

CATALOGUE No. 13

KINNEAR STEEL



ROLLING DOORS

BRANCH OFFICES:
QUEBEC, TORONTO, WINNIPEG, VANCOUVER.

PREFACE

IN presenting this pamphlet on Kinnear Steel Rolling Doors, we desire to call the Attention of Engineers, Architects, Railways and Mill, Factory and Warehouse Owners to a form of Door which renders the utmost protection from fire along with convenience of operation.

Kinnear Doors have been installed all over this Continent and elsewhere with nothing but the most satisfactory results.

Reports as to their effectiveness are continually received and with fresh conflagrations, the way in which Kinnear Doors have stood attacks of fire is again and again demonstrated.

We solicit your correspondence on the subject.

KINNEAR ROLLING DOORS

Fig. 10.

The continual improvements and developments being effected in the construction and application of Kinnear Rolling Doors, render it impossible to embody within a small Catalogue descriptions or cuts of all the uses and advantages peculiar to them.

The following pages are intended mainly to describe and illustrate the more common and usual applications and to give an idea of their general appearance and construction. They are applicable to practically any class of building construction.

Recent great conflagrations have fully vindicated the claim of the Kinnear Steel Rolling Door to pre-eminence as a fire stop. Placed side by side with various other forms of fire retardents, it has in every case remained in place after the others were destroyed.

Should none of the constructions herewith shown meet your requirements, we will be pleased to prepare prints showing special applications on receipt of sketches showing the sizes of openings and details of jambs, lintels and sills.

The illustrations above show the new Car Barns for the Montreal Street Railway which were equipped with thirty-five Kinnear Steel Rolling Doors. Facing this building are other car barns which had been fitted with eleven Kinnear Doors two years previously.

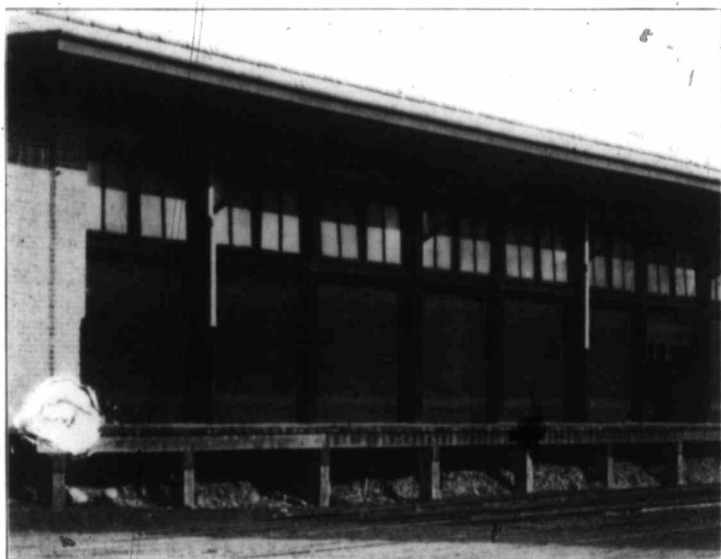


Fig. 11.

Freight House of the New Orleans Terminal Association. By means of transoms the interior is rendered light at all times.



Fig. 12.

Kinnear Steel Rolling Doors are extremely valuable where economy of space is desirable. The above view of the building of the Seattle Hardware Co., of Seattle, Wash., shows that goods may be placed in close proximity to the doors without interfering with their operation.

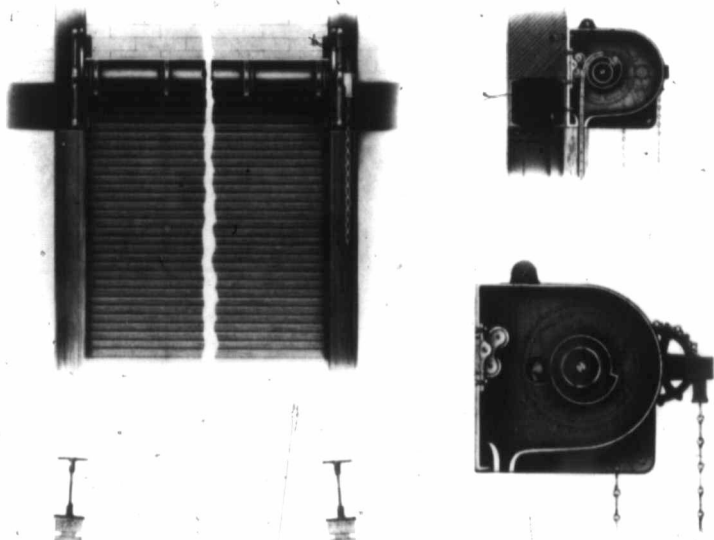


Fig. 13.

