These installation guidelines describe how to install the Compass™ Patient Care Headwall.

Prior to installation, please carefully read and familiarize yourself with all of the Guidelines
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of Contents</td>
<td>iii</td>
</tr>
<tr>
<td>Product Overview</td>
<td>v</td>
</tr>
<tr>
<td>Cautions</td>
<td>vii</td>
</tr>
<tr>
<td>Installation of Wall Rails  TW100</td>
<td>9</td>
</tr>
<tr>
<td>Alternative Method for installing the lower wall rail</td>
<td>12</td>
</tr>
<tr>
<td>Pre-piped and Pre-wired Compass Headwalls</td>
<td>15</td>
</tr>
<tr>
<td>Hanging the Headwall Sections</td>
<td>15</td>
</tr>
<tr>
<td>Connections between sections</td>
<td>20</td>
</tr>
<tr>
<td>Compass Headwalls where services are connected above the ceiling</td>
<td>21</td>
</tr>
<tr>
<td>Compass Headwalls that are connected behind the tiles</td>
<td>22</td>
</tr>
<tr>
<td>Contractor Assembled Compass Headwalls</td>
<td>23</td>
</tr>
<tr>
<td>Installing the Utility Support Rail  [TW170]</td>
<td>29</td>
</tr>
<tr>
<td>Installing Electrical &amp; Data Utility Boxes</td>
<td>30</td>
</tr>
<tr>
<td>Installing Electrical Devices</td>
<td>32</td>
</tr>
<tr>
<td>North American Devices</td>
<td>32</td>
</tr>
<tr>
<td>International Electrical Receptacles [Sockets]</td>
<td>32</td>
</tr>
<tr>
<td>Installing Medical Gas Outlets</td>
<td>33</td>
</tr>
<tr>
<td>North American Medical Gas Outlets</td>
<td>33</td>
</tr>
<tr>
<td>International Medical Gas Outlets</td>
<td>34</td>
</tr>
<tr>
<td>Parkodex Outlet  [India]</td>
<td>34</td>
</tr>
<tr>
<td>Conduit, Wiring, and MedGas Piping</td>
<td>35</td>
</tr>
<tr>
<td>Requirements and Cautions in Routing Conduit and MedGas Piping</td>
<td>35</td>
</tr>
<tr>
<td>Installing the Tiles and Close-outs</td>
<td>37</td>
</tr>
<tr>
<td>Bed Tile Installation</td>
<td>38</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Utility Tile Installation</td>
<td>39</td>
</tr>
<tr>
<td>Face Tile Installation</td>
<td>39</td>
</tr>
<tr>
<td>Adjusting the Compass Headwall</td>
<td>41</td>
</tr>
<tr>
<td>Installation of Chase Tile and Service Chase</td>
<td>43</td>
</tr>
<tr>
<td>Chase Tile</td>
<td>43</td>
</tr>
<tr>
<td>Service Chase</td>
<td>43</td>
</tr>
<tr>
<td>Closeout Installation</td>
<td>47</td>
</tr>
<tr>
<td>Bottom Closeout</td>
<td>47</td>
</tr>
<tr>
<td>Side Closeouts</td>
<td>47</td>
</tr>
<tr>
<td>Top Closeout</td>
<td>48</td>
</tr>
<tr>
<td>Installing the Wardrobe and Cabinets</td>
<td>49</td>
</tr>
<tr>
<td>Wardrobe</td>
<td>49</td>
</tr>
<tr>
<td>Upper Storage Cabinets</td>
<td>50</td>
</tr>
<tr>
<td>Lower Cabinets and Drawers</td>
<td>50</td>
</tr>
<tr>
<td>Adjusting Cabinet Doors</td>
<td>52</td>
</tr>
</tbody>
</table>
Product Overview

Storage cabinets
Face tile
Utility tile
Wall rail
Stile
Display shelf
13"d wardrobe
Work surface
13"d sink
21"d sink
Rotating work surface
Drawer module
Linen cart
Cautions

Laser Level

While using a laser level or laser measure the most vulnerable body organ of the user is the eye. The laser beam, even in low power, can cause damage to the eyes if one stares directly into the beam. It is very important to keep the eyes safe. A safety glass or specialized goggles must be worn while working with a laser level. One should not look directly into the beam and must never point the beam towards the eye. The laser level should not be set or mounted at the head level and it must not be set up near any reflecting surface, as the beam might reflect and cause damage to the user or any other nearby bystanders.

