

RMIFAB

FIXTURE CARRIERS

STRUCTURAL FEET

The feet are heavy duty cast ductile iron and invertible. No distinction is necessary between right and left hand. Each foot wraps around the specially formed edge of the carrier body extending only 7/8" (22) beyond the faceplate. This wrap around design allows for better seating with a continuous adjustment slot that covers the full mounting range. Slots at the tot and bottom provide additional means to instal the feet. The 18" (460) height covers most mounting requirements for both standard and ADA water closets.

EXTENSION

The extension includes a test cap and N.P.T. (tapered) threads. It is made of ABS plastic. The standard length is 8" (200) long and covers a 1" (25) minimum to 6 1/4" (160) maximum range. After system testing, the extension is easily cut off to meet the installation requirements.

HARDWARE

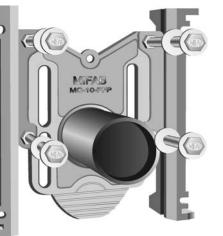
The hardware is cadmium plated, with chrome plated MIFAB cap nuts.

FITTING GASKET

The gasket is elastomer and is designed with a raised bead to provide a positive watertight seal between the fitting and carrier body. It is held in place at the fitting opening, eliminating awkward handling when attaching the carrier body to the fitting.

CARRIER FACEPLATE

The faceplate is lacquered cast iron, heavy duty and invertible for use with siphon jet or blowout water closets. Breakaway tabs and elongated mounting slots accommodate the full range of standard and wheelchair roughing-in heights. It slides into the groove in the structural feet to form a rigid assembly.



OPTIONAL ANCHOR FOOT

The anchor foot is heavy-duty lacquered cast iron, which provides three-point support. Adjustable threaded rod attaches the foot to the fitting. A single anchor bolt secures the foot to the floor. (Specify suffix -3)

Design and dimensions are subject to modification. Prices do not include applicable taxes.



Fixture Carrier Selection Guide

ADVANTAGES OF OFF-THE-FLOOR PLUMBING FIXTURES

Off-the-floor plumbing fixtures are easily the most widely used plumbing fixture in commercial building today. As the name implies, no part of the fixture touches the floor of the installation. The fixture is mounted to steel studs protruding through the wall from a carrier support in the pipe chase. This carrier support is anchored to the chase floor and receives the fixture load. The advantages of off-the-floor fixtures, as opposed to floor mounted fixtures, are numerous. The most obvious advantages - installation, maintenance, sanitation and aesthetics - are presented here.

1. INSTALLATION

The installation of floor mounted fixtures can be costly and time-consuming to the job. Floor mounted fixtures require slab penetration and sleeving at each location. The resulting waste piping is run under the slab, thus creating a need in multi-story buildings to provide a false ceiling for concealment purposes. The piping assembly also requires special consideration as it is usually accomplished piece by piece during installation. By comparison, the off-thefloor fixture installation does not involve slab penetration in the toilet room. Since all piping is behind the wall, there is no need for ceiling modification. And off-the-floor support systems are fairly modular in design, allowing for prefabrication, on or off site, before installation. All this contributes to substantial savings in time and cost.

2. MAINTENANCE

Both floor mounted and off-the-floor plumbing installations may have similar mechanical service requirements; however, due to their inherent characteristics, the off-the-floor installations are generally considered easier to service and maintain.

3. SANITATION

The most important consideration of toilet room design is sanitation, the ability to maintain a clean environment. The floor mounted fixture installation directly opposes this consideration. The base of the fixture magnetically attracts dirt that is difficult, if not impossible, to remove. Floor deterioration in the area of fixture contact also contributes to unsanitary conditions. The clearance that the off-the-floor fixture installation provides immediately resolves the problems of floor mounted design. Complete sanitation is easily maintained with normal cleaning.

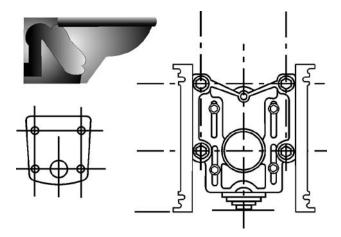
4. AESTHETICS

Aesthetic appeal is an important consideration in deciding upon fixtures. The clean, smooth lines of off-the-floor fixtures complement today's contemporary toilet room designs.