CONSTRUCTION F.H.W. 20:—This is our new Wood Rolling Door Construction designed especially for Round Houses. The pivoted swinging arms provide a compensating mechanism which allows the curtain to hang straight from the barrel at all times. Provision is made allowing for any expansion of the slats, by leaving out the first slat at the top. Different forms of slats are shown on page 11.

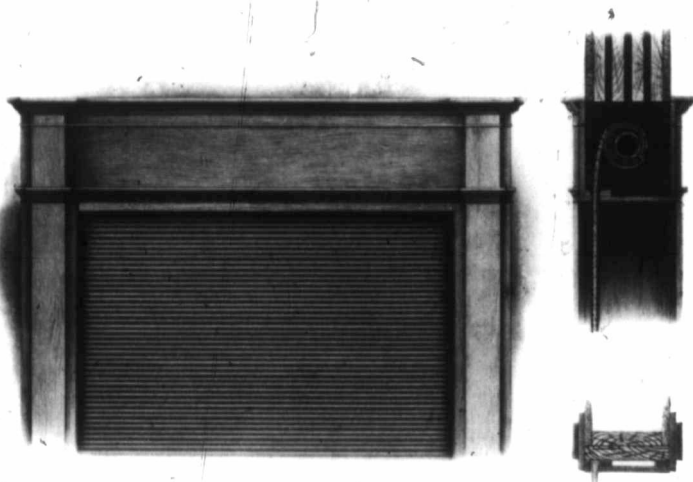


Fig. 14.

CONSTRUCTION B.M.W. 10:—This shows the application of the Wood Rolling Door to Interior Partitions, wherein the coil is concealed under the lintel. Operated by means of handle on bottom rail, but can be operated by various other methods if necessary. The operating parts can be concealed if desired.

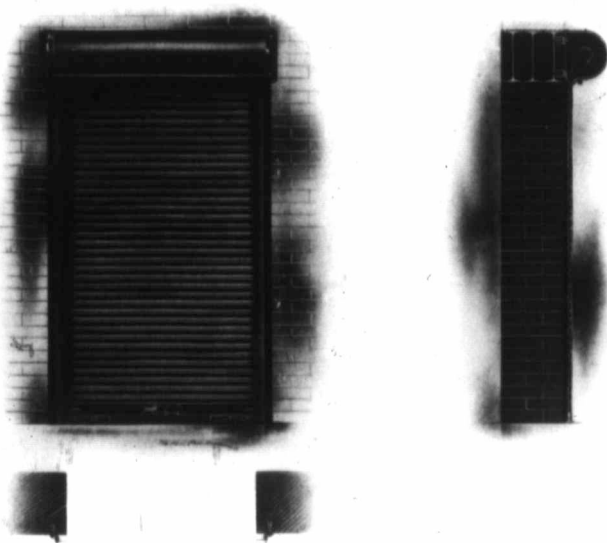


Fig. 15.

CONSTRUCTION F.M. 10:—Brackets and Grooves are placed on the face of the wall and flush handles provided on the bottom angle to facilitate the operation. Slide bolts on the bottom angles are also provided for locking. An adjustment wheel is placed on the shaft to secure delicate adjustment of the counterbalance spring.

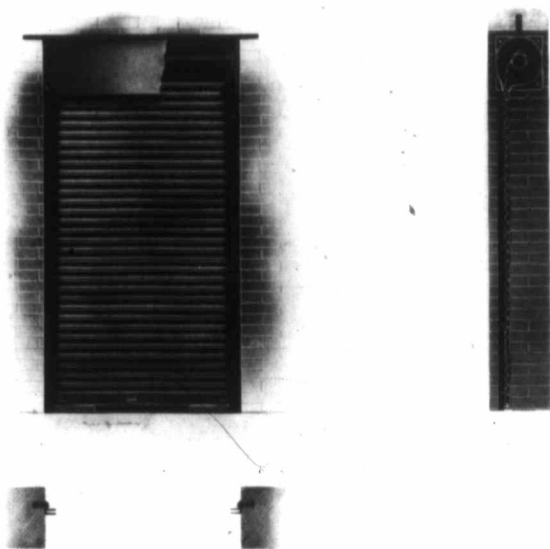


Fig. 16.

