

**OLD GROWTH DOUGLASS FIR SITKA  
SPRUCE, AND WESTERN HEMLOCK  
STANDARD STOCK DOORS**

(Fourth Edition)

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**COMMERCIAL STANDARD CS73-48**

[Supersedes CS73-45]

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**A RECORDED VOLUNTARY STANDARD  
OF THE TRADE**

**UNITED STATES DEPARTMENT OF COMMERCE**

**CHARLES SAWYER, Secretary**

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### COMMERCIAL STANDARD FOR OLD GROWTH DOUGLAS FIR, SITKA SPRUCE, AND WESTERN HEMLOCK STANDARD STOCK DOORS

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 1945.

A recommended revision, submitted by the Fir Door Institute and endorsed by the standing committee, was circulated on January 14, 1948, to the trade for written acceptance. Those concerned have since accepted and approved the revised standard as shown herein.

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*Technical Adviser:* V. B. PHELAN, Building Technology Division, National Bureau of Standards.

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<sup>1</sup> Effective July 1, 1947, the Division of Simplified Practice, organized in 1921, and the Division of Trade Standards, organized in 1927, were combined to form the Commodity Standards Division. Since their organization, both of these Divisions have assisted many industries in the development of Simplified Practice Recommendations and Commercial Standards for a wide variety of commodities. A list of previously established Commercial Standards appears herein. A list of effective Simplified Practice Recommendations may be obtained from the Commodity Standards Division, National Bureau of Standards, Washington 25, D. C.

## COMMERCIAL STANDARD CS73-48

for

# OLD GROWTH DOUGLAS FIR, SITKA SPRUCE, AND WESTERN HEMLOCK STANDARD STOCK DOORS <sup>1</sup>

### PURPOSE

1. This standard is a basis for common understanding between manufacturers, distributors, and users of Douglas fir, Sitka spruce, and Western hemlock stock doors. By its general acceptance, use, and certification by labels it is hoped to increase interest in the manufacture, sale, and use of Douglas fir, Sitka spruce, and Western hemlock 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 four grades of Douglas fir, Sitka spruce, and Western hemlock stock doors in four thicknesses,  $\frac{3}{4}$ ,  $1\frac{1}{8}$ ,  $1\frac{3}{8}$ , and  $1\frac{1}{2}$  inches. It covers construction, defects, and the grading tolerances for these requirements. Standard stock layouts and designs are covered in door sizes ranging as follows, and in accordance with detailed schedules of the Douglas fir, Sitka spruce, and Western hemlock stock door list beginning on page 7.

|                     |  |
|---------------------|--|
| Cupboard doors..... | 1 ft 0 in. x 1 ft 6 in. to 2 ft 0 in. x 6 ft 0 in. |
| Side lights.....    | 10 in. x 6 ft 8 in. to 1 ft 6 in. x 7 ft 0 in.     |
| House doors.....    | 2 ft 0 in. x 6 ft 0 in. to 3 ft 0 in. x 7 ft 0 in. |
| Garage doors.....   | 2 ft 0 in. x 7 ft 0 in. to 4 ft 0 in. x 8 ft 0 in. |

<sup>1</sup> "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.

Sitka spruce, renowned since World War I as airplane spruce, is distinguished for its toughness yet easy workability and its clear, straight-grained character. It has only very moderate shrinkage or swelling tendencies even under adverse climatic conditions, rating high among millwork species.

Western hemlock is closely associated with Douglas fir in the northwest forests, and is distinct from Eastern hemlock. The wood from Western hemlock is moderately soft, straight-grained, nonresinous and uniform in texture and is often mixed with Douglas fir in certain standard lumber grades. Western hemlock has found wide use in construction for siding, ceiling, flooring, and finish, as well as in dimension.

A list of the standard door sizes in the above ranges is given in table 1, page 6.

### GENERAL REQUIREMENTS

4. All commercial standard Douglas fir, Sitka spruce, and Western hemlock doors shall meet the following general requirements:

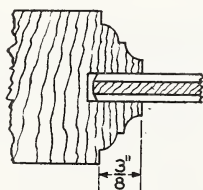
5. *Material*.—Doors shall be made of kiln-dried, old growth Douglas fir, Sitka spruce, or Western hemlock.

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.

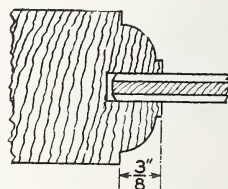
7. *Construction*.—Doors shall be assembled by what is known as “dowelled construction”; that is, stiles and rails shall be bored to receive fir dowels not less than  $\frac{3}{8}$  inch in diameter by 5 inches long for doors  $\frac{3}{4}$  inch thick, and not less than  $\frac{5}{8}$  inch in diameter by 5 inches long for doors  $1\frac{1}{8}$ ,  $1\frac{3}{8}$ , and  $1\frac{1}{4}$  inches thick. The dowels shall have glue grooves. Dowels shall be set in glue, and extend approximately one-half of their length into each stile and rail, and be assembled under pressure. Because of the fact that all present standard door boring machines are built for  $2\frac{1}{4}$ -inch dowel centers, the required number of dowels used in joining rails to stiles are 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 $4\frac{1}{2}$ in. wide    | 1 dowel.  |
| Rails $4\frac{1}{2}$ in. to 7 in. wide | 2 dowels. |
| Rails over 7 in. wide                  | 3 dowels. |

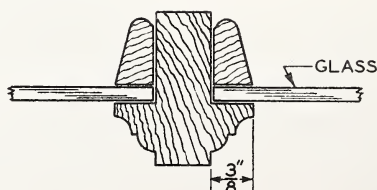
8. *Sticking*.—Three-eighths-inch “bead and cove” or “ovolo” sticking shall be standard on all standard doors. “Bead and cove” sticking will be furnished, unless otherwise specified. (See fig. 1.)



BEAD & COVE STICKING



OVOLo STICKING



STANDARD PATTERN GLASS BEAD

FIGURE 1. Sticking.



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  $\frac{1}{16}$  inch shall be allowed:

|                     |  |
|---------------------|--|
| Cupboard doors----- | $\frac{3}{4}$ in. and $1\frac{1}{8}$ in.                       |
| Side lights-----    | $1\frac{1}{8}$ in. and $1\frac{3}{4}$ in.                      |
| House doors-----    | $1\frac{1}{8}$ in., $1\frac{3}{8}$ in., and $1\frac{3}{4}$ in. |
| Garage doors-----   | $1\frac{1}{8}$ in. and $1\frac{3}{4}$ in.                      |

10. Standard house doors will be prefitted at the factory. Standard stock prefitted sizes are  $\frac{3}{16}$  inch less in width, and  $\frac{1}{8}$  inch less in height than the nominal size. Thus, a nominal 2 ft 6 in. by 6 ft 8 in. door is prefitted to net 2 ft  $5\frac{1}{16}$  in. by 6 ft  $7\frac{7}{8}$  in. A tolerance of  $\frac{1}{32}$  inch plus or minus is permissible. Prefit machining shall be smoothly sawn and cut square. Scuff strips shall be securely attached to the bottom of each stile for protection in handling.

11. *Machining for hardware*.—When desired, to be as specified by the buyer.

12. *Resin sealer-prime coat*.—A resin sealer-prime coat shall be uniformly applied to ends, edges, and faces of all doors. It shall not leave a sticky film or residue, shall be free from objectionable odors, and shall not unduly affect the appearance of the door. The treatment shall in no way adversely affect the paintability as to drying time, sheen, or adhesion of finish.

## INSPECTION AND LABELING

13. All doors guaranteed to conform to the grading rules of this commercial standard 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

14. Standard stock layouts and designs to which the design numbers given herein refer are to be found in the Douglas fir, Sitka spruce, and Western hemlock stock-door list beginning on page 7.

15. 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.

16. 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  $1\frac{1}{8}$ - and  $1\frac{3}{4}$ -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  $1\frac{1}{8}$  inches thick will be furnished in "Millrun" grade only.

## HOUSE DOORS

**Grade A.—RECOMMENDED FOR PAINT OR ENAMEL FINISH—TO BE FACTORY RESIN-SEALED**

17. *Stiles, rails, and mullions.*—This stock shall be heartwood, all vertical grain old growth Douglas fir, Sitka spruce, or Western hemlock, the faces of which must be clear, with the exception that small, inconspicuous, and neatly repaired pitch seams are permissible. Characteristic sound dark streaks are permitted in hemlock. Glued-up rails are permissible in widths over  $4\frac{1}{2}$  inches. A moisture-resistant glue shall be used. Mixing of woods is not permitted.

18. *Panels, flat-veneered.*—The standard thickness of 3-ply flat-veneered panels shall be  $\frac{1}{4}$  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.

19. *Panels, solid raised.*—The standard thickness of solid raised panels shall be not more than  $\frac{5}{16}$  inch before sanding and not less than  $\frac{1}{16}$  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—TO BE FACTORY RESIN-SEALED**

20. *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, burls, and neatly repaired pitch seams. Glued-up members are permissible. A moisture-resistant glue shall be used. Mixing of woods is permissible provided both stiles are of a single species.

21. *Panels, flat-veneered.*—The standard thickness of 3-ply flat-veneered panels shall be  $\frac{1}{4}$  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.

22. *Panels, raised.*—The standard thickness of raised panels shall be not more than  $\frac{5}{16}$  inch before sanding and not less than  $\frac{1}{16}$  inch after sanding. They may be either slash or mixed grain, or mixed woods and shall conform to the grade of the stiles and rails. Glued-up, solid panels are permissible.

**Grade C.—RECOMMENDED FOR PAINT FINISH ONLY—TO BE FACTORY RESIN-SEALED**

23. This grade is a factory accumulation and is manufactured and sold only in the standard designs, as specifically indicated in the layout details on pages 12, 13, 17, 18 and 19.

24. *Stiles, rails, and mullions.*—This stock may be of mixed grain and mixed woods and may contain any amount of discolored sap or heartwood, burls, 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.

25. *Panels, flat-veneered.*—The standard thickness of 3-ply flat-veneered panels shall be  $\frac{1}{4}$  inch after sanding. Each face shall present a smooth surface suitable for painting. Discoloration, unmatched patches, shims, and pieced faces are admissible.

26. *Panels, raised.*—The standard thickness of raised panels shall be not more than  $\frac{1}{8}$  inch before sanding and not less than  $\frac{1}{16}$  inch after sanding. They shall conform to the grade of the stiles and rails. Glued-up, solid panels are permissible.

#### **Millrun Grade.—To Be Factory Resin-Sealed**

27. *Stiles, rails, and mullions.*—This grade shall be manufactured and sold in  $1\frac{1}{8}$ -inch thickness only, developed and accumulated by planing down stock too thin for  $1\frac{1}{8}$ -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: F3, F3W, F13, F13W, F33, F133, F05, F020, and F082. (See stock door list beginning on page 7.)

28. *Panels, flat-veneered.*—The standard thickness of 3-ply flat-veneered panels shall be  $\frac{1}{4}$  inch after sanding. They shall conform to the grades applying to grade B and/or grade C doors, described above.

29. *Panels, raised.*—The standard thickness of raised panels shall be not more than  $\frac{1}{8}$  inch before sanding, and not less than  $\frac{1}{16}$  inch after sanding. They shall conform to the grades applying to grade B and/or grade C doors, described above.

#### **GARAGE DOORS.—To Be Factory Resin-Sealed**

Garage doors are manufactured primarily for paint finish in one quality only, which is described below.

30. *Stiles, rails, and mullions.*—This stock shall be substantially all vertical grain, with accumulations of coarse or mixed grain or mixed woods 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.

31. *Panels, flat-veneered.*—The standard thickness of 3-ply flat-veneered panels shall be  $\frac{1}{4}$  inch after sanding. They shall be of door panel grade B, as described under paragraph 21.

32. *Panels, solid raised.*—The standard thickness of solid raised panels shall be not more than  $\frac{1}{8}$  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.

33. *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

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

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

TABLE 1. *Standard sizes (in feet and inches)*

| CUPBOARD DOORS |             |            |           |           |
|----------------|-------------|------------|-----------|-----------|
| 1-0 x 1-6      | 1-0 x 2-6   | 1-0 x 3-6  | 1-0 x 4-6 | 1-0 x 5-6 |
| 1-2            | 1-2         | 1-2        | 1-2       | 1-2       |
| 1-4            | 1-4         | 1-4        | 1-4       | 1-4       |
| 1-6            | 1-6         | 1-6        | 1-6       | 1-6       |
| 1-8            | 1-8         | 1-8        | 1-8       | 1-8       |
| 1-10           | 1-10        | 1-10       | 1-10      | 1-10      |
| 2-0            | 2-0         | 2-0        | 2-0       | 2-0       |
| 1-0 x 2-0      | 1-0 x 3-0   | 1-0 x 4-0  | 1-0 x 5-0 | 1-0 x 6-0 |
| 1-2            | 1-2         | 1-2        | 1-2       | 1-2       |
| 1-4            | 1-4         | 1-4        | 1-4       | 1-4       |
| 1-6            | 1-6         | 1-6        | 1-6       | 1-6       |
| 1-8            | 1-8         | 1-8        | 1-8       | 1-8       |
| 1-10           | 1-10        | 1-10       | 1-10      | 1-10      |
| 2-0            | 2-0         | 2-0        | 2-0       | 2-0       |
| HOUSE DOORS    |             |            |           |           |
| 2-0 x 6-0      | 2-0 x 6-6   | 2-0 x 6-8  | 2-0 x 7-0 |           |
| 2-4            | 2-4         | 2-4        | 2-4       |           |
| 2-6            | 2-6         | 2-6        | 2-6       |           |
| 2-8            | 2-8         | 2-8        | 2-8       |           |
| 3-0            | 3-0         | 3-0        | 3-0       |           |
| SIDE LIGHTS    |             |            |           |           |
| 10'' x 6-8     | 10'' x 6-10 | 10'' x 7-0 |           |           |
| 1-0            | 1-0         | 1-0        |           |           |
| 1-2            | 1-2         | 1-2        |           |           |
| 1-4            | 1-4         | 1-4        |           |           |
| 1-6            | 1-6         | 1-6        |           |           |
| GARAGE DOORS   |             |            |           |           |
| 2-0 x 7-0      | 2-0 x 7-6   | 2-0 x 8-0  |           |           |
| 2-4            | 2-4         | 2-4        |           |           |
| 2-6            | 2-6         | 2-6        |           |           |
| 2-8            | 2-8         | 2-8        |           |           |
| 3-0            | 3-0         | 3-0        |           |           |
| 3-6            | 3-6         | 3-6        |           |           |
| 3-9            | 3-9         | 3-9        |           |           |
| 4-0            | 4-0         | 4-0        |           |           |

\*  $1\frac{3}{4}$ -inch thickness only.