For safety, the setup of the laser level must be done either above the head level of the user or below the head level, so that the beam cannot get direct contact with the eyes.

Compass Tiles

The Compass Headwall Tiles [front panels] are temperature and humidity sensitive. These must be stored in a controlled environment that will be similar to what the hospital will be set during normal use.
Installation of Wall Rails

**Installation of Wall Rails  TW100**

Before beginning the installation of the Wall Rails, check that the building wall is flat. Wall rail must also be straight, any bend or bow will cause a mis-aligment in the tiles.

Deviations of more than 0.25” (6.4mm) per 60” (1525mm) may cause the final installation of the tiles to show gaps. If the building wall does not meet this criteria, metal shims should be used when mounting the wall rails. Mount shim(s) between the rail and wall

Floors are rarely flat and level. Determine the highest point of the floor along the wall where the Compass is to be located, measure and mark points at 33 ⅛” (840mm) and 69” (1753mm) above this point

[ If either a linen or trash cart is part of the headwall, then measure at their locations. This will ensure a proper gap between the top of the cart and the bottom of the work surface.]

!! Please follow laser precautions

Set the laser level at the 69” (1753) mark and set a horizontal line on the wall.

Then set the laser level at the 33 ⅛” mark and mark an horizontal line on the wall. Tolerance for the lower rail is 33 ⅛” +0 -⅛” (841 +0/-3mm)
Locate the centerline of the bed and mark the wall, then using the laser draw a vertical line at that position. [ The centerline of the bed, will have been located by the general contractor, as the ceiling grid, lighting, etc all are based on this location.

In order to have the Compass tiles align properly, these rails must be level and at the correct height.

Refer to the approved submittal drawings for horizontal dimensions in mounting the wall rail.

All horizontal dimensions are referenced from the center line of the bed.

Locate the upper rail on the wall and with the holes lined up on the line, mark the holes on each end, then every other one working toward the center.

If there is more than one rail at this height, begin with the left rail then the right most rail working toward the center.

Lower the rail and using the laser, check that the marks are level.

Use a $\frac{1}{8}$" drill to pre-drill the holes, this way if you hit any unknown utilities, you can stop before damaging them. Drill through the drywall and any pre-installed backer.

Follow up with a $\frac{1}{2}$" hole at each mark for the Togglers.
Insert and install wall anchors [Toggler]

Wall Anchor TW109

Replace the Wall Rail back into location and secure to wall with the #10-24 screws and washers that came with the Togglers

Start at each end and work towards the center without tightening the screws.

Check to ensure the rail is level and then tighten the screws

Repeat the above steps for the lower wall rail at the 33 ⅛" mark

Please refer to the project specific drawings. The horizontal rails may not be continuous, but they must be properly aligned.

Be sure Top and Bottom rails are plumb and parallel.

Use either a level or the laser level to vertically align the lower rail with the upper.

Check that the dimension between the upper and lower rail is 32-7/8" (835)
Alternative Method for installing the lower wall rail

Once the upper rail is installed as described above, checked and tightened to the building wall. Lay the lower wall rail on the floor.

Insert the block attached to the lower part of the Wall Rail Spacing Jig into the lower rail that is to be installed. Push in the plunger into the aluminum block and insert the block into the lower rail. Release the plunger, the jig should now be locked into the rail. You will need two jigs for each rail section.

Hook the two jigs with the lower rail attached onto the top rail.

The hook goes over the top of the upper rail.
Make sure the ends of the rail are plumb and mark the locations for drilling the mounting holes in the building as was done during the installation of the upper rail.

Unhook and remove the lower rail and jigs. [Press in the plunger to disengage the jigs block from the wall rail]

Using the laser, check that the marks are level.

Use a \( \frac{1}{8} \)" drill to pre-drill the holes, this way if you hit any unknown utilities, you can stop before damaging them. Drill through the drywall and the pre-installed backer.

Follow up with a \( \frac{1}{2} \)" hole at each mark for the Togglers.

