisco, Calif.
Morgan Millwork Co., Baltimore, Md.
Morris & Noonan, San Antonio, Tex. (General Support).
Mueller, Hair & Hetherich, Hamilton, Ohio.
Muhlenberg Bros., Reading, Pa.
Nashua Lumber Co., Nashua, N. H.
National Plywood Co., Inc., New York, N. Y.
National Plywoods, Inc., Chicago, Ill.
National Woodwork Co., Birmingham, Ala.
Neumann & Sons, William, Jersey City, N. J.
New York Sash & Door Co., Inc., Clifton, N. J.
Northeast Door Sales Co., San Francisco, Calif.
Northwest Door Co., Tacoma, Wash.
Northwestern Door Co., New York City, N. Y.
Nuremberg, W. S., Fort Worth, Tex.
O & N Lumber Co., Menominee, Wis.
Ogilvie Lumber Co., Paducah, N. C.
Ohio City Sash & Door Co., Dayton, Ohio.
Ohio University of, Norman, Okla.
Pacific Lumber Co., San Francisco, Calif.
Pacific Manufacturing Co., Santa Clara, Calif.
Pacific Mutual Door Co., Chicago, Ill.
Paddock Sash & Door Co., Paducah, Ky.
Parker Building Specialties, Inc., San Francisco, Calif.
Parshley Bros., Inc., Brooklyn, N. Y.
Putten Blinn Lumber Co., Los Angeles, Calif.
Pese Woodwork Co., Inc., Cincinnati, Ohio.
Pennsylvania, Commonwealth of, Department of
Property & Supplies, Harrisburg, Pa.
Pennsylvania State College, The, Department of
Forest & Sash & Door Co., State College, Pa. (General support.)
Portsmouth Lumber Corporation, Portsmouth, Va.
Queen City Sash & Door Co., The, Cincinnati, Ohio.
Quigley Co., J. R., Gloucester City, N. J.
Radford & Sanders, Inc., Baltimore, Md.
Rahilly & Sons, Inc., Gloversville, N. Y.
Reid, William H., Jr., Billings, Mont.
Remington Yards, Hibbing, Minn.
Rensselaer Polytechnic Institute, Troy, N. Y.
Resident Architect, Abraham, N. Y.
Rhode-Scott Lumber Co., Chicago, Ill.
Robbins Door & Sash Co., Scranton, Pa.
Roberson & Son, Inc., A., Binghamton, N. Y.
Rock Island Lumber Co., Cleveland, Ohio.
Rock Island Sash & Door Works, Rock Island, Ill.
Roddis plywood & Door Co., Inc., New York, N. Y.
Roemer Bros. Co., Bowling Green, Ky.
Rose & Sons, W. J., Johnstown, Pa.
Rounds & Porter Co., Wichita, Kans.
Rudinger, Inc., C. R., South Kearny, N. J.
Ruggles Lumber Co., Carlos, Springfield, Mass.
S. Louis Sash & Door Works, St. Louis, Mo.
S. Paul & Tacoma Lumber Co., Tacoma, Wash.
Sander Lumber & Supply, Sandusky, Ohio.
Sash, Door & Glass Corporation, Richmond, Va.
Scheill-Sasse Manufacturing Co., Jacksonville, Fla.
Schlepper, F., Cincinnati, Ohio.
Sears, Roebuck & Co., Chicago, Ill.
Segelke & Kohlhaus Co., La Crosse, Wis.
Sewell Bros. & Co., Kansas City, Kans.
Sherman's Sons Co., R. A., Westerly, R. I.
Sidell, Philpott & Lawrence, Warren, Ohio.
Simons, Inc., Minneapolis, Minn.
Simpson Logging Co., Seattle, Wash.
Sloan Lumber Co., Ft. Worth, Tex.
Snel Lumber Co., St. Paul, Minn.
Southern Counties Gas Co. of California, Los Angeles, Calif.
Southwestern Sash & Door Co., El Paso, Tex.
Southwestern Sash & Door Co., Joplin, Mo.
Spaulding Logging Co., Chas. K., McMinnew, Ore.
