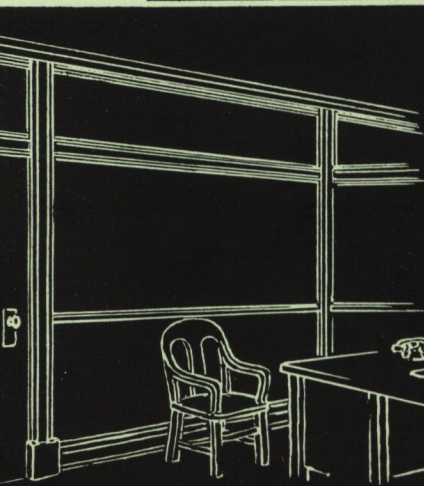
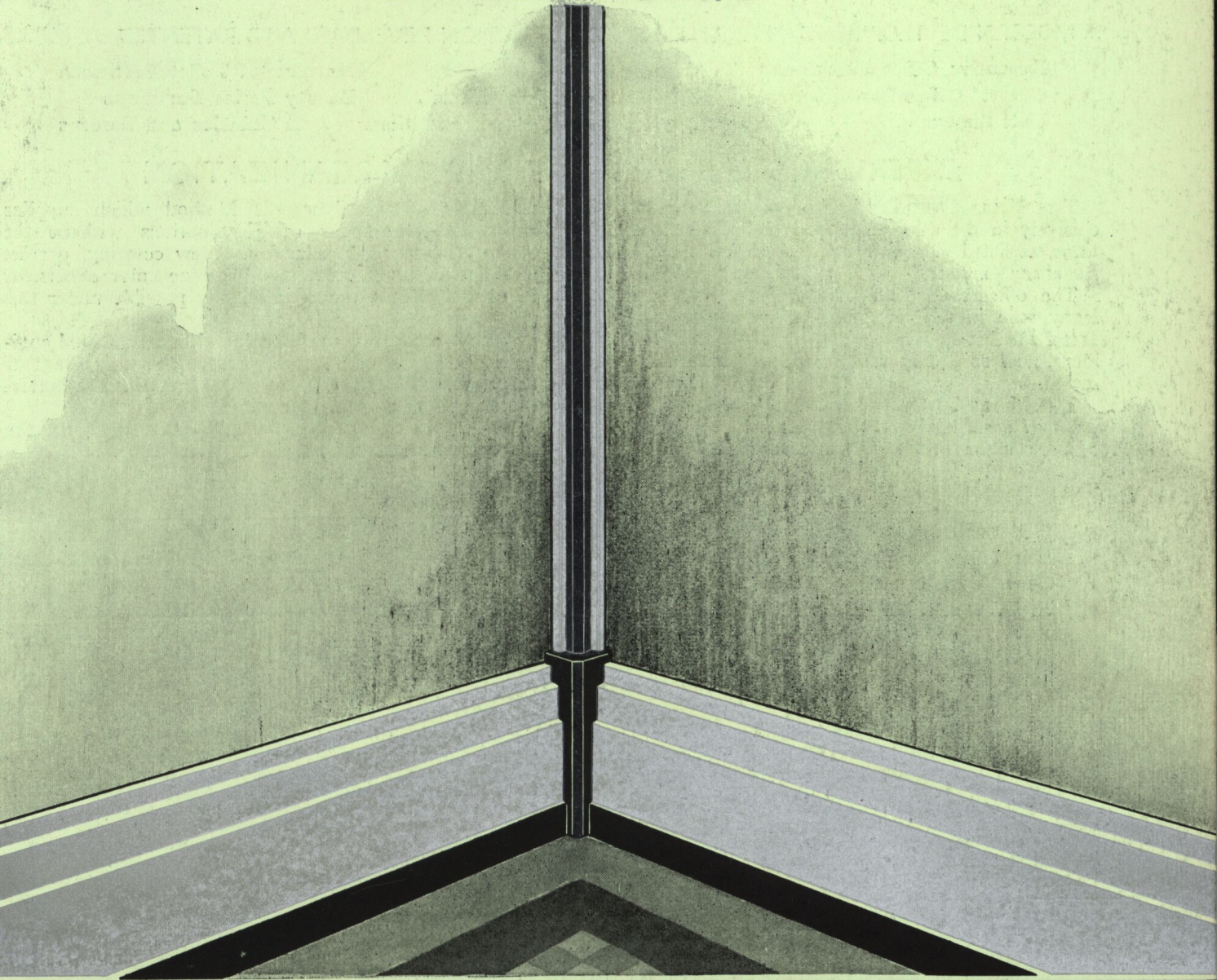


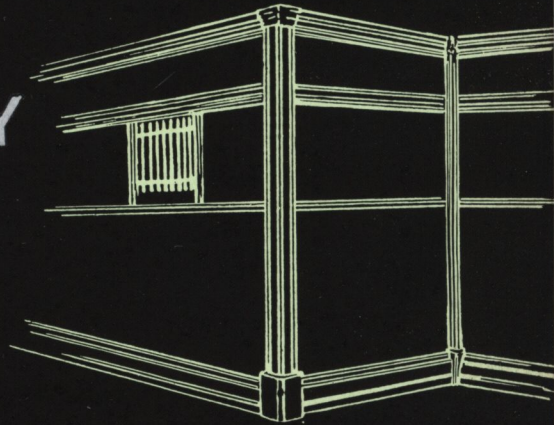


SYNCHRO-FIT

STANDARD
PARTITIONS



FOR EVERY
PARTITION
NEED



MILLS METAL PARTITIONS



BY THE **SYNCHRO-FIT** METHOD

A MODERN DEVELOPMENT IN PARTITION CONSTRUCTION DEVELOPED AND PATENTED BY MILLS

Executive Office Partitions
General Office Partitions
Unit Showers

Commercial Partitions
Standard Toilet Partitions
Shower and Dressing Room Partitions

Marblemetal Toilet Partitions
Beauty Parlor Partitions
Cubicles and Screens

EXPERIENCE AND AIMS OF MILLS ORGANIZATION

THE MILLS COMPANY is an organization engaged exclusively in the design and production of metal partitions, as listed above. Truly, *"A Mills Metal Partition for every purpose."*

The officers of THE MILLS COMPANY, as well as many men in the organization, were pioneers in the Metal Partition Industry. Many of the metal partition ideas, now so widely used, originated with this organization.

THE MILLS COMPANY is constantly alert to find better ways of assuring beauty and permanency in partitions of their manufacture. This is responsible for the de-

velopment of the Syncro-fit Method which supplies an unlimited number of combinations without the expense of special production. New coloring, perfect imitation of wood graining—two-tone color effects, or two-metal effects, are economically possible under this method.

A large modern manufacturing plant and skilled engineering and research departments with many years of experience and the will to strive for constant betterment are here at your command.

On the following pages, we illustrate many of the advanced features of the *Mills Metal Line*.

A FEW INSTALLATIONS

Waldorf Astoria Hotel
Bell Telephone Buildings
General Motors Corporation
N. Y. World Telegram Bldg.

General Electric Co.
Pennsylvania R. R.
R. C. A. Radiotron Co., Inc.
Eastman Kodak Co.

United Shoe Machinery Co.
Goodyear Tire & Rubber Co.
Aluminum Co. of America
Westinghouse Electric Co.



THE **SYNCHRO-FIT** METHOD

What It Is

The Syncro-fit Method is a method of fabricating sheet metal into structural units without the use of bolts, screws, or welding, but still providing a strong, rigid assembly.

It may be adapted to the manufacture of almost any sheet metal product, such as furniture, cabinets, doors and trim, radiator enclosures, heat ducts, etc. The members are rigidly interlocked by a sewing process, entirely developed and perfected by The Mills Organization.

As shown in the close-up illustration, after the various parts of a partition are assembled, they are run through a machine or gripped in a hand tool. The pressure exerted causes a series of indentations in both pieces of steel to be joined, interlocking these in such a manner that they become practically one unit. The strength of the joint thus formed can only be appreciated by examining a finished installation.

If re-design or change of sizes should be necessary or desired, in the field, the material can be ripped apart and re-sewed in the field with a simple hand tool.

What It Means to the Architect

The Syncro-fit Method of assembly makes it possible for the architect to obtain, at the very lowest cost, exactly the type of partition installation he desires for any particular building. No longer is he limited to stock dimensions and types.

The modern trend to color and metal com-

position could not be produced under the old methods, without excessive cost. Under the Syncro-fit Method, two and three-tone color effects can be obtained with no increase in cost, and two and three-tone metal effects, with only the differential in cost between steel and the metal or metals selected.

