UNITED STATES DEPARTMENT OF COMMERCE
JESSE H. JONES, Secretary
NATIONAL BUREAU OF STANDARDS
LYMAN J. BRIGGS, Director

OLD GROWTH DOUGLAS FIR STANDARD STOCK DOORS

(SECOND EDITION)

COMMERCIAL STANDARD CS73-43

(Supersedes CS73-38)

Effective Date for New Production from June 15, 1943

A RECORDED VOLUNTARY STANDARD
OF THE TRADE

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PROMULGATION

of

COMMERCIAL STANDARD CS73–43

for

OLD GROWTH DOUGLAS FIR STANDARD STOCK DOORS

(Second Edition)

On April 4, 1938, at the instance of the Fir Door Institute, a general conference of representative manufacturers, distributors, and users of old growth Douglas fir standard stock doors adopted a recommended commercial standard for this commodity which was subsequently accepted by the trade and published as Commercial Standard CS73–38.

A recommended revision submitted by the Fir Door Institute and endorsed by the standing committee was circulated on February 27, 1943, to the trade for written acceptance. The trade has since accepted and approved for promulgation by the United States Department of Commerce, through the National Bureau of Standards, the revised standard as shown herein.

The standard is effective for new production from June 15, 1943.

Promulgation recommended.

I. J. Fairchild,
Chief, Division of Trade Standards.

Promulgated.

Lyman J. Briggs,
Director, National Bureau of Standards.

Promulgation approved.

Jesse H. Jones,
Secretary of Commerce.

OLD GROWTH DOUGLAS FIR STANDARD STOCK DOORS[1]

(Second Edition)

COMMERCIAL STANDARD CS73–43

PURPOSE

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

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

SCOPE

3. This standard provides minimum specifications for 4 grades of stock fir doors in four thicknesses, ¾, 1⅛, 1⅜, and 1¾ inches. It covers construction, defects, and the grading tolerances for these requirements. There are standard stock layouts and designs covered in door sizes ranging as follows, and in accordance with detailed schedules of Douglas fir stock door list beginning on page 6.

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

GENERAL REQUIREMENTS

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

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

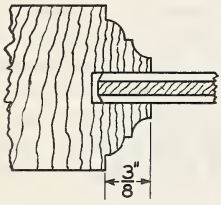
6. *Workmanship.*—Doors shall be well manufactured and machined, and both faces shall have flat surfaces; that is, with stiles, rails, and panels smoothly sanded.

[1] Old growth Douglas fir is a term generally applied to distinguish the wood developed in the later stages of the tree's growth. It is generally free from knots; of medium density with fairly close, uniformly spaced growth rings; and usually of uniform light yellowish or pinkish color. Contrasted to this is the early growth sometimes referred to as red fir, which, while of the same species and perhaps of the same tree, is generally knotty, of low density, with wide and sometimes irregular growth rings, and usually a red color.

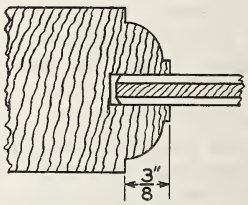
7. *Construction.*—Doors shall be assembled by what is known as "dowelled construction"; that is, stiles and rails to be bored to receive fir dowels not less than ⅜ inch in diameter by 5 inches long for doors ¾ inch thick, and not less than ⅝ inch in diameter by 5 inches long for doors 1⅛, 1⅜, and 1¾ inches thick. The dowels shall have glue grooves. Dowels shall be set in glue and extend approximately one-half their length into each stile and rail, and assembled under pressure. Because of the fact that all present standard door boring machines are built for 2¼-inch dowel centers, the required number of dowels used in joining rails to stiles are therefore limited according to the width of the rails, and shall be based on a minimum number of dowels at each end of rails as follows:

Rails under 4½″ wide	1 dowel.
Rails 4½″ to 7″ wide	2 dowels.
Rails over 7″ wide	3 dowels.

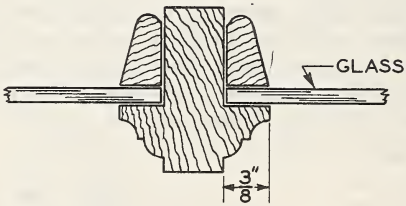
8. *Sticking.*—Three-eighths inch "bead and cove" or "ovolo" sticking shall be standard on all standard doors. "Bead and cove" sticking will be furnished, unless otherwise specified. (See fig. 1.)



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 1/16 inch shall be allowed:

Cupboard doors	¾″ and 1⅜″.
Side lights	1⅜″ and 1¾″.
House doors	1⅛″, 1⅜″, and 1¾″.
Garage doors	1⅛″, 1⅜″, and 1¾″.

10. In standard practice, a length and width tolerance of plus ⅛ inch shall be allowed. When so ordered, house doors will be trimmed to standard lengths with a tolerance of plus or minus 1/32 inch. When

so trimmed, protection strips or skid blocks shall be applied to top and bottom ends.

INSPECTION AND LABELING

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

DETAIL REQUIREMENTS

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

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

14. Doors shall be graded on both sides or faces in accordance with the following standard grades. Grades *A*, *B*, and *C*, covering standard house doors, will be furnished in 1⅜- and 1¾-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 1⅛ inch thick will be furnished in "millrun" grade only.

HOUSE DOORS

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

15. *Stiles and rails.*—This stock shall be of 100-percent heartwood, all vertical grain old growth Douglas fir, the faces of which must be clear, with the exception that each stile may contain one carefully repaired pitch seam on each side, provided that such pitch seam does not extend through the piece nor exceed 3½ inches in length. Such pitch pockets shall be not over 35 inches from the bottom of the door. Bottom rail may contain one neatly repaired pitch seam the same as the stiles. Glued-up bottom rails are permissible in widths over 9⅜ inches.

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

17. *Panels—solid raised.*—The standard thickness of solid raised panels shall be not more than 7/16 inch before sanding and not less than 7/16 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

18. *Stiles and rails.*—This stock shall be of vertical grain faces, with some coarse grain permitted. It shall be sound in all respects, and may contain sap, slight stains, and burls. Stiles, bottom rails, and wide lock rails may each contain two neatly repaired pitch seams not over 9 inches in length on each side. Remaining rails and mullions may each contain not over one such defect on each side. Glued-up bottom rails are permissible.

19. *Panels—flat veneered.*—The standard thickness of 3-ply flat veneered panels shall be ¼ inch after sanding. Each face shall be of one or more pieces of firm smoothly cut veneer. When of more than one piece, it shall be well joined and reasonably matched for grain and color at the joints. It shall be free from knots, splits, checks, pitch pockets, and other open defects. Streaks, discolorations, sapwood, shims, and neatly made patches shall be admitted.

20. *Panels—raised.*—The standard thickness of raised panels shall be not more than 9/16 inch before sanding and not less than 7/16 inch after sanding. They may be either slash or mixed grain, and shall conform to the grade of the stiles and rails. Two-piece, glued-up, solid panels are permissible.

Grade C.—Recommended for Paint Finish Only

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

22. *Stiles and rails.*—This stock may be of mixed grain, and may contain any amount of discolored sap or heartwood, burls, solid pitch, streaks, any number and size of repaired pitch seams, or other sound defects not otherwise permitted in the higher grades, providing it presents a solid surface. Glued-up stiles and rails are permissible.

23. *Panels—flat veneered.*—The standard thickness of 3-ply flat veneered panels shall be ¼ inch after sanding. Each face shall present a smooth surface suitable for painting. Discoloration, unmatched patches, shims, and pieced faces are admissible.

24. *Panels—raised.*—The standard thickness of raised panels shall be not more than 9/16 inch before sanding and not less than 7/16 inch after sanding. They shall conform to the grade of the stiles and rails. Two-piece, glued-up, solid panels are permissible.

Millrun Grade

25. *Stiles and rails.*—This grade shall be manufactured and sold in 1⅛-inch thickness only developed and accumulated by planing down stock too thin for 1⅜-inch thickness, consequently it will include an undetermined amount of all or any of the other grades. This grade and thickness shall be confined to the following standard designs: Storm doors, cupboard doors, F5, F117, F118, F119, and F214. (See stock door list beginning on page 6.)

26. *Panels—flat veneered.*—The standard thickness of 3-ply, flat veneered panels shall be ¼ inch after sanding. They shall conform to the grades applying to grade *B* and/or grade *C* doors described above.

27. *Panels—raised.*—The standard thickness of raised panels shall be not more than 9/16 inch before sanding, and not less than 7/16 inch after sanding. They shall conform to the grades applying to grade *B* and/or grade *C* doors, described above.

GARAGE DOORS

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

28. *Stiles and rails.*—This stock shall be substantially all vertical grain, with accumulations of coarse or mixed grain permitted. It shall be sound in all respects, and may contain sap, stain, burls, pitch streaks, and neatly repaired pitch seams.

29. *Panels—flat veneered.*—The standard thickness of 3-ply flat veneered panels shall be ¼ inch after sanding. They shall be of door panel grade *B*, as described under paragraph 19.

30. *Panels—solid raised.*—The standard thickness of solid raised panels shall be not more than 7/16-inch before sanding and not less than 7/16-inch after sanding. They may be vertical, slash, or mixed grain, at the option of the manufacturer, and shall conform to the grade of the stiles and rails.

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

DESIGNS AND LAYOUTS

32. House doors of any design narrower than 1 foot 6 inches will be furnished with stiles 3 7/16 inches in width, over-all, unless otherwise specified.

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

TABLE 1.—*Door sizes (in feet and inches)*

Standard sizes, cupboard doors		Standard sizes, house doors		Standard sizes, side lights	Standard sizes, garage doors		
1-0×1-6	1-0×4-0	2-0×6-0	1-6×7-0	10″ ×6-8	2-0×7-0	2-0×7-6	2-0×8-0
1-2	1-2	2-4	1-8	1-0	2-4	2-4	2-4
1-4	1-4	2-6	1-10	1-2	2-6	2-6	2-6
1-6	1-6	2-8	2-0	1-4	2-8	2-8	2-8
1-8	1-8	3-0	2-2	1-6	3-0	3-0	3-0
1-10	1-10		2-4		3-6	3-6	3-6
2-0	2-0	2-6×6-4	2-6	10″ ×6-10	3-9	3-9	3-9
			2-8	1-0	4-0	4-0	4-0
1-0×2-0	1-0×4-6	1-6×6-6	2-10	1-2			
1-2	1-2	1-8	3-0	1-4			
1-4	1-4	1-10	3-4	1-6			
1-6	1-6	2-0	3-6				
1-8	1-8	2-2		10″ ×7-0			
1-10	1-10	2-4	2-0×7-6	1-0			
2-0	2-0	2-6	2-4	1-2			
		2-8	2-6	1-4			
1-0×2-6	1-0×5-0	3-0	2-8	1-6			
1-2	1-2		2-10				
1-4	1-4	1-6×6-8	3-0				
1-6	1-6	1-8	3-4				
1-8	1-8	1-10	3-6				
1-10	1-10	2-0					
2-0	2-0	2-2	2-0×8-0				
		2-4	2-4				
1-0×3-0	1-0×5-6	2-6	2-6				
1-2	1-2	2-8	2-8				
1-4	1-4	2-10	2-10				
1-6	1-6	3-0	3-0				
1-8	1-8		3-4				
1-10	1-10	2-0×6-10	3-6				
2-0	2-0	2-2					
		2-4					
1-0×3-6	1-0×6-0	2-6					
1-2	1-2	2-8					
1-4	1-4	2-10					
1-6	1-6	3-0					
1-8	1-8						
1-10	1-10						
2-0	2-0						

