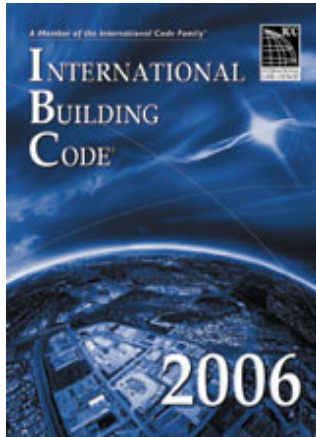


# Fire Rated Ceiling Assembly Requirements

## Fire Rated Designs for Floor-Ceiling and Roof-Ceiling Assemblies

Listed floor-ceiling and roof-ceiling assemblies are constructed using either fire rated drywall or fire rated suspended ceiling tile and grid systems. Both construction types regardless of the product manufacturer require that recessed ceiling membrane penetrations for items such as fluorescent lights, can lights and speakers be protected with approved materials.

## Building Code Requirements



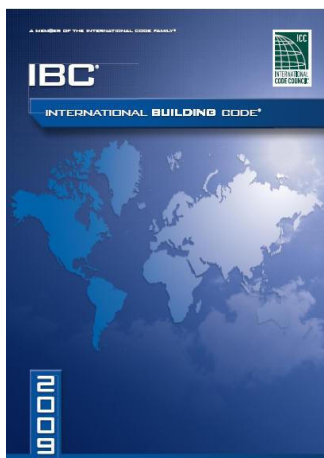
### **IBC 2006 SECTION 711 HORIZONTAL ASSEMBLIES**

**711.1 General.** Floor and roof assemblies required to have a *fire-resistance rating* shall comply with this section.

### **SECTION 712 PENETRATIONS**

**712.1 Scope.** The provisions of this section shall govern the materials and methods of construction used to protect through penetrations and membrane penetrations of horizontal assemblies and fire resistance rated wall assemblies.

**712.4.1.2 Membrane penetrations.** Penetrations of membranes that are part of a fire-resistance rated horizontal assembly shall comply with Section 712.4.1.1.1 or 712.4.1.1.2. Where floor/ceiling assemblies are required to have a minimum 1-hour fire resistance rating, recessed fixtures shall be installed such that the required fire resistance rating will not be reduced.



### **IBC 2009 SECTION 712 HORIZONTAL ASSEMBLIES**

**712.1 General.** Floor and roof assemblies required to have a *fire-resistance rating* shall comply with this section. Nonfire-resistance-rated floor and roof assemblies shall comply with Section 713.4.2.

### **SECTION 713 PENETRATIONS**

**713.1 Scope.** The provisions of this section shall govern the materials and methods of construction used to protect *through penetrations* and *membrane penetrations* of *horizontal assemblies* and fire-resistance-rated wall assemblies.

**713.4.1.2 Membrane penetrations.** Penetrations of membranes that are part of a *horizontal assembly* shall comply with Section 713.4.1.1.1 or 713.4.1.1.2. Where floor/ceiling assemblies are required to have a *fire-resistance rating*, recessed fixtures shall be installed such that the required *fire resistance* will not be reduced.



**IBC 2012**  
**SECTION 711**  
**HORIZONTAL ASSEMBLIES**

**711.1 General.** Floor and roof assemblies required to have a *fire-resistance rating* shall comply with this section.

**SECTION 714**  
**PENETRATIONS**

**714.1 Scope.** The provisions of this section shall govern the materials and methods of construction used to protect *through penetrations* and *membrane penetrations* of *horizontal assemblies* and fire-resistance-rated wall assemblies.

**714.4.1.2 Membrane penetrations.** Penetrations of membranes that are part of a *horizontal assembly* shall comply with Section 714.4.1.1.1 or 714.4.1.1.2. Where floor/ceiling assemblies are required to have a *fire resistance rating*, recessed fixtures shall be installed such that the required *fire resistance* will not be reduced.