Insert and install wall anchors [Toggler]

Wall Anchor  TW109

Be sure Top and Bottom rails are plumb and parallel.
**Pre-piped and Pre-wired Compass Headwalls**

Pre-piped and Pre-wired Compass Headwalls are UL Listed

### Hanging the Headwall Sections

Mark Stile locations on Rails [top and bottom]
Refer to drawing from latest approved submittal drawings.
All measurements are from centerline of the bed to the left side of the section’s left stile.
[Dimension to the right hand stile of a section is not needed when the section is pre-wired and/or pre-piped.]
Drawing to the right is a sample of an installation drawing.

The last letter of the serial number indicates the order of the sections. “5xxxx-yyyy-zzA” would be the most left hand of the sections. The order of installation is usually from left to right.

Above is an example only. Please use project specific drawings

Some headwalls will include chase tiles that will close the area between the top of the Compass and the ceiling. Please refer to specific project drawing to determine if chase tiles will be used.

If chase tiles will be used the chase stile should be added to the top of each stile before installing the Compass section onto the wall rails

Install a Chase Stile [TW114] at the top of each Stile. The Chase Stile will add 16.6” (419) to the top of the Stile. Short Chase Stiles are available on special order.
Insert the Chase Stile into the top of the Stile.
Attach the Chase Stile to the Stile with the provided screws.

Lift the section ONLY by the stiles. Lifting by any of the internal parts may bow the utility rail. Even a minor bow will cause the device coverplates to not seat properly on the tiles.
Each section is checked upon packing. Should the utility rails become bowed during installation, replacement utility rails may be ordered from HSI or Herman Miller.
Make sure that the height adjustment caps are pointed toward the wall. These are shipped with blue tape to ensure that they have not come loose in shipment. Remove the tape before installing the section.

Install the first section on the wall rails. Align the left side of the left stile on the appropriate mark.

Be sure vertical stiles are engaged with both the upper and lower wall rails.

Install the anti-dislodgment clip to the stile. This will prevent the stile from being dislodged from the wall rail. The anti-dislodgment clip will normally be installed on the inside toward the center of this section.

Finger tighten the guides on the lower end of each stile to produce a snug fit. Do Not overtighten.
Locate the Stile Lockdown [TW112] as shown. Install on the right side of the left-most stile. One lockdown is in the upper rail and one in the lower rail.

Install sheet metal screw into the stile first.

Make sure the stile is located correctly. Drill a 7/32” pilot hole into the wall rail. Tighten the second sheet metal screw into the wall rail.

Do not install any additional stile lockdowns until after leveling is completed.

Check once again that the stile is plumb, and install lower Stile Lockdown.

Each pre-assembled section has supports at the top and bottom. Do not remove these until tile installation. These are to keep the sections with the proper dimension and to ensure the equipment rails do not become dislodged.

**Installing next section**

The number of sections is headwall specific and can number from one to several.

Install the next section as above.

Line up the left side of the left stile with the mark on the wall rail.
One pair of spacing jigs is provided with each additional section. [Enough for the installation of one headwall per order] This jig will hold the headwall section(s) to the correct spacing until the TW112 lockdown is installed. Additional pair(s) may be ordered directly from HSI [Part Number 148200]

Locate the upper spacer into the keyholes in the stiles just below the upper rail, and the lower spacer below the lower rail.

After all sections are installed they will need to be leveled.

**Leveling the stiles**
The left most stile will be your base line for leveling the rest of the stiles. There is a square hole punched in the front of the stile just above the letter “C” stamped on the side of the stile. [Approx 3” (75) above the lower wall rail. Set a laser line to the top of this square on your base stile. Adjust the rest of the stiles so that the top of that hole is in line with your laser line.

⚠️ **Reminder,**
Use Laser Precautions
Vertical adjustment is made by adjusting the jack screw at the top of the stile.

If the installer feels that other trades will move the stiles while installing their equipment, we suggest that additional Stile Lockdowns [TW112] be installed for each section. These additional Lockdowns will need be removed when installing the tiles. Only the Lockdowns on the left most stile on the left most section will remain. Additional Stile Lockdowns are available from either your Herman Miller Dealer or from HSI.

Insert and finger tighten the Stile Connector [TW113] at the top and at the bottom of all adjacent Stiles. These will be adjusted to close any gaps between the tiles.

