



**City of Santa Monica
Building and Safety Division**

Fire Rated Penetration Guide

This list is to be used as a general guide.

It is not inclusive of all code requirements and inspection criteria.

Based on the 2016 California Building Code (CBC)

California Codes available at www.bsc.ca.gov

- **ROUGH INSPECTION-BACKING**
 - Backing must be observed prior to framing inspection approval
 - Blocking below (and above) future wall penetration location to retain mineral wool packing
 - Rated floor penetrations require mineral wool packing to the depth indicated in the UL listed system, leaving the required amount of void above (and/or below) for intumescent caulk.

 - **ROUGH INSPECTION-FIRE CAULKING**
 - After approval of backing, intumescent material shall be added to the required depth and width per UL listed system
 - Intumescent material must match system requirements, substitution of other fire caulks is unacceptable without design professional intervention
 - Fire caulking must be approved prior to requesting framing inspection with the exception of the rated wall penetrations which will be approved after drywall (but may require mineral wool approval prior to drywall)
1. Penetrations into and openings through interior exit stairways and ramps shall comply with CBC 1023.5
 2. Ducts and air transfer openings, shall be installed per CBC 714.1.1
 3. Penetrations into or through fire rated walls, fire barriers, smoke barriers, and fire partitions shall be installed per CBC 714.3
 4. Penetrations into floor/floor ceiling assemblies, shall be installed per CBC 714.4
 5. Through penetrations shall installed AS TESTED in the approved fire-resistive assembly per CBC 714.4.1.1
 6. Documentation shall be provided from the manufacturer of the fire-resistive assembly, or other approved authority, to show proper installation
 7. Inspection is required at all stages of installation, to include but not limited to, backing, packing of mineral wool, etc.
 8. Deputy inspection of fire rated penetrations and joint systems in high rise construction per 1705.17 (high rise is 6 stories Including basement levels in Santa Monica)