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## Planning Installation and Maintenance Guide

Careful planning is a key to successful interior design. This is particularly true with prefinished systems. Such planning requires an in-depth knowledge of connection details for attractive implementation.

ULTRAWALL<sup>®</sup> relocatable partitions provide the look and feel of permanence along with ease of relocation and reuse. Locate door openings, sidelites, even full glass walls wherever you want them.

This Guide provides step-by-step directions for the installation of ULTRAWALL partitions beginning with four basic components—ceiling track, floor runner, spline stud and 3/4" gypsum panel.

This Guide also covers installation of doors, windows, trim, finishing details and replacement practices that result in a quality, custom appearance.

Before finalizing the design of any project utilizing ULTRAWALL partitions, be sure that current and future plans for flooring, ceiling, lighting, communications, and HVAC are considered.

Tools	Hammer	4' Level
	Tape Measure	Chalk Line
	Board Knife	Caulking Gun
	Screwdrivers	Electric Drill
	Pliers	Drill Bits
	Wallboard Saw	Ladder
	Combination Square	Chop Saw (Power Miter Box), Aluminum Cutting Blade
	Wallboard Square	Files
	Electric Screw Gun	Screw Gun Bits (Phillips #2 & #3)
	Tin Snips	Hacksaw
	Plumb Bob	Center Punch
Optional Tools	Shop Vacuum	Panel Removal Tool
	Hot Knife	2' & 6' Levels
	Hole Saw	Torpedo Level
	Chassis Punch	Concrete Fastener Tool
	Scaffold	"C" Clamp Vice Grips
	Rubber Mallet	Safety Glasses
	(Note: Please Wear Safety Gla	isses.)

# **Ceiling Track Installation**

Ceiling Track may be either aluminum or steel depending on cost and aesthetic preferences. The following instructions describe all systems, beginning with the aluminum materials.



After all parallel ceiling tracks have been installed in a particular area, install cross tracks in the same manner. Here are a few tips.

Tips



## Floor Runner Installation

After the ceiling runner is installed, install the floor runner. Protective plastic may be used to cover floors prior to installation. Plumb down from ceiling runner to establish location of floor runners.





13. At floor runner intersections, floor runners can be secured directly to subfloor in lieu of screw-attaching them together. Note that intersecting runner is cut short to allow panel to pass through.



8. At door openings and freestanding wall terminations, anchor floor runner to subfloor.



9. Use suitable fasteners for positive attachment.



11. Screw-fasten runners.



**12.** Lap and join runners at corners in the same manner.

### Vertical Strut Runner Installation

Vertical strut runners provide required strength and panel attachment capability at rough openings for doors, windows, corners and freestanding wall terminations.



 For most vertical strut applications, a single STL-361 floor runner normally is used. Double STL-361S strut runners are recommended at door openings, especially where fire resistance is necessary. This strut is also used to construct corners, intersections and window rough openings. STL-361 runners must be installed with torquesensitive screw fasteners do not strip out.

### For ARL-300 ceiling track, there are five methods of vertical strut runner attachment.



### Vertical Strut Runner Attachment

For STL-362 ceiling track, there are two methods of strut runner attachment:



### **T-Intersections**

There are two methods for constructing T-intersections for regular ULTRAWALL partitions.



# Stud Installation

ULTRAWALL partitions have various stud types which afford different features and methods of panel installation. The H-stud is the most basic system. Both sides are progressively installed at the same time.

H-Studs





7. Continue installing ULTRAWALL panels and studs...



8. ... until partition is complete.

## Stud Installation

T-stud systems allow each side to be installed independently. There are advantages and disadvantages to each type of system. The ultimate selection depends on the needs of the owner. The next section will cover the various installation steps for all of these ULTRAWALL partition systems.

T Studs





### **Corner Detail**

Conventional square corners are constructed with intersecting panels attached to two vertical strut runners.



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## **Door Frame Installation**

### Once walls have been erected up to door location, door frames can be installed.





2. Upon preassembling components, place hinge jamb on wall.



3. Screw-attach jamb at top only.





5. Reposition bottom of door jamb to be equidistant top and bottom. Screwattach remainder of door frame to partition starting at the bottom.



6. Snap header into ceiling track tight to hinge jamb.





7. Door with installed hinges is propped in place adjacent to hinge jamb, and screw-attached to door jamb.

Continued



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## **Glass Opening Construction**

### Full height glass openings require capping partition with AGL-340 glazing rail.



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# **Glass Opening Construction**

Continued



## **Trim Options**



### **Furred Panels**

Furred application of ULTRAWALL panels can be installed over existing wall surfaces to provide continuity in appearance and function.





10. . . . and is slid over to abut intersecting wall.



**11.** Vertical furring splines are positioned...



**12.** ... and screw-attached to horizontal furring members.



13. 1/4-in. wood strips are applied to face of existing wall to provide backing to panels at base. A 1-3/8"x7/8"x 24 ga. metal is required at the base for fire rated construction.



14. Offset wall planes can be hidden by intersecting walls or trims.



15. ULTRAWALL partition, constructed with T-studs and panels on one side only, provides furred wall system independent of existing wall. Insulation can be installed between two walls. Either STL-362 ceiling track or ARL-300 flanged rail can be used as ceiling runner.



**16.** Ceiling runner can be notched to fit around building columns.



**17.** Top and bottom of T-studs can be secured with angle clips to increase partition rigidity.



**18.** Supplemental horizontal members angle clipped to T-studs are required for partition rigidity.

# **Electrical Installation**

Electrical outlets and switches are easily accommodated in ULTRAWALL partitions with conventional electrical components. These photographs illustrate various means of providing structural support for electrical boxes to meet building code approval.





# **Electrical Installation**

Continued



Ultrawall Relocatable Partitions

# **Panel Replacement**

ULTRAWALL panels installed with H- or T- studs are easy to remove and replace if panels are damaged or to gain access to partition cavity.





3. Opening allows grasping bottom of panel near one edge in order to peel it out of wall. This action breaks the back of kerfed edge of panel.



4. Full removal of the strip at bottom allows panel to drop out of ceiling runner. Slide the panel sideways to disengage opposite kerf from stud.



6. Nest a piece of STL-361 strut runner with inner flanges of stud.



## **Maintenance Instructions**

I. Product Furnished	A. Vinyl on Gypsum
 II.	The following is manufacturer recommendation for cleaning and maintenance of the following product:
	Use a soft bristle brush with a warm solution of a non-abrasive detergent and tri-sodium phosphate. Add 1/3 cup of deter- gent and 2/3 cup of TSP to one gallon of warm water and apply to wall with a soft bristle brush (do not use cloths). When clean, rinse with fresh water. For trouble spots, we recommend any household cleaner that does not contain any solvents,
	thinners or other ingredients that might harm the vinyl. The use of such products must be in full accordance with the instructions on the label.

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#### Note

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