We suggest that the Stile Connector not be installed until the tiles are ready to be installed. Until they are properly adjusted when, the tiles are installed, the Stile Connectors remain loose and can be easily dislodged and lost. Leaving the Stile Connectors in units open for work by other contractors can result in loss. Replacements can be purchased from your Herman Miller Dealer or HSI.
Connections between sections

Some Compass Headwalls will have electrical, data, and/or Medical Gas connections between units.

It is the responsibility of the installing contractor to make these connections during the installation process.

Each Compass Headwall was fully assembled at the factory to be sure that all parts have the correct length conduit, wiring and/or copper lines and connectors.

Each headwall is mounted on a set of wall rails and photographed. These photographs are available to the installing contractor upon request by emailing the serial number to photos@hsiheadwalls.com
Compass Headwalls where services are connected above the ceiling

The junction boxes and medgas piping are pre-wired and pre-piped to a pre-determined location above the ceiling line. Please refer to the final approved submittal drawings to determine location.

Junction boxes and medgas piping are attached to a mounting plate, which in turn is to be attached to the building wall. Each mounting plate is provided with 2 drywall anchors, 2 screws and 2 washers. Drill two 1/8” pilot holes into the drywall at the center of the two ½” holes in the mounting plate. With a Phillips bit and a power screwdriver drill the drywall mount through the drywall. You do
not need to remove the mounting plate. Insert the drywall mount through the ½” hole in the mounting plate.

Insert the provided screw with washer into the drywall mount and tighten.

Note that each MedGas line is capped and has an inspection seal. Make a note of the serial number of the unit and inspect the seal. This will eliminate any discussion later regarding debris in the system. As long as that seal and cap are intact, the headwall piping is clean. The headwall is at the end of the pipe line, and any blowdown through the outlet may show foreign matter that will have come from upstream in the pipes if the building system is not clean.

**Compass Headwalls that are connected behind the tiles**

Junction Boxes are located in the top row of the Compass Headwall, behind the upper tile.

Please refer to the final approved submittal drawings for locations for contractor rough-in. It is the responsibility of the contractor(s) to connect the Compass junction boxes with their rough-in.

Please refer to the final approved submittal drawing for location of MedGas termination. It is the responsibility of the mechanical contractor to connect the Compass manifold with the rough-in.

You will now be leaving the open headwall to the mercies of the other trades that will be installing their connections, low-voltage wiring etc.

With a large felt-tip marker pen write the room number and Compass Headwall serial number on the building wall in an open area behind the headwall. Take a photo of the whole headwall. At the end of each day, print two sets of your day’s installation and send one to the General Contractor under a cover letter.

This will eliminate arguments on any missing material or damage to the units.

It is not advisable to install the tiles or accessories until after all trades have completed their work and the units are tested [both Electrical and Medical Gas]
**Contractor Assembled Compass Headwalls**

Contractor assembled Compass Headwalls are **NOT UL Listed**

Mark Stile locations on Rails [top and bottom]
Refer to drawing from latest approved submittal drawings.

All measurements are from centerline of the bed to the left side of each stile.

Drawing to the right is an example of an installation drawing.

Some headwalls will include chase tiles that will close the area between the top of the Compass and the ceiling. Please refer to specific project drawing to determine if chase tiles will be used.

If chase tiles will be used the chase stile should be added to the top of each stile before installing the Compass section onto the wall rails.

Install a Chase Stile [TW114] at the top of each Stile.
The Chase Stile will add 16.6” (419) to the top of the Stile. Short Chase Stiles are available on special order.
Insert the Chase Stile into the top of the Stile.
Attach the Chase Stile to the Stile with the provided screws.

Install the first stile. This will be the most left hand stile [looking at the headwall]
Make sure that the height adjustment caps are pointed toward the wall. These are shipped with blue tape to ensure that they have not come loose in shipment. Remove the tape before installing the section.

Engage the stile on the top and bottom wall rails. The first stile should be the left most. Align the left side of the stile with the mark on the rail.

Install the anti-dislodgment clip to the stile. This will prevent the stile from being dislodged from the wall rail. The anti-dislodgment clip should be installed on the side of the stile toward the center of this section.

Finger tighten the guides on the lower end of each stile to produce a snug fit. Do not overtighten.

