Grid Installation Instructions
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Frames and Mini Frames

Cartons contain ONE of Three Types of Frames/ Mini Frames:

a. End of Run (power/data opening in one end)
b. Mid Frame (power/data openings in both ends)
c. Freestanding Frame (no openings, single frame only)

Supports that attach to Grid Frames will be one of four styles (Packed separately):

A. Straight Legs - either with or without power infeed hole. Note: Grid legs are available in 2 heights – the shorter height puts power/data below the wksf while the taller height places power/data above the top.
B. T-Legs - either with or without power infeed hole.
C. End Panels – don’t attach to Grid Frames but rather attach to worksurfaces with L” Brackets. In this application a Grid Frame straight or T-leg is NOT NEEDED in the end of Grid Frame runs. The Grid Frame is held up by a tether bracket that attaches the worksurface to the Frame (tether brackets are described later in this manual).

D. O-Legs - don’t attach to Grid Frames but rather attach to worksurfaces. In this application a Grid Frame straight or T-leg is NOT NEEDED in the end of Grid Frame runs. The Grid Frame is held up by a tether bracket that attaches the worksurface to the Frame (tether brackets are described later in this manual).

Note: Prior to setting up Grid Frames, note where power and data will be fed up through leg(s), whether at the end or in the middle of a run. Make sure to install legs with power infeed holes into Grid Frames at appropriate locations.

Assembly

1) Identify from the labeled cartons the End of Run Frames and unpack these frames first. Turn the Frames upside down to attach the legs. Take care that legs are inset 6” from Finished End (end with no holes) as shown below, using a Phillips Head drive to assemble the 2” screws (P/N UZBOLTU) and 10-24 weld nuts (UZWNUTA). The Legs are mounted 6” inboard at the end of a run and when starting a 90 or 120 run of Frames. See pictures below of assembly process and final product.
2) When two or more frames are used in a row, legs are shared (as shown below). This will occur whenever the frame ends have cut-outs for electrical pass-thru. When only 2 frames form the Spine wall, only 1 End of Run frame should have the shared leg mounted prior flipping the frame over for final leg assembly.

3) When Spine walls of 3 Grid Frames are used the Mid Frames will not have any legs attached to them. They will use the Shared leg from the End of Run Frames.

4) Spine wall runs of 4 Grid Frames or more will have 1 shared leg attached to each Mid Frame. (This will be for the 4th, 5th, etc Mid Frames).
5) Flip over Frames and connect the shared legs of the Spine Wall (main run) with 10-24x2” screws (UZBOLTU) and 10-24 weld nuts (UZWNUTA). Note: if using “T” legs Grid Frames will stand up on their own. If using straight legs, a helper, chairs or walls must be used to hold up the table during this step.

**NOTE: IF YOU HAVE MODESTY PANELS IT IS BEST TO INSTALL BEFORE ATTACHING ALL GRID FRAMES TOGETHER. GO TO MODESTY PANEL INSTALL toward the back of these instructions.**

6) Top Caps must be removed by taking out the 4 - #8-32x3/4” Flat head screws(UZSCREWAL) on the top of each Grid Frame using a #15 Torque head drive. (Leave Top Caps off until step #24).

7) Attach in-line panel to panel connections using 10-24 screw (UZSCREWW) and 10-24 lock nut (UZWNUTB) through aligned holes at the top of the End Caps.

8) If the Spine wall does not have any 90 Degree or 120 Degree Grid Fin walls, go to Line#16.
9) If you are beginning a 90 or 120 Degree Fin Wall connection, refer to lines 1 & 2 above to sub-assemble Frames First.
10) **For 120 Degree connections go to line #14.**
11) The 90 Degree Fin wall will be attached to the Spine Wall using the UC90 Connector kit (UPP90 kit if power runs down Fin wall) in the orientation below:
Note: All connections are off modular. Also, you cannot span a 90 degree Frame connection across an in-line connection.

12. For 90 Degree connections, utilize two 90 degree brackets, four 10-24 weld nuts (UZWNUTA) and 4 – 10-24 x 3/8” screws (UZSCREWW) to anchor the Frames together (As shown below). The best way to attach the bracket is to put weld nuts in slots of one bottom frame, align one hole of bracket with weld nut and insert screw so that it engages weld nut, do not tighten. Do the same to attach other screw in same frame so that bracket can slide along slots. Slide bracket so that you can attach screws into weld nuts in perpendicular Grid Frame. Once both screws have engaged and both frames are at right angles to each other, tighten all 4 screws. Grid Frames should now be able to stand by themselves with little or no support.

13. Repeat lines 11-12 until all Fin Walls are attached to Spine Wall. The tops of the Fin Walls will be attached in step #26 after the Spine Wall top caps are installed. Go to Line # 16.

14. For 120 degree Grid Frame connections, your package will include UC120 connector package (or UPP120 if Fin walls have power). Utilize the same process in lines 11-12 to attach the 120 bottom bracket. See picture below.