DOUGLAS FIR STOCK DOOR LIST

34. The stock layouts and designs for old growth Douglas fir doors are illustrated below.

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

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

"USE" CLASSIFICATION INDEX

FRONT ENTRANCE DOORS

SIDE LIGHTS

"USE" CLASSIFICATION INDEX—Continued

Interior Doors

Stock number	Description	Page
F1, F2	1 panel (insert)	11
F20, F21, F22	1 panel	11
F82	2 panel	15
F28, F29	do	16
F80	2 panel (vertical)	11
F3, F3M, F3W	3 equal panel	13
F33	3 panel	13
F53	3 panel	12
F62	3 panel (2 vertical)	17
F63	4 panel (3 vertical)	17
F44	4 panel (vertical)	14
F5	5 cross panel	12
F45	5 regular panel	14
F66, F67	6 panel Colonial	12
F88	8 equal panel	11
F535, F536, F537	5 light (horizontal)	23
F835, F836, F837	8 light (horizontal)	23
F1035, F1036, F1037	10 light (2 wide—5 high)	24
F1235, F1236, F1237	12 light (3 wide—4 high)	24
F1535, F1536, F1537	15 light (3 wide—5 high)	24
F1635, F1636, F1637	16 light (2 wide—8 high)	24

Rear Entrance Doors

F13, F13M, F13W	2 panel—1 light	13
F133	do	13
F108, F109	1 panel—1 light	15
F128, F129	do	16
F147	do	19
F182	do	15
F982	1 panel—9 light (3 wide—3 high)	15
F114	2 panel—1 light	19
F415	2 panel—4 light (2 wide—2 high)	19
F415H	2 panel—4 light (horizontal)	19
F416	3 panel—4 light (2 wide—2 high)	21
F453	2 panel—4 light (2 wide—2 high)	21
F214	3 panel—1 light	20
F214H	3 panel—3 light (horizontal)	20
F117	4 panel—1 light	20
F117½	5 panel—1 light	20
F118	3 panel—1 light	21
F118½	4 panel—1 light	21
F318	3 panel—3 light (vertical)	22
F418	3 panel—4 light (vertical)	22
F618	3 panel—6 light (3 wide—2 high)	22
F918	3 panel—9 light (3 wide—3 high)	22

Storm Doors

FS7	7 panel	25
FS07	5 panel—1 light	25

539907 O - 43 - 2

"USE" CLASSIFICATION INDEX—Continued

Cupboard Doors

Garage Doors

STOCK NUMBER INDEX

House Doors

STOCK NUMBER INDEX—Continued

HOUSE DOORS—Continued

STOCK NUMBER INDEX—Continued

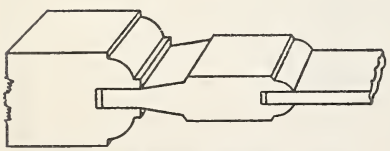
Side Lights

Storm Doors

Cupboard Doors

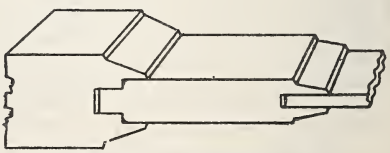
Garage Doors

F 1



Raised insert frame. Sticking: Ovolo.

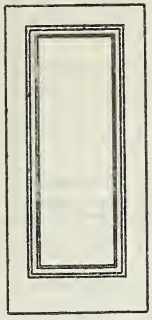
F 2



Flat insert frame. Sticking: P & G.

HOUSE DOORS

F 1
F 2



Stiles and top rail	4⅜6″
Bottom rail	9⅜″
Insert frame	2⅜6″

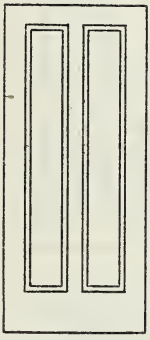
3-ply laminated flat panel. Furnished in grades *A* and *B* only.

F 20
F 21
F 22

	F20	F21	F22
Stiles	4⅜6″	4⅜6″	5⅜″
Top rail	4⅜6″	5⅜″	5⅜″
Bottom rail	9⅜″	11⅜″	11⅜″

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

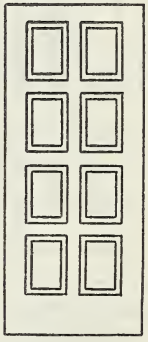
F 80



Stiles and top rail	4⅜6″
Muntin	4½″
Bottom rail	9⅜″

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

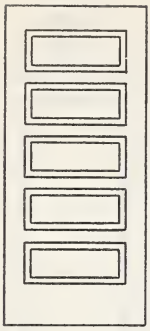
F 88



Stiles and top rail	4⅜6″
Intermediate rails and muntins	2⅞″
Bottom rail	9⅜″

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

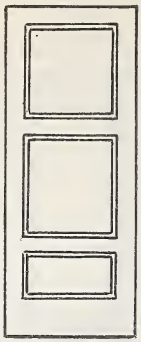
F 5



Stiles and top rail	4 9/16"
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* and 1 1/8" millrun. Sticking: Standard.

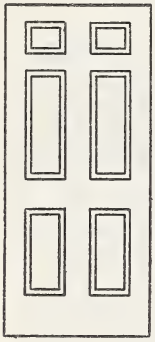
F 53



Stiles and top rail	4 9/16"
Intermediate rails	4 1/2"
Bottom rail	9 3/8"

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

F 66

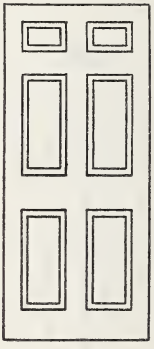


Stiles and top rail	4 9/16"
Lock rail	8"
Intermediate rail and muntins	4 1/2"
Bottom rail	9 3/8"
Height from floor to top of lock rail	36 1/2"
Height from top of intermediate rail to top of door	12 5/16"

Height of center panels vary with height of door.

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

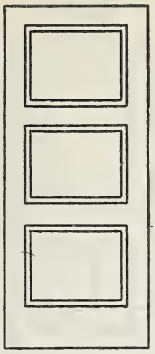
F 67



Stiles and top rail	4 9/16"
Lock rail	9 3/8"
Intermediate rail and muntins	4 1/2"
Bottom rail	7 15/16"
Height from floor to top of lock rail	41 1/16"
Height from top of intermediate rail to top of door	12 5/16"

Height of center panels vary with height of door.

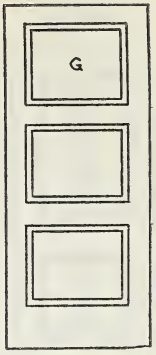
Doors 1′ 8″ and narrower made one panel wide. 3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades *A* and *B* only. Sticking: Standard.



F3
F3M
F3W

	F3	F3M	F3W
Stiles	4 9/16"	4 9/16"	4 9/16"
Top rail	4 9/16"	4 9/16"	4 9/16"
Intermediate rails	2 1/4"	3 1/4"	4 1/2"
Bottom rail	9 3/8"	9 3/8"	9 3/8"

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



F13
F13M
F13W

	F13	F13M	F13W
Stiles	4 9/16"	4 9/16"	4 9/16"
Top rail	4 9/16"	4 9/16"	4 9/16"
Intermediate rails	2 1/4"	3 1/4"	4 1/2"
Bottom rail	9 3/8"	9 3/8"	9 3/8"

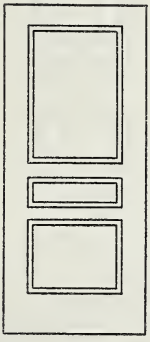
3-ply laminated flat panels. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door (same for 3 designs)	Size of glass F13
2'6" x 6'6"	21 5/8" x 20 5/8"
2'8" x 6'8"	23 5/8" x 21 5/16"
2'10" x 6'10"	25 5/8" x 22"
3'0" x 7'0"	27 5/8" x 22 1/16"

Size of door (same for 3 designs)	F13M	Size of glass F13W
2'6" x 6'6"	21 5/8" x 19 7/8"	21 5/8" x 20 7/16"
2'8" x 6'8"	23 5/8" x 20 9/16"	23 5/8" x 21 1/8"
2'10" x 6'10"	25 5/8" x 21 1/4"	25 5/8" x 21 13/16"
3'0" x 7'0"	27 5/8" x 21 5/16"	27 5/8" x 22 7/16"

Beads for glass included.

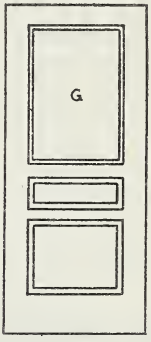
F33



Stiles and top rail	4 9/16"
Intermediate rails	4 1/2"
Bottom rail	9 3/8"
Height from floor to top of upper cross rail	42 1/4"

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

F133



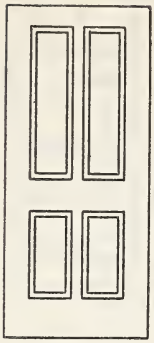
Stiles and top rail	4 9/16"
Intermediate rails	4 1/2"
Bottom rail	9 3/8"

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

Size of door	Size of glass
2'6"x6'6"	21 5/8"x32"
2'8"x6'8"	23 5/8"x34"
2'10"x6'10"	25 5/8"x36"
3'0"x7'0"	27 5/8"x38'

Beads for glass included.

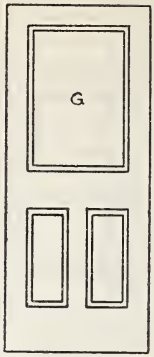
F 44



Stiles and top rail	4 9/16"
Lock rail	8"
Muntins	4 1/2"
Bottom rail	9 3/8"
Height from floor to top of lock rail	36 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



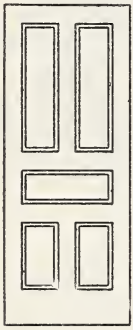
Stiles and top rail	4 9/16"
Lock rail	8"
Muntins	4 1/2"
Bottom rail	9 3/8"

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

Size of door	Size of glass
2'6" x 6'6"	21 5/8" x 38"
2'8" x 6'8"	23 5/8" x 40"
2'10" x 6'10"	25 5/8" x 42"
3'0" x 7'0"	27 5/8" x 44"

Beads for glass included.

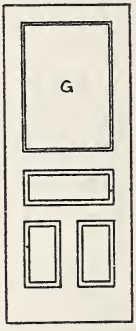
F 45



Stiles and top rail	4 9/16"
Intermediate rails and muntins	4 1/2"
Bottom rail	9 3/8"
Height from floor to top of upper cross rail	42 1/4"

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

F 145



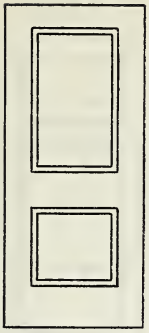
Stiles and top rail	4 9/16"
Intermediate rails and muntin	4 1/2"
Bottom rail	9 3/8"

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

Size of door	Size of glass
2'6" x 6'6"	21 5/8" x 32"
2'8" x 6'8"	23 5/8" x 34"
2'10" x 6'10"	25 5/8" x 36"
3'0" x 7'0"	27 5/8" x 38"

Beads for glass included.

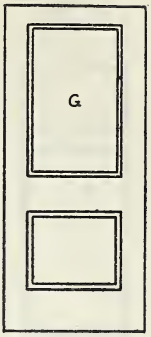
F 82



Stiles and top rail	4 9/16"
Lock rail	8"
Bottom rail	9 3/8"
Height to top of lock rail	36 1/2"

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

F 182



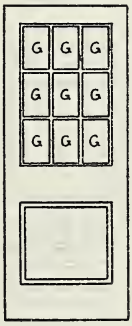
Stiles and top rail	4 9/16"
Lock rail	8"
Bottom rail	9 3/8"

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 5/8" x 38"
2'8" x 6'8"	23 5/8" x 40"
2'10" x 6'10"	25 5/8" x 42"
3'0" x 7'0"	27 5/8" x 44"

Beads for glass included.