Locate the Stile Lockdown [TW112] as shown. Install on the right side of the left-most stile. Install sheet metal screw into the stile first.

Make sure the stile is located correctly. Drill a 7/32” pilot hole into the wall rail. Fasten the second sheet metal screw into the wall rail.
Check once again that the stile is plumb, and install lower Stile Lockdown.

At this time install the Lockdown only on the left-most stile.

Install each of the rest of the stiles as above.

Install at the top and bottom of each set of stiles a tie bracket. One set is supplied for each section as part of the headwall package. Additional spacer straps can be ordered from HSI.

<table>
<thead>
<tr>
<th>Section Width [inch]</th>
<th>HSI Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>150907</td>
</tr>
<tr>
<td>24</td>
<td>150900</td>
</tr>
<tr>
<td>30</td>
<td>150904</td>
</tr>
<tr>
<td>36</td>
<td>150902</td>
</tr>
<tr>
<td>48</td>
<td>150902</td>
</tr>
</tbody>
</table>

The number of sections is headwall specific.

Locate a Stile Lockdown [TW112] as shown. Normally lockdowns are only installed on the right side of the left-most stile.

Install sheet metal screw into the stile first.
Make sure the stile is located correctly.
Drill a 7/32” pilot hole in wall rail.
Tighten the second sheet metal screw to the wall rail.

Check once again that the stile is plumb, and install lower Stile Lockdown

Finger tighten the guides on the lower end of the stile to produce a snug fit.

For multiple section headwalls one pair of spacing jigs is provided with each additional section. [Enough for the installation of one headwall per order]
This jig will hold the headwall section(s) to the correct spacing until the TW112 lockdown is installed.
Additional pair(s) may be ordered directly from HSI [Part Number 148200 ].

Locate the upper spacer into the keyholes in the stiles just below the upper rail, and the lower spacer just above the lower rail.
Leveling the stiles

The left most stile will be your base line for leveling the rest of the stiles. There is a square hole punched in the front of the stile just above the letter “C” stamped on the side of the stile. [Approx 3” (75) above the lower wall rail. Set a laser line to the top of this square on your base stile. Adjust the rest of the stiles so that the top of that hole is in line with your laser line.

Reminder, Use Laser Precautions

Vertical adjustment is made by adjusting the jack screw at the top of the stile.

It is very likely that while installing the utility rails, boxes, and medical gas outlets the stiles will be moved, and if the installer feels that other trades will move the stiles while installing their equipment, we suggest that additional Stile Lockdowns [TW112] be installed for each section. These additional Lockdowns will need be removed when installing the tiles. Only the Lockdowns on the left most stile on the left most section will remain. Additional Stile Lockdowns are available from either your Herman Miller Dealer or from HSI. It will be impossible to adjust the units and Tiles if these Lockdowns are not removed.
We suggest that the Stile Connector not be installed until the tiles are ready to be installed.
Until they are properly adjusted, when the tiles are installed, the Stile Connectors remain loose and can be easily dislodged and lost. Leaving the Stile Connectors in units open for work by other contractors can result in loss. Replacements can be purchased from your Herman Miller Dealer or HSI.

We suggest that the Stile Connector not be installed, until the tiles are ready to be installed.
Until they are properly adjusted when the tiles are being installed they remain loose and can be easily dislodged and lost. Leaving the Stile Connectors in units open for work by other contractors will certainly have many of these missing later on.
Installing the Utility Support Rail  [TW170]

Utility support rails are provided with the headwall kit. Their location will be indicated on the drawings provided with the headwall kit.

Refer to the Installation Drawings specific for this headwall and this project.

Location of the Utility support rail is designated by a letter appearing on the drawing to the left of the section. These letters are also stamped on the stile.

Insert the right end of the utility rail into an indicated “L” slot.

Insert the other end of the Utility Rail into the matching slot on the left rail. Attach with screw.

Install all rails in all units.
Installing Electrical & Data Utility Boxes

The boxes are located by the use of Letter/number locations. Refer to the installation drawings for each Compass Headwall type.

The locations are indicated on the drawings and point to the upper left screw of each box. Multi-gang boxes for nurse call etc. are designated the same way.

This Box is located at J18 [Slot J on the stile, and hole 18 on the upper utility mounting rail]

Boxes for electrical devices and boxes for data devices use different manufacturers.

