

# TECHZONE™ Ceiling Systems

## 6" Technical Zone for Continuous Lighting

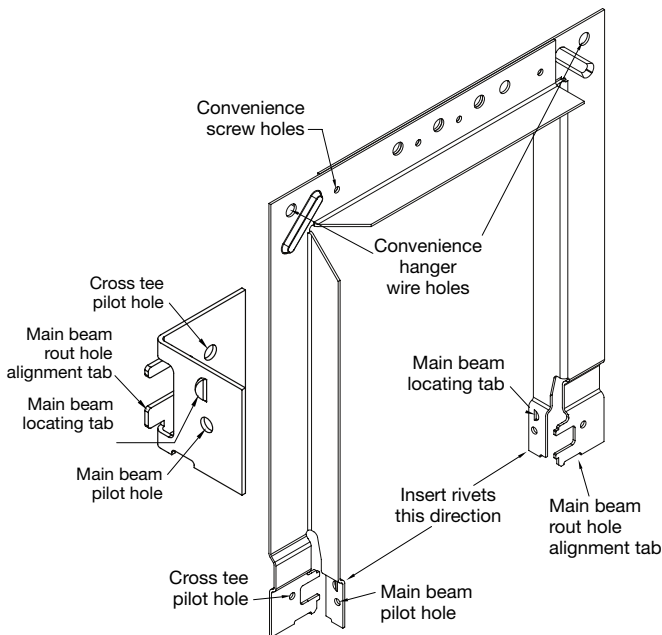
### Assembly and Installation Instructions

#### 1. GENERAL

##### 1.1 Product Description

The TechZone™ Yoke (TZYK) is a suspension systems accessory designed to allow continuous technical zones of 6" wide linear light fixtures to be installed between parallel rows of main beams. The yoke allows the entire suspension system to be installed prior to other ceiling elements. Ceiling Panels, Light Fixtures and all other services can be installed after the suspension system.

The top of the yoke extends 9-1/2" above the visible finished face flange of the suspension system. When suspended from hangar wire, a minimum of 3" additional space is needed to allow for a code compliant wire wrap connection to structure (3 full turns in 1-1/2"). It is best to have a minimum 13" of clear plenum space where a yoke is going to be installed. Larger sized panels used in conjunction with the TechZone system may have even deeper plenum space requirements for access depending on panel dimensions.



#### 2. SUSPENSION SYSTEM

##### 2.1 General

The TechZone Yoke is a two-part assembly. The halves are joined by inserting a #7 screw through the small convenience screw holes provided across the top of the yoke. Two screws are required in each yoke assembly.

##### 2.2 Suspension

The yoke is suspended from the overhead structure by means of minimum 12 gage soft annealed galvanized hanger wire. One hanger wire from structure is required at the center of the top strap of each yoke. Alternately, convenience hanger wire holes are provided across the top of the yoke and at the corners of the yoke for the attachment of additional wires to each yoke if desired for stability.