F 982



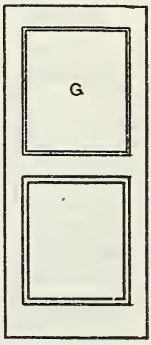
Stiles and top rail	4 9/16"
Lock rail	8"
Bottom rail	9 3/8"

Bars 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"	6 7/8" x 12 5/16"
2'8" x 6'8"	7 1/2" x 13"
2'10" x 6'10"	8 1/4" x 13 5/8"
3'0" x 7'0"	8 7/8" x 14 7/16"

Beads for glass included.

F 108
F 109



	F108	F109
Stiles	4 9/16"	5 3/8"
Top and lock rails	5 3/16"	5 3/16"
Bottom rail	9 3/16"	9 3/16"

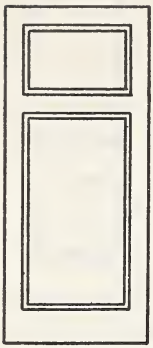
3-ply laminated flat panels. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Size of glass F108	Size of glass F109
2'6" x 6'6"	21 5/8" x 26"	20" x 26"
2'8" x 6'8"	23 5/8" x 28"	22" x 28"
2'10" x 6'10"	25 5/8" x 30"	24" x 30"
3'0" x 7'0"	27 5/8" x 32"	26" x 32"

Beads for glass included.

539907 O - 43 - 3

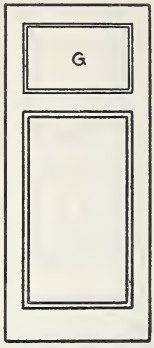
F28
F29



	F28	F29
Stiles and top rail	4 9/16″	5 3/8″
Lock rail	4 1/2″	5 3/4″
Bottom rail	9 3/8″	11 3/4″
Height from top of lock rail to top of door	22″	22 3/4″

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

F128
F129



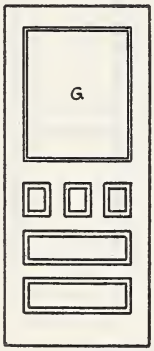
	F128	F129
Stiles and top rail	4 9/16″	5 3/8″
Lock rail	4 1/2″	5 3/4″
Bottom rail	9 3/8″	11 3/4″

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

Size of door	Size of glass F128	Size of glass F129
2′6″ x 6′6″	21 5/8″ x 18″	20″ x 18″
2′8″ x 6′8″	23 5/8″ x 18″	22″ x 18″
2′10″ x 6′10″	25 5/8″ x 18″	24″ x 18″
3′0″ x 7′0″	27 5/8″ x 18″	26″ x 18″

Beads for glass included.

F152



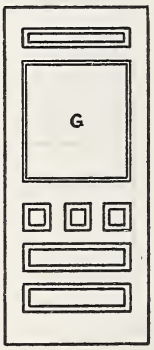
Stiles	4 9/16″
Top and lock rails	5 3/8″
Intermediate rails and muntins	3 3/8″
Bottom rail	9 3/8″

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 5/8″ x 32″
2′8″ x 6′8″	23 5/8″ x 34″
2′10″ x 6′10″	25 5/8″ x 36″
3′0″ x 7′0″	27 5/8″ x 38″

Beads for glass included.

F154



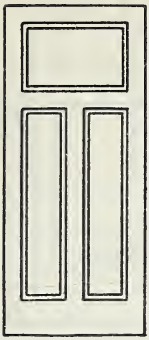
Stiles	4 9/16″
Top and lock rails	5 3/8″
Intermediate rails and muntins	3 3/8″
Bottom rail	9 3/8″

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 5/8″ x 24″
2′8″ x 6′8″	23 5/8″ x 26″
2′10″ x 6′10″	25 5/8″ x 28″
3′0″ x 7′0″	27 5/8″ x 30″

Beads for glass included.

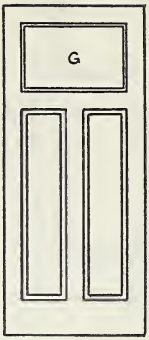
F62



Stiles and top rail ..... 4 9/16"
Lock rail and muntin ..... 4 1/2"
Bottom rail ..... 9 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 9/16"
Lock rail and muntin ..... 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* and *B* only. Sticking: Standard.

Size of door	Size of glass
2'6" x 6'6"	21 5/8" x 18"
2'8" x 6'8"	23 5/8" x 18"
2'10" x 6'10"	25 5/8" x 18"
3'0" x 7'0"	27 5/8" x 18"

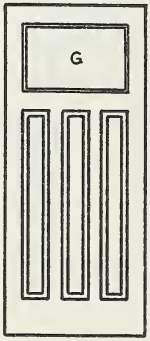
Beads for glass included.

F63

Stiles and top rail ..... 4 9/16"
Lock rail ..... 4 1/2"
Muntins ..... 3 1/4"
Bottom rail ..... 9 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.

F163

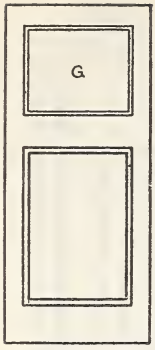


Stiles and top rail ..... 4 9/16"
Lock rail ..... 4 1/2"
Muntins ..... 3 1/4"
Bottom rail ..... 9 3/8"

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

Size of door	Size of glass
2'6" x 6'6"	21 5/8" x 18"
2'8" x 6'8"	23 5/8" x 18"
2'10" x 6'10"	25 5/8" x 18"
3'0" x 7'0"	27 5/8" x 18"

Beads for glass included.

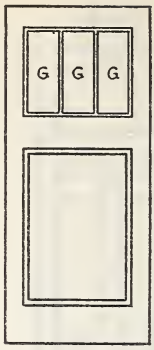


	F110	F111
Stiles	4 9/16"	5 3/8"
Top rail	5 3/8"	5 3/8"
Lock rail	8"	8"
Bottom rail	9 3/8"	9 3/8"

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

Size of door	Size of glass F110	Size of glass F111
2'6" x 6'6"	21 5/8" x 22"	20" x 22"
2'8" x 6'8"	23 5/8" x 22"	22" x 22"
2'10" x 6'10"	25 5/8" x 22"	24" x 22"
3'0" x 7'0"	27 5/8" x 22"	26" x 22"

Beads for glass included.

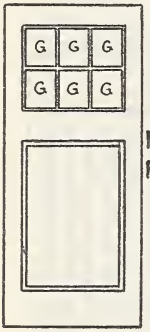


	F310	F311
Stiles	4 9/16"	5 3/8"
Top rail	5 3/8"	5 3/8"
Lock rail	8"	8"
Bottom rail	9 3/8"	9 3/8"

Bars ½" between glass. 3-ply laminated flat panel. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Size of glass F310	Size of glass F311
2'6" x 6'6"	6 7/8" x 22"	6 5/16" x 22"
2'8" x 6'8"	7 1/2" x 22"	6 15/16" x 22"
2'10" x 6'10"	8 1/4" x 22"	7 9/16" x 22"
3'0" x 7'0"	8 7/8" x 22"	8 1/4" x 22"

Beads for glass included.

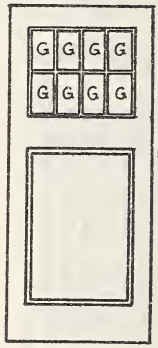


	F610	F611
Stiles	4 9/16"	5 3/8"
Top rail	5 3/8"	5 3/8"
Lock rail	8"	8"
Bottom rail	9 3/8"	9 3/8"

Bars ½" between glass. 3-ply laminated flat panel. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Size of glass F610	Size of glass F611
2'6" x 6'6"	6 7/8" x 10 3/4"	6 5/16" x 10 3/4"
2'8" x 6'8"	7 1/2" x 10 3/4"	6 15/16" x 10 3/4"
2'10" x 6'10"	8 1/4" x 10 3/4"	7 9/16" x 10 3/4"
3'0" x 7'0"	8 7/8" x 10 3/4"	8 1/4" x 10 3/4"

Beads for glass included.



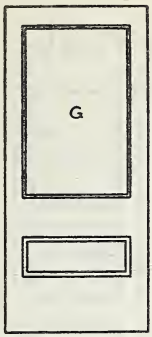
	F810	F811
Stiles	4 9/16"	5 3/8"
Top rail	5 3/8"	5 3/8"
Lock rail	8"	8"
Bottom rail	9 3/8"	9 3/8"

Bars ½" between glass. 3-ply laminated flat panel. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Size of glass F810	Size of glass F811
2'6" x 6'6"	5" x 10 3/4"	4 5/8" x 10 3/4"
2'8" x 6'8"	5 1/2" x 10 3/4"	5 1/8" x 10 3/4"
2'10" x 6'10"	6" x 10 3/4"	5 5/8" x 10 3/4"
3'0" x 7'0"	6 1/2" x 10 3/4"	6 1/8" x 10 3/4"

Beads for glass included.

F147



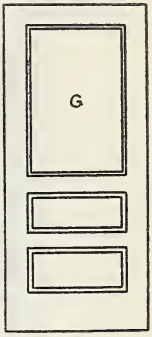
Stiles and top rail	5⅜″
Lock rail	9⅜″
Bottom rail	11⅜″

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″
2′10″ x 6′10″	24″ x 48″
3′0″ x 7′0″	26″ x 50″

Beads for glass included.

F114



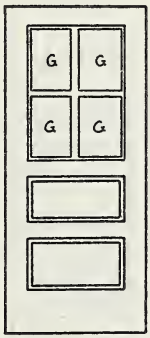
Stiles and top rail	4¹⁵⁄₁₆″
Intermediate rail	4½″
Lock rail	5″
Bottom rail	9⅜″

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″	21⅝″ x 36″
2′8″ x 6′8″	23⅝″ x 38″
2′10″ x 6′10″	25⅝″ x 40″
3′0″ x 7′0″	27⅝″ x 42″

Beads for glass included.

F415



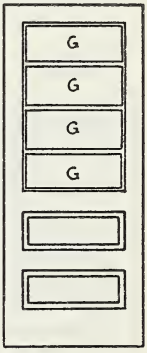
Stiles and top rail	4¹⁵⁄₁₆″
Lock and intermediate rails	4½″
Bottom rail	9⅜″

Bars ½″ 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″	10⅝″ x 18″
2′8″ x 6′8″	11⅝″ x 19″
2′10″ x 6′10″	12⅝″ x 20″
3′0″ x 7′0″	13⅝″ x 21″

Beads for glass included.

F415H



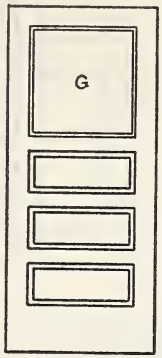
Stiles and top rail	4¹⁵⁄₁₆″
Lock and intermediate rails	4½″
Bottom rail	9⅜″

Bars ½″ between glass. 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″	21⅝″ x 8¾″
2′8″ x 6′8″	23⅝″ x 9¼″
2′10″ x 6′10″	25⅝″ x 9¾″
3′0″ x 7′0″	27⅝″ x 10¼″

Beads for glass included.

F 214
F119 (5X Panel Layout)



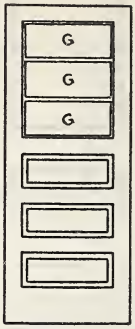
Stiles and top rail	4 9/16"
Lock and intermediate rails	4 1/2"
Bottom rail	9 3/4"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades *A*, *B*, *C*, and 1⅛" millrun. Sticking: Standard.

Size of door	Size of glass F214	Size of glass F119
2'6" x 6'6"	21 5/8" x 24"	21 5/8" x 23 7/8"
2'8" x 6'8"	23 5/8" x 26"	23 5/8" x 24 5/8"
2'10" x 6'10"	25 5/8" x 28"	25 5/8" x 25 5/8"
3'0" x 7'0"	27 5/8" x 30"	27 5/8" x 26"

Beads for glass included.