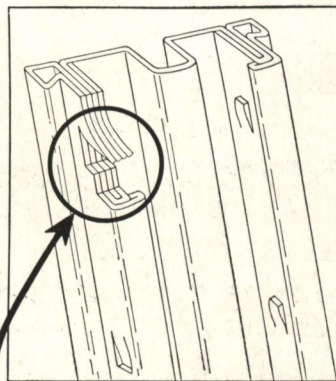
The Syncro-fit Method makes capable of production, the only partition in the market, using the same post clip for every condition, namely, straightaway, corner, or three-way.

THE MILLS COMPANY is the first to adopt 4-in. panels which give the architect the advantage of easy designing. The architect can now make his plans in feet and fractions of feet.

It is the only partition on the market in which it is possible to make the floor layout without knowing at the time whether each floor attachment point is straightaway, corner, three-way, door jamb, etc. The ceiling post is automatically adjustable for any ceiling height, and the ceiling post goes through the standard cornice. All horizontal members are tenon ended into the vertical.

It is the only partition in which the architect may change glass height, width of chair rail, and width of transom bar to meet a particular design without prohibitive cost.

The Syncro-fit Method permits panel construction of single sheet, $\frac{3}{8}$ -in. laminated, $1\frac{3}{4}$ -in. insulated or $2\frac{3}{4}$ -in. flush type, with the same sections, and with all these construction advantages, this partition has a distinct architectural appeal.



Cut-away Showing a Sewed Joint

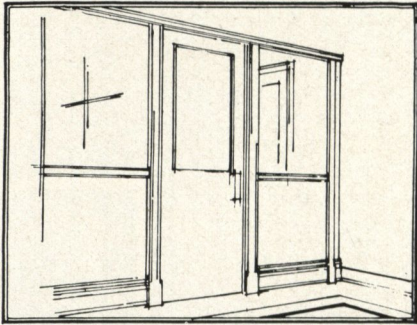
THE SYNCRO-FIT METHOD OFFERS UNLIMITED DESIGN POSSIBILITIES

To keep the cost down, it has heretofore been necessary for partition manufacturers to absolutely standardize their products. With the use of the Syncro-fit Method, the architect has an unlimited number of design possibilities. Panel walls, or straight flush walls—with or without chair rail—with or without transom bar. In fact, with this method, each part is optional. For convenience, we manufacture standard in the following cornice heights:

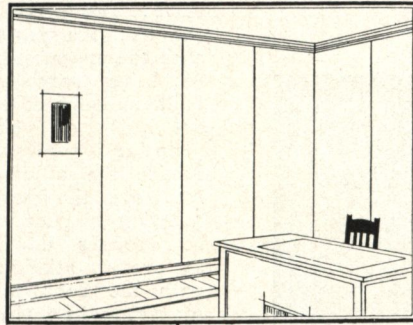
- 7 ft., 47/8 in.
- 8 ft., 97/8 in.
- 9 ft., 3 in.
- 10 ft., 11/2 in.

and panels in standard width of 4-in. multiples from 20 to 60 in.

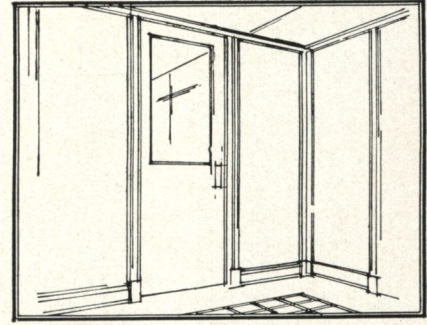
The tendency toward two-tone color effect and two-tone metal effect can most economically be produced under this method.



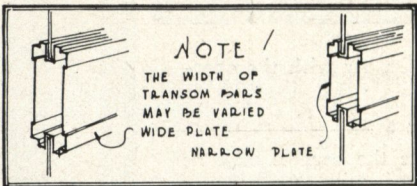
3/8" OR SINGLE SHEET PARTITION



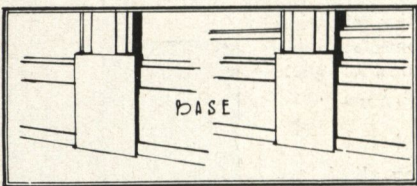
FLUSH WALLS OF STEEL



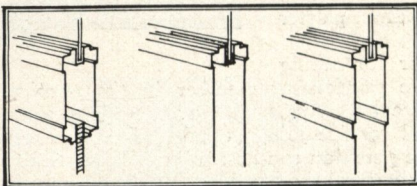
PANELED WALLS OF STEEL



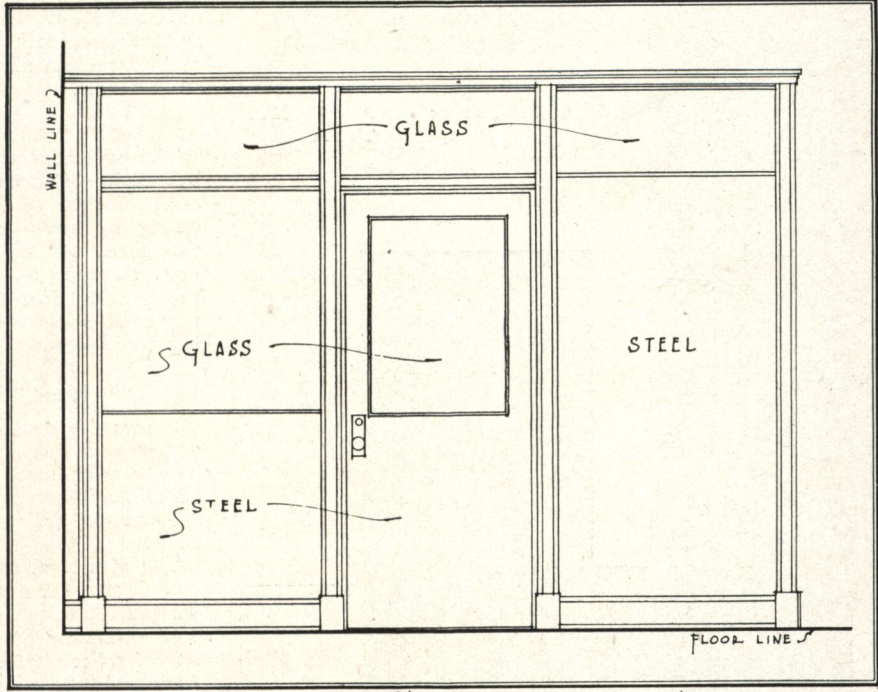
TRANSOM BARS



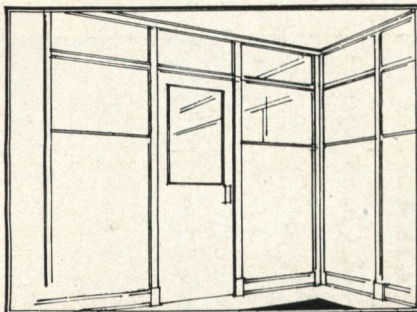
FLUSH TYPE PANEL TYPE



VARIOUS CHAIR RAIL CONDITIONS



ELEVATION OF 1 3/4" INSULATED PANEL'S



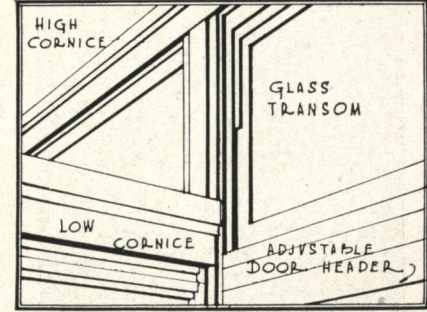
HIGH GLASS LINE - CHAIR RAIL ABOVE 42"

THE SYNCRO-FIT METHOD GIVES TO THE ARCHITECT UNLIMITED FREEDOM IN THE USE OF TWO TONE COLOR OR METAL COMBINATIONS AT A LOW COST

MODERN INTERPRETATIONS OF WHITE METAL IN SATIN OR MIRROR FINISH WITH BLACK TRIM - HARMONIZING COLOR COMBINATIONS - PERFECT REPRODUCTIONS OF WALNUT, OAK OR MAHOAGANY WITH BLACK TRIM

ALL ARE OBTAINED WITH STANDARD SECTION'S

THE MILLS CO. CLEVELAND O



COMBINED LOW & HIGH CORNICE

SYNCR-O-FIT DESIGN AND CONSTRUCTION FEATURES

On this and following pages are illustrated some of the striking features of beauty of design with strength and rigidity of construction secured by the Syncro-fit Method.

