Installation Manual

FORM™ FOOTWALL
(floating)
OVERVIEW
The Form™ is a UL-listed configurable footwall system. This system can include any combination of base cabinets, upper cabinets, wardrobes, and sink modules. Horizontal equipment channels can be integrated into the fascia of the unit which provide mounting points for a variety of accessories. Electrical and plumbing services can be included on certain models.

This document gives installation instructions specific to floating footwalls (mounted on the face of an existing partition and not contacting the floor). The illustrations shown in this document are examples which will be similar to but not exactly like all footwalls in this category. Installation instructions for floor-mounted units are provided in a separate document.

UNPACKING AND INSPECTION
1. Upon receipt of units and prior to unpacking, inspect shipping containers for damage. Document any damage found and notify the carrier and Modular Services Company.
2. Locate the carton for the unit you wish to install. Labels at each end of the carton identify the unit type and general description of contents, as well as the room number or area of installation (if applicable).
3. Unpack the unit from shipping container, taking care not to damage the unit.
4. Verify that all components are included, according to the packing slip.
5. Inspect the units for defects in materials or workmanship prior to installation. It is the responsibility of the customer to report any damage or deficiencies to Modular Services Company immediately upon discovery.

PREPARATION
Review the final approved shop drawings and the submittal booklet, which will provide you with technical details specific to your installation, such as:
- Equipment types and quantities
- Room numbers and location in the building (if applicable)
- Electrical requirements (if applicable)
- Structural blocking requirements
- Rough-in template locations, if applicable (for back-fed units only)

STRUCTURAL BLOCKING
Structural blocking must be provided in areas shown in Figure 1 for proper footwall anchorage. Blocking typically consists of 2”x6” wood framing members or steel channel, minimum 16 ga. thickness. The width of the blocking must be greater than the width of the footwall to allow for varying site conditions while continuing to provide structural support to the far outside edges of the unit. Modular Services recommends extending the blocking to at least the next stud beyond the edge of the unit. Exact location of blocking is dependent on job-specific model of headwall being used and can be found on job-specific drawings.
TEMPLATE INSTALLATION (if applicable)

For back-fed footwalls, the rough-in service plates must be installed on the stud wall before the interior finish. The horizontal and vertical location of the service plates are noted on the shop drawings included with the rough-in assemblies. These assemblies must be installed within 0.25" of the horizontal and vertical center lines to ensure proper fit and function of the finished footwall.

NOTE: This step is not relevant to units having junction boxes located above the finished ceiling.

UNIT INSTALLATION

1. Install the floating base of the footwall by first marking the vertical center line and horizontal slot location lines on the wall near the center of the footwall location. Position the floating base assembly so that the center mark notch is on the vertical center line and the horizontal lines marking the mounting slots are centered within the slots. Temporarily secure the floating base to the wall with one #12 fastener (by others) near the center of the base (this screw may need to be moved in later steps). Level the base and secure the far left side to the wall with a #12 fastener (this screw is to remain permanently).
2. Place left wall section on the floating base and secure it to the base with two #8 sheet metal screws (provided) up through the bottom (Figure 4). **NOTE: Check the side of the wall section to make sure that it is plumb and level; adjust as necessary** (this may require removing the temporary screw holding the floating base to the wall near the center of the base). Then secure the top of the left section to the wall with two #12 fasteners (by others) at the top anchor plate into the structural blocking, as close to the footwall studs as possible. Finish securing the floating base to the wall using #12 fasteners with spacings no greater than 16" and with one fastener as close to the right end of the base as possible.

3. Install the next wall section by engaging the tabs on one stud into the slots of the adjoining stud and then moving the wall section down to lock the studs together (Figure 5). Install two #8 screws (provided) through the base and #12 fasteners (by others) at the top and middle anchor plates into the structural blocking, as close to the outside edges of the wall section as possible.

4. Repeat the process above to install remaining sections, making sure to secure the right-most section of the footwall to the structural blocking as close to the outside edge as possible. (Figure 6).
MEDICAL GAS CONNECTIONS (if applicable)

Medical gas outlets are pre-manifolded and terminated near the top of each section, or as indicated on the approved drawings.

1. Use extreme care in making medical gas service connections.
2. Each single-point connection has been provided with a color-coded medical gas label.
3. All medical gas connections are to be made and tested in accordance with NFPA 99.

ELECTRICAL CONNECTIONS (if applicable)

1. Make sure all electrical power circuits are locked off prior to hook up.
2. Review wiring diagram or shop drawing.
3. All connections are labeled on the unit at the point of connection.
4. Connect electrical service according to wiring diagram, being careful to observe labeling at service connection junction boxes.
5. For back-fed units, proper installation of wiring bushing plates is essential for proper grounding continuity between footwall and rough-in template (Figure 7).
   a. Feed wiring from template junction box through the bushing plate into the footwall junction box.
   b. Secure bushing plate to the template junction box using 6-32 machine screws (provided).
   c. Secure bushing plate to the footwall junction box using four #8 self-drilling screws (provided).
6. Test equipment in accordance with NFPA 70 (The National Electrical Code), in addition to any applicable state or local codes.

Figure 7.
CABINET, PANEL & TRIM INSTALLATION

1. Install base cabinets by first hanging the individual cabinet modules on the frame via the hanger brackets (Figure 8). The bottom of the module should rest on the bottom stops attached to the frame. Next, align the individual modules and secure them together using 1-1/4” wood screws through the sides of the modules. Then adjust the leveling feet under the front edge of the cabinet bases so that the top of the cabinets are level and all leveling feet are snug to the floor.