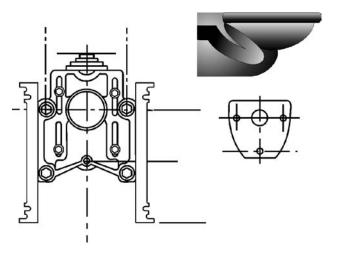
TYPES OF WATER CLOSETS

There are two types of water closets commonly used in commercial installations: siphon jet and blowout. The MIFAB closet carrier can be used to mount either type.

SIPHON JET WATER CLOSETS use siphonic flushing action to evacuate the bowl. This is a quiet and economical type of flushing action that provides quick, efficient results. The large water surface area of the bowl, for better sanitation, is another desirable feature of the siphon jet water closet. The siphon jet closet mounts to the carrier with four mounting studs.



BLOWOUT WATER CLOSETS use a direct jet stream for bowl evacuation. This type of flushing action is rapid and forceful and primarily used in heavy duty installations such as stadiums and terminals. Due to this powerful flushing, the blowout water closet is noisier in operation than the siphon jet. The blowout closet mounts to the wall with three mounting studs. NOTE: It is highly unadvisable to mount Blow-out type water closets in a "Back to Back" type installation.



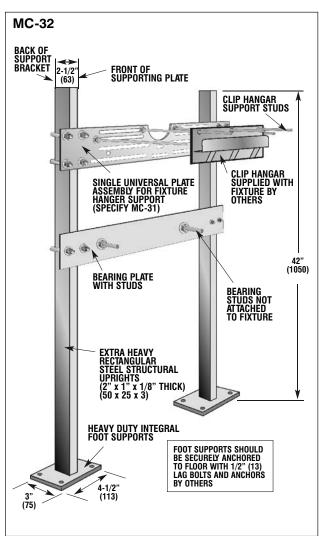


Fixture Carrier Selection Guide (Cont'd.)

FIXTURE CARRIERS

PLATE TYPE CARRIERS

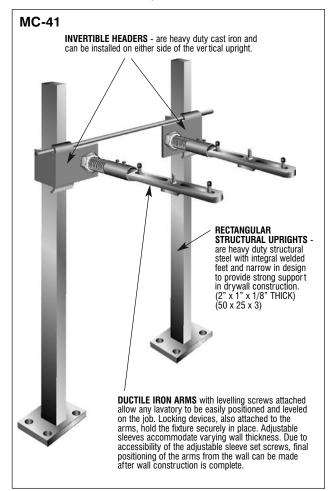
The MIFAB plate type floor mounted fixture carriers have been developed to accommodate the majority of hanger plate supported fixtures such as urinals, plate type lavatories and water coolers for support independent of the wall. The MIFAB universal backing plate provides adjustment for a wide variety of fixtures from most manufacturers.

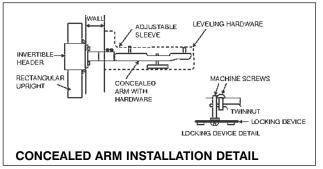


Carriers are provided with complete installation instructions for customer convenience.

CONCEALED ARM CARRIERS

MIFAB concealed arm lavatory carriers can be used with any lavatory fixture that has been drilled for concealed arm supports. This concealed arm support consists of ductile iron arms with leveling and locking hardware. These arm assemblies are available in two lengths to accommodate standard and wheelchair fixtures. After carrier installation and completion of wall construction, final adjustment can be made to the arm and sleeve assembly. Then the fixture is slid over the arms. Level and locking are accomplished through openings in the fixture itself. Installation is then complete.





Design and dimensions are subject to modification. Prices do not include applicable taxes.



Fixture Carrier Suggested Specifications

WALL HUNG CLOSET CARRIERS

Wall Hung Water Closets shall be supported independently of the wall by MIFAB Series MC-1(*) carrier fittings with ductile iron adjustable foot supports. Where space permits, waste piping shall be run horizontally above the floor and MIFAB Series MC-10 series single or double carrier fittings shall be

Connection to the stack in a horizontal run shall be a TY or a MC-13 carrier fitting. Where pipe space is limited, or where single fixtures are installed use MIFAB MC-14 Series. Where fixtures are located on common waste/vent stacks use MIFAB Series MC-15 series carrier fittings.