F 214H



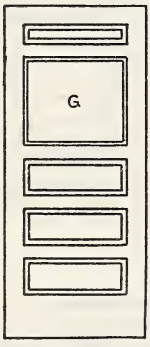
Stiles and top rail	4 9/16"
Lock and intermediate rails	4 1/2"
Bottom rail	9 3/4"

Bars ½" between glass. 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 5/8" x 7 3/4"
2'8" x 6'8"	23 5/8" x 8 3/8"
2'10" x 6'10"	25 5/8" x 9"
3'0" x 7'0"	27 5/8" x 9 3/4"

Beads for glass included.

F 117



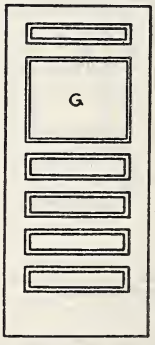
Stiles	4 9/16"
Top and lock rails	5 3/8"
Intermediate rails	3 3/8"
Bottom rail	9 3/8"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades *A*, *B*, *C*, and 1⅛" millrun. Sticking: Standard.

Size of door	Size of glass
2'6" x 6'6"	21 5/8" x 24"
2'8" x 6'8"	23 5/8" x 26"
2'10" x 6'10"	25 5/8" x 28"
3'0" x 7'0"	27 5/8" x 30"

Beads for glass included.

F 117½



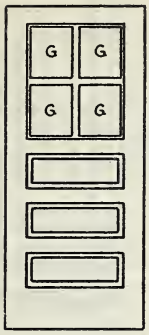
Stiles	4 9/16"
Top and lock rails	5 3/8"
Intermediate rails	3 3/8"
Bottom rail	9 3/8"

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 22"
2'8" x 6'8"	23 5/8" x 24"
2'10" x 6'10"	25 5/8" x 26"
3'0" x 7'0"	27 5/8" x 28"

Beads for glass included.

F416



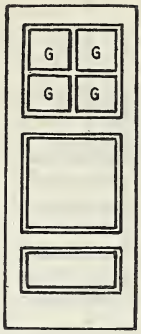
Stiles and top rail	4⁹⁄₁₆″
Lock rail	5⅜″
Intermediate rails	4½″
Bottom rail	9⅜″

Bars ½″ 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″	10⅝″ x 15″
2′8″ x 6′8″	11⅝″ x 16″
2′10″ x 6′10″	12⅝″ x 17″
3′0″ x 7′0″	13⅝″ x 18″

Beads for glass included.

F453



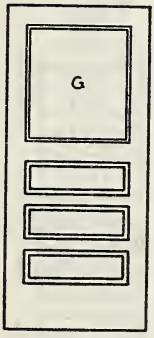
Stiles and top rail	4⁹⁄₁₆″
Intermediate rails	4½″
Bottom rail	9⅜″

Bars ½″ between glass. 3-ply laminated flat panels. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Size of glass
2′6″ x 6′6″	10½″ x 11½″
2′8″ x 6′8″	11½″ x 12″
2′10″ x 6′10″	12½″ x 12⁵⁄₁₆″
3′0″ x 7′0″	13½″ x 12¾″

Beads for glass included.

F118



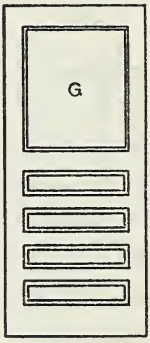
Stiles	4⅜″
Top and lock rails	5⅜″
Intermediate rails	3⅜″
Bottom rail	9⅜″

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in grades *A*, *B*, *C*, and 1⅛″ millrun. Sticking: Standard.

Size of door	Size of glass
2′6″ x 6′6″	21⅝″ x 32″
2′8″ x 6′8″	23⅝″ x 34″
2′10″ x 6′10″	25⅝″ x 36″
3′0″ x 7′0″	27⅝″ x 38″

Beads for glass included

F118½



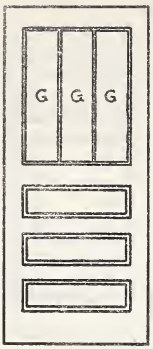
Stiles	4⁹⁄₁₆″
Top and lock rails	5⅜″
Intermediate rails	3⅜″
Bottom rail	9⅜″

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″	21⅝″ x 30″
2′8″ x 6′8″	23⅝″ x 32″
2′10″ x 6′10″	25⅝″ x 34″
3′0″ x 7′0″	27⅝″ x 36″

Beads for glass included.

F 318



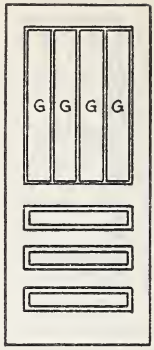
Stiles	4 9/16"
Top and lock rails	5 5/16"
Intermediate rails	3 3/16"
Bottom rail	9 3/8"

Bars ½" 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 7/8" x 32"
2'8" x 6'8"	7 1/2" x 34"
2'10" x 6'10"	8 1/4" x 36"
3'0" x 7' 0"	8 7/8" x 38"

Beads for glass included.

F418



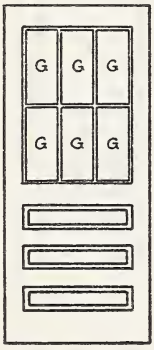
Stiles	4 9/16"
Top and lock rails	5 5/16"
Intermediate rails	3 3/16"
Bottom rail	9 3/8"

Bars ½" 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 1/2" x 34"
2'10" x 6'10"	6" x 36"
3'0" x 7'0"	6 1/2" x 38"

Beads for glass included.

F618



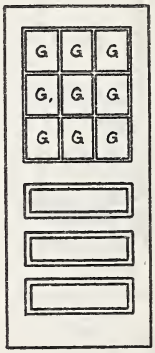
Stiles	4 9/16"
Top and lock rails	5 5/16"
Intermediate rails	3 3/16"
Bottom rail	9 3/8"

Bars ½" 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 7/8" x 15 3/4"
2'8" x 6'8"	7 1/2" x 16 3/4"
2'10" x 6'10"	8 1/4" x 17 3/4"
3'0" x 7'0"	8 7/8" x 18 3/4"

Beads for glass included.

F 918



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

Bars ½" 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 7/8" x 10 5/16"
2'8" x 6'8"	7 1/2" x 11"
2'10" x 6'10"	8 1/4" x 11 5/8"
3'0" x 7'0"	8 7/8" x 12 5/16"

Beads for glass included.

F35
F36
F37

	F35	F36	F37
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	18 3/8"

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

Size of door	Sizes of glass F35	F36	F37
2'6"x6'6"	21 5/8"x64 13/16"	20"x62"	20"x54"
2'8"x6'8"	23 5/8"x66 13/16"	22"x64"	22"x56"
2'10"x6'10"	25 5/8"x68 13/16"	24"x66"	24"x58"
3'0"x7'0"	27 5/8"x70 13/16"	26"x68"	26"x60"

Beads for glass included.

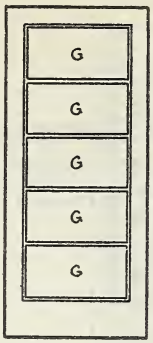
F 935 M
F 936 M
F 937 M

	F935M	F936M	F937M
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	1 3/8"

Bars ½" between glass. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Sizes of glass (in inches) F935M		
2'6"x6'6"	5x5	5x53 3/4	5x10 1/2	10 1/2x53 3/4
2'8"x6'8"	5x5	5x55 3/4	5x12 1/2	12 1/2x55 3/4
2'10"x6'10"	5x5	5x57 3/4	5x14 1/2	14 1/2x57 3/4
3'0"x7'0"	5x5	5x59 3/4	5x16 1/2	16 1/2x59 3/4
		F936M		
2'6"x6'6"	5x5	5x50 7/8	5x8 7/8	8 7/8x50 7/8
2'8"x6'8"	5x5	5x52 7/8	5x10 7/8	10 7/8x52 7/8
2'10"x6'10"	5x5	5x54 7/8	5x12 7/8	12 7/8x54 7/8
3'0"x7'0"	5x5	5x56 7/8	5x14 7/8	14 7/8x56 7/8
		F937M		
2'6"x6'6"	5x5	5x42 7/8	5x8 7/8	8 7/8x42 7/8
2'8"x6'8"	5x5	5x44 7/8	5x10 7/8	10 7/8x44 7/8
2'10"x6'10"	5x5	5x46 7/8	5x12 7/8	12 7/8x46 7/8
3'0"x7'0"	5x5	5x48 7/8	5x14 7/8	14 7/8x48 7/8

Beads for glass included.



F 535
F 536
F 537

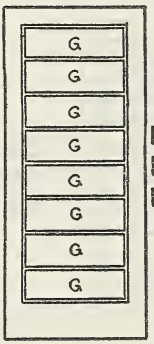
	F535	F536	F537
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	18 3/8"

Bars ½" between glass. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Sizes of glass F535	F536
2'6"x6'6"	21 5/8"x12 1/2"	20"x11 15/16"
2'8"x6'8"	23 5/8"x12 15/16"	22"x12 5/16"
2'10"x6'10"	25 5/8"x13 5/16"	24"x12 3/4"
3'0"x7'0"	27 5/8"x13 3/4"	26"x13 1/8"

	F537
2'6"x6'6"	20"x10 5/16"
2'8"x6'8"	22"x10 3/4"
2'10"x6'10"	24"x11 1/8"
3'0"x7'0"	26"x11 9/16"

Beads for glass included.



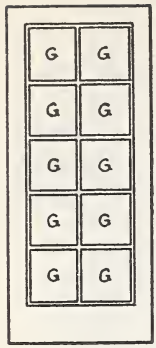
F 835
F 836
F 837

	F835	F836	F837
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	18 3/8"

Bars ½" between glass. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door	Sizes of glass F835	F836	F837
2'6"x6'6"	21 5/8"x7 7/8"	20"x7 1/4"	20"x6 1/4"
2'8"x6'8"	23 5/8"x7 7/8"	22"x7 1/2"	22"x6 1/2"
2'10"x6'10"	25 5/8"x8 1/8"	24"x7 3/4"	24"x6 3/4"
3'0"x7'0"	27 5/8"x8 3/8"	26"x8"	26"x7"

Beads for glass included.



F 1035
F 1036
F 1037

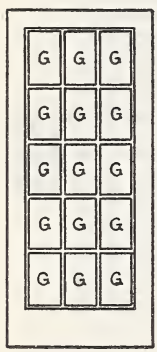
	F1035	F1036	F1037
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	18 3/8"

Bars ½" between glass. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door (same for 3 designs)	Sizes of glass (in inches) F1035
2'6" x 6'6"	10 1/2 x 12 1/2
2'8" x 6'8"	11 1/2 x 12 7/8
2'10" x 6'10"	12 1/2 x 13 5/16
3'0" x 7'0"	13 1/2 x 13 3/4

Size of door (same for 3 designs)	Sizes of glass (in inches) F1036	F1037
2'6" x 6'6"	9 11/16 x 11 7/8	9 11/16 x 10 5/16
2'8" x 6'8"	10 11/16 x 12 5/16	10 11/16 x 10 3/4
2'10" x 6'10"	11 11/16 x 12 3/4	11 11/16 x 11 3/16
3'0" x 7'0"	12 11/16 x 13 3/16	12 11/16 x 11 9/16

Beads for glass included.