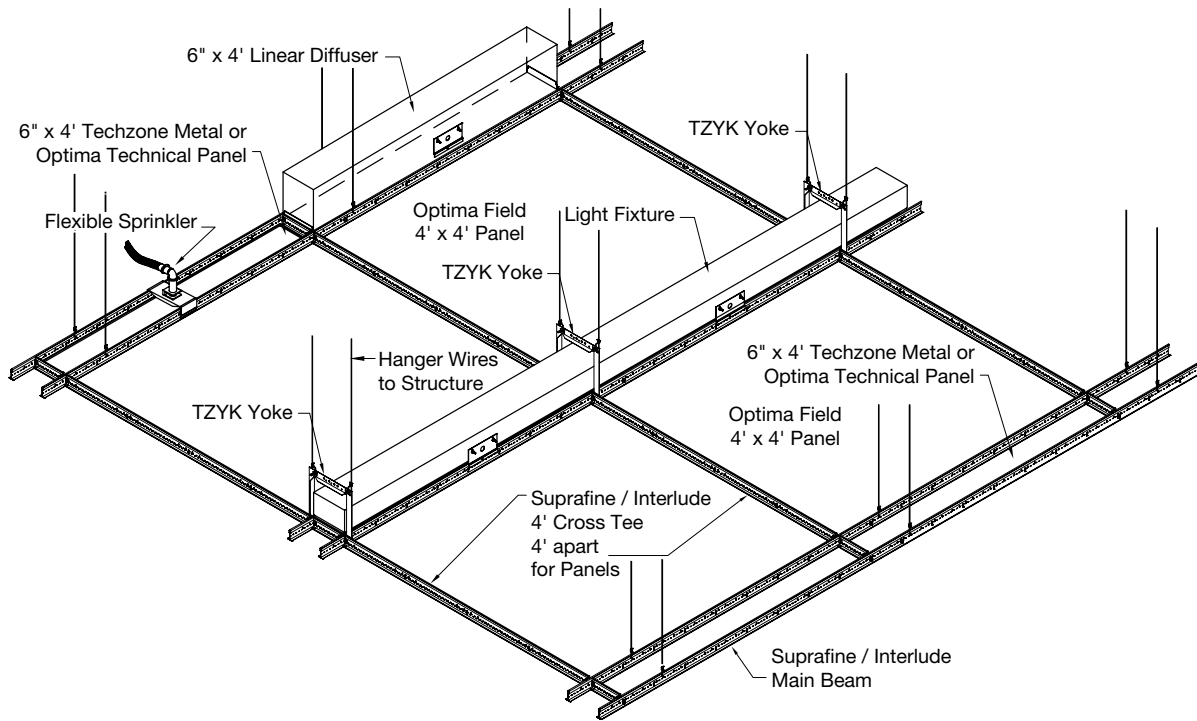
##### 2.3 Spacing

Suspend one yoke every 48" or 60" depending on the ceiling technical panel layout between parallel main beams. For continuous lighting installations, install a TechZone Yoke every 48" along the main beams. Where a light fixture terminates at a suspension intersection, no yoke is required. Instead, insert a 6" cross tee and attach 12 gage hanger wires directly to the main beams just beyond the intersection.

##### 2.4 Main Beam Installation

Place the main beam inside the yoke and insert the main beam rout hold alignment tab and main beam locating tab into the appropriate main beam holes. Best results are achieved when the negative side of the rotary stitching faces the yoke. Clamp the yoke in position and punch or drill through the web of the grid using the main beam pilot hole on the yoke as a guide. Connect the yoke to the main beam with a 1/8" diameter steel pop rivet inserted from the inside of the technical zone through the web of the main beam first and then through the hole in the yoke. The finished side of the rivet should be facing the inside the technical zone, if done in reverse, the bump end of the rivet may interfere with light fixture installation. Repeat this process for each yoke-to-main beam connection.

## 6" Wide Technical Zone Configuration for Continuous Lighting Fixtures



### 2.5 Cross Tee Installation at Yoke

Stab the cross tee into the yoke as you normally would a cross tee. Position the end of the tee flange on the main beam properly (Prelude® and Suprafine® – stepped override, Silhouette® and Interlude® – mitered intersection detail). Connect the yoke by inserting a 1/8" diameter steel pop rivet through the staked on end detail hole that lines up with the cross tee pilot hole on the yoke. Snip off or bend the cross tee end detail flat against the main beam so light fixture interference does not occur. Repeat this process for each cross tee that meets the main beam at a yoke. Install the remaining suspension components as a typical suspended ceiling system.

### 2.6 Cross Tee Installation with TechZone Bracing Clip

If the suspension layout includes cross tees that connect to the continuous technical zone where there is no yoke present, the cross tee factory end detail is to be replaced with the TechZone™ Bracing Clip (TZBC).

Insert the main beam rout hole alignment tab and the main beam locating tab on the clip into the appropriate main beam holes. Clamp the clip in position and punch or drill through the main beam pilot hole in the clip. Connect the clip to the main with a 1/8" diameter steel pop rivet inserted first through the web of the main beam and then into the hole in the clip. The finished side of the rivet should be facing the inside the technical zone, if done in reverse, the bump end of the rivet may interfere with light fixture installation. Position the end of the tee flange on the main beam properly (Prelude and Suprafine – stepped over ride, Silhouette and Interlude – mitered intersection detail). Connect the yoke by inserting a 1/8" diameter steel pop rivet through the staked on end detail hole that lines up with the cross tee pilot hole on the clip. Snip or bend the cross tee end detail flat against the main beam so light fixture interference does not occur. Repeat this process for each cross tee that meets the main beam where a yoke is not present.

## MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 1 877 276 7876.  
For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 1 877 276 7876 or FAX 1 800 572 TECH.  
For the latest product selection and specification data, visit [armstrongceilings.com/techzone](http://armstrongceilings.com/techzone).

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