## DOUGLAS FIR, SITKA SPRUCE, AND WESTERN HEMLOCK. STOCK DOOR LIST

36. The stock layouts and designs for old growth Douglas fir, Sitka spruce, and Western hemlock doors are illustrated beginning on page 11.

37. 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.

38. A second index (see p. 9) shows the stock numbers in numerical sequence.

### “USE” CLASSIFICATION INDEX

| Stock No.                   | Description                          | Page |
|-----------------------------|--------------------------------------|------|
| <b>FRONT ENTRANCE DOORS</b> |                                      |      |
| F88.....                    | 8 equal panel.....                   | 11   |
| F66.....                    | 6 panel Colonial.....                | 12   |
| F144.....                   | 2 panel (vertical)—1 light.....      | 13   |
| F182.....                   | 1 panel—1 light.....                 | 14   |
| F108, F109.....             | 1 panel—1 light.....                 | 14   |
| F982.....                   | 1 panel—9 light (3 wide—3 high)..... | 14   |
| F128, F129.....             | 1 panel—1 light.....                 | 15   |
| F62.....                    | 3 panel (2 vertical).....            | 15   |
| F162.....                   | 2 panel (vertical)—1 light.....      | 15   |
| F110, F111.....             | 1 panel—1 light.....                 | 16   |
| F310, F311.....             | 1 panel—3 light (vertical).....      | 16   |
| F610, F611.....             | 1 panel—6 light (3 wide—2 high)..... | 16   |
| F810, F811.....             | 1 panel—8 light (4 wide—2 high)..... | 16   |
| F147.....                   | 1 panel—1 light.....                 | 17   |
| F35, F36, F37.....          | 1 light.....                         | 19   |
| F535, F536, F537.....       | 5 light (horizontal).....            | 19   |
| F835, F836, F837.....       | 8 light (horizontal).....            | 20   |
| F1035, F1036, F1037.....    | 10 light (2 wide—5 high).....        | 20   |
| F935M, F936M, F937M.....    | 9 light (marginal).....              | 20   |
| F1235, F1236, F1237.....    | 12 light (3 wide—4 high).....        | 20   |
| F1535, F1536, F1537.....    | 15 light (3 wide—5 high).....        | 21   |
| F1635, F1636, F1637.....    | 16 light (2 wide—8 high).....        | 21   |
| <b>SIDE LIGHTS</b>          |                                      |      |
| F035.....                   | 1 light.....                         | 21   |
| F0535.....                  | 5 light.....                         | 21   |
| F0635M.....                 | 6 light (marginal).....              | 21   |
| <b>INTERIOR DOORS</b>       |                                      |      |
| F2.....                     | 1 panel (insert).....                | 11   |
| F20, F21, F22.....          | 1 panel.....                         | 11   |
| F88.....                    | 8 equal panel.....                   | 11   |
| F5.....                     | 5 cross panel.....                   | 12   |
| F66.....                    | 6 panel Colonial.....                | 12   |

## "USE" CLASSIFICATION INDEX—Continued

| Stock No.                       | Description                     | Page |
|---------------------------------|---------------------------------|------|
| <b>INTERIOR DOORS—Continued</b> |                                 |      |
| F3, F3W                         | 3 equal panel                   | 12   |
| F33                             | 3 panel                         | 13   |
| F44                             | 4 panel (vertical)              | 13   |
| F82                             | 2 panel                         | 14   |
| F28, F29                        | do                              | 15   |
| F62                             | 3 panel (2 vertical)            | 15   |
| F535, F536, F537                | 5 light (horizontal)            | 19   |
| F835, F836, F837                | 8 light (horizontal)            | 20   |
| F1035, F1036, F1037             | 10 light (2 wide—5 high)        | 20   |
| F1235, F1236, F1237             | 12 light (3 wide—4 high)        | 20   |
| F1535, F1536, F1537             | 15 light (3 wide—5 high)        | 21   |
| F1635, F1636, F1637             | 16 light (2 wide—8 high)        | 21   |
| <b>REAR ENTRANCE DOORS</b>      |                                 |      |
| F13, F13W                       | 2 panel—1 light                 | 12   |
| F133                            | do                              | 13   |
| F182                            | 1 panel—1 light                 | 14   |
| F108, F109                      | do                              | 14   |
| F982                            | 1 panel—9 light (3 wide—3 high) | 14   |
| F128, F129                      | 1 panel—1 light                 | 15   |
| F114                            | 2 panel—1 light                 | 17   |
| F147                            | 1 panel—1 light                 | 17   |
| F117                            | 4 panel—1 light                 | 17   |
| F214                            | 3 panel—1 light                 | 17   |
| F416                            | 3 panel—4 light (2 wide—2 high) | 18   |
| F118                            | 3 panel—1 light                 | 18   |
| F318                            | 3 panel—3 light (vertical)      | 18   |
| F418                            | 3 panel—4 light (vertical)      | 18   |
| F618                            | 3 panel—6 light (3 wide—2 high) | 19   |
| F918                            | 3 panel—9 light (3 wide—3 high) | 19   |
| <b>CUPBOARD DOORS</b>           |                                 |      |
| F05                             | Cross panel                     | 22   |
| F020                            | 1 panel                         | 22   |
| F082                            | 2 panel                         | 22   |
| <b>GARAGE DOORS</b>             |                                 |      |
| F491                            | Sawbuck—4 light                 | 22   |
| F691                            | Sawbuck—6 light                 | 22   |
| F493                            | 2 panel (vertical)—4 light      | 23   |
| F693                            | 3 panel (vertical)—6 light      | 23   |
| F495                            | 4 cross panel—4 light           | 23   |
| F695                            | 4 cross panel—6 light           | 23   |
| F496                            | 4 panel—4 light                 | 24   |
| F696                            | 6 panel—6 light                 | 24   |
| F894                            | 4 panel—8 light                 | 24   |
| F093                            | 6 panel (vertical)              | 25   |
| F099                            | 9 panel (vertical)              | 25   |
| F190                            | Flush door—1 light              | 25   |
| F290                            | Flush door—2 light              | 25   |

STOCK NUMBER INDEX

| Stock No.   | Description                          | Page |
|-------------|--------------------------------------|------|
| HOUSE DOORS |                                      |      |
| F2.....     | 1 panel (insert).....                | 11   |
| F3.....     | 3 panel.....                         | 12   |
| F3W.....    | do.....                              | 12   |
| F5.....     | 5 cross panel.....                   | 12   |
| F13.....    | 2 panel—1 light.....                 | 12   |
| F13W.....   | do.....                              | 12   |
| F20.....    | 1 panel.....                         | 11   |
| F21.....    | do.....                              | 11   |
| F22.....    | do.....                              | 11   |
| F28.....    | 2 panel.....                         | 15   |
| F29.....    | do.....                              | 15   |
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| F35.....    | 1 light.....                         | 19   |
| F36.....    | do.....                              | 19   |
| F37.....    | do.....                              | 19   |
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| F82.....    | 2 panel.....                         | 14   |
| F88.....    | 8 panel.....                         | 11   |
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| F109.....   | do.....                              | 14   |
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| F536.....   | do.....                              | 19   |
| F537.....   | do.....                              | 19   |
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| F835.....   | 8 light (horizontal).....            | 20   |
| F836.....   | do.....                              | 20   |
| F837.....   | do.....                              | 20   |
| F918.....   | 3 panel—9 light (3 wide—3 high)..... | 19   |

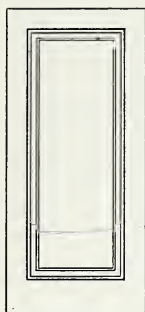
## STOCK NUMBER INDEX—Continued

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|------------------------------|---------------------------------|------|
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| F936M                        | do                              | 20   |
| F937M                        | do                              | 20   |
| F982                         | 1 panel—9 light (3 wide—3 high) | 14   |
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HOUSE DOORS

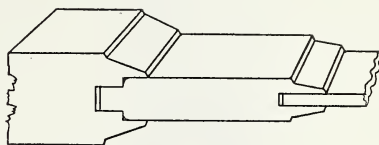
F 2



|                          |                    |
|--------------------------|--------------------|
| Stiles and top rail..... | 4 $\frac{9}{16}$ " |
| Bottom rail.....         | 9 $\frac{3}{8}$ "  |
| Insert frame.....        | 2 $\frac{1}{16}$ " |

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

F 2



Flat insert frame. Sticking: P & G.

F 20

F 21

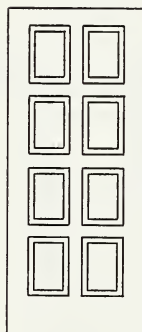
F 22



|                  | F20                | F21                | F22                |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{9}{16}$ " | 4 $\frac{9}{16}$ " | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{9}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 11 $\frac{3}{8}$ " |

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

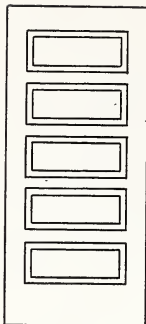
F 88



|                                     |                    |
|-------------------------------------|--------------------|
| Stiles and top rail.....            | 4 $\frac{9}{16}$ " |
| Intermediate rails and muntins..... | 2 $\frac{7}{8}$ "  |
| Bottom rail.....                    | 9 $\frac{3}{8}$ "  |

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

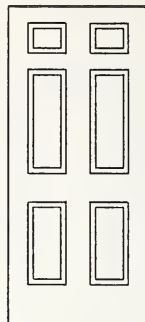
F 5



|                          |                    |
|--------------------------|--------------------|
| Stiles and top rail..... | 4 $\frac{9}{16}$ " |
| Intermediate rails.....  | 4 $\frac{1}{2}$ "  |
| Bottom rail.....         | 9 $\frac{3}{8}$ "  |

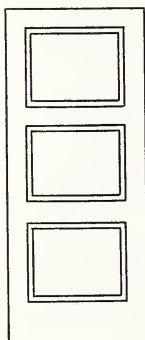
3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

F 66



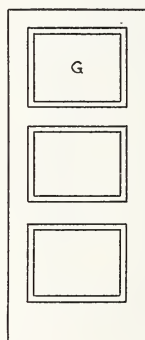
|  |                     |
|--|---------------------|
| Stiles and top rail.....                                 | 4 $\frac{9}{16}$ "  |
| Lock rail.....   | 7 $\frac{3}{8}$ "   |
| Intermediate rail and muntins.....                       | 4 $\frac{1}{2}$ "   |
| Bottom rail.....   | 9 $\frac{3}{8}$ "   |
| Height from floor to top of lock rail.....               | 36 $\frac{1}{2}$ "  |
| Height from top of intermediate rail to top of door..... | 12 $\frac{5}{16}$ " |
| Height of center panels varies 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.

F3  
F3W

|                         | F3                 | F3W                |
|-------------------------|--------------------|--------------------|
| Stiles.....             | 4 $\frac{9}{16}$ " | 4 $\frac{9}{16}$ " |
| Top rail.....           | 4 $\frac{9}{16}$ " | 4 $\frac{9}{16}$ " |
| Intermediate rails..... | 2 $\frac{3}{4}$ "  | 4 $\frac{1}{2}$ "  |
| Bottom rail.....        | 9 $\frac{3}{8}$ "  | 9 $\frac{3}{8}$ "  |

3-ply laminated flat panels. Furnished in grades A, B, and C, and 1 $\frac{1}{8}$ " millrun. Sticking: Standard.

F13  
F13W

|                         | F13                | F13W               |
|-------------------------|--------------------|--------------------|
| Stiles.....             | 4 $\frac{9}{16}$ " | 4 $\frac{9}{16}$ " |
| Top rail.....           | 4 $\frac{9}{16}$ " | 4 $\frac{9}{16}$ " |
| Intermediate rails..... | 2 $\frac{1}{4}$ "  | 4 $\frac{1}{2}$ "  |
| Bottom rail.....        | 9 $\frac{3}{8}$ "  | 9 $\frac{3}{8}$ "  |

3-ply laminated flat panels. Furnished in grades A, B, C, and 1 $\frac{1}{8}$ " millrun. Sticking: Standard.

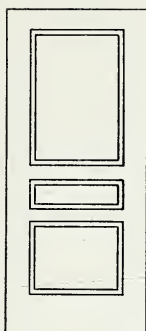
Size of door

Size of glass

|                    | F13                                      | F13W                                     |
|--------------------|--|--|
| 2' 6" x 6' 6"..... | 21 $\frac{5}{8}$ " x 20 $\frac{5}{8}$ "  | 21 $\frac{5}{8}$ " x 20 $\frac{7}{16}$ " |
| 2' 8" x 6' 8"..... | 23 $\frac{5}{8}$ " x 21 $\frac{5}{16}$ " | 23 $\frac{5}{8}$ " x 21 $\frac{1}{8}$ "  |
| 3' 0" x 7' 0"..... | 27 $\frac{5}{8}$ " x 22 $\frac{1}{16}$ " | 27 $\frac{5}{8}$ " x 22 $\frac{1}{16}$ " |

Beads for glass included.

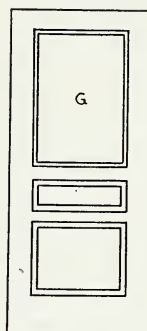
**F 33**



|  |                    |
|--|--------------------|
| Stiles and top rail.....                       | 4 $\frac{9}{16}$ " |
| Intermediate rails.....                        | 4 $\frac{1}{2}$ "  |
| Bottom rail.....                               | 9 $\frac{3}{8}$ "  |
| Height from floor to top of upper cross rail.. | 42 $\frac{1}{4}$ " |

3-ply laminated flat panels. Furnished in grades *A*, *B*, *C*, and 1 $\frac{1}{8}$ " millrun. Sticking: Standard.