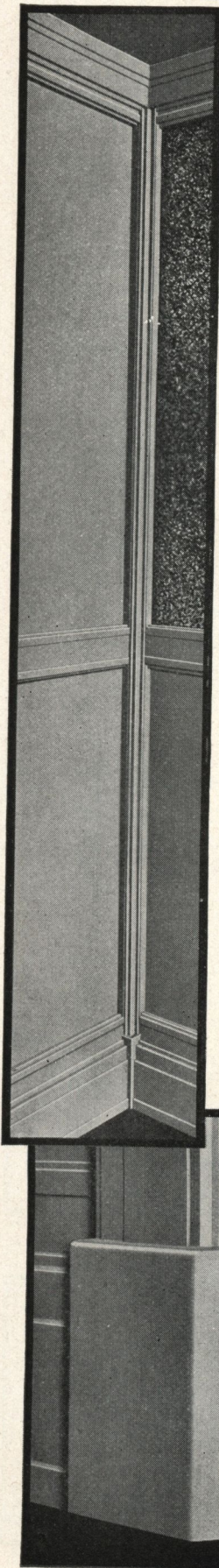


Figure 1
 Photograph of a typical inside corner with standard inside corner plinth and corner mold in place, giving a neat streamline appearance.

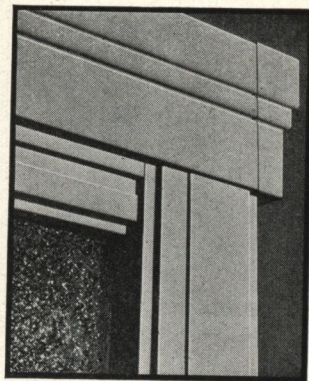


Figure 2 (Above)
 A close-up of standard corner showing neat cornice corner cap—obtained with no mitre cut.

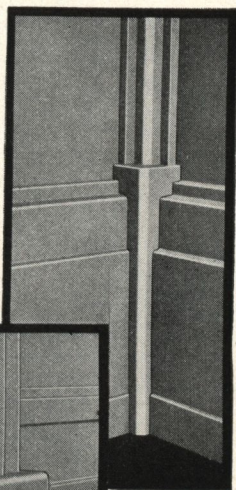


Figure 3
 A close-up of the inside corner plinth showing how it fits over the base and corner mold.

Figure 4
 Shows the outside corner plinth. A standard corner mold is used either inside or outside with standard corner post caps.

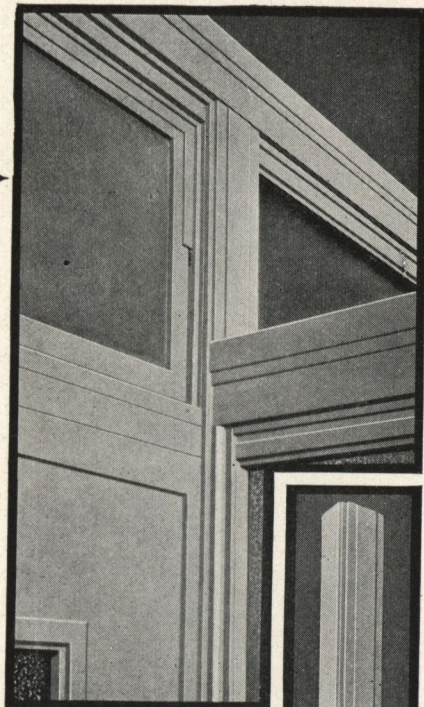


Figure 5
 Shows partitions of two different cornice heights joining. Note how the lower cornice frames into the standard posts with the appearance of being specially built, although it is all built out of standard sections. Notice the adjustment over the door, allowing the door to be brought down to proper relation with the floor, no matter what the floor conditions may be. The transom is operated by a concealed interior direct acting operating device, transom moves directly with the operating handle.

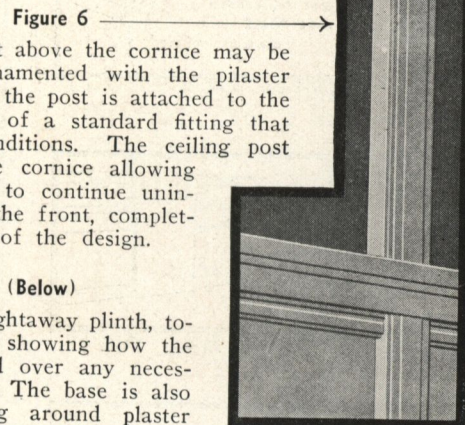
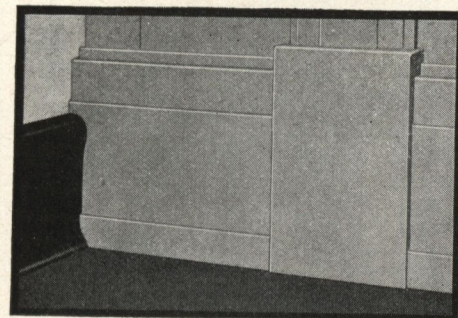


Figure 6
 The ceiling post above the cornice may be left plain or ornamented with the pilaster cap. The top of the post is attached to the ceiling by means of a standard fitting that will meet all conditions. The ceiling post goes through the cornice then to continue uninterrupted across the front, completing the neatness of the design.

Figure 7 (Below)
 Shows the straightaway plinth, together with base, showing how the base can be fitted over any necessary interference. The base is also adapted to fitting around plaster walls.

The structural member for ceiling post is the same as the reinforcing member in the cornice. The fact that the cornice trim snaps with a continuous snap, assures a close fit on all cornice joints, eliminating the necessity of splice plates. The partition can be readily split vertically for use in wainscoting, carrying the same panel design entirely around the room if desired.



SYNCHRO-FIT DESIGN AND CONSTRUCTION FEATURES

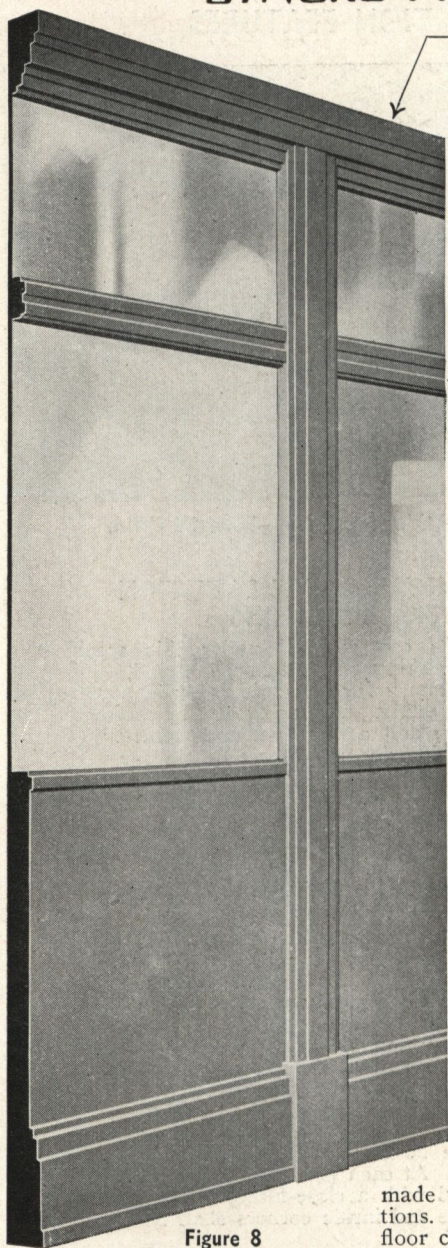


Figure 8

CORNICE

The structural member of the cornice is an exceptionally strong, light tubular section which tightly grips along the entire top of the partition panels, holding them in rigid alignment. The cornice trim of this structural member is held by continuous snap-on construction which insures perfect butt joints where cornice splices are necessary. The cornice is available for wiring at any point, and in taking down and re-erecting produces 100% salvage due to the fact that all cornice trim cut-offs are square, no matter whether they are used in straightaway, corner or three-way intersections. There is no necessity of welded mitres and tees being made in the factory to assure good joints in the field.

TRANSOM BAR

Although we recommend 2 1/8 in. as standard transom bar size, it is possible to expand it in width as may be desired to fit in a particular architectural scheme. Notice the transom bar is made of two plates and two members. This sewed seam is illustrated on page two. The two plates tenon end into the vertical posts and are tightly sewed in position.

CHAIR RAIL

The chair rail shown in the illustration at the left is narrow stream-line design, with 1 3/4-in. insulated panel. If preferred, the chair rail can be widened to conform in design with the transom bar, or to take care of single sheet, 3/8 in. laminated or 1 1/4 in. insulated as shown in the illustration. Note that due to the method of construction of the chair rail and transom bar, horizontal wiring conduits are automatically provided.