F 1535
F 1536
F 1537

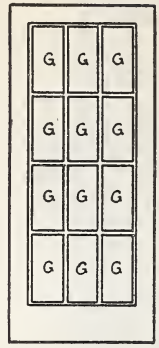
	F1535	F1536	F1537
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	18 3/8"

Bars ½" between glass. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door (same for 3 designs)	Sizes of glass (in inches) F1536
2'6" x 6'6"	6 13/16 x 12 1/2
2'8" x 6'8"	7 1/16 x 12 7/8
2'10" x 6'10"	8 1/16 x 13 5/16
3'0" x 7'0"	8 13/16 x 13 3/4

Size of door (same for 3 designs)	Sizes of glass (in inches) F1536	F1537
2'6" x 6'6"	6 5/16 x 11 7/8	6 5/16 x 10 3/8
2'8" x 6'8"	6 15/16 x 12 5/16	6 15/16 x 10 3/4
2'10" x 6'10"	7 9/16 x 12 3/4	7 9/16 x 11 3/16
3'0" x 7'0"	8 1/4 x 13 3/16	8 1/4 x 11 9/16

Beads for glass included.



F 1235
F 1236
F 1237

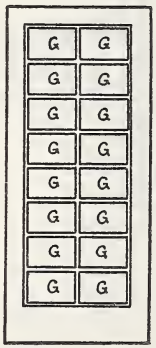
	F1235	F1236	F1237
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	18 3/8"

Bars ½" between glass. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door (same for 3 designs)	Sizes of glass (in inches) F1235
2'6" x 6'6"	6 13/16 x 15 11/16
2'8" x 6'8"	7 1/16 x 16 1/4
2'10" x 6'10"	8 1/16 x 16 3/4
3'0" x 7'0"	8 13/16 x 17 1/4

Size of door (same for 3 designs)	Sizes of glass (in inches) F1236	F1237
2'6" x 6'6"	6 5/16 x 15 1/16	6 5/16 x 13 1/16
2'8" x 6'8"	6 15/16 x 15 9/16	6 15/16 x 13 9/16
2'10" x 6'10"	7 9/16 x 16 1/16	7 9/16 x 14 1/16
3'0" x 7'0"	8 1/4 x 16 9/16	8 1/4 x 14 9/16

Beads for glass included.



F 1635
F 1636
F 1637

	F1635	F1636	F1637
Stiles	4 9/16"	5 3/8"	5 3/8"
Top rail	4 9/16"	5 3/8"	6 3/8"
Bottom rail	9 3/8"	11 3/8"	18 3/8"

Bars ½" between glass. Furnished in grades *A* and *B* only. Sticking: Standard.

Size of door (same for 3 designs)	Sizes of glass (in inches) F1635
2'6" x 6'6"	10 1/2 x 7 5/8
2'8" x 6'8"	11 1/2 x 7 7/8
2'10" x 6'10"	12 1/2 x 8 1/8
3'0" x 7'0 '	13 1/2 x 8 3/8

Size of door (same for 3 designs)	Sizes of glass (in inches) F1636	F1637
2'6" x 6'6"	9 11/16 x 7 1/4	9 11/16 x 6 1/4
2'8" x 6'8"	10 11/16 x 7 1/2	10 11/16 x 6 1/2
2'10" x 6'10"	11 11/16 x 7 3/4	11 11/16 x 6 3/4
3'0" x 7'0"	12 11/16 x 8	12 11/16 x 7

Beads for glass included.

SIDELIGHTS

F035

F0535

F0635M

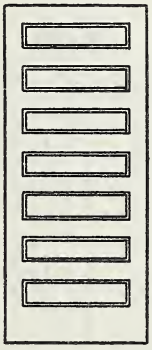
Stiles	Not over 2½" wide.
Top rail	Not over 6½" wide.
Bottom rail	Not over 18½" wide.

Top and bottom rails made same width as in doors with which they are used. Bars ½" between glass. Furnished in grade *A* only. Sticking: Standard.

Beads for glass included.

STORM DOORS

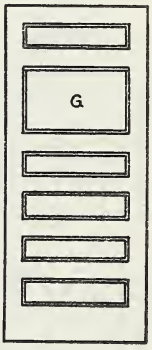
FS7



Stiles and top rail	4 9/16"
Intermediate rails	4½"
Bottom rail	9 3/8"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in 1⅛" millrun grade only. Sticking: Standard.

FS07



Stiles and top rail	4 9/16"
Intermediate rails	4½"
Bottom rail	9 3/8"

3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Furnished in 1⅛" millrun grade only. Sticking: Standard.

Size of door	Size of glass
2'6½" x 6'7"	22" x 16⅛"
2'8½" x 6'9"	24" x 16¾"
2'10½" x 6'11"	26" x 17½"
3'½" x 7'1"	28" x 18 1/16"

Beads for glass included.

Storm doors made ½" over in width and 1" over in length than corresponding standard size openings.

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″

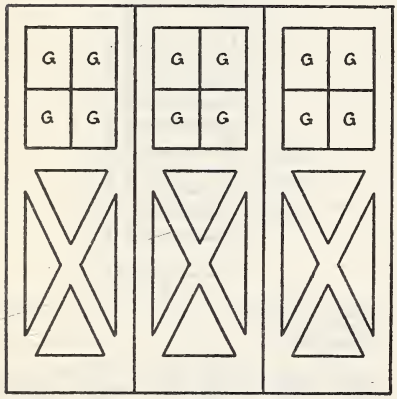
F05 doors are made as below:

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 be furnished with raised panels.
Cupboard doors made in *B* and better grade only.
Sticking: Standard

GARAGE DOORS

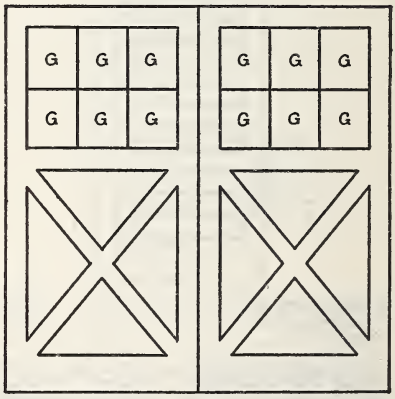
F491



Stiles..... 4⁹⁄₁₆″
Top and lock rails..... 5⅜″
Bottom rail..... 9⅜″

Vertical bars ⅝″ between glass. Horizontal bars 1″ between glass. Ceiling panels. Cross braces screwed on. Sticking: Standard. Beads for glass included.

F691

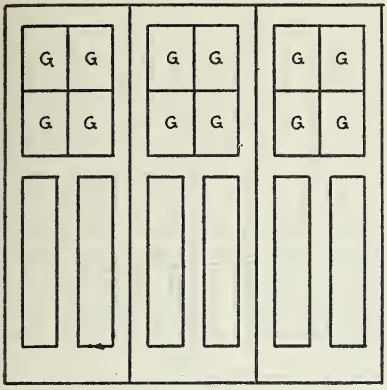


Stiles, top and lock rails..... 5⅜″
Bottom rail..... 9⅜″

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 28.

F493

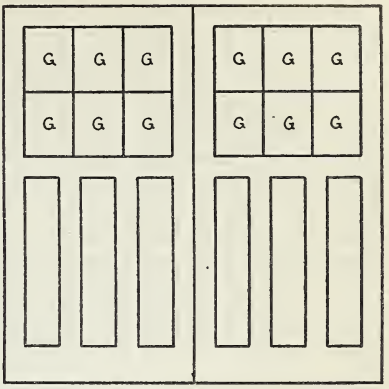


Stiles ..... 4 9/16"
Top and lock rails ..... 5 3/8"
Muntin ..... 5 3/8"
Bottom rail ..... 9 3/8"
Vertical bars, 5/8" between glass.
Horizontal bars, 1" between glass.

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

Beads for glass included.

F693

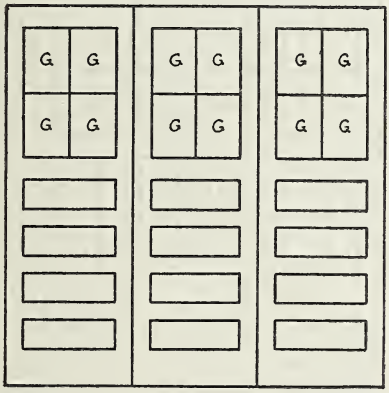


Stiles, top and lock rails ..... 5 3/8"
Muntins ..... 5 3/8"
Bottom rail ..... 9 3/8"
Vertical and horizontal bars, 1" between glass.

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

Beads for glass included.

F495

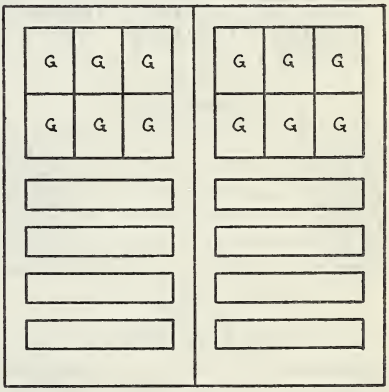


Stiles ..... 4 9/16"
Top and lock rails ..... 5 3/8"
Intermediate rails ..... 4 1/2"
Bottom rail ..... 9 3/8"
Vertical bars, 5/8" between glass.
Horizontal bars, 1" between glass.

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

Beads for glass included.

F695



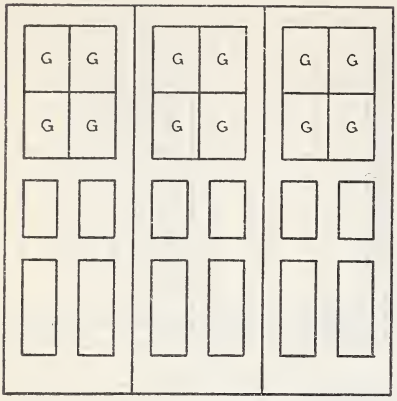
Stiles, top and lock rails ..... 5 3/8"
Intermediate rails ..... 4 1/2"
Bottom rail ..... 9 3/8"
Vertical and horizontal bars, 1" between glass.

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 28.

F496

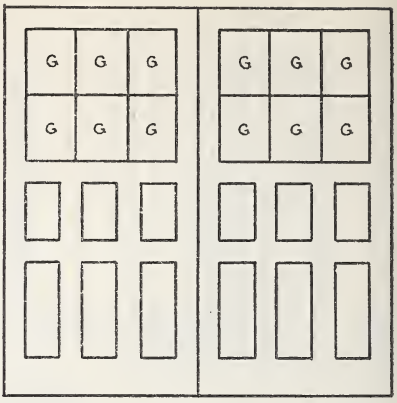


Stiles ..... 4 9/16"
Top and lock rails ..... 5 3/8"
Intermediate rail and muntins ..... 5 3/8"
Bottom rail ..... 9 3/8"
Height of top panels 9 5/8", shoulder to shoulder.

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 ABOVE

SETS

4 lights per door

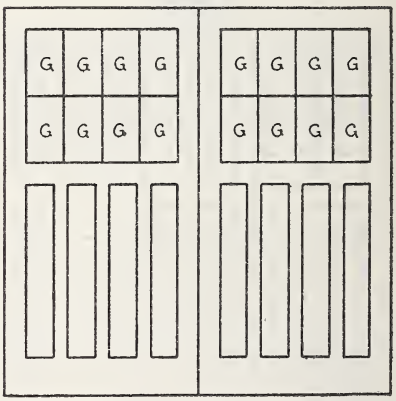
Size of door	Size of glass
2'0"x7'6"	9 1/2"x16"
2'0"x8'0"	9 1/2"x16"
2'6"x7'0"	10 1/2"x13"
2'6"x7'6"	10 1/2"x16"
2'6"x8'0"	10 1/2"x16"
2'8"x7'0"	11 1/2"x13"
2'8"x7'6"	11 1/2"x16"
2'8"x8'0"	11 1/2"x16"

PAIRS

6 lights per door

Size of door	Size of glass
3'6"x7'0"	10"x13"
3'6"x7'6"	10"x16"
3'6"x8'0"	10"x16"
3'9"x7'0"	11"x13"
3'9"x7'6"	11"x16"
3'9"x8'0"	11"x16"
4'0"x7'0"	12"x13"
4'0"x7'6"	12"x16"
4'0"x8'0"	12"x16"

F894



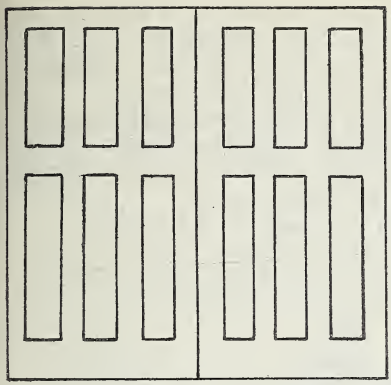
Stiles, top and lock rails ..... 5 3/8"
Muntins ..... 3 1/4"
Bottom rail ..... 9 3/8"

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"x7'0"	7 1/2"x13"
3'6"x7'6" & 3'6"x8'0"	7 1/2"x16"
3'9"x7'0"	8 3/16"x13"
3'9"x7'6" & 3'9"x8'0"	8 3/16"x16"
4'0"x7'0"	9"x13"
4'0"x7'6" & 4'0"x8'0"	9"x16"

Beads for glass included.