Note: Two brackets are required per 3-way 120 degree application.
15. After the 3 Grid Frames are attached at the bottom, assemble the 120 triangle cover piece to the top of the end caps aligning the holes in the triangle cover with the holes in the end caps. Use 3 #10-24 x 3/8” (UZSCREWU) thread forming screws included in kit.

16. Level as necessary.

**Power**

17. Feed Base Power-In through the frame and down the leg coming out the hole in the bottom of the leg. Attach the upper connector to the frame’s power, (power in frames is pre-installed at the factory). Adjust the length of Power-in as required, cut/add attachments as needed to finish electrical assembly.
Note: if the base in-feed is in the middle of the run then a 3-way splitter is required (UYCONN as shown above in hand).

18. Connect all Frame-to-Frame power jumpers. Note: you may have an extra jumper at the end of a run.

19. If you are transferring power around a 90 degree connection then a special jumper (and splitter if in middle of Spine Wall) is used to go out the bottom of the panel and up into the next panel. If you are lucky enough to have a 90 degree connection in front of a power/data opening on the spine you may utilize the hole in the Beltway to route the power.

20. If you are transferring power in a 120 degree connection than a special jumper and a splitter (UYCONN) is used to go out the end of the frame and into the next Frame.

Data

21. Pick the appropriate dataplate (provided) and add cabling and punch down (customer provided).

22. Enwork recommends that data cables be routed alongside power (power is shielded). If you want to use the chamber below you can feed the data cable through the bottom chamber.
**Note:** When passing cables through leg with cut-out at the bottom, we recommend running a maximum of 12 data cables along with a Power infeed cable.

**Tiles**

23. Once power and data are done you can slide the appropriate tiles into provided slots of the Grid Frames.

24. Re-attach Spine Wall top caps (not the 90 degree Fin Walls) first making sure that the tiles set in top cap grooves. Using #15 Torque drive install 4 - #8-32 screws (UZSCREWALZ without thread cutting).

25. Applications with 90 degree Fin Walls need to attach the Fin Walls to the top cap of the Spine Wall. Using a #10-24 x 1/2" Screw (UZSCREWZ) and #10-24 weld nut (UZWNUTA) attach Fin wall to Spine Wall top cap as shown below. The weld nut is placed in the slot on the side of the Spine wall top cap. Square up wall before tightening screw.
26. Re-attach Fin wall top caps making sure tiles seat in grooves of top cap. Using #15 Torque drive install 4 - #8-32 screws (UZSCREWALZ without thread cutting).

**Worksurfaces and Supports**

1. Mount legs to tops as specified in floor plan in preparation for attachment to Grid Frame.
2. If worksurfaces are ped supported then place peds into position per floor plan.
3. If attaching work surfaces to Grid, Tether Brackets (UMTB or UMTD) will need to be attached to Spine wall as shown below.

UMTB Tether Bracket are used for tall legs (power/data above worksurface) – see above.

UMTD Tether Brackets are used for short legs (power/data below worksurface) – see above.
4. Four - #10-24 x 3/8” Screws (UZSCREW) and 4 - #10-24 Weld nuts (UZWNUT) will be used for each Tether bracket. Install all screws in Tether brackets in approximate locations though do not tighten so that brackets can slide along grooves. Location of brackets will be determined by the following rules:

5. Put worksurfaces into place and attach to tether brackets or peds (if applicable). **NOTE:** worksurface gap to frame can be one of three dimensions depending on what was specified by the dealer:
   a. Tight to frame – these worksurfaces have a “C” in them (e.g. S2448ACN)
   b. ½” gap to frame – these worksurfaces have a “D” in them (e.g. S2448ADN)
   c. 1.1” gap to frame – these worksurfaces have a “V” in them (e.g. S2448AVN)

6. Add support plates where applicable.

7. End Panel and O-Leg supports are described earlier in this manual.

**Topper Screen**

1. Insert acrylic Topper Screen and gasket into top slot of Frame. Push down. Use soapy water on gasket exterior to make gasket slide in easier.
Modesty Panel – Steel (optional add-on product)

1. Before attaching modesty panels, insert small bolts (#4-40x1/2” UZSCREWTS) through holes in top lip of modesty panel. Attach nuts (#4-40 UZWNUTC) to small bolts as shown below.

2. Slide modesty panel into bottom slot. The head of bolt holds modesty in slot. NOTE: the bolts/nuts will want to spin and have the nuts fall off. Be careful to periodically stop and check to make sure nuts are still adequately attached to bolts.

3. Once in place, tighten small nuts, return to step 6 of Assembly.
1. Hang cable trough in top slot. Providing that the work surface tether bracket rules are followed, the cable troughs will be able to be placed into second slot up on bottom rail.
2. Utilize a 3/8" screw (UZSCREWW) and weld nut (UZWNUTA) to mechanically attach the cable trough to the bottom slot (at circle location in picture).
3. Brick troughs when supplied, can be attached where needed, though cannot used in conjunction with cable troughs.