BASE

The 6-in. base is constructed of heavy gauge material properly designed for appearance and utility. The base is furnished in standard lengths, to conform to the panel standards. It is snapped on either side of the partition, over the base clip, to facilitate wiring application of plugs and wiring receptacles. It is locked tightly in place by a plinth block which hooks on with a positive hook. The base clip is adjustable up and down; the base, therefore, is

made to closely adhere to the floor under any conditions. Can be raised or lowered for carpet or linoleum floor covering.

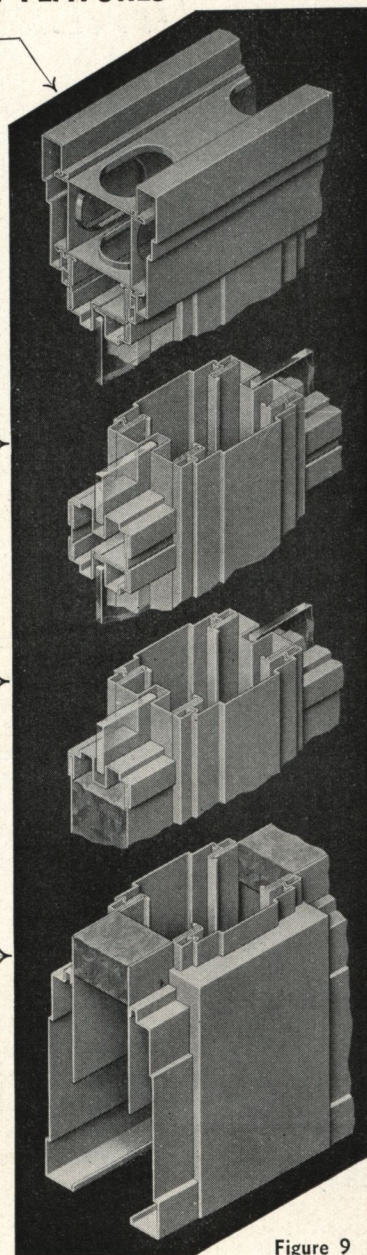


Figure 9

BASE CONSTRUCTION

Figure 10 shows a section through the bottom of the post with the post cap, plinth blocks and base removed, in order to show the base clip.

"E" is the base clip. "E 1" and "E 2" are the top and bottom members of the base clip over which the base moulding ("F") snaps. "E 4" is the shoulder of the base clip, extending around the post to hold the base clip rigidly in position. "E 5" is the top and bottom hook over which the plinth block locks.

The post clip is shown at "E 3." Notice the bottom one fits over the floor connection. The master shim ("E 6") and its "U" shaped plate shims ("E 7") can be added or taken away even after the partition is erected. The removal of the master shim allows partition to drop down for easy moving and changing.

The floor connection (Figure 11) allows 2-in. adjustment for uneven floors.

The entire partition layout can be made on the floor before any of the material arrives, due to the fact that it is not necessary at the time the floor screw is put in to have either the floor connection, or the accurate partition layout, as a floor condition for a straightaway, corner, three-way or door jamb are identical. BX cables can be carried through the base clips, as shown in the illustration, also vertically through the posts.

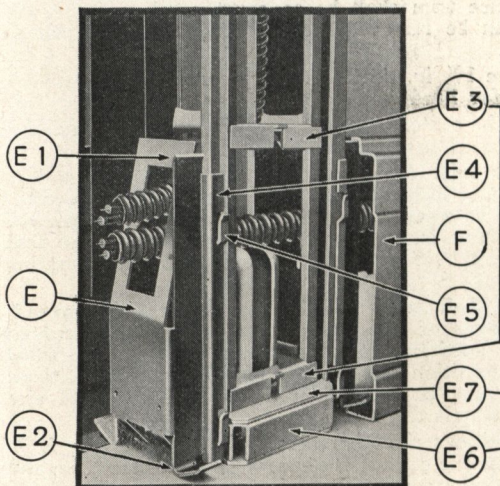


Figure 10 Base Clip

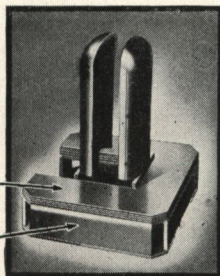


Figure 11 Floor Connection

SYNCR-FIT DESIGN AND CONSTRUCTION FEATURES

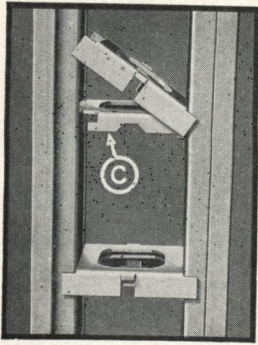


Figure 12 Post Clips

POST MEMBERS

The post is fabricated from two rolled shapes; a flange head and a plain channel. The face of this channel is formed into various contours to meet any condition. The outside last return of the flange head is used for holding the post clip (C) or pilaster cap in place by continuous snap-on over the entire length of the post member, insuring absolute tightness over the full length of the post.

The post members are rigidly sewed to the panel sheets or formed glass section as illustrated on page 1. The panels are held in perfect alignment by means of a two-piece clip illustrated in Figure 12. This same post clip is used for straightaway, corner, or three-way condition and is put in place without the use of bolts, screws, or distortion of the post member. It holds the posts in accurate relation to each other, due to the fact that one half is in compression and the other in tension. The clip is designed to allow wiring through any post in the vertical direction and can be placed in any position in the vertical length of post, as they do not depend on special preparation of the post for attachment. The post cap or pilaster cap is held in place by continuous snap-on, over the entire length of the post member, insuring absolute tightness over the full length of the post without rattle. The post clips and floor attachment are rustproofed.

CORNER CONSTRUCTION

Figure 13 shows a standard corner, with cornice trim removed from one side. Note the reinforcing member, and how it is rigidly attached to the top of the panels by means of crab clips guaranteeing perfect alignment and permitting outlet for wires at any desired point.

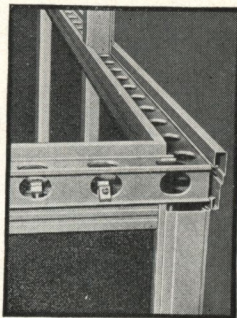
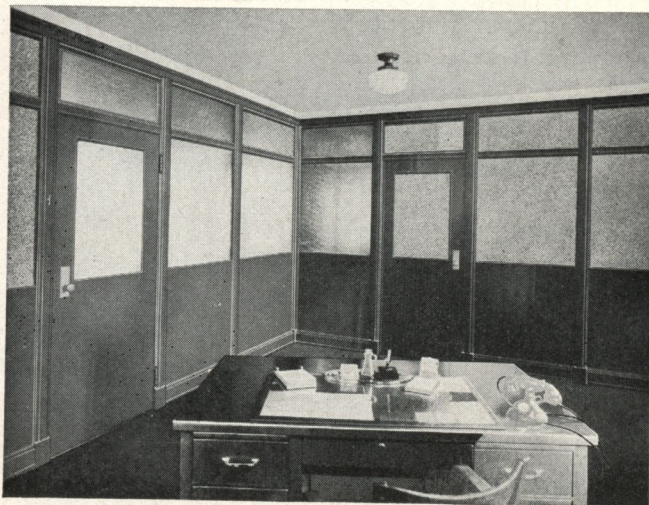
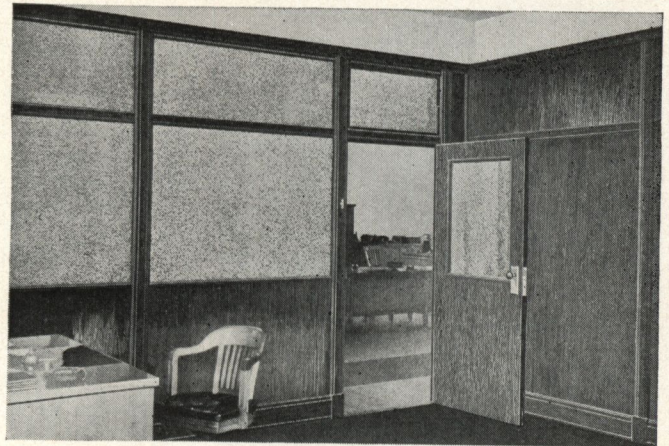


Figure 13



Synco-fit Partition Installation—Executive Office



Synco-fit Partition Installation—Executive Office

MILLS METAL OFFICE PARTITION SPECIFICATIONS

Work Required—As contemplated under this specification includes the furnishing of all labor, material, equipment, and services necessary for and reasonably identical to the furnishing and erecting, and glazing of all partitions shown on the drawings, and as hereinafter specified. (Except items noted as being done by others.)