Raco Boxes are used for data, nurse call and other communication devices.

Note: knock-outs are concentric.
Most nurse call & data devices may not fit in SteelCity/Bower boxes. [The front opening is not as large as the Bower]

Note: knock-outs are acentric

SteelCity/Bower Boxes are used for other electrical devices

Nurse Call, 1, 2, 3 or 4-gang
Bed Communication Jack
Sconce Light
Overbed light
Installing Electrical Devices

All electrical devices require the use of a Jumbo cover plate.

The use of a standard plate will show a gap in the finish tile.

North American Devices

All devices must have the plaster ears removed. If the ears are not removed they will interfere with Utility Tile and will not allow it to be properly installed.

All common electrical devices will fit the Compass Headwall boxes.

International Electrical Receptacles [Sockets]

The following configurations are available for the Compass Headwalls.

British Standard, 13A, BS1363
Chinese
French
German Standard [Shucko]
Israeli
Italian
Universal

All sockets are white, faceplates are colored, Anodized Aluminum for normal, Red for Emergency, Blue, Green, White are also available

All electrical devices are provided in kit form with device, Compass mounting plate, faceplate, trim ring, and screws.
Installing Medical Gas Outlets

North American Medical Gas Outlets

Medical Gas Outlets must be of the “console” type. If supplied as part of the Compass Headwall Package, they will be of the correct configuration.

If the outlets are supplied by the contractor, please note that standard wall outlets will not work in a Compass Headwall.

Each Medical Gas outlet uses a pair of brackets (HSI Part No. 290848-2 for the pair), one mounted to the upper rail and one identical bracket to the lower rail.

MedGas Rough-in Kit is installed on the brackets.

After the Utility Tile is installed, the latching plate and trim ring are installed.

DO NOT USE POWER SCREWDRIVER.

Stripped threads are NOT covered under warranty.
**International Medical Gas Outlets**

Mount the Mounting Bracket to the Utility Rail.

Mount the complete outlet to the mounting bracket.

Add the trim mounting bracket and screw all of the above to the Utility Rails with four screws.

Add the trim ring and stainless steel faceplate after the tile is installed.

**Parkodex Outlet [India]**

Mount the Parkodex outlet onto the mounting bracket.

Piping is routed in front of the Utility Rail Compass tiles have a specific cutout for the Parkodex outlet Once the tile is installed, place the trim plate around the Parkodex outlet housing. Note that this will be held in place by the outlet front.
**Conduit, Wiring, and MedGas Piping**

The routing and installing of electrical and low voltage conduit and the wiring and termination of all wiring is by the installing contractor.

All electrical devices, both line and low voltage are provided by the installing contractor, unless ordered as part of the headwall kit.

If the Compass Headwall is to be serviced through a Utility Chase mark the area on the building wall where the Utility Chase is to be located. Keep all conduit and piping within this space. Reminder that the conduit and piped will have to fit in only 3” of space in front of the wall surface and inside the chase.

**Requirements and Cautions in Routing Conduit and MedGas Piping**

- Conduit must not move the electrical boxes when tightening the conduit connector or routing the conduit.
- All emergency circuits must be run in EMT [no flex].
- Normal circuits may be run using HCF/Type MC cable if local jurisdiction allows.
- Medical Gas piping must be minimum ½” for OXY and AIR and ¾” for VAC per NFPA 99.
- Piping must be installed by certified installers under ASSE-6210.
- Note any flame/heat damage to any Compass part is not covered by warranty.

- All conduit and MedGas piping must all be behind the front plane of the vertical stiles.
- When routing conduit and piping through the chase [see Chase Section] care must be taken to keep within the allowed space.

You will now be leaving the open headwall to the mercies of the other trades that will be installing their connections and low-voltage wiring.

With a large tip marker pen write the room number and Compass Headwall serial number on the building wall in an open area behind the headwall. Take a photo of the whole headwall. At the end of each day, print two sets of your day’s installation and send one to the General Contractor under a cover letter. This will eliminate arguments on any possible missing material or damage to the units.

It is not advisable to install the tiles or accessories until after all trades have completed their work and the units are tested [both Electrical and Medical Gas].
Installing the Tiles and Close-outs

Insert the Stile Connector [TW113] at the top and at the bottom of all adjacent Stiles. At this time do not tighten, leave the connector finger loose. These will be adjusted to close any gaps between the tiles.