2. Install the panels by engaging the hanger brackets. There are four brackets on each panel near the corners. Align panels, making sure they are fully seated on lower cabinets and that the outside edges of the panels are flush with the outside edges of the base cabinets (Figure 9).
3. Install the upper cabinets by engaging the hanger brackets. Align the individual modules with each other and with the panels below. Upper cabinets should be fully seated on panels below and the outside edges of the cabinets should be flush with the outside edges of the panels. Then secure the upper cabinet modules together using 1-1/4" wood screws through the sides of the modules (Figure 10).

4. The soffit assembly will likely require adjustment of the trim molding due to varying floor and ceiling conditions. Place the soffit on the upper cabinets and measure the distance between the molding and the finished ceiling. Remove the soffit and make the necessary adjustments by loosening the screws of the adjustment brackets on the inside of the soffit assembly, moving the molding the distance previously measured, and re-tightening the screws to hold the molding in place (Figure 11). Replace the soffit on the upper cabinet and ensure that the molding fits properly to the ceiling with no gaps; repeat previous adjustment procedure as necessary until molding is properly aligned. Next, align the soffit to the upper cabinets, making sure the front face of the soffit is flush with the front face of the doors on the upper cabinets and the sides of the soffit are flush with the sides of the upper cabinet. When properly aligned, secure the soffit to the upper cabinets using 1-1/4" wood screws up through the top of the upper cabinets into the soffit.

5. Secure all of the cabinet modules to the frame using the provided #12 x 1-1/2 TEK screws at each mounting hole location, four per module (Figure 12). Use #12-24 x 2" TEK screws at all four points on upper cabinets but only the bottom two points on lower cabinets. Use 1/4"-14 x 2-3/4" TEK screws on upper mounting points of lower cabinets. Cover all screw heads (screws used in this step, as well as those used to secure the modules together in previous steps) with the provided adhesive-backed screw cover dots.
6. The counter top is to be installed by placing on top of the lower cabinets and adjusting for proper alignment.
The countertop should engage the panels at the back and overhang each side of the lower cabinets and equal amount. Secure the countertop in place, using silicone adhesive in the joint of the stretcher on the underside of the countertop (Figure 13).

7. Install backsplash by applying silicone adhesive on the back side of the backsplash and pressing in place. Ensure that the outside edges of the backsplash are flush with the outside edges of the countertop (Figure 14).

8. Caulk the backsplash at the top where it abuts the panels, and at the bottom where it rests on the countertop (Figure 15). (Caulking provided by others.)
9. Install side trim assemblies on both sides of the unit (Figure 16). The trim assemblies interlock to the studs similar to the way the frame sections interlock. The top of the trim assembly must be tucked behind the trim molding of the soffit at the top. Engage the tabs of the trim assembly into the slots of the stud and move the assembly downward into position. The bottom of the trim assembly should be flush with the bottom of the lower cabinet frames, not including the bases. The plastic trim which abuts the wall surface is designed to flex in order to provide an attractive transition to the wall. However, if the wall surface is excessively untrue making the installation of this assembly difficult or impossible, the plastic trim can simply be removed and discarded.

**PLUMBING CONNECTIONS (if applicable)**

- Faucet Installation – Follow manufacturer’s installation instructions.
- Sink drain installation – Make drain connections in accordance with National Plumbing Code and/or any specific state and/or local codes having jurisdiction.
- Standard trim rings for supply and drain lines provided by others.

**INSTALLATION TERMS AND CONDITIONS**

Each Modular Services unit, or unit section, shall be completely pre-wired for normal, emergency and low voltage according to the approved submittal. Communication devices and wiring shall be supplied by others. These devices include nurse call, television, code blue, telephone, monitor jacks, etc.

The customer shall be responsible for all incoming electrical conduits, wiring hook-up of electrical services, and if applicable, interconnect wiring between sections. All hardware light fixtures shall be installed, connected and lamped by contractor. After installation is complete, the customer shall test equipment functions, as well as electrical receptacles and ground, in accordance with the National Electrical Code.

Medical gas contractor shall be responsible for incoming piping and hook-up of all medical gas services. The medical gas contractor shall be responsible for purging, pressure testing, gas identification, and system certification in accordance with NFPA 99.

Modular Services Company shall have no responsibility or liability for delays, however caused. Owner shall hold Modular Services harmless from damages or injury related to any failure or neglect of owner, its employees, agents or licensees. Modular Services shall not be liable for consequential damages; makes no warranties, expressed or implied; and assumes no obligation other than those expressly contained herein.

**WARRANTY**

Modular Services Company warrants that all equipment assemblies shall be free from defects in material and workmanship for a period of 12 months from the date of the owner’s acceptance to the installing contractor or the date the equipment is put into service, whichever comes first. Warranty excludes electric lamps and/or any material not furnished by Modular Services. Warranty does not cover damage due to improper installation and/or abuse.

It is the responsibility of the customer to report any noted product deficiencies to Modular Services immediately upon discovery. It is the responsibility of Modular Services to expediently resolve the discrepancy. Any modification made to the product without the written authorization from Modular Services will void this warranty.

Also, in the event product modifications or repairs are made without the written consent of Modular Services, Modular Services shall not be held liable for any cost associated with the modification or repair.

**There are no warranties of fitness which extend beyond the description on the face hereof.**