**F 133**



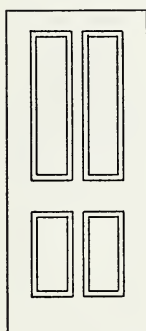
|                          |                    |
|--------------------------|--------------------|
| Stiles and top rail..... | 4 $\frac{9}{16}$ " |
| Intermediate rails.....  | 4 $\frac{1}{2}$ "  |
| Bottom rail.....         | 9 $\frac{3}{8}$ "  |

3-ply laminated flat panels. Furnished in grades *A*, *B*, *C*, and 1 $\frac{1}{8}$ " millrun. Sticking: Standard.

| Size of door       | Size of glass            |
|--------------------|--------------------------|
| 2' 6" x 6' 6"..... | 21 $\frac{5}{8}$ " x 32" |
| 2' 8" x 6' 8"..... | 23 $\frac{5}{8}$ " x 34" |
| 3' 0" x 7' 0"..... | 27 $\frac{5}{8}$ " x 38" |

Beads for glass included

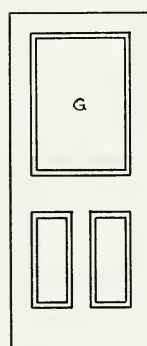
**F 44**



|  |                    |
|--|--------------------|
| Stiles and top rail.....                   | 4 $\frac{9}{16}$ " |
| Lock rail.....                             | 7 $\frac{3}{8}$ "  |
| Muntins.....                               | 4 $\frac{1}{2}$ "  |
| Bottom rail.....                           | 9 $\frac{3}{8}$ "  |
| Height from floor to top of lock rail..... | 36 $\frac{1}{2}$ " |

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

**F 144**



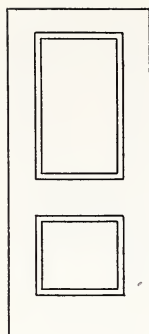
|                          |                    |
|--------------------------|--------------------|
| Stiles and top rail..... | 4 $\frac{9}{16}$ " |
| Lock rail.....           | 7 $\frac{3}{8}$ "  |
| Muntins.....             | 4 $\frac{1}{2}$ "  |
| Bottom rail.....         | 9 $\frac{3}{8}$ "  |

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' 6"..... | 21 $\frac{5}{8}$ " x 38" |
| 2' 8" x 6' 8"..... | 23 $\frac{5}{8}$ " x 40" |
| 3' 0" x 7' 0"..... | 27 $\frac{5}{8}$ " x 44" |

Beads for glass included.

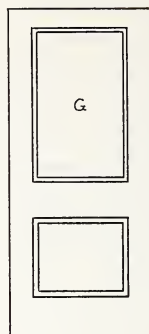
F 82



|                                 |                    |
|---------------------------------|--------------------|
| Stiles and top rail.....        | 4 $\frac{9}{16}$ " |
| Lock rail.....                  | 7 $\frac{3}{8}$ "  |
| Bottom rail.....                | 9 $\frac{3}{8}$ "  |
| Height to top of lock rail..... | 36 $\frac{1}{2}$ " |

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

F 182

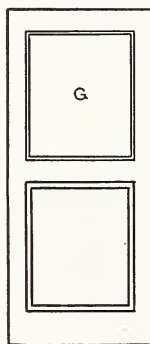


|                          |                    |
|--------------------------|--------------------|
| Stiles and top rail..... | 4 $\frac{9}{16}$ " |
| Lock rail.....           | 7 $\frac{3}{8}$ "  |
| Bottom rail.....         | 9 $\frac{3}{8}$ "  |

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"..... | 21 $\frac{5}{8}$ " x 38" |
| 2' 8" x 6' 8"..... | 23 $\frac{5}{8}$ " x 40" |
| 3' 0" x 7' 0"..... | 27 $\frac{5}{8}$ " x 44" |

Beads for glass included.

F108  
F109

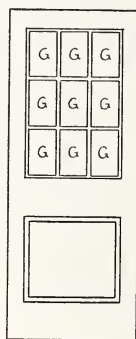
|                         | F108               | F109              |
|-------------------------|--------------------|-------------------|
| Stiles.....             | 4 $\frac{9}{16}$ " | 5 $\frac{3}{8}$ " |
| Top and lock rails..... | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ " |
| Bottom rail.....        | 9 $\frac{3}{8}$ "  | 9 $\frac{3}{8}$ " |

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

|                    | Size of glass            |           |
|--------------------|--------------------------|-----------|
| Size of door       | F108                     | F109      |
| 2' 6" x 6' 6"..... | 21 $\frac{5}{8}$ " x 26" | 20" x 26" |
| 2' 8" x 6' 8"..... | 23 $\frac{5}{8}$ " x 28" | 22" x 28" |
| 3' 0" x 7' 0"..... | 27 $\frac{5}{8}$ " x 32" | 26" x 32" |

Beads for glass included.

F 982



|                          |                    |
|--------------------------|--------------------|
| Stiles and top rail..... | 4 $\frac{9}{16}$ " |
| Lock rail.....           | 7 $\frac{3}{8}$ "  |
| Bottom rail.....         | 9 $\frac{3}{8}$ "  |

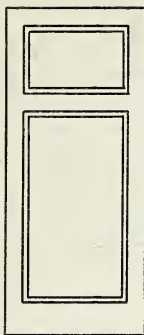
Bars  $\frac{1}{2}$ " between glass. 3-ply laminated flat panel. Furnished in grades A and B only. Sticking: Standard.

| Size of door       | Size of glass                            |
|--------------------|--|
| 2' 6" x 6' 6"..... | 67 $\frac{5}{8}$ " x 12 $\frac{3}{4}$ "  |
| 2' 8" x 6' 8"..... | 71 $\frac{5}{8}$ " x 13"                 |
| 3' 0" x 7' 0"..... | 87 $\frac{5}{8}$ " x 14 $\frac{3}{16}$ " |

Beads for glass included.



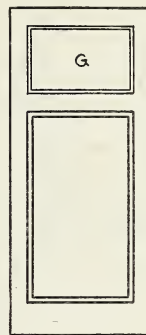
F28  
F29



|   | F28                | F29                |
|---|--------------------|--------------------|
| Stiles and top rail.....                            | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  |
| Lock rail.....                                      | 4 $\frac{1}{2}$ "  | 5 $\frac{3}{8}$ "  |
| Bottom rail.....                                    | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " |
| Height from top of lock rail to top<br>of door..... | 22"                | 22 $\frac{3}{4}$ " |

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

F128  
F129



|                          | F128               | F129               |
|--------------------------|--------------------|--------------------|
| Stiles and top rail..... | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  |
| Lock rail.....           | 4 $\frac{1}{2}$ "  | 5 $\frac{3}{8}$ "  |
| Bottom rail.....         | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " |

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

| Size of door     | Size of glass            |           |
|------------------|--------------------------|-----------|
|                  | F128                     | F129      |
| 2'6" x 6'6"..... | 21 $\frac{5}{8}$ " x 18" | 20" x 18" |
| 2'8" x 6'8"..... | 23 $\frac{3}{8}$ " x 18" | 22" x 18" |
| 3'0" x 7'0"..... | 27 $\frac{3}{8}$ " x 18" | 26" x 18" |

Beads for glass included.

F62



|  |                    |
|--|--------------------|
| Stiles and top rail.....                         | 4 $\frac{1}{16}$ " |
| Lock rail and muntin.....                        | 4 $\frac{1}{2}$ "  |
| Bottom rail.....                                 | 9 $\frac{3}{8}$ "  |
| 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

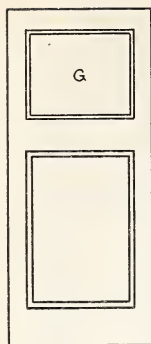


|                           |                    |
|---------------------------|--------------------|
| Stiles and top rail.....  | 4 $\frac{1}{16}$ " |
| Lock rail and muntin..... | 4 $\frac{1}{2}$ "  |
| Bottom rail.....          | 9 $\frac{3}{8}$ "  |

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            |           |
|------------------|--------------------------|-----------|
|                  | F162                     | F162      |
| 2'6" x 6'6"..... | 21 $\frac{5}{8}$ " x 18" | 20" x 18" |
| 2'8" x 6'8"..... | 23 $\frac{3}{8}$ " x 18" | 22" x 18" |
| 3'0" x 7'0"..... | 27 $\frac{3}{8}$ " x 18" | 26" x 18" |

Beads for glass included.

F110  
F111

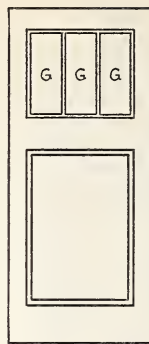
F110 F111

|                  |                    |                    |
|------------------|--------------------|--------------------|
| Stiles.....      | 49 $\frac{1}{8}$ " | 53 $\frac{1}{2}$ " |
| Top rail.....    | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Lock rail.....   | 7 $\frac{3}{8}$ "  | 7 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 9 $\frac{3}{8}$ "  |

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

| Size of door       | Size of glass            |           |
|--------------------|--------------------------|-----------|
|                    | F110                     | F111      |
| 2' 6" x 6' 6"..... | 21 $\frac{3}{8}$ " x 22" | 20" x 22" |
| 2' 8" x 6' 8"..... | 23 $\frac{3}{8}$ " x 22" | 22" x 22" |
| 3' 0" x 7' 0"..... | 27 $\frac{3}{8}$ " x 22" | 26" x 22" |

Beads for glass included.

F310  
F311

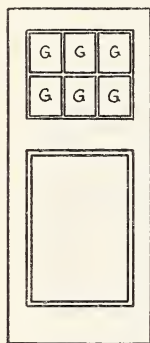
F310 F311

|                  |                    |                    |
|------------------|--------------------|--------------------|
| Stiles.....      | 49 $\frac{1}{8}$ " | 53 $\frac{1}{2}$ " |
| Top rail.....    | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Lock rail.....   | 7 $\frac{3}{8}$ "  | 7 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 9 $\frac{3}{8}$ "  |

Bars  $\frac{1}{2}$ " between glass. 3-ply laminated flat panel. Furnished in grades *A* and *B* only. Sticking: Standard.

| Size of door       | Size of glass            |                          |
|--------------------|--------------------------|--------------------------|
|                    | F310                     | F311                     |
| 2' 6" x 6' 6"..... | 67 $\frac{1}{8}$ " x 22" | 65 $\frac{1}{8}$ " x 22" |
| 2' 8" x 6' 8"..... | 71 $\frac{1}{8}$ " x 22" | 69 $\frac{1}{8}$ " x 22" |
| 3' 0" x 7' 0"..... | 87 $\frac{1}{8}$ " x 22" | 84 $\frac{1}{8}$ " x 22" |

Beads for glass included.

F610  
F611

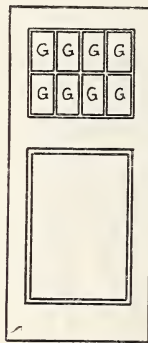
F610 F611

|                  |                    |                    |
|------------------|--------------------|--------------------|
| Stiles.....      | 49 $\frac{1}{8}$ " | 53 $\frac{1}{2}$ " |
| Top rail.....    | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Lock rail.....   | 7 $\frac{3}{8}$ "  | 7 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 9 $\frac{3}{8}$ "  |

Bars  $\frac{1}{2}$ " between glass. 3-ply laminated flat panel. Furnished in grades *A* and *B* only. Sticking: Standard.

| Size of door       | Size of glass                           |   |
|--------------------|---|---|
|                    | F610                                    | F611                                    |
| 2' 6" x 6' 6"..... | 67 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " | 65 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " |
| 2' 8" x 6' 8"..... | 71 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " | 69 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " |
| 3' 0" x 7' 0"..... | 87 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " | 84 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " |

Beads for glass included.

F810  
F811

F810 F811

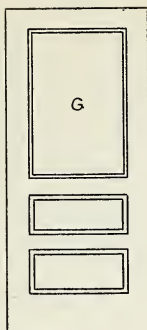
|                  |                    |                    |
|------------------|--------------------|--------------------|
| Stiles.....      | 49 $\frac{1}{8}$ " | 53 $\frac{1}{2}$ " |
| Top rail.....    | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Lock rail.....   | 7 $\frac{3}{8}$ "  | 7 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 9 $\frac{3}{8}$ "  |

Bars  $\frac{1}{2}$ " between glass. 3-ply laminated flat panel. Furnished in grades *A* and *B* only. Sticking: Standard.

| Size of door       | Size of glass                          |  |
|--------------------|--|--|
|                    | F810                                   | F811                                   |
| 2' 6" x 6' 6"..... | 5" x 10 $\frac{3}{4}$ "                | 4 $\frac{5}{8}$ " x 10 $\frac{3}{4}$ " |
| 2' 8" x 6' 8"..... | 5 $\frac{1}{2}$ " x 10 $\frac{3}{4}$ " | 5 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " |
| 3' 0" x 7' 0"..... | 6 $\frac{1}{2}$ " x 10 $\frac{3}{4}$ " | 6 $\frac{1}{8}$ " x 10 $\frac{3}{4}$ " |

Beads for glass included.

F 114



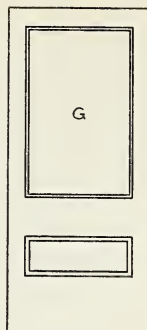
|                     |         |
|---------------------|---------|
| Stiles and top rail | 4 9/16" |
| Intermediate rail   | 4 1/2"  |
| Lock rail           | 5"      |
| Bottom rail         | 9 3/8"  |

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

| Size of door | Size of glass |
|--------------|---------------|
| 2'6" x 6'6"  | 21 5/8" x 36" |
| 2'8" x 6'8"  | 23 3/8" x 38" |
| 3'0" x 7'0"  | 27 5/8" x 42" |

Beads for glass included.

F 147



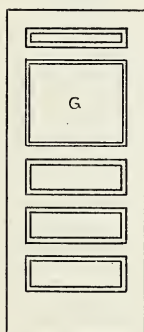
|                     |         |
|---------------------|---------|
| Stiles and top rail | 5 3/8"  |
| Lock rail           | 9 3/8"  |
| Bottom rail         | 11 3/8" |

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 |
|--------------|---------------|
| 2'8" x 6'8"  | 22" x 46"     |
| 3'0" x 7'0"  | 26" x 50"     |

Beads for glass included.