The Partitions—Shall be built by the Synco-fit Method, as manufactured by THE MILLS COMPANY, 965 Wayside Road, Cleveland, Ohio. The partition shall be built in standard 1 $\frac{3}{4}$ -in. insulated panels, in widths of 4-in. multiples. No panel shall exceed 60 in. in width. The height shall be as shown on drawing (7 ft. 4 $\frac{3}{8}$ in., 8 ft. 9 $\frac{7}{8}$ in., 9 ft. 3 in. or 10 ft. 1 $\frac{1}{2}$ in. to the top of the cornice trim).

Panel—Intersections or posts shall be designed so straight run, corner or three-way post condition can be formed of standard panels, using the same standard clips. These clips shall be designed to properly space, and rigidly truss the partition in a vertical position without possibility of weaving. Suitable provision shall be made for attaching partitions to the floor and at the same time adjusting them for uneven floor condition. The partition base shall be constructed in panel sections. It shall be fastened so that it can move up and down, follow the contour of the floor and at the same be easily removed from either side to facilitate wiring. At each post intersection, the base shall be neatly covered with a close-fitting plinth block, locked in place. Outside and inside corners shall be filled with a neat corner mold.

Wiring conduits shall be provided in all horizontal members. Cornice trim shall be so constructed that the Tee partition can be removed from a run, without replacing the cornice.

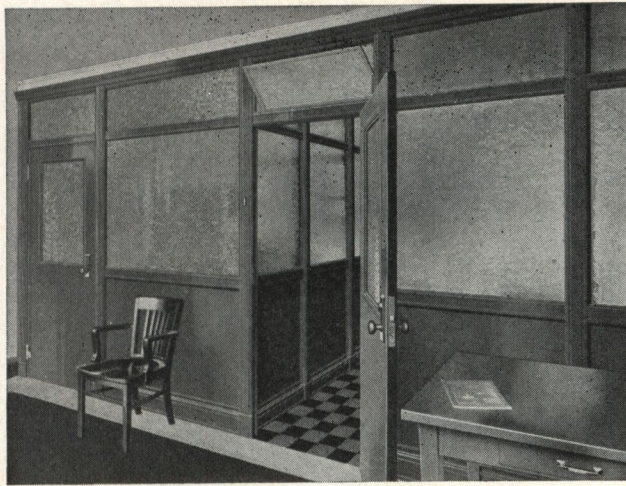
Doors—Shall be 1 $\frac{3}{4}$ in. thick, flush type and sound insulated, reinforced for hardware.

Transoms—To be center pivoted type to harmonize with architectural lines of partition.

Hardware—For each door to consist of 2—4 $\frac{1}{2}$ x4 $\frac{1}{2}$ -in. butt hinges, cylinder lock sets and door check. Transom hardware to be an operator of concealed type with external knob, extending through posts directly connected so that the transom moves at the same speed as the operating handle.

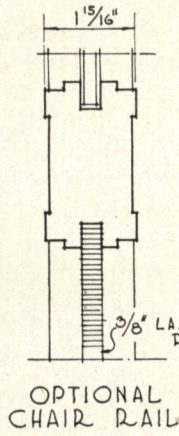
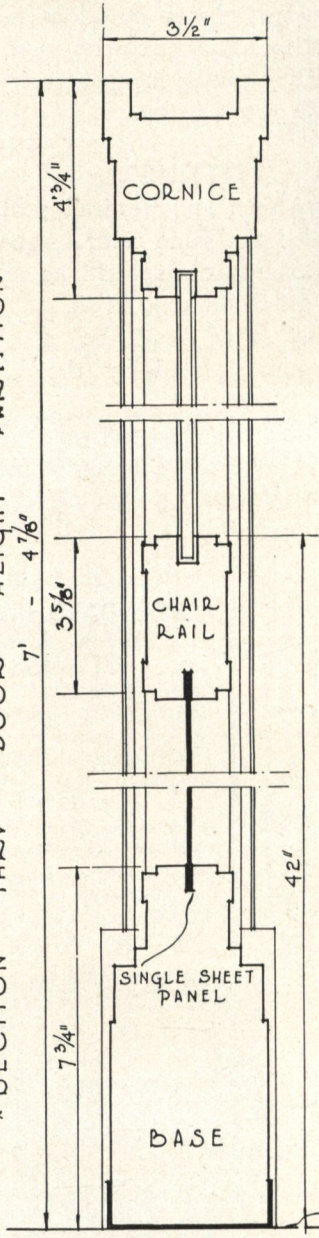
Ceiling Posts—Shall be furnished where required for exceedingly long runs of door height partition, shown without intersecting partition. Ceiling Posts shall be concealed within the partition and go through the cornice without cutting. Ceiling posts shall conform in design and size with other standard posts.

Finish—All partitions shall be thoroughly cleaned, free from oil, and given one coat of rust-proof enamel, baked on, and thereafter three coats of semi-gloss enamel, baked on separately. Color as selected.

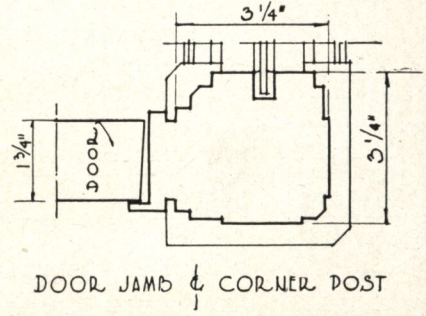
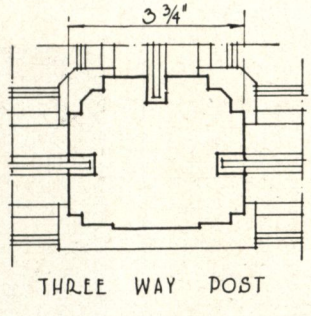
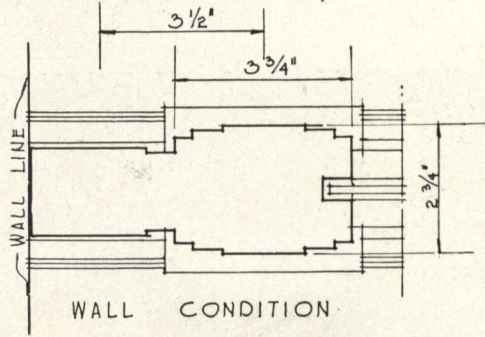
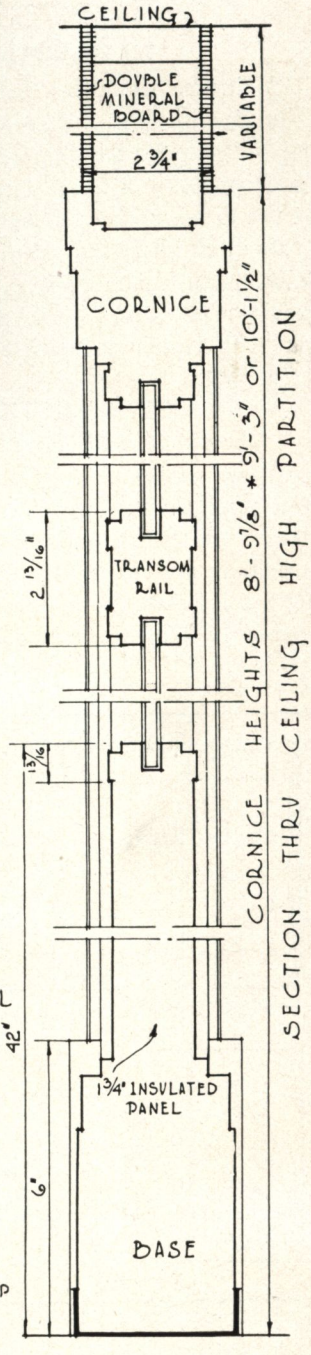
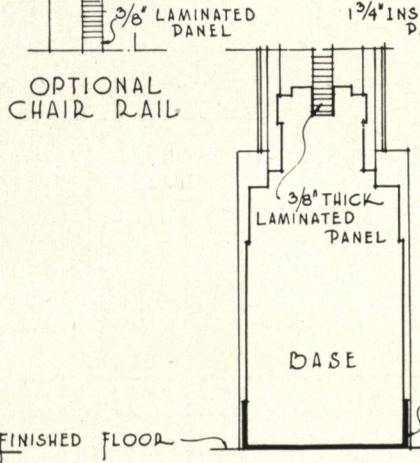
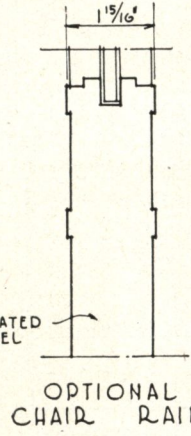