Spokane Sash & Door Co., Spokane, Wash.
Standard Millwork & Supply Co., Jackson, Miss.
Stark & Co., Kansas City, Mo.
Staub & Rather, Houston, Tex.
Stoetzl, Ralph E., Chicago, Ill.
Struble Hardwood Co., Oakland, Calif.
Summers Hardware & Supply Co., Johnson City, Tenn.
Swan Lake Moulding Co., Klamath Falls, Oreg.
Sweetwater Sash & Door Co., Sweetwater, Tex.
Taylor, Ellery K., Haddonfield, N. J.
Taylor Sash & Door Co., Pensacola, Fla.
Teachout Sash, Door & Glass Co., The, Detroit, Mich.
Tenesse Glass Co., Nashville, Tenn.
Theling-Lothman Manufacturing Co., St. Louis, Mo.
Throp-Mart Co., The, Columbus, Ohio.
Toledo Door & Sash Co., Toledo, Ohio.
Toombs & Co., Springfield, Mo.
Townsend Sash, Door & Lumber Co., Tampa, Fla.
Turner Lumber Co., J. C., Irvington, N. Y.
Underwood Coal & Supply Co., Mobile, Ala.
Union Planing Mill, Stockton, Calif.
United Lumber Co., St. Louis, Mo.
United Door Co., Wichita, Kans.
Vancouver Door Co., Inc., Montesano, Wash.
Vaughan & Sons, Geo. C., Houston, Tex.
Vetter Manufacturing Co., Stevens Point, Wis.
Virginia Polytechnic Institute, Blacksburg, Va.
Wahlfield Manufacturing Co., Peoria, Ill.
Wals, Louis A., Waterbury, Conn.
Wanke Panel Co., Portland, Oreg.
Ware & McIntyre, Salt Lake City, Utah.
Warren Lumber Co., The, Fort Morgan, Colo.
Washington Door Co., Tacoma, Wash.
Washington Woodworking Co., Inc., Washington, D. C.
Watertown Sash & Door Co., Watertown, S. Dak.
Weimer & Sons, George, St. Albans, W. Va.
Weinle Lumber Co., A. F., Columbus, Ill.
Welch, Carroll E., Huntington, N. Y.
West, Albert E., Boston, Mass.
West Side Manufacturing Co., Milwaukee, Wis.
Western Door & Plywood Corporation, Portland, Ore.
Western Door & Sash Co., Oakland, Calif.
Western Hardwood Lumber Co., Los Angeles, Calif.
Western Reserve Lumber Co., The, Warren, Ohio.
Weybrecht's Sons Co., The J. T., Alliance, Ohio.
Weyerhaeuser Sales Co., Tacoma, Wash. (General support.)
Wheelock, Inc., E. U., Los Angeles, Calif.
Whissel Lumber Co., Inc., L. N., Buffalo, N. Y.
White Brothers—Hardwood Headquarters, San Francisco, Calif.
Wholesale Building Supply, Inc., Oakland, Calif.
Wilson Lumber Co., E. F., Kansas City, Mo.
Williams & Hunting Co., Cedar Rapids, Iowa.
Willingham & Co., Chattanooga, Tenn.
Willingham-Fitch Lumber Co., Atlanta, Ga.
Wilson, Fred E., Boxemont, Mont.
Wimberly & Thomas Hardware Co., Inc., Birmingham, Ala.
Wood Glass Co., Syracuse, N. Y.
Wood Lumber Co., E. K., Los Angeles, Calif.
Woodruff Lumber Co., Duluth, Minn.
Wright & Wright, Detroit, Mich. (General support.)
Zimmerman, A. C., Pasadena, Calif.

U.S. GOVERNMENT

Agriculture, U. S. Department of, Washington, D. C.

Federal Public Housing Authority, Washington, D. C.

Interior, U. S. Department of the, Office of Indian Affairs, Chicago, Ill.

War Department, Washington, D. C.

War Production Board, Washington, D. C. (General support.)