F 117



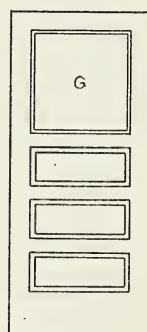
|                    |         |
|--------------------|---------|
| Stiles             | 4 9/16" |
| Top and lock rails | 5 3/8"  |
| Intermediate rails | 4 1/2"  |
| Bottom rail        | 9 3/8"  |

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

| Size of door | Size of glass |
|--------------|---------------|
| 2'6" x 6'6"  | 21 5/8" x 24" |
| 2'8" x 6'8"  | 23 3/8" x 26" |
| 3'0" x 7'0"  | 27 5/8" x 30" |

Beads for glass included.

F 214



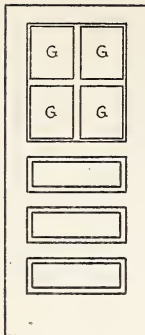
|                             |         |
|-----------------------------|---------|
| Stiles and top rail         | 4 9/16" |
| Lock and intermediate rails | 4 1/2"  |
| Bottom rail                 | 9 3/8"  |

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

| Size of door | Size of glass |
|--------------|---------------|
| 2'6" x 6'6"  | 21 5/8" x 24" |
| 2'8" x 6'8"  | 23 3/8" x 26" |
| 3'0" x 7'0"  | 27 5/8" x 30" |

Beads for glass included.

F 416



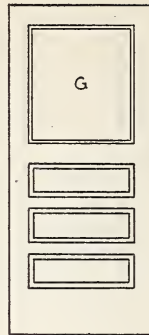
|                     |                    |
|---------------------|--------------------|
| Stiles and top rail | 4 $\frac{1}{16}$ " |
| Lock rail           | 5 $\frac{3}{8}$ "  |
| Intermediate rails  | 4 $\frac{1}{2}$ "  |
| Bottom rail         | 9 $\frac{3}{8}$ "  |

Bars  $\frac{1}{2}$ " 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" | 10 $\frac{5}{8}$ " x 15" |
| 2' 8" x 6' 8" | 11 $\frac{5}{8}$ " x 16" |
| 3' 0" x 7' 0" | 13 $\frac{5}{8}$ " x 18" |

Beads for glass included.

F 118



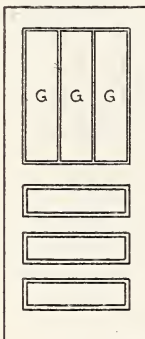
|                    |                    |
|--------------------|--------------------|
| Stiles             | 4 $\frac{1}{16}$ " |
| Top and lock rails | 5 $\frac{3}{8}$ "  |
| Intermediate rails | 3 $\frac{3}{8}$ "  |
| Bottom rail        | 9 $\frac{3}{8}$ "  |

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

| Size of door  | Size of glass            |
|---------------|--------------------------|
| 2' 6" x 6' 6" | 21 $\frac{5}{8}$ " x 32" |
| 2' 8" x 6' 8" | 23 $\frac{5}{8}$ " x 34" |
| 3' 0" x 7' 0" | 27 $\frac{5}{8}$ " x 38" |

Beads for glass included.

F 318



|                    |                    |
|--------------------|--------------------|
| Stiles             | 4 $\frac{1}{16}$ " |
| Top and lock rails | 5 $\frac{3}{8}$ "  |
| Intermediate rails | 3 $\frac{3}{8}$ "  |
| Bottom rail        | 9 $\frac{3}{8}$ "  |

Bars  $\frac{1}{2}$ " 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" | 6 $\frac{7}{8}$ " x 32" |
| 2' 8" x 6' 8" | 7 $\frac{1}{2}$ " x 34" |
| 3' 0" x 7' 0" | 8 $\frac{7}{8}$ " x 38" |

Beads for glass included.

F 418



|                    |                    |
|--------------------|--------------------|
| Stiles             | 4 $\frac{1}{16}$ " |
| Top and lock rails | 5 $\frac{3}{8}$ "  |
| Intermediate rails | 3 $\frac{3}{8}$ "  |
| Bottom rail        | 9 $\frac{3}{8}$ "  |

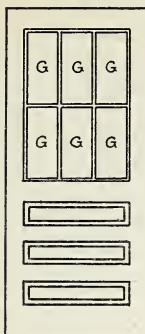
Bars  $\frac{1}{2}$ " between glass. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades A, B, and C. Sticking: Standard.

| Size of door  | Size of glass           |
|---------------|-------------------------|
| 2' 6" x 6' 6" | 5" x 32"                |
| 2' 8" x 6' 8" | 5 $\frac{1}{2}$ " x 34" |
| 3' 0" x 7' 0" | 6 $\frac{1}{2}$ " x 38" |

Beads for glass included.



F 618



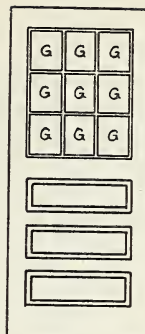
|                         |                    |
|-------------------------|--------------------|
| Stiles.....             | 4 $\frac{1}{16}$ " |
| Top and lock rails..... | 5 $\frac{3}{8}$ "  |
| Intermediate rails..... | 3 $\frac{3}{8}$ "  |
| Bottom rail.....        | 9 $\frac{3}{8}$ "  |

Bars  $\frac{1}{2}$ " 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"..... | 6 $\frac{7}{8}$ " x 15 $\frac{3}{4}$ " |
| 2' 8" x 6' 8"..... | 7 $\frac{1}{2}$ " x 16 $\frac{3}{4}$ " |
| 3' 0" x 7' 0"..... | 8 $\frac{7}{8}$ " x 18 $\frac{3}{4}$ " |

Beads for glass included.

F 918

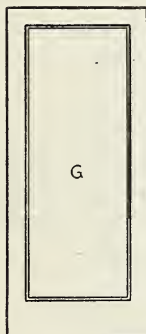


|                         |                    |
|-------------------------|--------------------|
| Stiles.....             | 4 $\frac{1}{16}$ " |
| Top and lock rails..... | 5 $\frac{3}{8}$ "  |
| Intermediate rails..... | 3 $\frac{3}{8}$ "  |
| Bottom rail.....        | 9 $\frac{3}{8}$ "  |

Bars  $\frac{1}{2}$ " 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"..... | 6 $\frac{7}{8}$ " x 10 $\frac{5}{16}$ " |
| 2' 8" x 6' 8"..... | 7 $\frac{1}{2}$ " x 11"                 |
| 3' 0" x 7' 0"..... | 8 $\frac{7}{8}$ " x 12 $\frac{5}{16}$ " |

Beads for glass included.



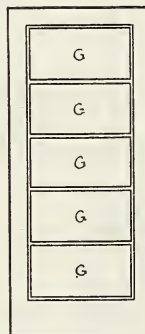
F 35  
F 36  
F 37

|                  | F35                | F36                | F37                |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

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

| Size of door       | Size of glass                           | F35       | F36       | F37 |
|--------------------|---|-----------|-----------|-----|
| 2' 6" x 6' 6"..... | 21 $\frac{5}{8}$ " x 64 $\frac{1}{2}$ " | 20" x 62" | 20" x 54" |     |
| 2' 8" x 6' 8"..... | 23 $\frac{5}{8}$ " x 66 $\frac{1}{2}$ " | 22" x 64" | 22" x 56" |     |
| 3' 0" x 7' 0"..... | 27 $\frac{5}{8}$ " x 70 $\frac{1}{2}$ " | 26" x 68" | 26" x 60" |     |

Beads for glass included.



F 535  
F 536  
F 537

|                  | F535               | F536               | F537               |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

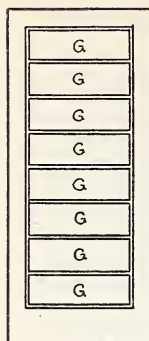
Bars  $\frac{1}{2}$ " between glass. Furnished in grades A and B only. Sticking: Standard.

| Size of door       | Size of glass                           | F535                      | F536 |
|--------------------|---|---------------------------|------|
| 2' 6" x 6' 6"..... | 21 $\frac{5}{8}$ " x 12 $\frac{1}{2}$ " | 20" x 11 $\frac{5}{16}$ " |      |
| 2' 8" x 6' 8"..... | 23 $\frac{5}{8}$ " x 12 $\frac{1}{2}$ " | 22" x 12 $\frac{5}{16}$ " |      |
| 3' 0" x 7' 0"..... | 27 $\frac{5}{8}$ " x 13 $\frac{1}{4}$ " | 26" x 13 $\frac{1}{8}$ "  |      |

F 537

|                    |                           |
|--------------------|---------------------------|
| 2' 6" x 6' 6"..... | 20" x 10 $\frac{5}{16}$ " |
| 2' 8" x 6' 8"..... | 22" x 10 $\frac{3}{4}$ "  |
| 3' 0" x 7' 0"..... | 26" x 11 $\frac{5}{16}$ " |

Beads for glass included.



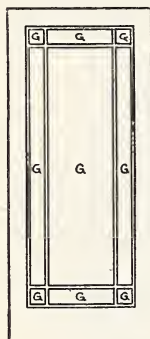
F835  
F836  
F837

|                  | F835               | F836               | F837               |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

Bars  $\frac{1}{2}$ " between glass. Furnished in grades A and B only. Sticking: Standard.

| Size of door  | Size of glass                          | F835                    | F836                    | F837 |
|---------------|--|-------------------------|-------------------------|------|
| 2' 6" x 6' 6" | 21 $\frac{1}{2}$ " x 7 $\frac{1}{4}$ " | 20" x 7 $\frac{1}{4}$ " | 20" x 6 $\frac{1}{4}$ " |      |
| 2' 8" x 6' 8" | 23 $\frac{3}{8}$ " x 7 $\frac{1}{2}$ " | 22" x 7 $\frac{1}{2}$ " | 22" x 6 $\frac{1}{2}$ " |      |
| 3' 0" x 7' 0" | 27 $\frac{3}{8}$ " x 8 $\frac{3}{8}$ " | 26" x 8"                | 26" x 7"                |      |

Beads for glass included.



F935M  
F936M  
F937M

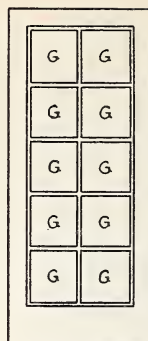
|                  | F935M              | F936M              | F937M              |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

Bars  $\frac{1}{2}$ " between glass. Furnished in grades A and B only. Sticking: Standard.

| Size of door  | Size of glass (in inches) | F935M                | F936M                | F937M                               |
|---------------|---------------------------|----------------------|----------------------|-------------------------------------|
| 2' 6" x 6' 6" | 5 x 5                     | 5 x 53 $\frac{3}{4}$ | 5 x 10 $\frac{1}{2}$ | 10 $\frac{1}{2}$ x 53 $\frac{3}{4}$ |
| 2' 8" x 6' 8" | 5 x 5                     | 5 x 55 $\frac{3}{4}$ | 5 x 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ x 55 $\frac{3}{4}$ |
| 3' 0" x 7' 0" | 5 x 5                     | 5 x 59 $\frac{3}{4}$ | 5 x 16 $\frac{1}{2}$ | 16 $\frac{1}{2}$ x 59 $\frac{3}{4}$ |

| Size of door  | Size of glass (in inches) | F936M                | F937M                |
|---------------|---------------------------|----------------------|----------------------|
| 2' 6" x 6' 6" | 5 x 5                     | 5 x 50 $\frac{7}{8}$ | 5 x 8 $\frac{7}{8}$  |
| 2' 8" x 6' 8" | 5 x 5                     | 5 x 52 $\frac{7}{8}$ | 5 x 10 $\frac{7}{8}$ |
| 3' 0" x 7' 0" | 5 x 5                     | 5 x 56 $\frac{7}{8}$ | 5 x 14 $\frac{7}{8}$ |

Beads for glass included.



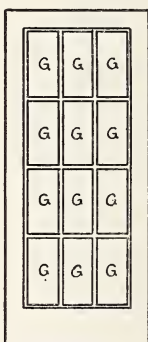
F1035  
F1036  
F1037

|                  | F1035              | F1036              | F1037              |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

Bars  $\frac{1}{2}$ " between glass. Furnished in grades A and B only. Sticking: Standard.

| Size of door  | Size of glass (in inches)           | F1035                               | F1036 | F1037 |
|---------------|-------------------------------------|-------------------------------------|-------|-------|
| 2' 6" x 6' 6" | 10 $\frac{1}{2}$ x 12 $\frac{1}{2}$ | 9 $\frac{1}{4}$ x 11 $\frac{1}{2}$  |       |       |
| 2' 8" x 6' 8" | 11 $\frac{1}{4}$ x 12 $\frac{1}{2}$ | 10 $\frac{1}{4}$ x 12 $\frac{1}{2}$ |       |       |
| 3' 0" x 7' 0" | 13 $\frac{1}{2}$ x 13 $\frac{1}{4}$ | 12 $\frac{1}{4}$ x 13 $\frac{1}{4}$ |       |       |

Beads for glass included.



F1235  
F1236  
F1237

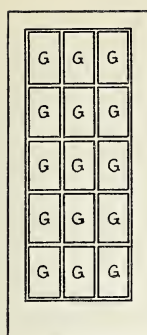
|                  | F1235              | F1236              | F1237              |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

Bars  $\frac{1}{2}$ " between glass. Furnished in grades A and B only. Sticking: Standard.