MODERN OFFICE WITH MILLS METAL SYNCRO-FIT STANDARD PARTITIONS

* SECTION THRU DOOR HEIGHT PARTITION *



RECOMMENDED STANDARD CORNICE HEIGHTS
 7' - 4 1/8"
 8' - 9 7/8"
 9' - 3"
 10' - 1 1/2"



DETAILS OF MILLS METAL OFFICE PARTITIONS
 'SYNCRO-FIT METHOD'

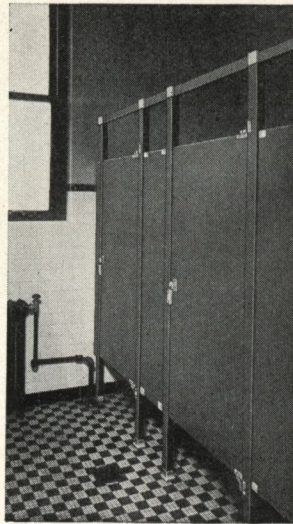
MARBLMETAL TOILET PARTITIONS

MARBLMETAL

To insure the permanent freshness of toilet rooms THE MILLS COMPANY engineers developed Marblmetal. A metal slab partition with all the advantages and none of the disadvantages of marble. The cost is about one-half that of marble. The absolutely flush surface with no corners, or crevices to gather dust, dirt or germs, makes thorough cleansing a simple matter.

CONSTRUCTION

The panels and doors are constructed with two sheets of steel interlocked on all four sides, giving five thicknesses of metal around the entire perimeter. The panels and doors are welded at all corners, forming a solid slab, $\frac{3}{4}$ in. thick, holding a $\frac{5}{8}$ -in. fibre filler



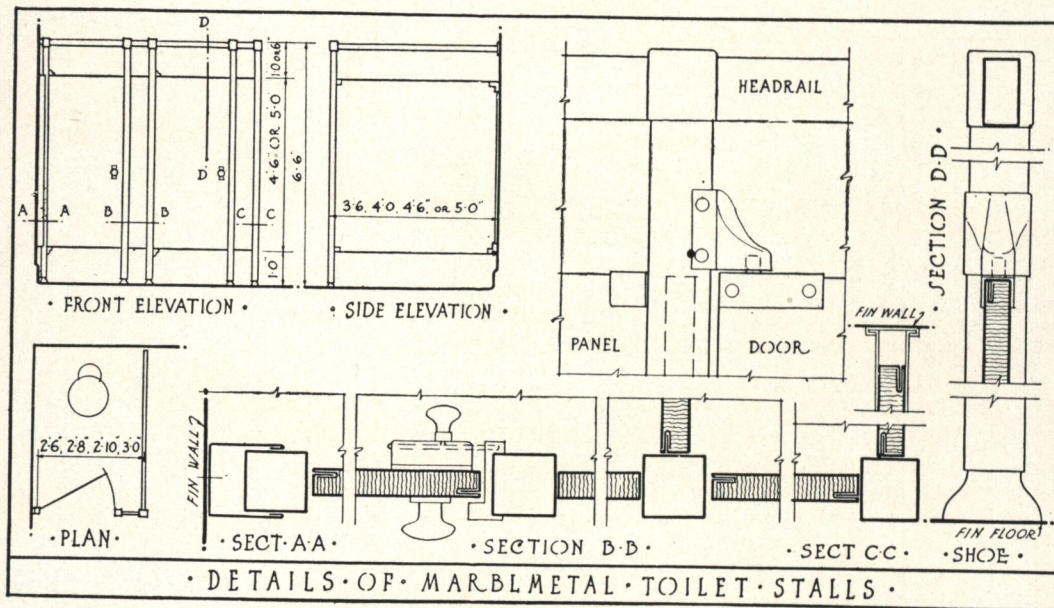
special binder, under pressure, making the panel flat, strong and rigid. These panels are non-porous, absorb no odors and can be finished to harmonize with your color scheme. They can be inexpensively refinished as the years go by.

FITTINGS

All panel trim and headrail post caps are enameled the same color as the partitions. Door hardware will be of aluminum in a ball burnish finish.

The post shoe will be of white metal cadmium plated by the Udylyte Process.

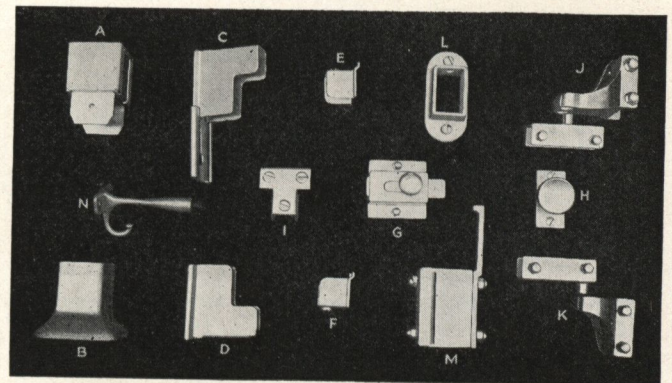
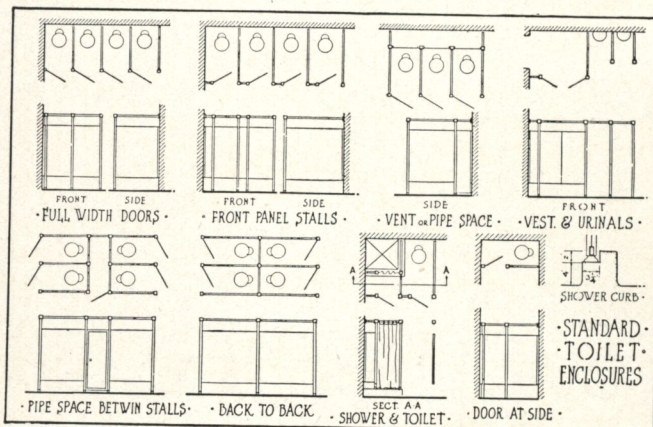
These enclosures meet the requirements of the most exacting sanitary engineers. Thru-bolted hardware and strong wall attachments are features of these enclosures.



STANDARD HARDWARE AND FITTINGS

- "A"—Post Cap
- "B"—Mills Famous Internal Shoe
- "C"—Top Wall Bracket
- "D"—Bottom Wall Bracket
- "E"—Top Panel Clip
- "F"—Bottom Panel Clip
- "G"—Sliding Latch
- "H"—Knob
- "I"—Tee Panel Bracket
- "J"—Top Hinge Assembly
- "K"—Bottom Hinge Assembly
- "L"—Headrail Wall Bracket
- "M"—Combination Bumper and Keeper
- "N"—Rubber Tipped Bumper Coat Hook

Note that all hardware is thru-bolted with bonnet head bolts, making the attachment of the hardware positive and secure.