CONSTRUCTION B.M. 10:—In this construction the coil and grooves are placed between the jambs and the coil is enclosed in a galvanized iron hood. The curtain is counterbalanced by helical springs and operated by means of flush handle on the bottom bar. It will be furnished with slide bolt locks when specified. Being placed under the lintel approximately from 12" to 14" in height and from 4" to 6" in width are cut off from the clear opening.

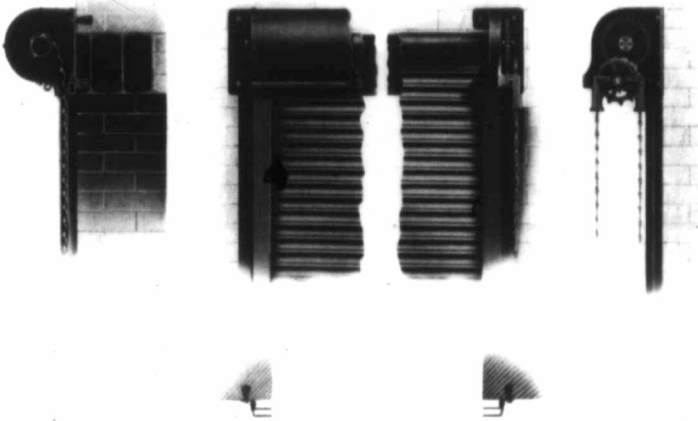


Fig. 17.

CONSTRUCTION F.H. 20:—This construction with slight modifications may be used on curtains of all sizes, from the smallest to the largest. The door is placed on the face of the wall and counterbalanced with helical springs and operation is effected by means of reduction gearing and chain hoist.

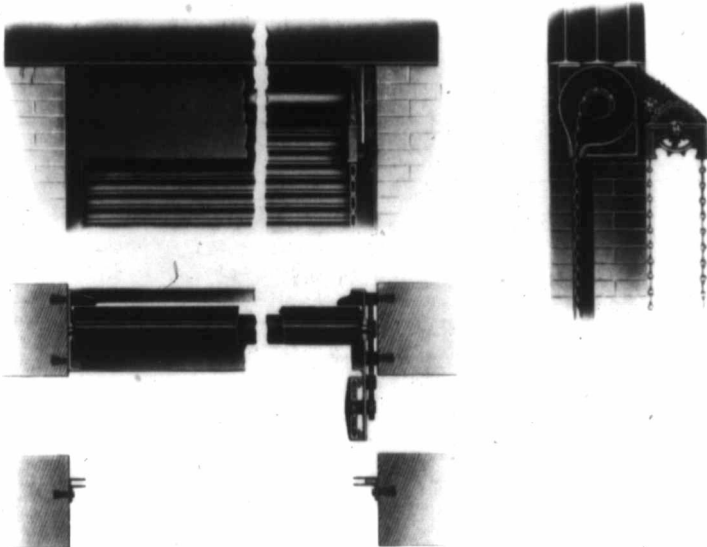


Fig. 18.

CONSTRUCTION B.H. 20:—This construction shows the application of the chain hoist to doors placed between jambs. Brackets and grooves are fastened to the jambs and the chain hoist extends out from the opening. On account of necessary gearing one groove extends further into the opening than the other as shown in the cross sectional view. Coil is covered by a galvanized iron hood.

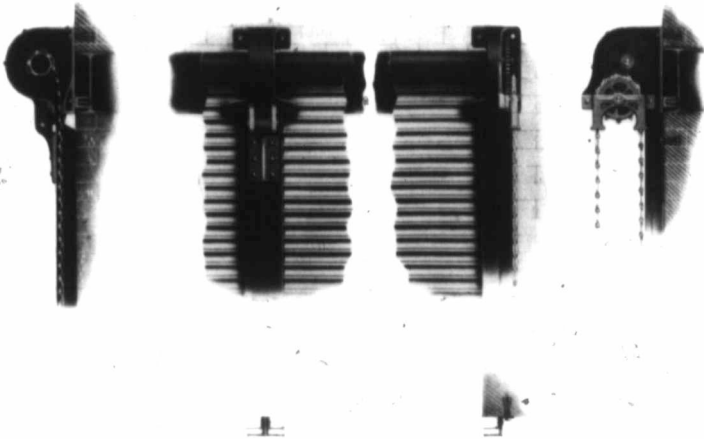


Fig. 19.