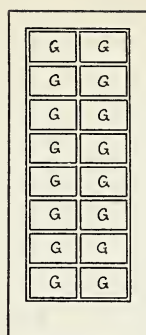
| Size of door  | Size of glass (in inches)          | F1235                              | F1236 | F1237 |
|---------------|------------------------------------|------------------------------------|-------|-------|
| 2' 6" x 6' 6" | 6 $\frac{1}{2}$ x 15 $\frac{1}{2}$ | 6 $\frac{1}{2}$ x 15 $\frac{1}{2}$ |       |       |
| 2' 8" x 6' 8" | 7 $\frac{1}{2}$ x 16 $\frac{1}{2}$ | 6 $\frac{1}{2}$ x 15 $\frac{1}{2}$ |       |       |
| 3' 0" x 7' 0" | 8 $\frac{1}{2}$ x 17 $\frac{1}{4}$ | 8 $\frac{1}{4}$ x 16 $\frac{1}{2}$ |       |       |

| Size of door  | Size of glass (in inches)          | F1237 |
|---------------|------------------------------------|-------|
| 2' 6" x 6' 6" | 6 $\frac{1}{2}$ x 13 $\frac{1}{2}$ |       |
| 2' 8" x 6' 8" | 6 $\frac{1}{2}$ x 13 $\frac{1}{2}$ |       |
| 3' 0" x 7' 0" | 8 $\frac{1}{4}$ x 14 $\frac{1}{2}$ |       |

Beads for glass included.



F1535  
F1536  
F1537



F1635  
F1636  
F1637

F1535 F1536 F1537

|                  |                    |                    |                    |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

Bars  $\frac{1}{2}$ " between glass. Furnished in grades A and B only. Sticking: Standard.

| Size of door       | Sizes of glass (in inches)          |                                     |
|--------------------|-------------------------------------|-------------------------------------|
|                    | F1535                               | F1536                               |
| 2' 6" x 6' 6"..... | 6 $\frac{1}{16}$ x 12 $\frac{1}{2}$ | 6 $\frac{1}{16}$ x 11 $\frac{7}{8}$ |
| 2' 8" x 6' 8"..... | 7 $\frac{1}{16}$ x 12 $\frac{7}{8}$ | 6 $\frac{1}{16}$ x 12 $\frac{1}{2}$ |
| 3' 0" x 7' 0"..... | 8 $\frac{1}{16}$ x 13 $\frac{1}{4}$ | 8 $\frac{1}{4}$ x 13 $\frac{1}{4}$  |

F1537

|                    |                                     |
|--------------------|-------------------------------------|
| 2' 6" x 6' 6"..... | 6 $\frac{1}{16}$ x 10 $\frac{3}{8}$ |
| 2' 8" x 6' 8"..... | 6 $\frac{1}{16}$ x 10 $\frac{3}{4}$ |
| 3' 0" x 7' 0"..... | 8 $\frac{1}{4}$ x 11 $\frac{1}{4}$  |

Beads for glass included.

F1635 F1636 F1637

|                  |                    |                    |                    |
|------------------|--------------------|--------------------|--------------------|
| Stiles.....      | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 5 $\frac{3}{8}$ "  |
| Top rail.....    | 4 $\frac{1}{16}$ " | 5 $\frac{3}{8}$ "  | 6 $\frac{3}{8}$ "  |
| Bottom rail..... | 9 $\frac{3}{8}$ "  | 11 $\frac{3}{8}$ " | 18 $\frac{3}{8}$ " |

Bars  $\frac{1}{2}$ " between glass. Furnished in grades A and B only. Sticking: Standard.

| Size of door       | Sizes of glass (in inches)         |                                     |
|--------------------|------------------------------------|-------------------------------------|
|                    | F1635                              | F1636                               |
| 2' 6" x 6' 6"..... | 10 $\frac{1}{2}$ x 7 $\frac{7}{8}$ | 9 $\frac{1}{16}$ x 7 $\frac{1}{4}$  |
| 2' 8" x 6' 8"..... | 11 $\frac{1}{2}$ x 7 $\frac{7}{8}$ | 10 $\frac{1}{16}$ x 7 $\frac{1}{2}$ |
| 3' 0" x 7' 0"..... | 13 $\frac{1}{2}$ x 8 $\frac{3}{8}$ | 12 $\frac{1}{16}$ x 8               |

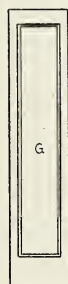
F1637

|                    |                                     |
|--------------------|-------------------------------------|
| 2' 6" x 6' 6"..... | 9 $\frac{1}{16}$ x 6 $\frac{1}{4}$  |
| 2' 8" x 6' 8"..... | 10 $\frac{1}{16}$ x 6 $\frac{1}{2}$ |
| 3' 0" x 7' 0"..... | 12 $\frac{1}{16}$ x 7               |

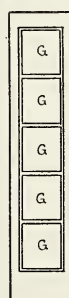
Beads for glass included.

## SIDE LIGHTS

F035



F0535



F0635M



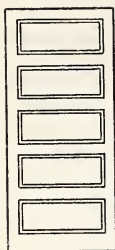
|                  |                                   |
|------------------|-----------------------------------|
| Stiles.....      | Not over 2 $\frac{1}{2}$ " wide.  |
| Top rail.....    | Not over 6 $\frac{1}{2}$ " wide.  |
| Bottom rail..... | Not over 18 $\frac{1}{2}$ " wide. |

Top and bottom rails made same width as in doors with which they are used. Bars  $\frac{1}{2}$ " between glass. Furnished in grade A only. Sticking: Standard.

Beads for glass included.

## CUPBOARD DOORS

F05



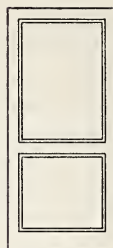
Stiles, top and cross rails 2¾"  
Bottom rail 4½"

F020



Stiles and top rail 2¾"  
Bottom rail 4½"

F082



Stiles and top rail 2¾"  
Cross rail 3½"  
Bottom rail 4½"

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 5' 6"  | 5 cross panel. |

3-ply laminated flat panels.

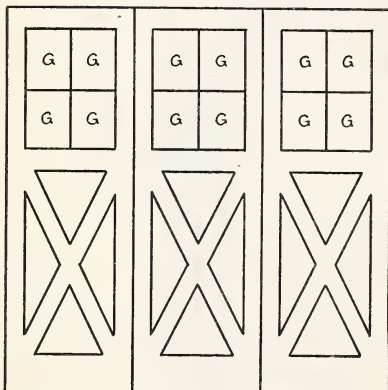
F05 can also be furnished with raised panels.

Cupboard doors made in *B* and better grade only.

Sticking: Standard

## GARAGE DOORS

F491

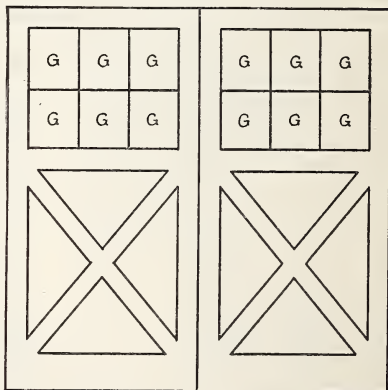


Stiles 4⅞"  
Top and lock rails 5⅝"  
Bottom rail 9⅝"

Vertical bars ⅝" between glass. Horizontal bars 1" between glass.

Ceiling panels. Cross braces screwed on. Sticking: Standard. Beads for glass included.

F691



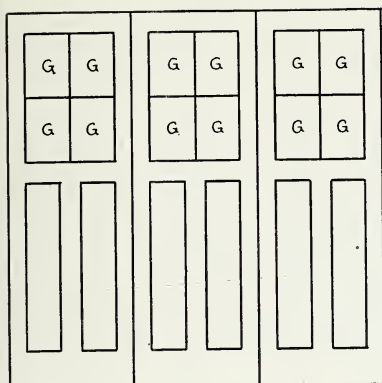
Stiles, top and lock rails 5⅝"  
Bottom rail 9⅝"

Vertical and horizontal bars 1" between glass. Ceiling panels. Cross braces screwed on. Sticking: Standard. Beads for glass included.

For standard glass sizes of garage doors, see page 24.



**F493**

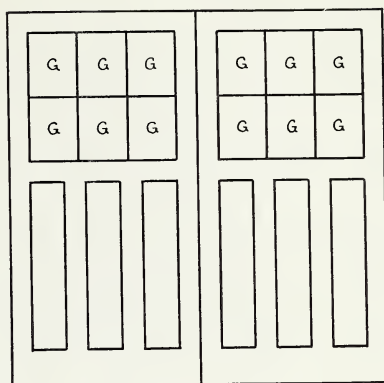


|   |                    |
|---|--------------------|
| Stiles.....                                   | 4 $\frac{9}{16}$ " |
| Top and lock rails.....                       | 5 $\frac{3}{8}$ "  |
| Muntins.....                                  | 5 $\frac{3}{8}$ "  |
| Bottom rail.....                              | 9 $\frac{3}{8}$ "  |
| Vertical bars, $\frac{5}{8}$ " 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.

**F693**

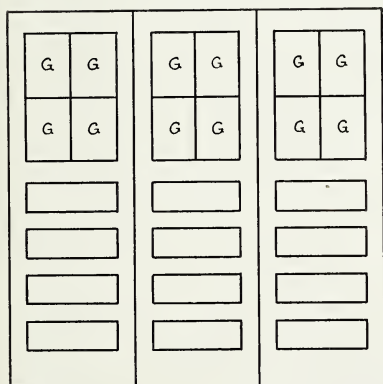


|   |                   |
|---|-------------------|
| Stiles, top and lock rails.....                 | 5 $\frac{3}{8}$ " |
| Muntins.....                                    | 5 $\frac{3}{8}$ " |
| Bottom rail.....                                | 9 $\frac{3}{8}$ " |
| Vertical and horizontal bars, 1" between glass. |                   |

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

Beads for glass included.

**F495**

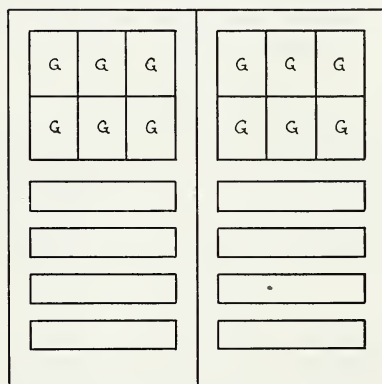


|   |                    |
|---|--------------------|
| Stiles.....                                   | 4 $\frac{9}{16}$ " |
| Top and lock rails.....                       | 5 $\frac{3}{8}$ "  |
| Intermediate rails.....                       | 4 $\frac{1}{2}$ "  |
| Bottom rail.....                              | 9 $\frac{3}{8}$ "  |
| Vertical bars, $\frac{5}{8}$ " 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.

**F695**



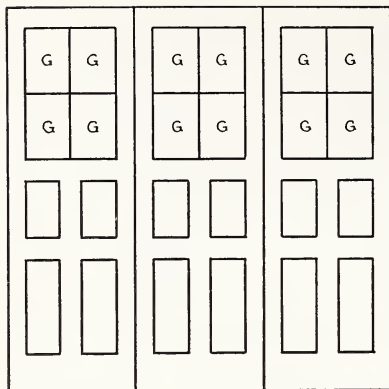
|   |                   |
|---|-------------------|
| Stiles, top and lock rails.....                 | 5 $\frac{3}{8}$ " |
| Intermediate rails.....                         | 4 $\frac{1}{2}$ " |
| Bottom rail.....                                | 9 $\frac{3}{8}$ " |
| Vertical and horizontal bars, 1" 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 24.

## F496

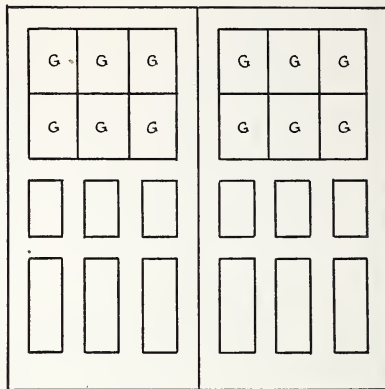


|   |          |
|---|----------|
| Stiles.....   | 49 1/16" |
| Top and lock rails.....                             | 5 3/8"   |
| Intermediate rail and muntins.....                  | 5 3/8"   |
| Bottom rail.....                                    | 9 3/8"   |
| Height of top panels, 9 5/8", shoulder to shoulder. |          |
| Vertical bars, 5/8" 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.

## F696



|  |        |
|--|--------|
| Stiles, top and lock rails.....                    | 5 3/8" |
| Intermediate rail and muntins.....                 | 5 3/8" |
| Bottom rail.....                                   | 9 3/8" |
| Height of top panels 9 5/8", 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.

# STANDARD GLASS OPENINGS FOR STANDARD GARAGE DOOR DESIGNS SHOWN ON PAGES 22 TO 24.

## SETS

## 4 lights per door

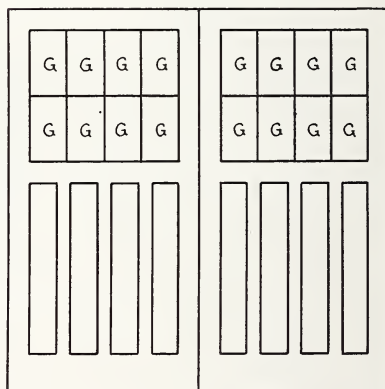
| Size of door       | Size of glass |
|--------------------|---------------|
| 2' 0" x 7' 6"..... | 9 1/2" x 16"  |
| 2' 0" x 8' 0"..... | 9 1/2" x 16"  |
| 2' 6" x 7' 0"..... | 10 1/2" x 13" |
| 2' 6" x 7' 6"..... | 10 1/2" x 16" |
| 2' 6" x 8' 0"..... | 10 1/2" x 16" |
| 2' 8" x 7' 0"..... | 11 1/2" x 13" |
| 2' 8" x 7' 6"..... | 11 1/2" x 16" |
| 2' 8" x 8' 0"..... | 11 1/2" x 16" |

## PAIRS

## 6 lights per door

| Size of door       | Size of glass |
|--------------------|---------------|
| 3' 6" x 7' 0"..... | 10" x 13"     |
| 3' 6" x 7' 6"..... | 10" x 16"     |
| 3' 6" x 8' 0"..... | 10" x 16"     |
| 3' 9" x 7' 0"..... | 11" x 13"     |
| 3' 9" x 7' 6"..... | 11" x 16"     |
| 3' 9" x 8' 0"..... | 11" x 16"     |
| 4' 0" x 7' 0"..... | 12" x 13"     |
| 4' 0" x 7' 6"..... | 12" x 16"     |
| 4' 0" x 8' 0"..... | 12" x 16"     |

## F894



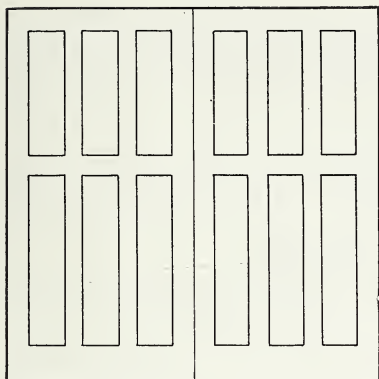
|                                    |        |
|------------------------------------|--------|
| Stiles, top and lock rails.....    | 5 3/8" |
| Muntins.....                       | 3 1/4" |
| Bottom rail.....                   | 9 3/8" |
| Vertical bars, 5/8" between glass. |        |
| Horizontal bars, 1" between glass. |        |

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

| Size of door                         | Size of glass |
|--------------------------------------|---------------|
| 3' 6" x 7' 0".....                   | 7 1/2" x 13"  |
| 3' 6" x 7' 6" and 3' 6" x 8' 0"..... | 7 1/2" x 16"  |
| 3' 9" x 7' 0".....                   | 8 3/16" x 13" |
| 3' 9" x 7' 6" and 3' 9" x 8' 0"..... | 8 3/16" x 16" |
| 4' 0" x 7' 0".....                   | 9" x 13"      |
| 4' 0" x 7' 6" and 4' 0" x 8' 0"..... | 9" x 16"      |

Beads for glass included.