* Series number denotes horizontal, vertical adjustable or vertical fixed water closet carrier.

WALL HUNG URINALS

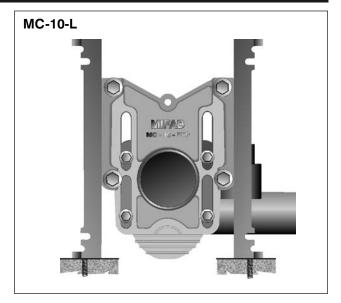
Wall Hung Urinals shall be supported independently of the wall by MIFAB Series MC-32 Series Urinal Carrier with two supporting plates, heavy-duty rectangular steel uprights with integral welded feet.

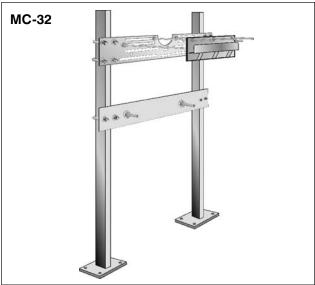
WALL HUNG LAVATORIES

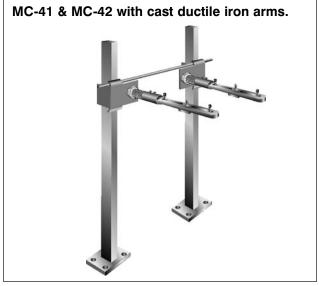
Wall Hung Lavatories shall be supported independently of the wall by MIFAB Series MC-40 Series Lavatory Carrier with heavy duty rectangular steel uprights with integral welded feet. Wherever possible, fixtures shall be supplied with access for concealed arm supports and MIFAB Series MC-41 with cast ductile iron arms shall be used. Supply chrome plated escutcheons on slab type lavatories. Where fixtures are not available with access for concealed arms, fixtures shall be supported by MIFAB Series MC-31 or MC-32 for plate supported lavatories, or MC-40 for exposed arms.

WHEEL CHAIR LAVATORIES

Wheel chair lavatories shall be supported independently of the wall by MIFAB Series MC-42 Lavatory Carrier with extended cast ductile iron concealed arms and heavy duty rectangular steel uprights with integral welded feet.







Design and dimensions are subject to modification. Prices do not include applicable taxes. Visit www.mifab.com for the most recent product information.



TYPICAL CLOSET CARRIER LAYOUT

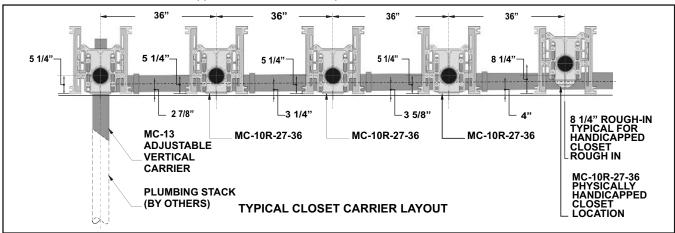
ANSI Standard A-112.19.2, Vitreous China Plumbing Fixtures, paragraph 5.1.3.3 states that a "Physically Handicapped" water closet is a siphon jet design that is positioned 18" from the finished floor to the top of the rim.

The closet carrier layout detailed below has the following common installation dimensions:

- * Waste piping is pitched at 1/4" per foot
- * Centerline of the regular water closet outlets to the finished floor is 5 1/4"
- * Regular water closet rim to the finished floor is 15 1/4"
- * Centerline of the physically handicapped water closet outlet to the finished floor is 8 1/4"
- * Physically handicapped water closet rim to the finished floor is 18"

The regular water closets are supported by MIFAB's MC-10-27-36 long barrel carrier fittings that are produced with a 36" long barrel. This can save the installer time and material by not having to purchase and cut waste pipe to install between standard "short barrel" carrier fittings (MC-10 Series) that are 13" long.

Note that physically handicapped water closets can also be installed onto the MC-13, vertical, adjustable carrier by positioning the centerline of the 4" female threaded nipple connection in the faceplate 8-1/4" from the finished floor.

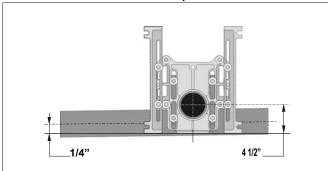


Up to a maximum of ten fixtures may be installed on either side of the stack fitting provided that the waste drain piping is pitched 1/8" per foot.