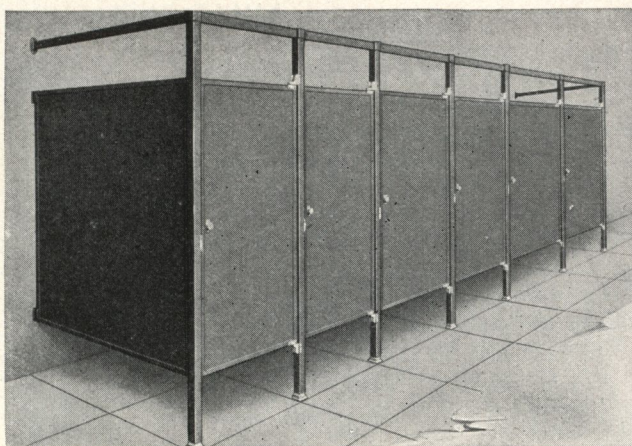


MILLS METAL STANDARD TOILET PARTITIONS

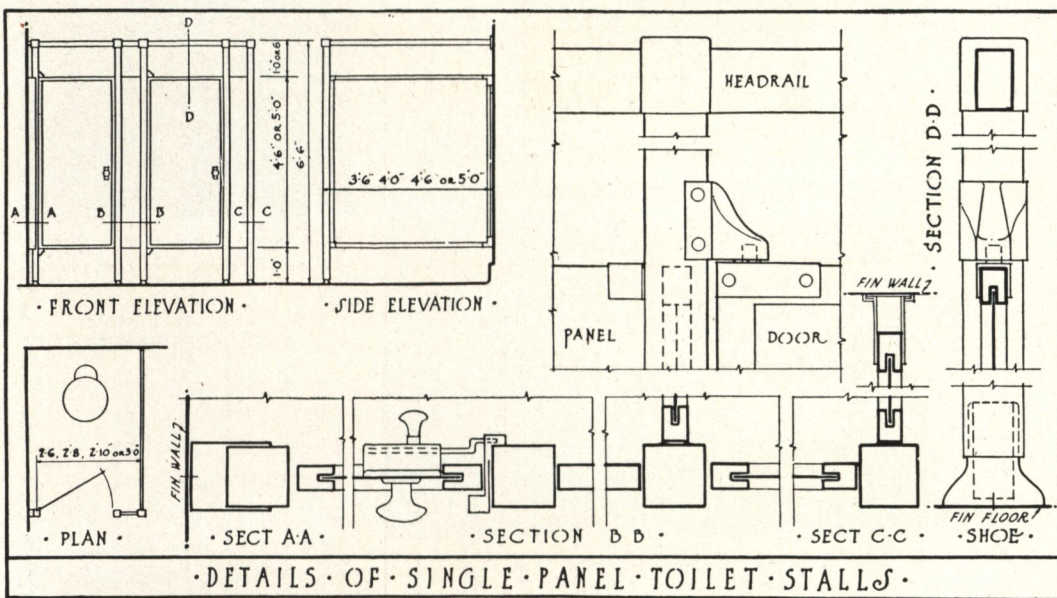
DESCRIPTION

The standard post is 78 in. in height. The standard panels are 54 or 60 in. high, set 12 in. off the floors, allowing 12 and 6 in. respectively, to the headrail. This is in accordance with the Department of Commerce Bureau of Simplified Practice Recommendation No. 101-29.

Built in units to permit any desired arrangement. Legs fit over rather than into shoes, eliminating all lodging places for dirt and not a single opening to admit water or hold moisture.



A Typical Installation



FINISH

Finished standard in olive green or gray. Special colors can be furnished at a small extra cost.

HARDWARE

See preceding page.

MARBLMETAL DOORS ON MARBLE

Marblmetal doors on marble have beauty, strength, and permanence. In illustration at left notice that hardware in circle has been enlarged to give you a closeup. Notice the perfect imitation of wood graining. These doors can be finished to harmonize with any color scheme. The low cost is a feature.

FITTINGS

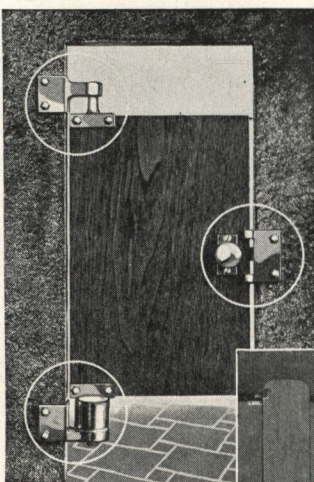
The hardware can be furnished for any thickness of marble. The hinges can be adjusted to bring doors to rest at any desired position. Special hardware has been designed to care for any new type of marble installation.

CONSTRUCTION

These doors are constructed of two sheets of steel interlocked on all four sides, welded at all four corners into a solid slab $\frac{3}{4}$ in. thick and holding a $\frac{5}{8}$ -in. fibre filler between. Panels are flat, strong and rigid. Metals other than steel may be supplied at an increased cost.

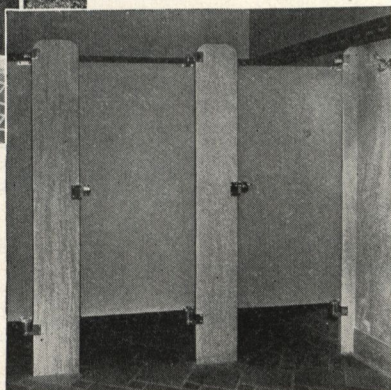
Mills standard toilet partitions can be adapted to any condition which may arise. The standard compartments, single or in batteries, are economical, strong and will stand extraordinary abuse.

Mills Marblmetal Partitions and doors are used in the finest buildings. Marblmetal doors on marble in their wide range of colorings and grainings provide quality with economy. (On preceding pages will be found more complete description of Mills hardware and trim.)



Above: Hardware in Circle Has Been Enlarged to Give Closeup. Note Doors Grained in Perfect Imitation of Wood

Right: Partial View of Recent Installation



MILLS METAL COMMERCIAL PARTITIONS

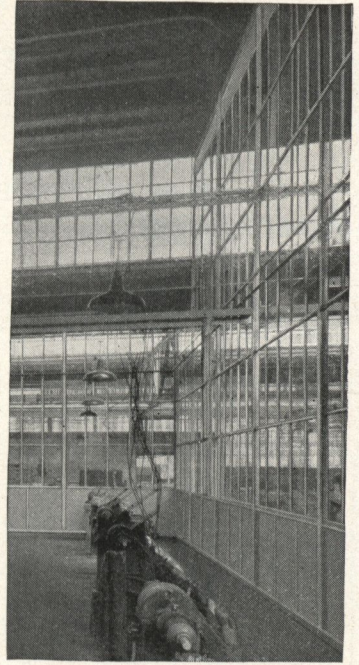
Made in standard size interchangeable units of 20, 30, 40, 50, 60, 80 and 100 in. wide and 42 and 21 in. high. Vertical connections between units are made by means of a 3-in. post to which all units are bolted, the units being joined horizontally by a substantial interlocking I-section. A standard door is interchangeable with any 40-in. unit.

Commercial partitions are adaptable for any factory use. Glass, wire mesh, grilles and ventilators are interchangeable in any standard unit. Panels interchangeable by means of intermediate rail connection.

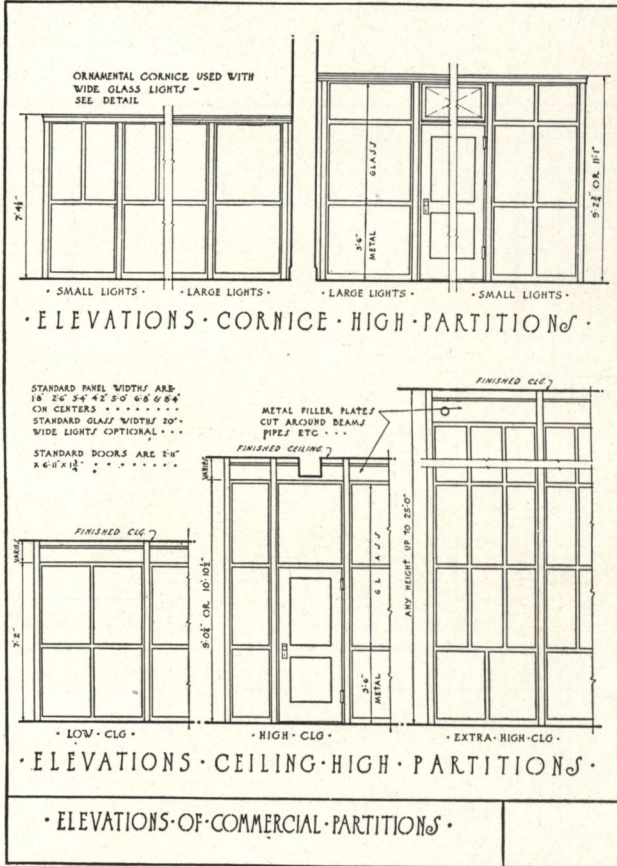
Telescoping floor channels provide adjustment up to 2½ in. so that the partition adheres tightly to uneven floors. Permits room for electric wires. The posts are punched so that wires may run across entire run of partition if desired. Because of its extreme durability, flexibility and attractive price our Commercial Partition is one of the most widely used partitions.

For Office Use

Narrow lights of glass may be replaced with wide lights, and box cornice replaced by an ornamental cornice, transforming the Commercial Partition into a neat and trim appearing office partition which is entirely suitable for many types of office.