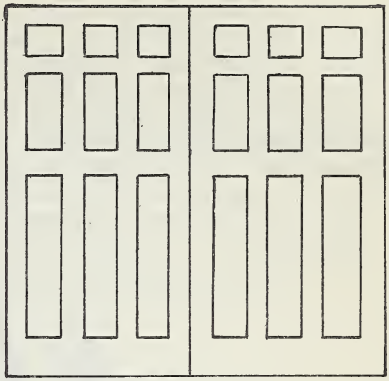
F093



Stiles, top and lock rails ..... 5⅜″
Muntins ..... 5⅜″
Bottom rail ..... 9⅜″

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

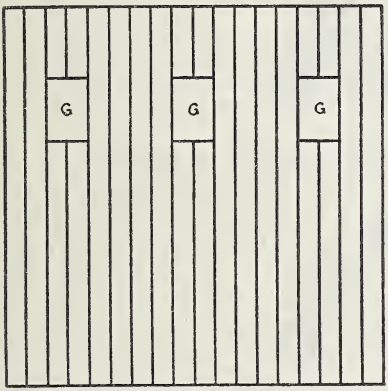
F099



Stiles, top and lock rails ..... 5⅜″
Intermediate rails and muntin ..... 5⅜″
Bottom rail ..... 9⅜″

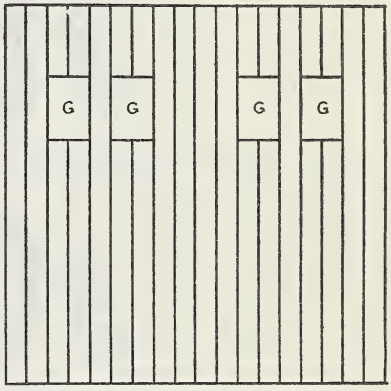
3-ply laminated flat panels. Can also be furnished with raised panels, if desired. Sticking: Standard.

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 10⅝″x16″, 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 1¾″ thickness only.

F290



V.G. flush garage door in pairs, with standard glass openings, as shown, or without glass openings (blank).
Each side of each door with 9 batts ("V" ceiling strips) wide, 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 10⅝″x16″, 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 1¾″ thickness only.

GRADE MARKING

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

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

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

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

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

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

EFFECTIVE DATE

The standard is effective for new production from June 15, 1943.

STANDING COMMITTEE

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

Manufacturers:

W. P. Woolley (chairman), M and M Wood Working Co., Portland, Oreg.
Henry L. Mertz, Buffelen Lumber and Manufacturing Co., Tacoma, Wash.
N. O. Cruver, Wheeler Osgood Sales Corporation, Tacoma, Wash.
D. C. Salley, Northwest Door Co., Tacoma, Wash.

Distributors:

C. F. Knecht, W. P. Fuller and Co., Tacoma, Wash.
Fred Tibbetts, Brockway-Smith-Haigh-Lovell Co., Boston, Mass.
Lionel Ray, Huttig Sash and Door Co., 1000–1300 S. Vandeventer Ave., St. Louis, Mo.
Don A. Campbell, Bonner Campbell Co., Lebanon, Ky., Representing National Retail Lumber Dealers Association.
George W. LaPointe, Jr., O. and N. Lumber Co., 620 Main St., Menominee, Wis.

Users:

H. P. Vermilya, Technical Division, Federal Housing Administration, Washington, D. C.
Theodore Irving Coe, The American Institute of Architects, The Octagon, 1741 New York Ave., Washington, D. C.
Nelson J. Morrison, Room 228, Perkins Bldg., Tacoma, Wash., Representing The American Institute of Architects.

HISTORY OF PROJECT

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

FIRST REVISION

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.

Following acceptance by a satisfactory majority, the success of the revision was announced on May 15, 1943.

ACCEPTANCE OF COMMERCIAL STANDARD

This sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date_____

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

Gentlemen:

Having considered the statements on the reverse side of this sheet, we accept the Commercial Standard CS 73–43 as our standard of practice in the

Production [1] Distribution [1] Use [1]

of old growth Douglas fir standard stock doors.

We will assist in securing its general recognition and use, and will cooperate with the standing committee to effect revisions of the standard when necessary.

Signature of individual officer_____
(In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer_____

Company_____
(Fill in exactly as it should be listed in pamphlet)

Street address_____

City and State_____

[1] Please designate which group you represent by drawing lines through the other two. Please file separate acceptances for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval, the words "in principle" should be added after the signature.

Cut on this line

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 the industry. 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 industry 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 branches of the industry 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 companies representing a satisfactory majority of production, the success of the project is announced. If, however, in the opinion of the standing committee of the industry or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

ACCEPTORS

The organizations and individuals listed below have accepted these grading specifications as their standard of practice in the production, distribution, and use of Douglas fir stock doors. Such endorsement does not signify that they may not find it necessary to deviate from the standard, nor that producers so listed guarantee all of their products in this field to conform with the requirements of this standard. Therefore, specific evidence of quality certification should be obtained where required.

ASSOCIATONS

American Specification Institute, Chicago, Ill.
Arizona Retail Lumber & Builders Supply Association, Inc., Phoenix, Ariz.
Associated General Contractors of America, Inc., Washington, D. C.
Associated General Contractors of Massachusetts, Inc., Boston, Mass.
Carolina Lumber & Building Supply Association, Charlotte, N. C. (In Principle.)
Douglas Fir Plywood Association, Tacoma, Wash.
Fir Door Institute, Tacoma, Wash.
Michigan Retail Lumber Dealers, Lansing, Mich.
National Hardwood Lumber Association, Chicago, Ill. (In Principle.)
New York Lumber Trade Association, New York, N. Y.
Southern California Retail Lumber Association, San Diego, Calif.
Southern Hardwood Producers, Inc., Memphis, Tenn. (In Principle.)
West Coast Lumbermen's Association, Seattle, Wash. (In Principle.)
Wisconsin Retail Lumbermen's Association, Milwaukee, Wis.

FIRMS

Acme Door Co., Hoquiam, Wash.
Addison-Rudesal Co., Atlanta, Ga.
Adkins & Co., E. S., Salisbury, Md.
Allan Lumber Co., Inc., Greencastle, Ind.
Allen Lumber Co., Elwood, Philadelphia, Pa.
Altfillisch, Charles, Decorah, Iowa.
American Forest Products Corporation, New York, N. Y.
American Houses, Inc., New York, N. Y.
American Sash & Door Co., Kansas City, Mo.
Andrews Lumber Co., C. E., New Bethlehem, Pa.
Angelina County Lumber Co., Keltys, Tex.
Arizona Sash Door & Glass Co., Phoenix Ariz. and Tucson, Ariz.
Arkmo Lumber Co., The, Little Rock, Ark.
Ashton Co., C. J., Detroit, Mich.
Bahe Co., Inc., Edward J., Chicago, Ill.
Baltimore, Bureau of Plans & Surveys of, Baltimore, Md.
Bardwell-Robinson Co., Fargo, N. Dak
Barkhorn Co., Wm. H., Newark, N. J.
Barnes Lumber Co., W. F. & J. F., Waco, Tex.
Barr & Collins, Forest Park, Ill.
Beasley & Sons Co., Nashville, Tenn.
Becker Coal & Builders Supply Co., Wilmington, N. C.
Becker-Danowitz Co., Inc., Brooklyn, N. Y.
Bell Manufacturing Co., Inc., C. C., West Monroe, La.
Bennett-Bailey Lumber Co., Minneapolis, Minn.
Beresford, Robert F., Washington, D. C.
Berger, F. E.-R. L. Kelley, Champaign, Ill.
Beuttler, Wm., Sioux City, Iowa.
Billings Sash & Door Co., Billings, Mont.
Binswanger & Co., Inc., Richmond, Va.
Birmingham Sash & Door Co., Birmingham, Ala.
Bishop, Horatio W., La Mesa, Calif.
Blake, Edgar Ovet, Evanston, Ill.
Blithe, Wesley Lesher, Philadelphia, Pa.
Bloedel-Donovan Lumber Mills, Bellingham, Wash.
Boehm, George A., New York, N. Y.
Bohnhoff Lumber Co., Inc., Los Angeles, Calif.
Borland Lumber Co., Oil City, Pa.
Bosman & Casson, Harrison, N. J.
Bovard, William R., Kansas City, Mo.
Braseth & Houkom, Fargo, N. Dak.
Brazer, Clarence W., New York, N. Y.
Brew Manufacturing Co., Puyallup, Wash.
Bristol Door & Lumber Co., Bristol, Va.
Brittain & Cannon Co., Watertown, Mass.
Brockway-Smith-Haigh-Lovell Co., Boston, Mass.
Brown-Graves Co., Akron, Ohio.
Brust & Brust, Milwaukee, Wis.
Buckley Door Co., F. S., San Francisco, Calif.
Bucky, Fred W., Jr., Jacksonville, Fla.