CONSTRUCTION F.H. 20, with Hinged Post:—This is essentially the same as F.H. 20. Very wide openings can be divided up into any convenient number of small doors, by placing between each pair of doors a double bracket as shown, carrying a hinge at the bottom to which is attached a double groove, built in the form of a post. When the doors are opened the posts may be swung up out of the way (or may be entirely removable in the case of small doors if necessary). This construction is particularly valuable for car barns and to cover very wide openings.

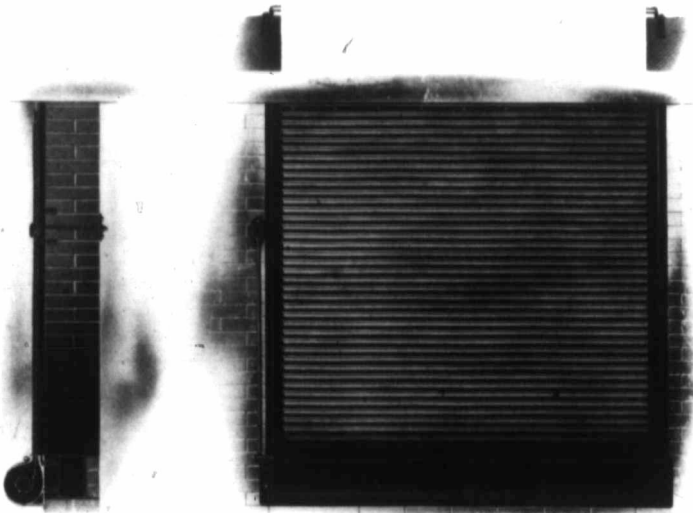


Fig. 20.

CONSTRUCTION F.C. 20:—This construction shows a door placed on the face of the wall and operated by means of double gears in a shaft extending down the wall, terminating in the gear box. A hand crank is attached to a stud projecting on the same side of the opening as is the door, or to a shaft extending through the wall if it is desired to operate the door from the opposite side.

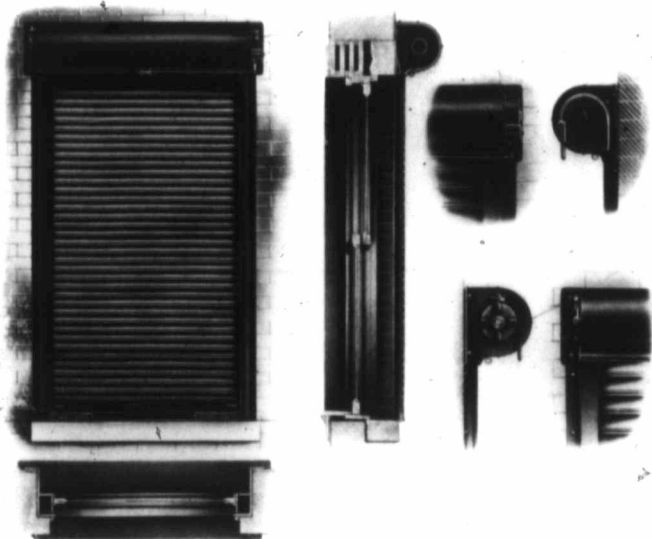


Fig. 21.

CONSTRUCTION F.M.A. 70:—This construction shows the application of the automatic shutter to window openings. The brackets and grooves are mounted on the face of the wall and an automatic release mechanism is provided, consisting of a fusible link as shown. A tension wheel is also provided for delicately adjusting the auxilliary spring. The release mechanism is entirely covered by a cast iron housing, and operation is effected manually by means of flush handle on the bottom bar, and in case of fire by the melting of the fusible link.

