



UNIVERSAL SHELF SYSTEM INSTALLATION GUIDELINES

Installation Considerations

Every successful installation begins with good planning and action. Do not wait until the last minute to order your supports, fasteners or adhesives for installation. Make sure that all aspects of your project's substructure are considered and discussed to ensure that your project, whether a hanging shelf or a floor mounted shelf installation will be smooth and that your support products will be sufficient.

Note: that this installation document should not be considered a specific recommendation for your particular application. Federal Brace cannot provide installation guidelines to meet the particulars of every application. This document should be considered a help sheet that provides considerations about the general characteristics of a particular type of support and installation.

Characteristics of the Universal Hanging Shelf

The Universal Shelf support is designed to allow the installation to be hung from the ceiling joists or mounted to the floor. Shelving material will be selected by you to hold the items you desire between the two Universal shelf mounts. The hanging supports are 29" in overall height and 12.5" in width. Two 1" slots are provided in each cross section to allow for mounting to ceiling, floor and shelving wood. Slots rather than holes were provided to allow for any wood expansion and contraction.

$\frac{3}{8}$ " screw and washer should be used in the installation. The weight capacity when installed by our guidelines is 500 pounds.

A span of 4' should not be exceeded in the installation. Presently available in black, the universal hanging shelf can be powder-coated in various colors to match your decor.

Considerations when Installing the Universal Hanging Shelf

Whenever installing the Universal Hanging Shelf, make sure you are tying into a minimum of 1.75" thick material. You will want the fasteners to have as much biting material as possible. This will provide a secure fastening of the brackets. Whether hanging from ceiling joist or securing to the floor. Remember a weak substructure creates a weak installation overall.

Determine the location for your shelving unit. You will need to locate your studs or have the ability to install support where needed to hang the Universal Shelf unit. This could be determined pre-drywall or use a stud finder to make sure you have the location of the stud. Once located, hold the support in place and mark your slots. Federal Brace recommends using a bolt with a bearing plate and nut to secure your shelf supports. If using a bolt, you will need to drill a hole slightly larger than the bolt to allow for passing the bolt through the substructure. If you intend to use a lag screw a pilot hole will need to be drilled for your