Buffalo Plywood Corporation, Buffalo, N. Y.
Buffelen Lumber & Manufacturing Co., Tacoma, Wash., Fort Worth, Tex., and Detroit, Mich.
Builders Supply Co., Bismarck, N. Dak.
Building Service, Inc., Great Falls, Mont.
Building Supplies Corporation, Norfolk, Va.
Burritt Co., The A. W., Bridgeport, Conn.
Byron Sash & Door Co., Inc., Louisville, Ky.
C. & M. Construction Co., Inc., Philadelphia, Pa.
C–W Plywood Co., Chicago, Ill.
California Builders Supply Co., Ltd., Oakland, Calif.
California Door Co., The, Los Angeles, Calif.
Cameron & Co., Inc., Wm., Waco, Tex.
Cameron Lumber Co., Inc., Newburgh, N. Y.
Camlet, J. Thomas, Passaic, N. J.
Camp Plywood Co., Inc., The E. W., Indianapolis, Ind.
Cannon & Mullen, Salt Lake City, Utah.
Carroll, John, Ventnor, N. J.
Carroll Lumber Co., Inc., The, Alexandria, La.
Cavalier Corporation, Chattanooga, Tenn.
Cavanagh Lumber Co., Petaluma, Calif.
Cellar Lumber Co., Westerville, Ohio.
Central Glazing Co., Fort Worth, Tex.
Central Jersey Wholesale Supply Co., Trenton, N. J.
Central Wholesale Co., Inc., Shreveport, La.
Cervin & Stuhr, Rock Island, Ill.
Chapin, Rollin C., Minneapolis, Minn. (In Principle.)
Chapin Lumber Co., The, Aurora, Colo.
Charlottesville Lumber Co., Inc., Charlottesville, Va.
Chase Lumber Co., S. H., San Jose, Calif.
Chicago & Riverdale Lumber Co., Chicago, Ill.
Chicago, Rock Island & Pacific Railway Co., Chicago, Ill.
Christmann Veneer & Lumber Co., St. Louis, Mo.
Cincinnati Sash & Door Co., The, Cincinnati, Ohio.
Clark Venner Co., Walter, Grand Rapids, Mich.
Cleary Millwork Co., Inc., Ansonia, Conn.
Cleveland Window Glass & Door Co., Cleveland, Ohio.
Collier-Barnett Co., The, Toledo, Ohio.
Combs Lumber Co., Inc., Lexington, Ky.
Connecticut, State of, Supervisor of Purchases, Hartford, Conn.
Conrad & Cummings, Binghamton, N. Y.
Conwell & Co., E. L., Philadelphia, Pa. (In Principle.)
Coolbaugh & Son Co., C. C., Gloucester City, N. J.
Coolidge, Shepley, Bulfinch & Abbott, Boston, Mass.
Cordele Sash, Door & Lumber Co., Cordele, Ga.
Crawford Manufacturing Co., El Paso, Tex.
Cross Austin & Ireland Lumber Co., Brooklyn, N. Y.
Crowell & Lancaster, Bangor, Maine.
Curtis Co., Ros, Detroit, Mich.
Dakota Sash & Door Co., Aberdeen, S. Dak.
D'Arcy Co., Dover, N. H.
Davidson Sash & Door Co., Austin, Tex.
Davidson Sash & Door Co., Inc., Lake Charles, La.
Davis Hardwood Co., San Francisco, Calif.
Davis Millwork Co., Forty Fort, Pa.
De Jarnette, Charles Wagner, Des Moines, Iowa.
Dealers Wholesale Supply, Inc., Detroit, Mich.
Delehanty, Andrew L., Albany, N. Y.
Derr Co., Wm. H., Philadelphia, Pa.
Dibble Lumber Co., The S. B., North Adams, Mass.
Doddington Corporation, The, Columbus, Ohio.
Doerr, J. G., Boise, Idaho.
Donlin-Johnson Co., St. Cloud, Minn.
Dower Lumber Co., John, Tacoma, Wash.
Dunlap & Co., Inc., Columbus, Ind.
Dyke Bros., Fort Smith, Ark.
Dykes Lumber Co., New York, N. Y.
Elmer Co., J. O., San Francisco, Calif.
Elmer & Moody Co., Seattle, Wash.
Emery Industries, Inc., Cincinnati, Ohio.
Emmons-Hawkins Hardware Co., Huntington, W. Va.
Empire Millwork Co., Corona, N. Y.
Engler Millwork Corporation, Jersey City, N. J.
Erdelen, Arthur F., St. Louis, Mo. (In Principle.)
Estes Lumber Co., Birmingham, Ala.
Evans-Lee Co., Eau Claire, Wis.
Evans-MacArthur Co., New York, N. Y.
Exchange Lumber & Manufacturing Co., Spokane, Wash.
Fink & Schindler Co., The, San Francisco, Calif.
Fischer Lime & Cement Co., Memphis, Tenn.
Fish & Hunter Co., The, Rapid City, S. Dak.
Fitz-Gibbon, T. David, Norfolk, Va.
Flannagan, Eric G., Henderson, N. C.

Flint Sash & Door Co., Inc., Flint, Mich.
Florida, University of, Department of Architecture, Board of Control, Gainesville, Fla.
Folse, Edgar P., New Iberia, La.
Forrest Lumber Co., Lamesa, Tex.
Fort Wayne Builders Supply Co., Fort Wayne, Ind.
Fort Wayne Lumber Co., Fort Wayne, Ind.
Foster & Co., James P., Baltimore, Md.
Foster Lumber Co., R. S., Indianapolis, Ind.
Fuller & Co., W. P., Boise, Idaho, and other cities.
Galion Lumber Co., The, Galion, Ohio.
Gall, Harry L. C., New York, N. Y.
General Millwork Corporation, Utica, N. Y.
Georgeson, F. T., Eureka, Calif.
Gibson Door Co., The, Utica, N. Y.
Gilbert Co., Hawley, Portland, Oreg.
Ginsberg & Sons, Inc., D., Corona, N. Y.
Glasson Mill & Lumber Co., San Diego, Calif.
Gourley & Co., John, Highland Park, Ill.
Great Lakes Sash & Door Co., The, Cleveland, Ohio.
Griffin Manufacturing Co., A. T., Goldsboro, N. C.
Hahn, Stanley W., Silver Spring, Md.
Haley Bros., Santa Monica, Calif.
Hall-Gregg, Inc., Somerville, Mass.
Hannaford & Sons, Samuel, Cincinnati, Ohio.
Haralson & Mott, Fort Smith, Ark.
Harbor Plywood Corporation, Hoquiam, Wash., and other cities.
Harbor Sales Co., Inc., The, Baltimore, Md., and Washington, D. C.
Harrison Co., The W. H., Grand Island, Nebr.
Hartung Co., F. L., Seattle, Wash.
Hasness, Carlisle D., Harrisburg, Pa.
Hastings & Co., Inc., A. W., West Somerville, Mass.
Hawkins Lumber & Warehouse Co., Boston, Mass.
Haxby & Bissell, Minneapolis, Minn.
Helfensteller, Hirsch & Watson, St. Louis, Mo.
Heidritter Lumber Corporation, Elizabeth, N. J.
Henderlong Lumber Co., Inc., Crown Point, Ind.
Higgins Lumber Co., J. E., San Francisco, Calif.
Hilty-Forster Lumber Co., Milwaukee, Wis.
Hines Lumber Co., Edward, Chicago, Ill.
Hoffman Co., Earl, Los Angeles, Calif.
Hogan Lumber Co., Oakland, Calif.
Holsman & Holsman, Chicago, Ill.
Hope, Frank L., Jr., San Diego, Calif.
Hotchkiss Brothers Co., The, Torrington, Conn.
Houston Sash & Door Co., Houston, Tex.
Hubbell Hardwood Door Co., New Rochelle, N. Y.
Huber-Lanctot Housewrecking Corporation, Buffalo, N. Y.
Hunter Lumber Co., Chillicothe, Ill.
Hurd-Most Sash & Door Co., Dubuque, Iowa.
Huttig Sash & Door Co., Dallas, Tex., and other cities.
Hyde-Murphy Co., Ridgway, Pa.
Illinois Valley Manufacturing Co., Peru, Ill.
Independent Lumber Co., The, Grand Junction, Colo.
Indiana Lumber & Manufacturing Co., South Bend, Ind.
Interstate Lumber Co., Missoula, Mont.
Interstate Sash & Door Co., The, Canton, Ohio, and Cleveland, Ohio.
Iron City Sash & Door Co., Pittsburgh, Pa.
Iron Mountain, City Lumber Yard of, Iron Mountain, Mich.
Iroquois Door Co., Buffalo, N. Y.
Ivey, Inc., Edwin J., Seattle, Wash.
Jacksonville Sash & Door Co., Jacksonville, Fla.
Jefferson Wood Products, Co., Jefferson, Wis.
Jennings' Sons, S. P., New Castle, Ind.
Jersey Millwork Corporation, Jersey City, N. J.
Kahn Associated Architects & Engineers, Inc., Albert, Detroit, Mich.
Karcher & Smith, Philadelphia, Pa.
Keely Plywood Co., Hal, Pittsburgh, Pa.
Keely & Sons, S. S., Philadelphia, Pa.
Keen-Coal & Supply Co., Batavia, Ohio.
Keich & O'Brien, Warren, Ohio.
Kellogg & Sons Co., Charles C., Utica, N. Y.
Kendrick & Brown Co., Inc., Glens Falls, N. Y.
Kilham, Hopkins & Greeley, Boston, Mass.
Koehl & Son, Inc., John W., Los Angeles, Calif.
Kohn, Robert D., & Charles Butler, New York, N. Y.
Koll Planing Mill, Ltd., A. J., Los Angeles, Calif.
Kullberg Manufacturing Co., Minneapolis, Minn.
Kyle, Herbert S., Charleston, W. Va., (In Principle.)
Lake Superior Lumber Co., McPherson, Kans.
Larrick, Thomas, Athens, Ohio.
Latenser & Sons, John, Omaha, Nebr.
Law, Law & Potter, Madison, Wis.
Leuckel & Co., Inc., A. K., Trenton, N. J.

Levy, Will, St. Louis, Mo.
Lewis Lumber Co., Spring Lake, N. J.
Liberty Lumber & Manufacturing Co., Inc., Erwin, Tenn.
Loeb, Laurence M., White Plains, N. Y.
Long Fir Gutter Co., Cadiz, Ohio.
Los Angeles, City of, Los Angeles, Calif.
Lowell, Inc., J. B., Worcester, Mass.
Lumber & Millwork Co. of Philadelphia, The, Philadelphia, Pa.
Lumbermen's Credit & Warehouse Co., Kalamazoo, Mich.
Lyman-Hawkins Lumber Co., The, Akron, Ohio.
Lynchburg Lumber Manufacturing Co., Inc., Lynchburg, Va.
Lyon-Gray Lumber Co., Dallas, Tex.
M. & M. Wood Working Co., Portland, Oreg.
Mahoney Sash & Door Co., The, Canton, Ohio.
Markland Contracting Co., M. B., Atlantic City, N. J.
Marquard Sash & Door Mfg. Co., The, Cleveland, Ohio.
Martin, Edgar, Chicago, Ill.
Martin Lumber Co., Springfield, Mass.
Marvin Millwork, Inc., Ellenville, N. Y.
Mason City Millwork Co., Mason City, Iowa.
Mason & Co., George D., Detroit, Mich.
Mason & Sons, Inc., A., Peru, N. Y.
Massena & duPont, Inc., Wilmington, Del.
Mauran, Russell, Crowell & Mullgardt, St. Louis, Mo.
McGoldrick Lumber Co., Spokane, Wash.
McCrady-Rodgers Co., Braddock, Pa.
McGowin-Lyons Hardware & Supply Co., Mobile, Ala.
McPhillips Manufacturing Co., Mobile, Ala.
Memphis Sash & Door Co., Memphis, Tenn.
Merrick Lumber Co., Holyoke, Mass.
Michigan Wholesalers, Inc., Jackson, Mich., and Fort Wayne, Ind.
Miller Bros., Inc., Lebanon, Pa.
Miller & Yeager, Terre Haute, Inc.
Mock & Morrison, Tacoma, Wash.
Monarch Door & Manufacturing Co., Tacoma, Wash.
Mooser, William, San Francisco, Calif.
Morgan, David H., Philadelphia, Pa.
Morgan Millwork Co., Baltimore, Md.
Morgan Sash & Door Co., Oklahoma City, Okla.
Morris Plains Lumber & Coal Co., The, Morris Plains, N. J.
Morrison-Merrill & Co., Salt Lake City, Utah.
Muhlenberg Bros., Reading, Pa.
Mundie, Jensen, Bourke, & Havens, Chicago, Ill.
Nash, Robinson & Co., Waco, Tex.
Nashville Sash & Door Co., Nashville, Tenn.
National Plywood Co., Inc., New York, N. Y.
National Plywoods Inc., Chicago, Ill.
Neal-Blun Co., Savannah, Ga.
Nelson, Albert L., St. Louis, Mo.
Neumann & Sons, William, Jersey City, N. J.
Newton Co., F. H., North Cambridge, Mass.
Newton Lumber Co., The, Pueblo, Colo.
Nicolai Door Sales Co., San Francisco, Calif.
Northern Lumber Co., Billings, Mont.
Northwest Door Co., Tacoma, Wash.
Nurenburg, W. S., Fort Worth, Tex.
O. & N. Lumber Co., Menomonie, Wis.
Oettinger Lumber Co., Greensboro, N. C.
Officer, Gwynn, Berkeley, Calif.
Ohio City Sash & Door Co., Dayton, Ohio.
O'Neill Manufacturing Co., Inc., Rome, Ga.
Orth, H. W., St. Paul, Minn. (In Principle.)
Pacific Mutual Door Co., Chicago, Ill., and St. Paul, Minn.
Palmer Lumber & Manufacturing Co., Chehalis, Wash.
Parker Building Specialties, Inc., San Francisco, Calif.
Parshelsky Bros., Inc., Brooklyn, N. Y.
Patten-Blinn Lumber Co., Los Angeles, Calif.
Pease Woodwork Co., Inc., Cincinnati, Ohio.
Pennsylvania State College, The, Department of Forestry, State College, Pa. (In Principle.)
Pepper, Geo. W., Jr., Philadelphia, Pa.
Pierre & Wright, Indianapolis, Ind.
Pinellas Lumber Co., St. Petersburg, Fla.
Pittsburgh Board of Public Edication, Pittsburgh, Pa.
Platt & Bros., F. P., New York, N. Y.
Portsmouth Lumber Corporation, Portsmouth, Va.
Prassel Sash & Door Co., San Antonio, Tex.
Prescott Lumber Co., Prescott, Ariz.
Progress Lumber Co., Redwood City, Calif.
Purves & Cope, Philadelphia, Pa.
Queen City Sash & Door Co., The, Cincinnati, Ohio.
Quigley Co., J. R., Gloucester City, N. J.
Radford & Sanders, Inc., Baltimore, Md.
Ramsey & Sons, Inc., A. H., Miami, Fla.
Ream Co., George E., Los Angeles, Calif.