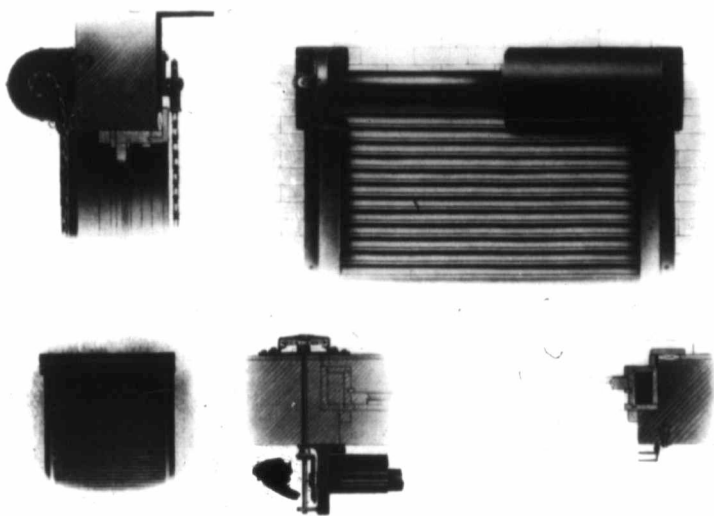


Fig. 22.

CONSTRUCTION F.H. 60:—It is often desirable to place a curtain on the exterior and operate it from the interior of the building. Above is a suitable construction wherein the curtain is operated by bevel gear and a rod running through the wall, to which is attached a chain hoist inside. The operating mechanism is entirely covered by an extension of the hood. This construction is especially recommended for openings having arched lintels.

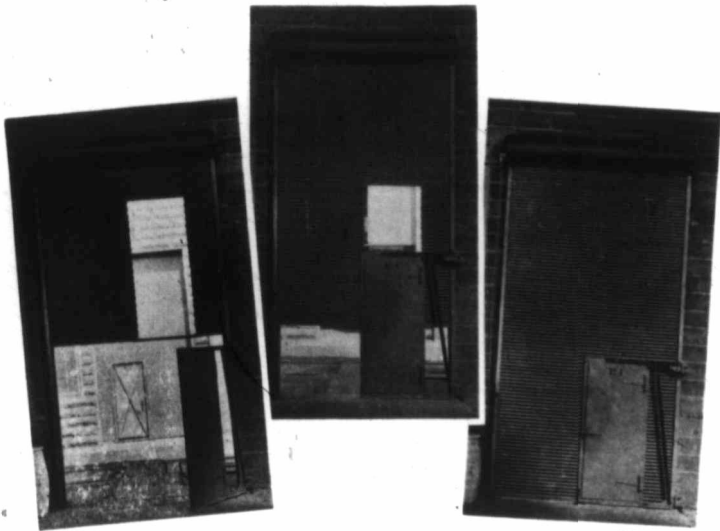


Fig. 23.

WICKET DOORS.—Very often a small wicket door is desired in a large rolling door. Above three illustrations show the placement and operation of our wicket doors. When the large door is open, the small door is swung back against the wall entirely out of the way.

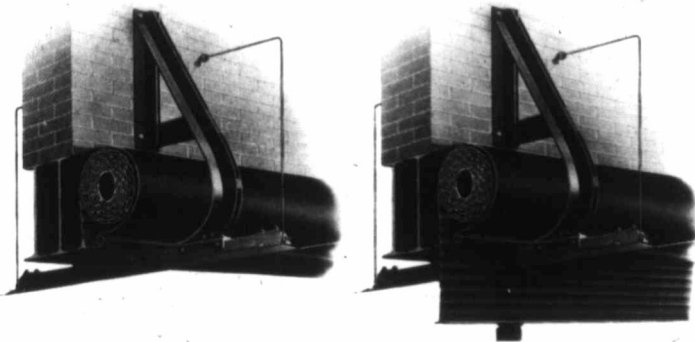


Fig. 24.

TROLLEY CONNECTIONS:—These consist briefly of heavy brackets of angle iron, projecting out and around the hood and carrying a standard wood cut out block. This latter carries a brass terminal to which the trolley wire is fastened, and electrical connection between inside and outside of building is accomplished by running the wire through the wall over the door. A similar wood lock and terminal is fastened to the underside of the lintel, leaving a gap between them through which the curtain operates. A pressed steel bridge is carried on the bottom angle of the door, and when the door is open this bridge closes the gap between the wood locks, thus providing a smooth path for the trolley wheel. Electrical connection is not made in any manner with the steel work of the door.

Fig. 25 shows the usual forms of steel and wood slats used. The first two views show the concave and convex sides of the No. 2 steel slat with alternate end locks. Next two views show the No. 2 steel slat with special continuous end locks. Note that both surfaces of slats shed water. The upper two sections of wood slats show the form adopted for exterior exposures and the lower two forms adopted for interior partitions. The former are strung on ribbons and the latter on cables, all being of phosphor bronze.