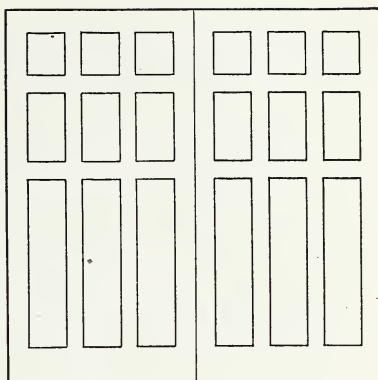
F 093



|                                 |                   |
|---------------------------------|-------------------|
| Stiles, top and lock rails..... | 5 $\frac{3}{8}$ " |
| Muntins.....                    | 5 $\frac{3}{8}$ " |
| Bottom rail.....                | 9 $\frac{3}{8}$ " |

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

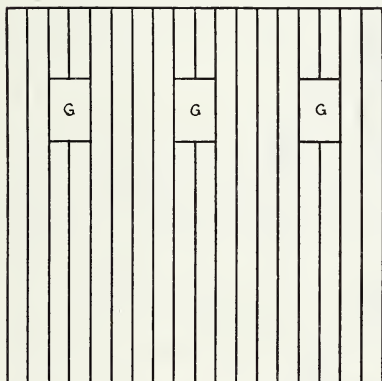
F 099



|                                     |                   |
|-------------------------------------|-------------------|
| Stiles, top and lock rails.....     | 5 $\frac{3}{8}$ " |
| Intermediate rails and muntins..... | 5 $\frac{3}{8}$ " |
| Bottom rail.....                    | 9 $\frac{3}{8}$ " |

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

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, 5 "V" grooves.

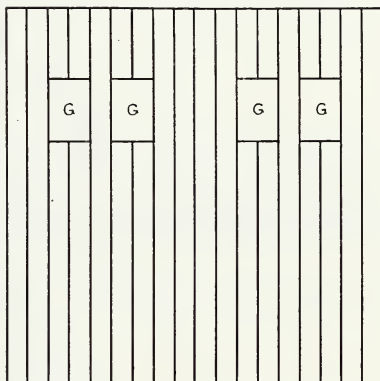
Stiles full thickness of door with intervening ceiling strips glued and nailed to core.

Sets of 3, standard width of each door 2'8", glass size 10 $\frac{3}{8}$ " 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 $\frac{3}{4}$ " thickness only.

F290



V. G. flush garage doors 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, 8 "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 $\frac{3}{8}$ " 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 $\frac{3}{4}$ " thickness only.

## GRADE MARKING

39. The following sets forth the grade marking symbols adopted by the Fir Door Institute to preserve the high standards of quality herein recorded and to insure that distributors and ultimate consumers receive the proper grade of Douglas fir, Sitka spruce, or Western hemlock door for their specific needs.

40. All Douglas fir, Sitka spruce, or Western hemlock doors guaranteed to conform to the commercial standard grading rules herein 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.)

40 (a). All Douglas fir, Sitka spruce, or Western hemlock doors of *A* grade shall be stamped or branded



40 (b). All Douglas fir, Sitka spruce, or Western hemlock doors of *B* grade shall be stamped or branded



40 (c). All Douglas fir, Sitka spruce, or Western hemlock doors of *C* grade shall be stamped or branded



40 (d). All Douglas fir, Sitka spruce, or Western hemlock doors of "Millrun" grade shall be stamped or branded





## EFFECTIVE DATE

41. Having been passed through the regular procedure of the Commodity Standards Division, and approved by the acceptors herein-after listed, this commercial standard was issued by the United States Department of Commerce, effective from July 20, 1948.

Edwin W. Ely,  
*Chief, Commodity Standards Division.*

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## HISTORY OF PROJECT

42. On January 25, 1938, the Fir Door Institute requested the cooperation of the National Bureau of 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, and use of this commodity. On April 4, 1938, a general conference was held at Tacoma, Wash., for 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

43. 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.

44. 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

45. Difficulties encountered in securing wide widths of old growth Douglas fir shop lumber led to the submission, by the Fir Door Institute, of a proposed revision on April 27, 1945, 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 standard was promulgated as CS73-45, effective from September 20, 1945.

**THIRD REVISION**

46. Pursuant to a request from the Fir Door Institute dated April 1, 1947, and following approval by the standing committee, a revision of this standard was circulated on January 14, 1948, to the trade for written acceptance.

47. The main purpose of this revision was to include doors made from Sitka spruce and Western hemlock, as well as from Douglas fir. Several sizes of house doors were eliminated, as well as seventeen designs which are no longer in large demand. The success of the revision was announced on June 21, 1948, as Commercial Standard CS73-48.

**STANDING COMMITTEE**

48. 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 representative. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Commodity Standards Division, National Bureau of Standards, which acts as secretary for the committee.

W. P. WOOLLEY (chairman), M & M Wood Working Co., 2301 N. Columbia Blvd., Portland 3, Oreg.

HENRY L. MERTZ, Buffelen Lumber & Mfg. Co., P. O. Box 1595, Tacoma 1, Wash.

N. O. CRUVER, The Wheeler, Osgood Co., 1216 St. Paul Ave., Tacoma 1, Wash.

D. C. SALLEY, Harbor Plywood Corp., Hoquiam, Wash.

DON S. COLES, W. P. Fuller & Co., 1117 A St., Tacoma 1, Wash.

EDWIN W. TIBBETTS, Brockway-Smith-Haigh-Lovell Co., 465 Medford St., Boston, Mass.

LIONEL RAY, Huttig Sash & Door Co., 1206 S. Vandeventer Ave., St. Louis 10, Mo.

DON A. CAMPBELL, Bonner Campbell Co., Lebanon, Ky. (Representing National Retail Lumber Dealers' Assn.)

GEORGE W. LAPOINTE, JR., O. & N. Lumber Co., 620 Main St., Menomonie, Wis.

EARL W. MACY, Property Standards Unit, Federal Housing Administration, National Housing Agency, Washington 25, D. C.

THEODORE IRVING Coe, The American Institute of Architects, The Octagon, 1741 New York Ave., Washington 6, D. C.

NELSON J. MORRISON, Room 228 Perkins Bldg., Tacoma 2, Wash. (Representing the American Institute of Architects.)

## 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\_\_\_\_\_

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

Gentlemen:

We believe that the Commercial Standard CS73-48 constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the

production <sup>1</sup>                      distribution <sup>1</sup>                      purchase <sup>1</sup>

of old growth Douglas fir, Sitka spruce, and Western hemlock 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\_\_\_\_\_

<sup>1</sup> 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.



## ACCEPTORS

The organizations listed below have individually accepted these grading rules for use as far as practicable in the production, distribution, testing or purchase of Douglas fir, Sitka spruce and Western hemlock standard stock doors. In accepting the standard they reserved the right to depart therefrom as they individually deem advisable. It is expected that articles which actually comply with the requirements of this standard in all respects will be regularly identified or labeled as conforming thereto, and that purchasers will require such specific evidence of conformity.

### ASSOCIATIONS

#### (General Support)

American Specification Institute, Chicago, Ill.  
Appalachian Hardwood Manufacturers, Inc., Cincinnati, Ohio.  
Building Officials Conference of America, Washington, D. C.  
Consumers Cooperative Association, Kansas City, Mo.  
Douglas Fir Plywood Association, Tacoma, Wash.  
Fir Door Institute, Tacoma, Wash.  
Greater New York Lumber Industries, Inc., New York, N. Y.  
Michigan Retail Lumber Dealers Association, Lansing, Mich.  
Mississippi Retail Lumber Dealers Association, Inc., Jackson, Miss.  
New Jersey Lumbermens Association, Newark, N. J.  
Prefabricated Home Manufacturers' Institute, Washington, D. C.  
Southern Sash & Door Jobbers Association, Memphis, Tenn.  
Wisconsin Retail Lumbermens Association, Milwaukee, Wis.  
Woodwork Jobbers Service Bureau, Chicago, Ill.

### FIRMS AND OTHER INTERESTS

Acme Door Co., Hequiam, Wash.  
Adams, Franklin O., Tampa, Fla.  
Adams & Kelly Co., Omaha, Nebr.  
Adams Rogers Co., Indianapolis, Ind.  
Allen Millwork Mfg. Co., Shreveport, La.  
Alpert Woodworking Corp., Brooklyn, N. Y.  
American Sash & Door Co., Kansas City, Mo.  
Andrews, Jones, Biscoe & Goodell, Boston, Mass.  
Andrews, C. E., Lumber Co., New Bethlehem, Pa.  
Asheim & Wilkins, Bridgeport, Conn. (General support.)  
Ashton, C. J., Co., Detroit, Mich.  
Athens Lumber Co., Inc., Athens, Ga.  
Babin Sash & Door Co., The, Cleveland, Ohio.  
Barger Millwork Co., Statesville, N. C.  
Barthmaier, Eugene V., Philadelphia, Pa.  
Baxter, C. B., & Co., Kansas City, Mo.  
Beasley & Sons Co., Nashville, Tenn.  
Becker-Danowitz Co., Inc., Maspeth, L. I., N. Y.  
Berger, Kelley & Associates, Champaign, Ill.  
Berwick Construction & Supply Co., Berwick, Pa.  
Binda, Bial & Gerhardt, Union City, N. J.  
Binswanger & Co., Columbia, S. C., and Richmond, Va.  
Birmingham Sash & Door Co., Birmingham, Ala.  
Bishop, Horatio W., La Mesa, Calif.  
Blackburn, Robert, Inc., Milwaukee, Wis.  
Blount Lumber Co., The, Lacona, N. Y.  
Boehm, George A., New York, N. Y.  
Bohrland Lumber Co., Oil City, Pa.  
Bosman & Casson, Inc., Harrison, N. J.  
Bovard, William R., Kansas City, Mo. (General support.)  
Brazier, Clarence W., New York, N. Y.  
Brew Manufacturing Co., Puyallup, Wash.  
Brockway-Smith-Haigh-Lovell Co., Boston, Mass.  
Brust, W. G., Seattle, Wash.  
Brust & Brust, Milwaukee, Wis.  
Bucky, Fred W., Jr., Jacksonville, Fla.

Buell & Co., Dallas, Tex.  
Buffalo, City of, Department of Public Works, Architectural Service, Buffalo, N. Y.  
Buffalo Plywood Corp., Buffalo, N. Y.  
Buffelen Lumber & Manufacturing Co., Fort Worth, Tex., and Tacoma, Wash.  
Builders Manufacturing Co., South Bend, Ind.  
Building Service, Inc., Great Falls, Mont.  
Building Supplies Corp., Norfolk, Va.  
Burritt, A. W., Co., The, Bridgeport, Conn.  
California Builders Supply Co., Oakland, Calif.  
California Door Co., The, Los Angeles, Calif.  
Cameron Lumber Co., Inc., Newburgh, N. Y.  
Cameron, Wm., & Co., Inc., Waco, Tex.  
Camlet, J. Thomas, Passaic, N. J.  
Camp, E. W., Plywood Co., Inc., Indianapolis, Ind.  
Cannon & Mullen, Salt Lake City, Utah.  
Cavalier Corp., Chattanooga, Tenn.  
Cavanagh Lumber Co., Petaluma, Calif.  
Cellar Lumber Co., Westerville, Ohio.  
Cellarius, Chas. F., Cincinnati, Ohio.  
Central Glazing Co., Fort Worth, Tex.  
Central Wholesale Co., Inc., Shreveport, La.  
Chapin Lumber Co., The, Aurora, Colo.  
Charlottesville Lumber Co., Inc., Charlottesville, Va.  
Chicago & Riverdale Lumber Co., Chicago, Ill.  
Cincinnati, City of, Cincinnati, Ohio.  
Cincinnati Sash & Door Co., The, Cincinnati, Ohio.  
Cleary Millwork Co., Inc., Ansonia, Conn.  
Clinger Lumber Co., Milton, Pa.  
Coale, Thomas E., Lumber Co., Philadelphia, Pa.  
Coffin, R. V., Seattle, Wash.  
Collingdale Millwork Co., Collingdale, Pa.  
Combs Lumber Co., Inc., Lexington, Ky.  
Conrad & Cummings, Binghamton, N. Y.  
Cook-Anderson Co., Beaver, Pa.  
Coolidge, Shepley, Bulfinch & Abbott, Boston, Mass.  
Corbin, P. & F., Division of American Hardware Corp., New Britain, Conn.  
Cram & Ferguson, Boston, Mass.  
Crawford Corp., Baton Rouge, La.  
Cresmer Mfg. Co., Riverside, Calif.  
Crook & Co., Inc., Chicago, Ill.  
Cross, Austin & Ireland Lumber Co., Brooklyn, N. Y.  
Crowell & Lancaster, Bangor, Maine.  
Curtis, Ros, Co., Detroit, Mich.  
Curtis Co's, Inc., Clinton, Iowa.  
Dakota Sash & Door Co., Aberdeen, S. Dak.  
D'Arcy Co., Inc., Dover, N. H.  
Davidson Sash & Door Co., Inc., Lake Charles, La.  
Davis Hardwood Co., San Francisco, Calif.  
De Jarnette, Charles Wagner, Des Moines, Iowa. (General support.)  
Derr, Wm. H., Co., Philadelphia, Pa.  
Detroit, City of, City Engineer's Office, Detroit, Mich.  
Donlin Co., The, St. Cloud, Minn.  
Dukehart, John K., Portland, Ore.  
Eagle-Pieher Sales Co., The, Insulation Division, Cincinnati, Ohio. (General support.)  
Eastern Plywood & Door Co., Inc., Jamestown, N. Y.  
Elliott Bay Mill Co., Seattle, Wash.  
Emery Industries, Inc., St. Bernard, Ohio.  
Empire Millwork Corp., Corona, N. Y.  
English, Miller & Hockett, Hutchinson, Kans.  
Erlanson Lumber Co., Superior, Wis.