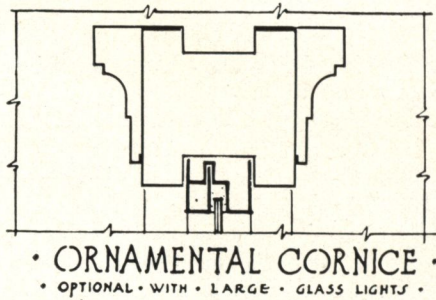
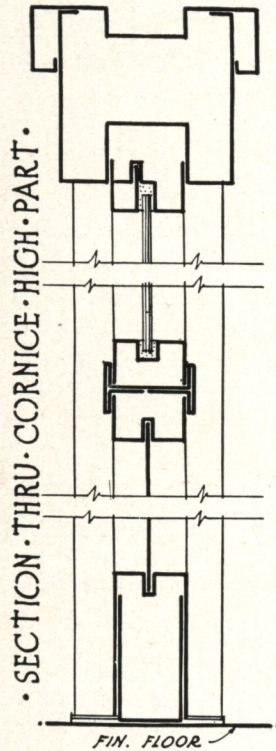


Mills Metal Commercial Partitions
Steel and glass—note exceptional height

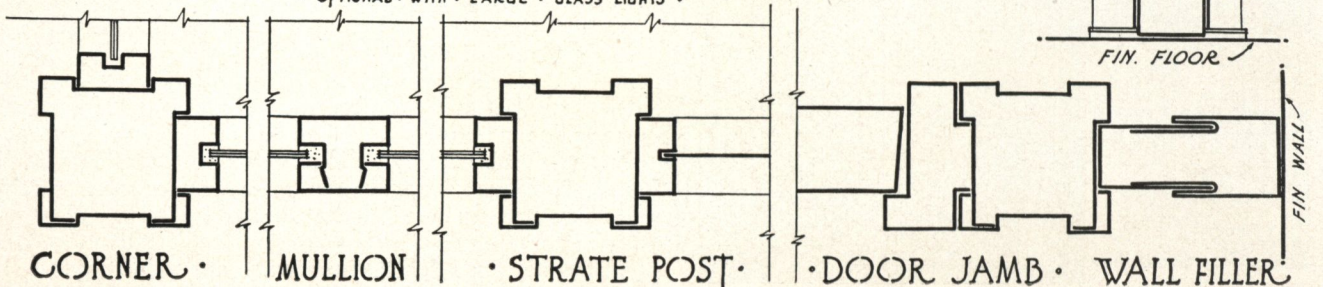
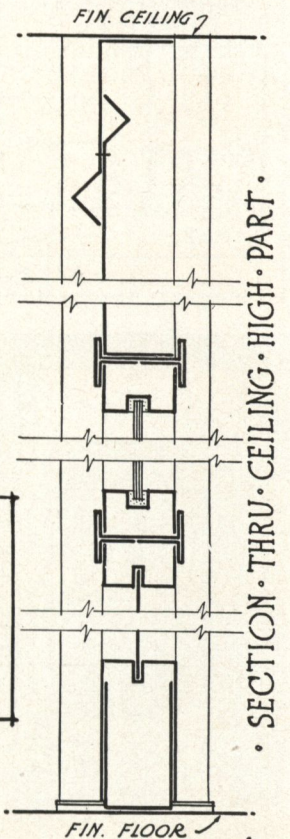


Finishes

Standard olive green. Any other color specified at small extra cost.

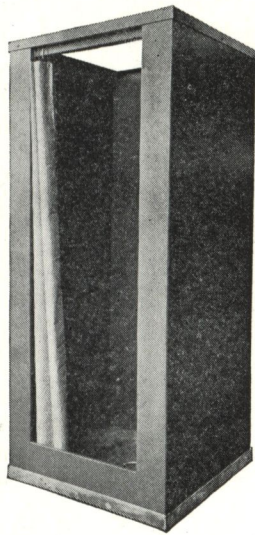


• DETAILS · OF ·
• COMMERCIAL ·
• PARTITIONS ·
SCALE 3" = 1'-0"



MILLS METAL UNIT SHOWER

The Mills *All Metal* unit shower is easy to keep clean and is absolutely water-tight and leak-proof. It is a self-contained unit, and it is not necessary to use any specially prepared floors or curb, such as marble, terrazzo, concrete or tile, with special waterproofing or lead pans. The natural floor without waterproofing is sufficient. This shower has its own waterproof, rustproof base and curb.



The shower head can be brought over the top or through the back or side.

Being of steel construction with water-tight joints which are completely finished before assembly, they will last indefinitely with a renewal of paint every two or three years.

FEATURES

This unit will not chip, sag or crack, due to vibration or settling of the building. It will not absorb odors. It is absolutely sanitary with well proportioned flush surfaces.

FINISH

Can be finished in a variety of colors and is an attractive part of any surroundings.

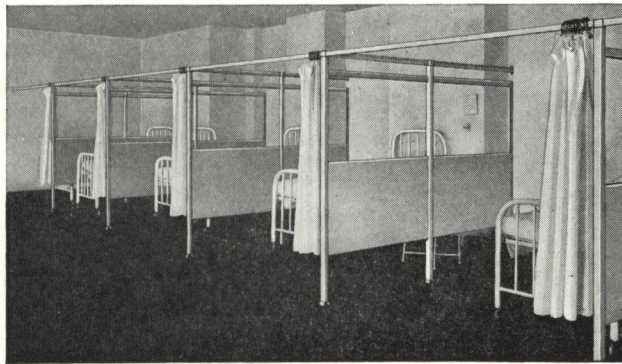
CONSTRUCTION

The walls of the compartment are built of interlocking watertight construction and extend to a height of 84 in. which is above the height of the average shower head.

MILLS METAL HOSPITAL CUBICLES

Our cubicles are manufactured either in Marblmetal or single panel construction.

Either style is built in multiple widths of 6 in. ranging in depth from 30 to 120 in. Where the depth of the cubicle is more than 60 in., an intermediate post is used in the center of the total dimensions. Glass may be either clear, reinforced or translucent, either single strength or 1/4-in. thickness.



Marblmetal Cubicle Installation

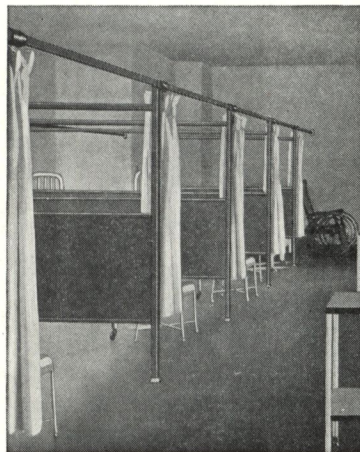
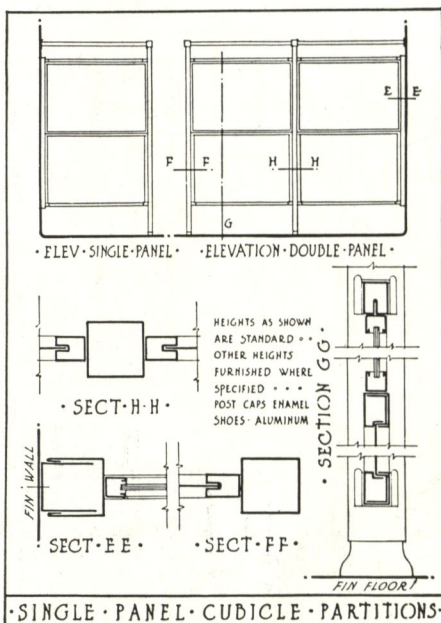
Thus the top of the glass line finished 6 in. below the headrail or 72 in. off the finished floor.

FITTINGS

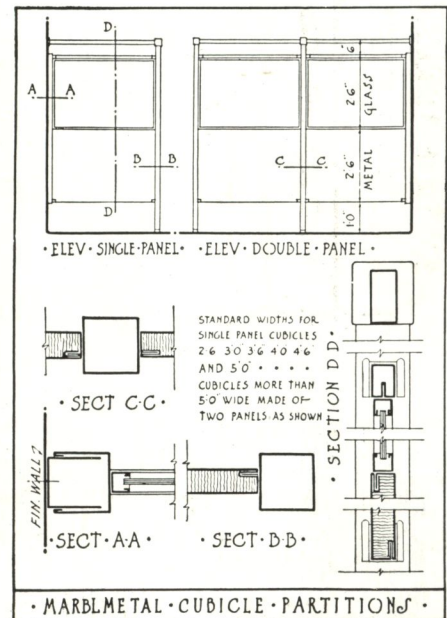
Shoes are Udylited to prevent rust. Post Caps and Wall Fittings are enameled to match panel finish. All fittings may be Chromium plated at a slight increase in cost.

FINISH

Standard baked enamel in colors to harmonize with the hospital scheme.



Single Panel Cubicle Installation





SYNCRO-FIT

THE MODERN METHOD OF
PARTITION CONSTRUCTION
DEVELOPED AND PATENTED

BY

THE MILLS COMPANY

965 Wayside Road

CLEVELAND . . . OHIO

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160 North La Salle Street
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SYNCHRO-FIT

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