

Study Session

2

2009 IPC Sections 301 – 307 General Regulations I

OBJECTIVE: To develop an understanding of those general provisions regarding plumbing systems that are not specifically addressed in other chapters of the code. To develop an understanding of the provisions that apply to materials in all plumbing applications.

REFERENCE: Sections 301 through 307, 2009 *International Plumbing Code*

- KEY POINTS:**
- Which types of plumbing installations are regulated by IPC Chapter 3?
 - Which items are required to be connected to the drainage system?
 - Which items are required to be connected to the water supply?
 - What are the prohibited locations for plumbing systems?
 - What materials are prohibited from being introduced into a sewer system?
 - Where differences occur between the code and the manufacturer's installation instructions, which shall apply?
 - Which standards apply to materials, and how are the materials to be installed?
 - What methods are required to prevent the entry of rodents?
 - When sleeves are used to protect pipes, what additional areas or items need to be addressed?
 - Which areas are prohibited from having a pipe installed in them without protection?
 - When are shield plates required?
 - Under what circumstances is backfill required?
 - What material is to be used for backfill, and how is the material placed?
 - Is the pipe permitted to rest on rock at any point?
 - When over-excavation is required, what is the minimum depth?
 - When a concrete foundation is used, what type of bedding is required to provide uniform load-bearing support?
 - What type of loading may cause damage to the pipe?
 - What two problems may occur when earth tunnels are used?
 - Which areas of a building are identified by this chapter for alteration during the installation of a plumbing system?
 - What regulates framing members being cut, notched or bored?

KEY POINTS: • If a truss is modified, what must occur?
(Cont'd)

Topic: System Installation
Reference: IPC 301.2

Category: General Regulations
Subject: General Provisions

Code Text: *Plumbing shall be installed with due regard to preservation of the strength of structural members and prevention of damage to walls and other surfaces through fixture usage.*

Discussion and Commentary: Building structural systems are either engineered or constructed according to the conventional construction provisions of the *International Building Code*® (IBC®). In either case, excessive cutting, notching, boring or otherwise altering the original structural components could negatively impact the performance of the structural system. Installers and code officials alike should inspect fixtures and piping to verify that the installation and use of these components do not have adverse effects on the structure or finished surfaces.



The *International Building Code* (IBC) and the *International Residential Code* (IRC) limit the amount of notching and boring of wood framing members to preserve the integrity of the framing system.