- Estes Lumber Co., Birmingham, Ala.  
 Everett, H. F., & Associates, Allentown, Pa.  
 Exchange Lumber & Manufacturing Co., Spokane, Wash.  
 Farnham, H. F., Co., Portland, Maine.  
 Fischer Lime & Cement Co., Memphis, Tenn.  
 Flannagan, Eric G., Henderson, N. C.  
 Florida, University of, Gainesville, Fla.  
 Forks Sash & Door Co., East Grand Forks, Minn.  
 Fort Smith Sash & Door Co., Fort Smith, Ark.  
 Fort Wayne Builders Supply Co., Fort Wayne, Ind.  
 Frederick Bros., Inc., Pottstown, Pa.  
 Frost Hardwood Lumber Co., San Diego, Calif.  
 Fuller, W. P., & Co., Portland, Oreg., and Spokane, Wash.  
 Furer, William C., Honolulu, Hawaii.  
 General Millwork Corp., Utica, N. Y.  
 General Paint Corp., Spokane, Wash. (General support.)  
 General Sash & Door Co., Tulsa, Okla.  
 Gibson Door Co., The, Utica, N. Y.  
 Goshen Sash & Door Co., Goshen, Ind.  
 Gourley John, & Co., Highland Park, Ill.  
 Great Lakes Dist. Corp., South Bend, Ind.  
 Great Lakes Sash & Door Co., The, Cleveland, Ohio.  
 Greene & Wood, Inc., New Bedford, Mass.  
 Gulf States Plywood Co., New Orleans, La.  
 Hager & Cove Lumber Co., Lansing, Mich.  
 Hannaford, Samuel, & Sons, Cincinnati, Ohio.  
 Haralson & Mott, Fort Smith, Ark.  
 Harbor Plywood Corp. of California, San Francisco, Calif.  
 Harbor Plywood Corp., Chicago, Ill., Hoquiam, Wash., and Jacksonville, Fla.  
 Harbor Sales Co., Inc., The, Baltimore, Md., and Washington, D. C.  
 Harrison-Martin Lumber Co., Grand Island, Nebr.  
 Hartung, F. L., Co., Seattle, Wash.  
 Hasting, A. W., & Co., Inc., Somerville, Mass.  
 Havre Builders Supply Co., Havre, Mont.  
 Hawkins Lumber & Warehouse Co., Boston, Mass.  
 Haxby, Bissell & Belair, Minneapolis, Minn.  
 Hill Behan Lumber Co., St. Louis, Mo.  
 Hodgdon, Charles, & Son, San Gabriel, Calif.  
 Hoener, P. John, St. Louis, Mo.  
 Hoffman, Earl, Co., Los Angeles, Calif.  
 Hogan Lumber Co., Oakland, Calif.  
 Holman & Holman & Klekamp, Chicago, Ill.  
 Honerkamp, F. W., Co., Inc., Bronx, N. Y.  
 Hope, Frank, San Diego, Calif.  
 Houston Sash & Door Co., Houston, Tex.  
 Huber-Lancot Housewrecking Corp., Buffalo, N. Y.  
 Hussey-Williams Co., Inc., Ozone Park, N. Y.  
 Huttig Sash & Door Co., Charlotte, N. C.; Columbus, Ohio; Dallas, Tex.; Jacksonville, Fla.; Knoxville, Tenn.; Miami, Fla.; Louisville, Ky.; Roanoke, Va.; and St. Louis, Mo.  
 Hyde-Murphy Co., Ridgway, Pa.  
 Interior Woodwork Co., Milwaukee, Wis.  
 Interstate Sash & Door Co., The, Canton, Ohio.  
 Iron Mountain City Lumber Yard, Iron Mountain, Mich.  
 Ivey, Edwin J., Inc., Seattle, Wash.  
 Jacksonville Sash & Door Co., Jacksonville, Fla.  
 Johnson & Wimsatt, Inc., Washington D. C.  
 Keely, Hal, Plywood Co., Pittsburgh, Pa.  
 Keich & O'Brien, Warren, Ohio.  
 Kellogg, Charles C., & Sons, Utica, N. Y.  
 Kilham, Hopkins & Greeley, Boston, Mass.  
 Kneeland Bigelow Distributing Co., Bay City, Mich.  
 Koch Lumber Co., The, Perrysburg, Ohio.  
 Kornweibel, Theodore, Arcadia, Calif.  
 Kullberg Mfg. Co., Minneapolis, Minn.  
 Law, Law, Potter & Nystrom, Madison, Wis.  
 Leidigh & Havens Lumber Co., Salina, Kans.  
 Levy, Will, St. Louis, Mo.  
 Lewis Lumber Co., Spring Lake, N. J.  
 Liberty Lumber & Mfg. Co., Inc., Erwin, Tenn.  
 Lock City Mfg. Co., Sault Ste. Marie, Mich.  
 Loeb, Laurence M., White Plains, N. Y.  
 Loetscher & Burch Manufacturing Co., Des Moines, Iowa.  
 Los Angeles, City of, Los Angeles, Calif.  
 Lowell, J. B., Inc., Worcester, Mass.  
 Lumber & Millwork Co., of Phila., The, Philadelphia, Pa.  
 Lumber Products, Portland, Oreg.  
 Lumbermen's Credit & Warehouse Co., Kalamazoo, Mich.  
 Lumbermen's Supply, Inc., Sacramento, Calif.  
 Lundgren Dealers Supply, Inc., Tacoma, Wash.  
 Lundgren Wholesale Supply, Inc., Yakima, Wash.  
 Lyman-Hawkins Lumber Co., Akron, Ohio.  
 M & M Wood Working Co., Portland, Oreg., and Miami, Fla.  
 MacArthur Planing Mill, Inc., Long Beach, Calif.  
 Madison Lumber Co., (Dendinger, Inc., owner) New Orleans, La.  
 Mahoney Sash & Door Co., The, Canton, Ohio.  
 Markland, M. B., Contracting Co., Atlantic City, N. J.  
 Marquard Sash & Door Mfg. Co., The, Cleveland, Ohio.  
 Marsh & Truman Lumber Co., Chicago, Ill.  
 Marshall-Newell Supply Co., San Francisco, Calif.  
 Martin, Edgar, Chicago, Ill.  
 Martin Lumber Co., Springfield, Mass.  
 Maryland Lumber Co., The, Baltimore, Md.  
 Mason City Millwork Co., Mason City, Iowa.  
 Mason, George D. & Co., Detroit, Mich.  
 Mauran, Russell, Crowell & Mullgardt, St. Louis, Mo.  
 McClelland Co., The, Davenport, Iowa.  
 McGowin-Lyons Hardware & Supply Co., Mobile, Ala.  
 McPhillips Manufacturing Co., Inc., Mobile, Ala.  
 Melrose Mill Co., Chicago, Ill.  
 Memphis Sash & Door Co., Memphis, Tenn.  
 Merritt Lumber Yards, Inc., Reading, Pa.  
 Metropolitan Millwork Co., Brooklyn, N. Y.  
 Michigan Wholesalers, Inc., Jackson, Mich.  
 Miller & Vrydagh, Terre Haute, Ind.  
 Minot Builders Supply Co., Minot, N. Dak.  
 Mosser, William, San Francisco, Calif.  
 Morgan, David H., Philadelphia, Pa.  
 Morgan Co., Oshkosh, Wis. (General support.)  
 Morgan Millwork Co., Baltimore, Md.  
 Morris, C. L., Lumber Co., Plymouth, Ind.  
 Morrison-Merrill & Co., Salt Lake City, Utah.  
 Mulenberg Bros., Reading, Pa.  
 Murphy & Ames, Inc., Arlington, Va.  
 National Plywood Co., Inc., New York, N. Y.  
 National Woodworks, Inc., Birmingham, Ala.  
 Neal-Blun Co., Savannah, Ga.  
 New Home Building Supply Co., Greensboro, N. C.  
 New Rochelle Coal & Lumber Co., New Rochelle, N. Y.  
 Nicolai Door Manufacturing Co., Portland, Oreg., and San Francisco, Calif.  
 Nord, E. A., Co., Inc., Everett, Wash.  
 Northwest Door Co., Tacoma, Wash.  
 Norwood Sash & Door Manufacturing Co., Cincinnati, Ohio.  
 Nurenburg, W. S., Fort Worth, Tex.  
 O & N Lumber Co., Menomonee, Wis.  
 Officer, Gwynn, Lafayette, Calif.  
 Ohio City Sash & Door Co., Dayton, Ohio.  
 Oklahoma, University of, Norman, Okla.  
 Olson, E. C., Lumber Co., Spokane, Wash.  
 O'Neill Manufacturing Co., Inc., Rome, Ga.  
 Pacific Mutual Door Co., Chicago, Ill.  
 Pacific Mutual Door Co., Garwood, N. J.  
 Paducah Sash & Door Co., Inc., Paducah, Ky.  
 Palmer Lumber Co., Chehalis, Wash.  
 Parselsky Bros., Inc., Brooklyn, N. Y.  
 Patten-Blinn Lumber Co., Los Angeles, Calif.  
 Pease Woodwork Co., Inc., Cincinnati, Ohio.  
 Pehrson, G. A., & Associates, Spokane, Wash.  
 Pepper, Geo. W., Jr., Philadelphia, Pa.  
 Portsmouth Lumber Corp., Portsmouth, Va.  
 Progress Lumber Co., Redwood City, Calif.  
 Quigley, J. R., Co., Gloucester City, N. J.  
 Radford & Sanders, Inc., Harrisburg, Pa., and Baltimore, Md.  
 Ramsey, A. H., & Sons, Inc., Miami, Fla.  
 Reeb Millwork Corp., Roselle, N. J.  
 Reid, William H., Jr., Billings, Mont.  
 Remington Yards, Hibbing, Minn.  
 Resnikoff, Abraham, New York, N. Y.  
 Reynolds Lumber Co., New London, Ohio.  
 Ritchie, James H., & Associates, Boston, Mass.

Roberson, A., & Son, Inc., Binghamton, N. Y.  
 Robinson, Fred J., Lumber Co., Detroit, Mich.  
 Rock Island Lumber Co., Teachout Division, Cleveland, Ohio.  
 Rockwell Bros. & Co., Houston, Tex.  
 Rockwell Manufacturing Co., Randolph, Wis.  
 Rounds & Porter Co., Wichita, Kans.  
 Royal Oak Wholesale Co., Royal Oak, Mich.  
 Ruggles, Carlos, Lumber Co., Springfield, Mass.  
 Rust Sash & Door Co., Kansas City, Mo.  
 Sanders Bros. Manufacturing Co., Ottawa, Ill.  
 Sandusky Lumber & Supply, Sandusky, Ohio.  
 Scherer, Wm. C., & Co., Inc., Baltimore, Md.  
 Scott Sash & Door Co., Inc., Little Rock, Ark.  
 Sears, Roebuck & Co., Chicago, Ill.  
 Segelke & Kohlhaus Co., La Crosse, Wis.  
 Seneca Lumber & Millwork Co., The, Fostoria, Ohio.  
 Shenk, Henry, Co., Erie, Pa.  
 Simons, Inc., Minneapolis, Minn.  
 Simpson Industries, Seattle, Wash.  
 Smith, Allen A., Co., Toledo, Ohio.  
 Snedaker, Frank C., & Co., Inc., Philadelphia, Pa.  
 Snell Sash & Door Co., Omaha, Nebr., and St. Paul, Minn.  
 South Bend Lumber Co., South Bend, Ind.  
 Southwestern Sash & Door Co., Joplin, Mo., and Albuquerque, N. Mex.  
 Standard Door & Lumber Co., Inc., Fort Worth, Tex.  
 Standard Millwork & Supply Co., Jackson, Miss.  
 Staub & Rather, Houston, Tex.  
 Steves Sash & Door Co., San Antonio, Tex., and Houston, Tex.  
 Stoetzel, Ralph, Chicago, Ill.  
 Stokes & Allyn, Portland, Ore.  
 Summers Hardware & Supply Co., Johnson City, Tenn.  
 Swan Lake Moulding Co., Klamath Falls, Ore.  
 Sweetwater Sash & Door Co., Sweetwater, Tex.  
 Taylor, Ellery K., Haddonfield, N. J.  
 Taylor, Ellis Wing, Los Angeles, Calif.  
 Taylor Sash & Door Co., Pensacola, Fla.  
 Teachout Sash, Door & Glass Co., The, Detroit, Mich.  
 Tennessee Glass Co., Inc., Nashville, Tenn.  
 Theiling-Lothman Manufacturing Co., St. Louis, Mo.  
 Throop-Martin Co., The, Columbus, Ohio.  
 Timberline, Inc. (formerly Stark & Co.), Kansas City, Mo.  
 Trexler Lumber Co., Allentown, Pa.  
 Tucker Products Corp., Fitchburg, Mass.  
 Tulane Hardwood Lumber Co., Inc., New Orleans, La.  
 Tulsa Rig, Reel & Manufacturing Co., Tulsa, Okla.  
 Underwood Coal & Supply Co., Mobile, Ala.  
 Unity Lumber Co., Inc., Brooklyn, N. Y.  
 Vancouver Door Co., Inc., Montesano, Wash.  
 Vaughan, Geo. C., & Sons, Houston, Tex., and San Antonio, Tex.