Remove the tie brackets at the top and bottom of each set of stiles.

Remove all of the Stile Lockdown [TW112] as shown.

**Do NOT remove the lock downs in the LEFT most stile**

Install a Chase Stile [TW114] at the top of each Stile. The Chase Stile will add 16.6" (419) to the top of the Stile. Short Chase Stiles are available on special order. Insert the Chase Stile into the top of the Stile.

Attach the Chase Stile to the Stile with the provided screws.

The part number of the tile is indicated on the installation drawing. [Example shows tile number 330036].
Tile are installed from the bottom to the top. Each tile will overlap the lower tile.

This number also appears on the carton in which you will find this tile and on the back of the tile.

**Bed Tile Installation**

For best practice the bed tile should be installed first

The wall saver is installed behind the stiles and hooks onto the adjusting pads at the bottom-rear of the stile. This will help spread any load if the bed strikes the Bed Tile.

Place the wall Saver flat against the building wall and hook the ends over the adjusting feet at the bottom of the stiles.

Line up the buttons on the back of the bed tile with the ‘keyholes’ on the stiles. Insert the buttons and lower the bed tile to engage all four of the buttons.
Attach the right and left closeouts to the stile extenders on the side, using the provided Velcro on the closeout.

**Utility Tile Installation**

If the utility tile is to be installed on a pre-wired, pre-plumbed unit, the device cover plates and the medical gas outlet finishing kits must be removed.

Refer to the headwall drawing and select the Utility Tile by the number on the box [or back of Tile]. Line up the buttons on the back of the tile with the ‘keyholes’ on the stiles. Insert the buttons and lower the bed tile to engage all four of the buttons.

Replace the device cover plates and the medical gas outlet trim rings and finishing kit.

**Face Tile Installation**

Refer to the headwall drawing and select the Utility Tile by the number on the box [or back of Tile]. Line up the buttons on the back of the bed tile with the ‘keyholes’ on the stiles. Insert the buttons and lower the tile to engage all four of the buttons.
Adjusting the Compass Headwall

The Compass headwall should be adjusted before any additional items such as chase tiles, service chase, cabinets, shelves etc are installed.

If all of the stiles are level, tiles should align horizontally. If not, then adjust the jack screw at the top of the stiles to align all tiles.

Adjust the Stile Connectors [TW113] at the top and the bottom of each abutting section to draw the tiles together. Vertical spacing between tiles should be the thickness of a credit card. If they are drawn too tight the tile will not be able to be removed for any servicing.
Installation of Chase Tile and Service Chase

**Chase Tile**
Choose the part number on the Chase Tile that is indicated on the headwall drawing.

The Chase Tile must be measured and scribed to the ceiling line.

The top of the Chase Tile must **NOT** protrude through the ceiling. The tile is removed by pulling the top of the tile forward and must be clear of any obstruction.

Insert the lower clips at the bottom of the Chase Tile into the elongated slot in the Chase Stile.

Insert the safety straps through the square holes at the top of the Chase Stiles, then Press the Chase Tile against the Chase Stiles until the upper spring clips snap into the square hole.

**Service Chase**
Install the lower chase brackets (2) into the chase. Line up the brackets with the back of the chase. Use the #6-32 (4) screws and nuts into the existing holes in the chase.

Mark a line at the top of the stiles. This will be the line to position the bottom of the chase.
Measure from the line at the top of the stiles to the ceiling.

Mark the measured height on the chase.

Using a 2 ⅝” by 17 ¾” wood block to support the inside of the chase, cut the chase at the marked location on a table saw.

Position the chase on the wall in the desired location. Mark the outside edge of the chase, approximately 60% up the chase with a light pencil mark.

Remove the chase and mark the wall 4” inward from each of the chase side marks.

Place the upper wall bracket on the wall and mark the center-hole on both sides of the bracket.
Remove the bracket and, using a power screwdriver, screw the anchors into the drywall at the marked locations.

If there is a stud at that location, use a sheetmetal screw.