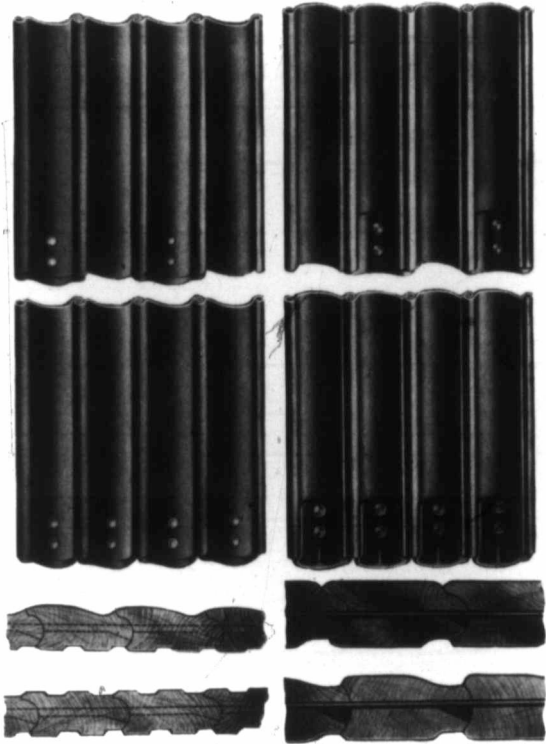


Fig. 25.

PROJECTIONS:—Below are shown the salient projections dimensions of steel Rolling Doors for the usual method of application.
 Dimension P. applies only to face of wall projection.
 Dimensions D. & W. only to between jamb construction.
 Dimension A. only to chain hoist side of hoist operated between jam shutters.
 For all unusual applications we suggest direct correspondence.



Fig. 26.

SCHEDULE OF PROJECTIONS.

Width 3 ft. 0 in. to 6 ft. 0 in.				Width 6 ft. 0 in. to 10 ft. 0 in.		
Height	Groove Depth 'D' 2 in.			Groove Depth 'D' 2½ in.		
	X	Y	P	X	Y	P
6 ft. 0 in.	8¾ in.	11 in.	2½ in.	8¾ in.	11 in.	2½ in.
8 " 0 "	9½ " "	12 " "	2½ " "	9½ " "	12 " "	2½ " "
10 " 0 "	10½ " "	13 " "	2½ " "	10½ " "	13 " "	2½ " "
12 " 0 "	11½ " "	14 " "	3¼ " "	11½ " "	14 " "	3¼ " "
14 " 0 "	12 " "	15 " "	3¼ " "	12 " "	15 " "	3¼ " "
16 " 0 "	12½ " "	15½ " "	3¼ " "	12½ " "	15½ " "	3¼ " "
18 " 0 "	13½ " "	16 " "	3¼ " "	13½ " "	16 " "	3¼ " "

For widths from 3' to 6' and groove depth of 2" 'W'=3" and 'A'=3⅝"

For widths from 6' to 10' and groove depth of 2½" 'W'=3½" and 'A'=4⅛"

Width 10 ft. 0 in. to 15 ft. 0 in.				Width 15 ft. 0 in. to 20 ft. 0 in.		
Height	Groove Depth 'D' 3 in.			Groove Depth 'D' 3½ in.		
	X	Y	P	X	Y	P
6 ft. 0 in.	9½ in.	11¼ in.	3¼ in.	10¼ in.	12½ in.	4 in.
8 " 0 "	10¼ " "	12¼ " "	3¼ " "	11 " "	13½ " "	4 " "
10 " 0 "	11¼ " "	13¼ " "	3¼ " "	12 " "	14½ " "	4 " "
12 " 0 "	12¼ " "	14¼ " "	3¼ " "	13 " "	15½ " "	4 " "
14 " 0 "	12¾ " "	15¼ " "	4 " "	13½ " "	16½ " "	4 " "
16 " 0 "	13¼ " "	16¼ " "	4 " "	14 " "	17 " "	4 " "
18 " 0 "	14¼ " "	16¾ " "	4 " "	15 " "	17½ " "	4 " "

For widths from 10' to 15' and groove depth 3" 'W'=4" and 'A'=⅝"

For widths from 15' to 20' and groove depth 3½" 'W'=4½" and 'A'=5⅛"

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