BARZ® Installation Manual
Introduction

Enter BARZ® - Innovative ceiling designs brought to you by USG Ceilings Plus. In this manual we’ll show you how to perform the installation the right way, the first time. Go ahead, install with a smile..

The purpose of this installation manual is to provide you with general steps and procedures on how to properly and safely install BARZ® ceiling systems as well as how to address various field conditions.

Please read this entire manual and familiarize yourself with all procedures before you begin. If you have been supplied with project drawings specific to your order, make sure you have a thorough understanding of those. Any details within those documents will supersede this manual. Work area must be clear of debris and obstacles to ensure a safe and fast installation.

Please work safely!
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Preparation
Component Identification

Typical Supplied Components

Available Accessories
Preparation
Tools

Standard Tools
- Safety Goggles
- Hard Hat
- White Cotton Gloves
- Tape Measure
- Square
- Lineman Wire Cutters
- Hanger Wire
- Laser Level

Field Modification Tools
- Left Snips
- Right Snips
- Center Snips
- Drill with 1/8" Diameter Standard & Counter-Sink Bits
- Rivet Gun
- Working Gloves
- File
- Rotary Saw
Want to add some customization?

A good layout is always important when designing your space.
Module Planning
Layout Options

The options are endless.

Above are some examples to help get you started.
Grid Planning
Blank Grid

Crosses @ 4'כ, Dashed Lines @ 2'כ
Grid Planning
Blank Grid

Crosses @ 4'C, Dashed Lines @ 2'C
Grid Planning
Blank Grid

Crosses @ 4'C, Dashed Lines @ 2'C
Grid Planning
Blank Grid

Crosses @ 4’C, Dashed Lines @ 2’C
**General Installation**

**Install Hanger Wire & Main Tees**

Install per ASTM C636 and ASTM E580 specifications. Select the correct fastener based on your field conditions, i.e. shot-in pin, anchor bolts, screw/clip, etc.

Install additional bracing required for project’s seismic codes. Lateral bracing wires/compression posts. For lateral bracing, counter-splayed wires or diagonal bracing are required for each direction.

Hang main tees on wires according to installation drawing layout. Keep eyesight across top during installation to help ensure a level system.

Shown at wood joist with hanger-wire and eye-lag option.
Install Cross Tees

Install cross-tees into main tees with 48" maximum spacing. Follow installation drawing layout.
General Installation
Level Grid System

Use laser level to ensure whole grid is leveled to a 1/8" maximum variance.
General Installation
Install Cassettes Into Grid

Install cassettes into grid per installation drawings.
Pay special attention to orientation.
General Installation
Fully Installed System

Adjust alignment as you go. Review completed installation prior to sign-off.

1/4" reveal typical
General Installation
Field Cutting

(A) Drill out existing rivets and remove backslat.

(B) Place Template Tool over cassette and cut to desired length.

(C) Place backslat over factory-punched holes (conveniently spaced 6" OC) and secure with either rivets or metal screws.

Removing rivets.

Scribe cut lines and remove tool if necessary.

OR
General Installation
Installing End-Caps

(A) Place template-tool over bar’s end and mark holes.

(B) Remove template prior to drilling to avoid damaging it and drill holes perpendicular to surface.

(C) Clean/prime inner bar surface where end-cap adhesive strips will make contact.

(D) Remove protective films on sides and bottoms of end-caps to reveal adhesive strips and insert end-caps into bar openings.

(E) Place rivets.
Perimeter Conditions
End-Cap Attachment

8’ Cassette needs to be field-cut to proper length.

(A) Place Template Tool, then mark and field-cut to proper length.

(B) Add new backslat(s) at max 8” cantilever from end. Refer to Backslat Installation page for full details.

(C) Add end-caps where necessary. Refer to End-Cap Installation page for full details.

Maximum 8” long cantilever unless otherwise directed.

New end
Perimeter Conditions
Angled Wall Condition

(A) Adjust to desired reveal.

(B) Add end-caps where necessary. Refer to End-Cap Installation page for full details.

(C) Add new backslat(s) and hanger-wire(s) where necessary. Refer to Backslat Installation page for full details.

(D) Ensure cut is perpendicular to bar.

End-Caps installed after field-cut.
Perimeter Conditions
Column Integration

(A) Field-cut cassettes to make clearance for column, leaving a minimum 2” reveal.

(B) Add end-caps where necessary. Refer to End-Cap Installation page for full details.

(C) Add new backslat(s) and hanger-wire(s) where necessary. Refer to Backslat Installation page for full details.

Attach grid to column using CL Clip as shown. Hardware type should be selected based on substrate.
(A) Field-cut and remove baffle, backslat, and tee segments to create a clearance for lighting fixtures.

(B) Add end-caps to all new ends.

(C) Install Universal Yoke(s), additional backslat(s) and hanger-wire as needed.
MEP Integration
Sprinklers

If BARZ system is NOT open 70% or greater, follow steps below:

(A) Field-cut and remove bar segments, backslat(s), and tees to create a clearance for Sprinklers.

(B) Add end-caps to all new ends.

(C) Add new backslat(s) and hanger-wire(s) where necessary.
(A) Field-cut and remove bar segments, backslat(s), and tees to create a clearance for A/C diffuser.

(B) Add new backslat(s), cross-tee(s), and hanger-wire(s) where necessary.

(B) Add end-caps where necessary. Refer to End-Cap Installation page for full details.
A. Adjust ceiling components to provide a consistent finish and appearance in conformity with established tolerances and requirements.

B. Clean exposed surfaces of acoustical metal panel ceilings and walls. Comply with manufacturer’s written instructions for cleaning and touch-up of minor finish damage.

C. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including dented and bent units.

Support
Contacts

Contact your sales rep for any additional support.
SAFETY
Safety First! Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation. Be cautious with exposed sharp edges when handling ceiling system components.

INSTALLATION
Prior to installation, make sure your project complies with any seismic & non-seismic requirements. Must be installed in compliance with ASTM C636, ASTM E580, utilizing standard industry practices and adopting applicable code requirements. Alternative assemblies and installation methods may be utilized when approved by the authority having jurisdiction. USG Ceiling Plus recommends checking with the authority having jurisdiction prior to designing and installing a suspended ceiling system.

LIMITATION
Some commercially acceptable color variation may occur between lots and between different size products of the same color.

LIABILITY
We shall not be liable for any incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions of for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.