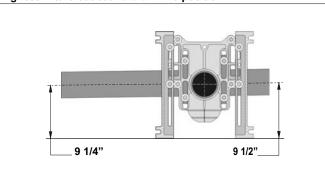
CENTER LINE OF FIXTURE

ADJUSTMENT RANGE OF MIFAB'S MC-10 AND MC-13 SERIES CARRIER FITTINGS

Lowest fixture outlet and drain line position



Hiahaet	fivtura	Autlat	and	drain	lina	position
HIGHESE	IIALUIE	oullet	ailu	uialli	IIIIE	มบอเนเบเ



OUTEET HEIGHT THOM	THOM THE TIMOHED LEGGH					
FINISHED FLOOR	MINIMUM	MAXIMUM				
4 1/2"	4 1/2"	1/4"				
4 3/4"	4 1/2"	1/2"				
5"	4 3/4"	3/4"				
5 1/2"	5 1/4"	1 1/4"				
6"	5 3/4"	1 3/4"				
6 1/2"	6 1/4"	2 1/4"				
7"	6 3/4"	2 3/4"				
7 1/2"	7 1/4"	3 1/4"				
8"	7 3/4"	3 3/4"				
8 1/4"	8"	4"				
8 1/2"	8 1/4"	4 1/4"				
8 3/4"	8 1/2"	4 1/2"				
9"	8 3/4"	4 3/4"				
9 1/2"	9 1/4"	5 1/4"				
i catana ant na na						

Note: For all rough-in heights, the closet carrier fitting has a 4" vertical adjustment range. This is to ensure that there is enough drainage pitch on long runs.

Design and dimensions are subject to modification. Prices do not include applicable taxes. Visit www.mifab.com for the most recent product information.

CENTERLINE DRAIN LINE POSITION

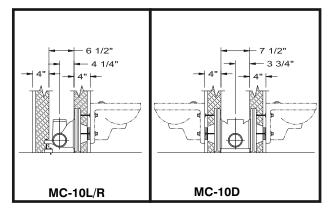
HORIZONTAL AND VERTICAL ADJUSTABLE / FIXED CLOSET CARRIER MINIMUM SPACE REQUIREMENTS

Dimensions shown are minimum assuming carrier face plate and foot are built in wall and minimum length shortened coupling is used.

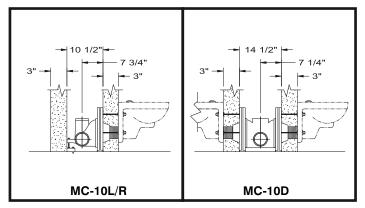
Dimensions shown are minimum assuming carrier fitting, face plate foot and rear anchor foot are located in pipe chase.

HORIZONTAL ADJUSTABLE CARRIERS

IN WALL

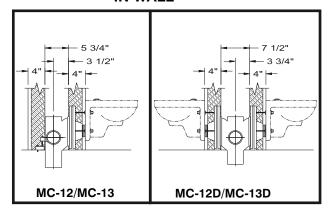


IN PIPE CHASE

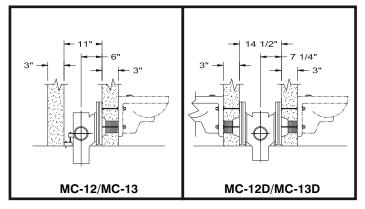


VERTICAL ADJUSTABLE CARRIERS

IN WALL

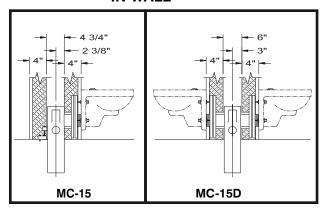


IN PIPE CHASE

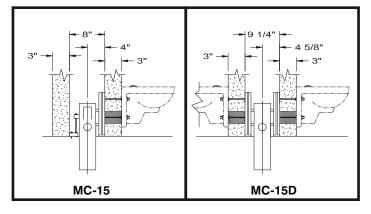


VERTICAL FIXED OFFSET CARRIERS

IN WALL



IN PIPE CHASE



Design and dimensions are subject to modification. Prices do not include applicable taxes.