Red River Lumber Co., The, Los Angeles, Calif.
Reis Lumber Co., J. B., Belleville, Ill.
Remington Yards, Hibbing, Minn.
Resnikoff, Abraham, New York, N. Y.
Robbins Door & Sash Co., Scranton, Pa., and other cities.
Robert & Co., Inc., Atlanta, Ga.
Roberts Corporation, U. N., Davenport, Iowa.
Robinson Lumber Co., Fred J., Detroit, Mich.
Robinson Manufacturing Co., Everett, Wash.
Rockwell Bros. & Co., Houston, Tex.
Rockwell Lumber Co., Houston, Tex.
Roddis Lumber & Veneer Co., Milwaukee, Wis.
Roemer Bros. Lumber Co., Bowling Green, Ky.
Rogers Lumber Co., The I. H., Oklahoma City, Okla.
Rohrer Lumber Co., D. J., Clintonville, Wis.
Rose & Sons, W. J., Johnstown, Pa.
Rosenberg & Forbes Co., Inc., Benton Harbor, Mich.
Rounds & Porter Co., Wichita, Kans.
Rudinger, Inc., C. R., South Kearny, N. J.
Ruggles Lumber Co., Carlos, Springfield, Mass.
Rust Sash & Door Co., Kansas City, Mo.
Saint Paul & Tacoma Lumber Co., Tacoma, Wash.
Santa Fe Builders Supply Co., Santa Fe, N. Mex.
Schell-Sasse Manufacturing Co., Jacksonville, Fla.
Schroeder Hardwood Lumber Co., Alexander, Houston, Tex.
Schulzke, William H., Moline, Ill.
Scott Sash & Door Co., Inc., Little Rock, Ark.
Searle & Chapin Lumber Co., Lincoln, Nebr.
Sears, Roebuck & Co., Chicago, Ill.
Segelke & Kohlhaus Co., La Crosse, Wis.
Shannon Sash & Door Co., Kansas City, Kans.
Shaver, Chas. W., Salina, Kans.
Shenk Co., Henry, Erie, Pa.
Sherman's Sons Co., R. A., Westerly, R. I.
Sibley Lumber Co., F. M., Detroit, Mich.
Sidells, Arthur F., Warren, Ohio.
Simons, Inc., Minneapolis, Minn.
Simpson Logging Co., Plywood & Door Division, Shelton, Wash.
Sitterding Carneal Davis Co., Inc., Richmond, Va.
Sloan Lumber Co., Fort Worth, Tex.
Smedley Bros. Co., Philadelphia, Pa.
Smith & Rumery, Inc., Portland, Maine.
Snedaker & Co., Inc., Frank C., Philadelphia, Pa.
Snell Sash & Door Co., St. Paul, Minn.
Snellstrom Lumber Co., Eugene, Oreg.
Snow Lumber Co., High Point, N. C.
Sothman Co., The, Grand Island, Nebr.
Southern Counties Gas Co. of California, Los Angeles, Calif.
Southern Door & Glass Co., Nashville, Tenn.
Southern Sash & Door Co., Greenville, S. C.
Southwestern Sash & Door Co., Inc., Albuquerque, N. Mex.
Southwestern Sash & Door Co., Inc., El Paso, Tex.
Southwestern Sash & Door Co., Joplin, Mo.
Spahn & Rose Lumber Co., Dubuque, Iowa.
Specification Record, Chicago, Ill.
Spokane Sash & Door Co., Spokane, Wash.
Standard Lumber & Supply Co., Fort Wayne, Ind.
Standard Novelty Works, Inc., Miami, Fla.
Stark & Co., Kansas City, Mo.
Staub & Rather, Houston, Tex.
Stillwater Manufacturing Co., The, Stillwater, Minn.
Stoetzel, Ralph E., Chicago, Ill.
Strable Hardwood Co., Oakland, Calif.
Stritzel, John J., Arlington, Va.
Swan Lakes Moulding Co., Klamath Falls, Oreg.
Sweetwater Sash & Door Co., Sweetwater, Tex.
Tacoma Millwork Supply Co., Tacoma, Wash.
Tacoma Public Library, Tacoma, Wash.
Taylor, Edward Cray & Ellis Wing, Los Angeles, Calif.
Taylor, Ellery K., Haddonfield, N. J.
Teachout Sash, Door & Glass Co., The, Dearborn, Mich.
Tennessee Glass Co., Nashville, Tenn.
Texas Sash & Door Co., Fort Worth, Tex.
Thorne, Henry Calder, Ithaca, N. Y.
Throop-Martin Co., The, Columbus, Ohio.
Toledo Door & Sash Co., Toledo, Ohio.
Toombs-Fay Co., Springfield, Mo.
Townsend Sash Door & Lumber Co., Lake Wales, Fla.
Trexler Lumber Co., Allentown, Pa.
Tulane Hardwood Lumber Co., Inc., New Orleans, La.
Tulsa Rig Reel & Manufacturing Co., Tulsa, Okla.
Tuna Manufacturing Co., Bradford, Pa.
Underwood Coal & Supply Co., Mobile, Ala.
Union Planing Mill, Stockton, Calif.
United Sash & Door Co., Wichita, Kans.

Vaughan & Sons, Geo. C., Houston, Tex.
Velde Lumber Co., Pekin, Ill.
Vetter Manufacturing Co., Stevens Point, Wis.
Virginia Polytechnic Institute, Blacksburg, Va.
Wagner Manufacturing Co., Cedar Falls, Iowa.
Wahlfeld Manufacturing Co., Peoria, Ill.
Wallis & Carley Co., Sharon, Pa.
Walsh, Louis A., Waterbury, Conn.
Wanke Panel Co., Portland, Oreg.
Ware & McClenahan, Salt Lake City, Utah.
Warren Brothers Co., Nashville, Tenn.
Washington Door Co., Tacoma, Wash.
Washington Woodworking Co., Inc., The, Washington, D. C.
Watertown Sash & Door Co., Watertown, S. Dak.
Weaver, Rudolph, Gainesville, Fla.
Weinel Lumber Co., Aug. F., Columbia, Ill.
Weisberg-Baer Co., The, Astoria, Ill.
Welch, Carroll E., Huntington, N. Y.
West, Albert E., Boston, Mass.
Western Door & Plywood Corporation, Portland, Oreg.
Western Door & Sash Co., Oakland, Calif.
Western Hardwood Lumber Co., Los Angeles, Calif.
Western Reserve Lumber Co., The, Warren, Ohio.
Weyerhaeuser Sales Co., Tacoma, Wash.
Wheeler Osgood Sales Corporation, Tacoma, Wash.
Wheelock Inc., E. U., Los Angeles, Calif.
Whissel Lumber Co., Inc., L. N., Buffalo, N. Y.
Whitmer-Jackson Co., The, Cleveland, Ohio, and Buffalo, N. Y.
Whittier Lumber & Millwork Co., Newark, N. J.
Wholesale Building Supply, Inc., Oakland, Calif.
Wiles-Chipman Lumber Co., St. Louis, Mo.
Wilkinson Co., Inc., The, Indianapolis, Ind.
Williams & Hunting Co., Cedar Rapids, Iowa.
Willingham & Co., Chattanooga, Tenn.
Willson, Fred F., Bozeman, Mont.
Wilmington Sash & Door Co., Wilmington, Del.
Wilson, Adrian, Los Angeles, Calif.
Wilson & Sons, Inc., W. A., Wheeling, W. Va.
Wischmeyer, William F., St. Louis, Mo.
Wood Lumber Co , E. K., Los Angeles, Calif.
Woodruff Lumber Co., Duluth, Minn.
Wright & Wright, Detroit, Mich. (In Principle.)
Young & Richardson, Seattle, Wash.
Zenith Mill & Lumber Co., Oakland, Calif.

U. S. GOVERNMENT

Agriculture, Department of, Washington, D. C.
Federal Housing Administration, Washington, D. C.
Federal Public Housing Authority, Washington, D. C.
Federal Works Agency, Public Buildings Administration, Washington, D. C. (In Principle.)
Interior, Department of, Office of Indian Affairs, Chicago, Ill., and Salt Lake City, Utah.
Justice, Department of, Bureau of Prisons, Washington, D. C.
Naval Air Station, Lakehurst, N. J.
Navy Yard, Public Works Department, Philadelphia, Pa., and Portsmouth, N. H.
Treasury Department, Washington, D. C.
War Department, Washington, D. C., and Buffalo, N. Y.

COMMERCIAL STANDARDS

Item

CS No.
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.
5–40. Pipe nipples; brass, copper, steel, and wrought iron.
6–31. Wrought-iron pipe nipples (second edition). Superseded by CS5–40.
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 CS5–40.
11–41. Moisture regains of cotton yarns _second edition).
12–40. Fuel oils (fifth edition).
13–42. Dress patterns (third edition).

CS No.
14–43. Boys' button-on waists, shirts, junior and sport shirts (made from woven fabrics) (third edition).
(E)15–43. Men's pajamas (made from woven fabrics) (second edition).
16–29. Wall paper.
17–42. Diamond core drill fittings (third edition).
18–29. Hickory golf shafts.
19–32. Foundry patterns of wood (second edition).
20–42. Staple vitreous china plumbing fixtures (third 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.

CS No. Item

27–36. Mirrors (second edition).
28–32. Cotton fabric tents, tarpaulins, and covers.
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.
35–42. Plywood (hardwood and eastern red cedar) (second 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.
45–42. Douglas fir plywood (fifth 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).
59–41. Woven textile fabrics—testing and reporting (third edition).
60–36. Hardwood dimension lumber.
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).

CS No. Item

71–41. Phenolic disinfectant (soluble type) (second edition) (published with CS70–41).
72–38. Household insecticide (liquid spray type).
73–43. Old growth Douglas fir standard stock doors (second edition).
74–39. Solid hardwood wall paneling.
75–42. Automatic mechanical draft oil burners designed for domestic installations (second edition).
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.
100–42. Multiple-coated, porcelain-enameled steel utensils.
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).
(E)104–43. Warm air furnaces equipped with vaporizing pot-type oil burners.
105–43. Mineral wool; loose, granulated, or felted form, in low-temperature installations.
(E)106–43. Boys' pajamas (made from woven fabrics).
(E)107–43. Commercial electric-refrigeration condensing units.
108–43. Treading automobile and truck tires.

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