

# STANDARDS COMPLIANCE

## HOW TO ACHIEVE A FIRE RATING

UL publishes a book called The Fire Resistance Directory each February. A supplement is issued each August. The Fire Resistance Directory contains instructions for fire rated ceiling systems. Each approved ceiling system has a design number. The fire rated ceiling system is achieved by selecting a design number and following instructions, which include spacing criteria, enclosure requirements, and so on. When complete, the system carries a rating (for example: one hour). FR option provides a label indicating the fixture is suitable for use in such ceiling systems. Many ceiling designs required an enclosure or "tent" of fire resistant material over the back of the fixtures. These enclosures are either built on-site, sometimes of ceiling tile material, or purchased as one-piece molded covers.

## Fire Rated Troffers: Debunking the Myth

### WHAT IS A FIRE RATED LABEL?

Columbia Lighting can provide a fire rated label (FR option) which states that our recessed light fixtures are manufactured in accordance with UL1598 and, therefore, can be installed in a fire rated ceiling system. There are no additional requirements of a recessed fixture in order for it to be used in a fire rated design.

### I NEED A FIRE RATED TROFFER.

A true fire rated troffer does not exist because UL does not list troffers as "fire rated". Instead, they list ceiling systems which may include UL listed troffers as part of that system.

### BUT MY INSPECTOR SAYS I NEED ONE.

Your inspector has authority and jurisdiction over your project. However, a better understanding of the fire rated ceiling system process can help in your discussions. Order the FR option where required by local authorities.

### I REMEMBER FIRE RATED TROFFERS FROM JOBS PAST.

UL listed three ceiling designs using a special fire rated troffer many years ago. Columbia Lighting (and a few others) offered this troffer, which consisted of a recessed unit with a sheet of fire resistant material attached to the back of it. Since all three ceilings have been obsolete for decades (some exceptions in Canada), Columbia Lighting no longer manufactures this troffer. Instead, we manufacture in accordance with UL 1598, which allows our recessed fixtures to be installed in a fire rated ceiling system.

### FIRE RATED ENCLOSURES

An FR label does not indicate whether or not "tenting" of the fixtures is required; all installation must be in accordance with the UL Fire Rated Ceiling design.

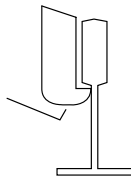
## T-BAR LOCK CLIPS

Four integral T-Bar lock clips are standard on many Columbia Lighting recessed fixtures. Integral clips are built according to the rigorous demands of UL 1598. Where integral clips are not available, a parts bag is provided containing two clips for attachment to the housing structure. Four clips are available upon request.

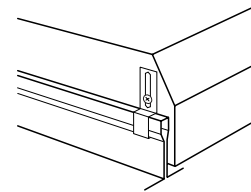
### INTEGRAL CLIP

Fixture is equipped with integral T-Bar Clips at each end. To engage T-Bar, bend clip outward and lock under T-Bar.

For installation in the following NEMA ceiling types: -G -GR -NFG -NFSG -SS



### NON-INTEGRAL CLIP



### Fire Rated Label

This fixture is equipped with premium low heat ballasts to prevent ballast cycling when installed in a fire rated ceiling system. This fixture is compatible with UL Fire Rated Ceiling designs when installed in accordance with the UL Fire Resistance Directory.

## DAMP AND WET LOCATION LABELS

Columbia fixtures will be labeled suitable for installation in damp locations (most fixtures) or wet locations (select extreme environment and outdoor fixtures) as called out on the specification sheets. Installation of a dry-location listed customer specified component such as an emergency inverter requires the fixture to be labeled for dry location use only.

## BALLAST DISCONNECT

All Columbia fixtures are in compliance with NEC and CEC requirements for ballast disconnects by including integral ballast disconnects in required fixtures.

The following fixtures are excluded from the ballast disconnect requirement:

- Hazardous location fixtures—HZ, FLSB, FNPH, FDPH, FSPH, CRS (with D2 option)
- Fixtures with emergency battery pack options

## CIRCLE I UL STANDARD 1958

All Columbia fixtures are in compliance with UL Standard 1598, Clause 8.8.1, which reads as follows: "A luminaire with instant-start ballast(s), incorporating bi-pin lampholders shall a) Be constructed with a ballast(s) identified as Type CC, or b) Be constructed with lampholder intended for use with instant-start ballasts in accordance with Clause 4.1. Lampholders marked with a circle "I" comply with these requirements."

**Columbia**  
LIGHTING