Velde Lumber Co., Pekin, Ill.  
 Vetter Manufacturing Co., Stevens Point, Wis.  
 Virginia Polytechnic Institute, Blacksburg, Va. (General support.)  
 Walling Sash & Door Co., Wichita, Kans.  
 Wallis & Carley Co., Sharon, Pa.  
 Walsh, Louis A., Waterbury, Conn.  
 Wanke Panel Co., Portland, Ore.  
 Warren Brothers Co., Nashville, Tenn.  
 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.  
 Weinert, A. F., Lumber Co., Columbia, Ill.  
 Welch, Carroll E., Huntington, N. Y.  
 Welch Sash & Door Co., Port Huron, Mich.  
 West Kittanning Lumber Co., Kittanning, Pa.  
 West Lumber Co., Atlanta, Ga.  
 Western Door & Plywood Corp., Portland, Ore.  
 Western Door & Sash Co., Oakland, Calif.  
 Western Hardwood Lumber Co., Los Angeles, Calif.  
 Western Mill & Lumber Co., Inc., Baltimore, Md.  
 Wheeler, Osgood Co., The, Tacoma, Wash.  
 Wheelock, E. U., Inc., Los Angeles, Calif.  
 Whissel, L. N., Lumber Co., Inc., Buffalo, N. Y.  
 Whitmer-Jackson Co., Cleveland, Ohio.  
 Whitmer Jackson Co., Inc., The, Buffalo, N. Y.  
 Wholesale Building Supply Inc., Oakland, Calif.  
 Wholesale Distributing Co., Pittsburgh, Pa.  
 Wilbur Lumber Co., Waukesha, Wis.  
 Williams & Hunting Co., Cedar Rapids, Iowa.  
 Willingham-Tift Lumber Co., Atlanta, Ga.  
 Willson, Fred F., Bozeman, Mont.  
 Wimberly & Thomas Hardware Co., Inc., Birmingham, Ala.  
 Wolverine Shingle & Lumber Co., Detroit, Mich.  
 Wright & Wright, Detroit, Mich. (General support.)  
 Zimmerman, A. C., Los Angeles, Calif.

#### UNITED STATES GOVERNMENT

Agriculture, U. S. Department of, Division of Purchase, Sales & Traffic, Washington, D. C.  
 Interior Department, Office of Indian Affairs, Washington, D. C.  
 Justice, Department of, Bureau of Prisons, Construction Division, Washington, D. C.  
 Ninth Naval District, District Public Works Department, Great Lakes, Ill.  
 Naval Air Station, Alameda, Calif.  
 Naval Base, Philadelphia, Pa.  
 Navy, Department of the, Bureau of Yards & Docks, Washington, D. C.  
 Portsmouth Naval Shipyard, Portsmouth, N. H.  
 Public Housing Administration, Washington, D. C., and Chicago, Ill.  
 Veterans Administration, Washington, D. C.

# COMMERCIAL STANDARDS

| CS No. | Item  |
|--------|---|
| 0-40.  | Commercial standards and their value to business (third edition).   |
| 1-42.  | Clinical thermometers (third edition).  |
| 2-30.  | Mopsticks.  |
| 3-40.  | Stoddard solvent (third edition).   |
| 4-29.  | Staple porcelain (all-clay) plumbing fixtures.  |
| 5-46.  | Pipe nipples; brass, copper, steel and wrought-iron (second edition).   |
| 6-31.  | Wrought-iron pipe nipples (second edition). Superseded by CS5-46.   |
| 7-29.  | Standard weight malleable iron or steel screwed unions.   |
| 8-41.  | Gage blanks (third edition).  |
| 9-33.  | Builders' template hardware (second edition).   |
| 10-29. | Brass pipe nipples. Superseded by CS5-46.   |
| 11-41. | Moisture regains of cotton yarns (second edition).  |
| 12-40. | Fuel oils (fifth edition).  |
| 13-44. | Dress patterns (fourth edition).  |
| 14-43. | Boys' button-on waists, shirts, junior and sport shirts (made from woven fabrics) (third edition).                          |
| 15-46. | Men's pajama sizes (made from woven fabrics) (third edition).   |
| 16-29. | Wall paper.   |
| 17-47. | Diamond core drill fittings (fourth edition).   |
| 18-29. | Hickory golf shafts.  |
| 19-32. | Foundry patterns of wood (second edition).  |
| 20-47. | Staple vitreous china plumbing fixtures (fourth edition).   |
| 21-39. | Interchangeable ground-glass joints, stopcocks, and stoppers (fourth edition).  |
| 22-40. | Builders' hardware (nontemplate) (second edition).  |
| 23-30. | Feldspar.   |
| 24-43. | Screw threads and tap-drill sizes.  |
| 25-30. | Special screw threads. Superseded by CS24-43.   |
| 26-30. | Aromatic red cedar closet lining.   |
| 27-36. | Mirrors (second edition).   |
| 28-46. | Cotton fabric tents, tarpaulins and covers (second edition).  |
| 29-31. | Staple seats for water-closet bowls.  |
| 30-31. | Colors for sanitary ware.   |
| 31-38. | Wood shingles (fourth edition).   |
| 32-31. | Cotton cloth for rubber and pyroxylin coating.  |
| 33-43. | Knit underwear (exclusive of rayon) (second edition).   |
| 34-31. | Bag, case, and strap leather.   |
| 35-47. | Hardwood plywood (third edition).   |
| 36-33. | Fourdrinier wire cloth (second edition).  |
| 37-31. | Steel bone plates and screws.   |
| 38-32. | Hospital rubber sheeting.   |
| 39-37. | Wool and part wool blankets (second edition). (Withdrawn as commercial standard, July 14, 1941).                            |
| 40-32. | Surgeons' rubber gloves.  |
| 41-32. | Surgeons' latex gloves.   |
| 42-43. | Structural fiber insulating board (third edition).  |
| 43-32. | Grading of sulphonated oils.  |
| 44-32. | Apple wraps.  |
| 45-47. | Douglas fir plywood (seventh edition).  |
| 46-40. | Hosiery lengths and sizes (third edition).  |
| 47-34. | Marking of gold-filled and rolled-gold-plate articles other than watchcases.  |
| 48-40. | Domestic burners for Pennsylvania anthracite (underfeed type) (second edition).   |
| 49-34. | Chip board, laminated chip board, and miscellaneous boards for bookbinding purposes.  |
| 50-34. | Binders board for bookbinding and other purposes.   |
| 51-35. | Marking articles made of silver in combination with gold.   |
| 52-35. | Mohair pile fabrics (100-percent mohair plain velvet, 100-percent mohair plain frieze, and 50-percent mohair plain frieze). |
| 53-35. | Colors and finishes for cast stone.   |
| 54-35. | Mattresses for hospitals.   |
| 55-35. | Mattresses for institutions.  |
| 56-41. | Oak flooring (second edition).  |
| 57-40. | Book cloths, buckrams, and impregnated fabrics for bookbinding purposes except library bindings (second edition).           |
| 58-36. | Woven elastic fabrics for use in overalls (overall elastic webbing).  |
| 59-44. | Textiles—testing and reporting (fourth edition).  |
| 60-48. | Hardwood dimension lumber (second edition).   |
| 61-37. | Wood-slat venetian blinds.  |
| 62-38. | Colors for kitchen accessories.   |
| 63-38. | Colors for bathroom accessories.  |
| 64-37. | Walnut veneers.   |
| 65-43. | Methods of analysis and of reporting fiber composition of textile products (second edition).                                |
| 66-38. | Marking of articles made wholly or in part of platinum.   |
| 67-38. | Marking articles made of karat gold.  |
| 68-38. | Liquid hypochlorite disinfectant, deodorant, and germicide.   |
| 69-38. | Pine oil disinfectant.  |
| 70-41. | Phenolic disinfectant (emulsifying type) (second edition) (published with CS71-41).   |
| 71-41. | Phenolic disinfectant (soluble type) (second edition) (published with CS70-41).   |
| 72-38. | Household insecticide (liquid spray type).  |
| 73-48. | Old growth Douglas fir Sitka spruce, and Western hemlock standard stock doors (fourth edition).                             |
| 74-39. | Solid hardwood wall paneling.   |
| 75-42. | Automatic mechanical draft oil burners designed for domestic installations (second edition).                                |



| CS No.                   | Item  |
|--------------------------|---|
| 76-39.                   | Hardwood interior trim and molding.   |
| 77-40.                   | Sanitary cast-iron enameled ware.   |
| 78-40.                   | Ground-and-polished lenses for sun glasses (second edition) (published with CS79-40).   |
| 79-40.                   | Blown, drawn, and dropped lenses for sun glasses (second edition) (published with CS78-40).   |
| 80-41.                   | Electric direction signal systems other than semaphore type for commercial and other vehicles subject to special motor vehicle laws (after market). |
| 81-41.                   | Adverse-weather lamps for vehicles (after market).  |
| 82-41.                   | Inner-controlled spotlamps for vehicles (after market).   |
| 83-41.                   | Clearance, marker, and identification lamps for vehicles (after market).  |
| 84-41.                   | Electric tail lamps for vehicles (after market).  |
| 85-41.                   | Electric license-plate lamps for vehicles (after market).   |
| 86-41.                   | Electric stop lamps for vehicles (after market).  |
| 87-41.                   | Red electric warning lanterns.  |
| 88-41.                   | Liquid burning flares.  |
| 89-40.                   | Hardwood stair treads and risers.   |
| 90- .                    | (Reserved for power shovels and cranes.)  |
| 91-41.                   | Factory-fitted Douglas fir entrance doors.  |
| 92-41.                   | Cedar, cypress and redwood tank stock lumber.   |
| 93-41.                   | Portable electric drills (exclusive of high frequency).   |
| 94-41.                   | Calking lead.   |
| 95-41.                   | Lead pipe.  |
| 96-41.                   | Lead traps and bends.   |
| 97-42.                   | Electric supplementary driving and passing lamps for vehicles (after market).   |
| 98-42.                   | Artists' oil paints.  |
| 99-42.                   | Gas floor furnaces—gravity circulating type.  |
| 100-47.                  | Porcelain-enameled steel utensils (third edition).  |
| 101-43.                  | Flue-connected oil-burning space heaters equipped with vaporizing pot-type burners.   |
| 102- .                   | (Reserved for Diesel and fuel-oil engines).   |
| 103-42.                  | Cotton and rayon velour (jacquard and plain).   |
| 104-46.                  | Warm-air furnaces equipped with vaporizing pot-type oil burners (second edition).   |
| 105-43.                  | Mineral wool; loose granulated, or felted form, in low-temperature installations.   |
| 106-44.                  | Boys' pajama sizes (woven fabrics) (second edition).  |
| 107-45.                  | Commercial electric-refrigeration condensing units (second edition). (Withdrawn as commercial standard September 4, 1947.)                          |
| 108-43.                  | Treading automobile and truck tires.  |
| 109-44.                  | Solid-fuel-burning forced-air furnaces.   |
| 110-43.                  | Tire repairs—vulcanized (passenger, truck, and bus tires).  |
| 111-43.                  | Earthenware (vitreous-glazed) plumbing fixtures.  |
| 112-43.                  | Homogeneous fiber wallboard.  |
| 113-44.                  | Oil-burning floor furnaces equipped with vaporizing pot-type burners.   |
| 114-43.                  | Hospital sheeting for mattress protection.  |
| 115-44.                  | Porcelain-enameled tanks for domestic use.  |
| 116-44.                  | Bituminized-fibre drain and sewer pipe.   |
| 117-44.                  | Mineral wool; blankets, blocks, insulating cement, and pipe insulation for heated industrial equipment.   |
| 118-44.                  | Marking of jewelry and novelties of silver.   |
| <sup>1</sup> (E) 119-45. | Dial indicators (for linear measurements).  |
| 120-46.                  | Standard stock ponderosa pine doors (second edition).   |
| 121-45.                  | Women's slip sizes (woven fabrics).   |
| 122-45.                  | Western hemlock plywood.  |
| 123-45.                  | Grading of diamond powder.  |
| <sup>1</sup> (E) 124-45. | Master disks.   |
| 125-47.                  | Prefabricated homes (second edition).   |
| 126-45.                  | Tank mounted air compressors.   |
| 127-45.                  | Self-contained mechanically refrigerated drinking water coolers.  |
| 128-45.                  | Men's sport shirt sizes—woven fabrics (other than those marked with regular neckband sizes).  |
| 129-47.                  | Materials for safety wearing apparel (second edition).  |
| 130-46.                  | Color materials for art education in schools.   |
| 131-46.                  | Industrial mineral wool products, all types—testing and reporting.  |
| 132-46.                  | Hardware cloth.   |
| 133-46.                  | Woven wire netting.   |
| 134-46.                  | Cast aluminum cooking utensils (metal composition).   |
| 135-46.                  | Men's shirt sizes (exclusive of work shirts).   |
| 136-46.                  | Blankets for hospitals (wool, and wool and cotton).   |
| 137-46.                  | Size measurements for men's and boys' shorts (woven fabrics).   |
| 138-47.                  | Insect wire screening.  |
| 139-47.                  | Work gloves.  |
| 140-47.                  | Testing and rating convectors.  |
| 141-47.                  | Sine bars, blocks, plates, and fixtures.  |
| 142-47.                  | Automotive lifts.   |
| 143-47.                  | Standard strength and extra strength perforated clay pipe.  |
| 144-47.                  | Formed metal porcelain enameled sanitary ware.  |
| 145-47.                  | Testing and rating hand-fired hot water supply boilers.   |
| 146-47.                  | Gowns for hospital patients.  |
| 147-47.                  | Colors for molded urea plastics.  |

NOTICE.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice may secure copies of the above standards, while the supply lasts, by addressing the Commodity Standards Division, National Bureau of Standards, Washington 25, D. C.

<sup>1</sup> Where "(E)" precedes the CS number, it indicates an emergency commercial standard, drafted under war conditions with a view toward early revision.