Use an alternate hole if there is a conduit or pipe behind the hole. Screw the upper wall bracket into the anchors with the provided hardware making sure the flanges are pointing outwards. To install the chase, flex the sides of the chase outward as you inset it in the upper wall bracket. When the sides are against the wall relax the sides so the chase side flanges grab the wall bracket. Install the chase with the two bottom brackets so the bottom of the chase is lined up with the top of the stiles.

The lower bracket flanges will support the upper close-out when it is installed.
Closeout Installation
Closeouts will finish the sides, top and bottom of the Compass Headwall

Bottom Closeout
The bottom closeout should be installed before the side close out. Install the bottom clips (2) at the bottom of the stiles. These clips are installed on the side of the stile facing the center of this section.

Snap on the bottom closeout to the clips. The ends of the closeout should be even with the outer side of the stile.

Side Closeouts
Side closeouts are handed [right or left]. The end with the cap is the top.

Side closeouts may have to be trimmed, depending on conditions.
Peal the clear film off of the Dual Lock on the back side of the closeout.

Rotate the closeout into the gap between the tile and the wall, pivoting around the tile wiper.
**Top Closeout**
The Top Closeout is an aluminum extrusion that may need to be cut to fit. Remove end cap, measure, cut and replace end cap.

The top close out is laid behind the top tile and will sit onto the top of the stiles.

If Chase Tiles are used, the Top Closeout is not required.

If a Utility Chase is used, the Top Closeout will need to be cut to fit. The Closeout will butt to the Utility Chase and the Chase bottom bracket will support the Top Closeout.

If the Utility Chase is to be removed for painting, the Top Closeout will also be removed.
Installing the Wardrobe and Cabinets

Wardrobe

Insert the spanner bars into the stiles at slots “A” and “R”. Let the notch in the end of the bar engage the slot in the stile. This will keep the stiles the correct distance to help in installing the Wardrobe.

Install the captive threaded “J” clips in the stiles. This will be inserted into the square holes at position at the top of each stile and at 51” from the top of the stile. Insert them into the square hole and tap them downward until the threaded portion is centered and shows through the round hole below.

There are four Structural Buttons on the back of the Wardrobe cabinet. Engage these buttons into the keyhole in the stiles and lower the cabinet to engage them. Be sure that all four are properly engaged.

Fasten the cabinet with the four provided bolts using a 3/16” allen key into the two upper and two lower bolt locations.
Upper Storage Cabinets

The installation of the Storage Cabinet [TW320], Glove Cabinet [TW322], & Paper Towel Cabinet [TW324] are the same.

Install the captive threaded “J” clips in the stiles. This will be inserted into the square holes at position at the top of each stile.

Insert them into the square hole and tap them downward until the threaded portion is centered and shows through the round hole below.

There are Structural Buttons on the back of the cabinet. Engage these buttons into the keyholes in the stiles and lower the cabinet to engage them. Be sure that all are properly engaged.

Secure cabinet to stiles using the provided bolts and 3/16” allen key.

Lower Cabinets and Drawers

The installation of the Drawer Modules [TW310] & Storage Cabinet [TW312] are the same.

Install the captive threaded “J” clips in the stiles. This will be inserted into the square holes at position at each stile.

Insert them into the square hole and tap them downward until the threaded portion is centered in the round hole below.
Installing the Wardrobe and Cabinets

If a lock is present on the module, the default code to open is “0099”.

Remove the drawers by pressing the detent lever on each slide.

There are Structural Buttons on the back of the cabinet. Engage these buttons into the keyholes in the stiles and lower the cabinet to engage them. Be sure that all are properly engaged.

From inside the cabinet, bolt the top of the case to the stile using a 3/16” allen key and provided fasteners.

Finish drilling out the holes on top of the module using a ¼” drill bit.

Install the work surface on top of the module using provided hardware.
Line up the work surface with the top of the cabinet and install the four screws through the inside into the pre-drilled pilot holes in the work surface.

Replace the drawers.

**Adjusting Cabinet Doors**

The bottom surface of the door(s) should be flush with the bottom of the cabinet frame. The front surface of the door(s) should be flush with any adjacent doors and drawer fronts. Also the gap between the door and the sides of the cabinet should be uniform.

To adjust the door height turn the cam screw on the hinge.

To adjust the door(s) left or right and/or tilt the door(s) ust the lateral adjustment screw in the hinge arm.

Turn screw to move door closer to or away from side panels.