

# Building Code Summaries — Fire Protection

## Firestopping, Fireblocking, Draftstopping and Building Code Requirements

### International Building Code (IBC)

#### IBC (2009)

702 Definitions  
704 Fire-Resistance Rating of Structural Members  
706 Fire Walls  
709 Fire Partitions  
713 Penetrations  
713.5 L Ratings in Penetrations in Smoke Barriers  
714 Fire Resistant Joint Systems  
714.4 Exterior Curtain Wall/Floor Intersection  
714.6 L Ratings in Fire Resistant Joint Systems in Smoke Barriers  
717 Concealed Spaces  
717.2 Fireblocking  
1406.2.4 Exterior Walls - Fireblocking  
1704.13 Mastic and Intumescent Fire Resistant Coatings – Special Inspections  
2111.12 Fireplace fireblocking  
2113.20 Chimney fireblocking

#### IBC (2006)

702 Definitions  
706 Fire Barriers  
708 Fire Partitions  
712 Penetrations  
712.5 L Ratings in Penetrations in Smoke Barriers  
713 Fire Resistant Joint Systems  
713.4 Exterior Curtain Wall/Floor Intersection  
713.6 L Ratings in Fire Resistant Joint Systems in Smoke Barriers  
714 Fire-Resistance Rating of Structural Members  
716.1.1 Fire Stopping Ducts without Dampers  
717 Concealed Spaces  
717.2 Fireblocking  
717.2.1 Fireblocking Materials  
1406.2.4 Exterior Walls-Fireblocking  
1704.11 Mastic and Intumescent Fire Resistant Coatings – Special Inspections  
2111.12 Fireplace fireblocking  
2113.20 Chimney fireblocking

#### IBC (2003)

702 Definitions  
705 Fire Walls  
708 Fire Partitions  
712 Penetrations  
713 Fire-Resistant Joint Systems  
713.4 Exterior Curtain Wall/Floor Intersection  
714 Fire-Resistance Rating of Structural Members  
717 Concealed Spaces  
717.2 Fireblocking  
1406.2.4 Exterior Walls - Fireblocking  
2111.13 Fireplace Fireblocking  
2113.20 Chimney Fireblocking

### International Fire Code (IFC)

#### IFC (2009)

609 Commercial Kitchen Hoods  
703.1 Maintenance of Fire Resistance Rated Construction  
1803.14.2 Penetrations in Fire Barriers - Exhaust Ducts in Semiconductor Facilities

#### IFC (2006)

609 Commercial Kitchen Hoods  
703.1 Maintenance of Fire Resistance Rated Construction  
1803.14.2 Penetrations in Fire Barriers - Exhaust Ducts in Semiconductor Facilities

#### IFC (2003)

610.1 Commercial Kitchen Hoods  
703.1 Maintenance of Fire Resistance Rated Construction  
1803.14.2 Penetrations in Fire Barriers - Exhaust Ducts in Semiconductor Facilities

### National Fire Protection Association (NFPA)

#### NFPA Life Safety 101 (2009)

8.3.5 Penetrations & Misc. Openings in Fire Barriers  
8.3.6 Joints in Fire Barriers  
8.4.4 Penetrations & Misc. Openings in Smoke Partitions  
8.4.5 Joints in Smoke Partitions  
8.5.6 Penetrations & Misc. Openings in Smoke Barriers  
8.5.7 Joints in Smoke Barriers  
8.6 Vertical Openings  
8.6.3 Continuity Exemptions – Joints (4)

#### NFPA Life Safety 101 (2006)

8.3.5 Penetrations in Fire Barriers  
8.3.6 Joints in Fire Barriers  
8.4.4 Penetrations in Smoke Partitions  
8.4.5 Joints in Smoke Partitions  
8.5.6 Penetrations in Smoke Barriers  
8.5.7 Joints in Smoke Barriers  
8.6 Vertical Openings  
8.6.3 Continuity Exemptions – Joints (4)

#### NFPA Life Safety 101 (2003)

8.3.5 Penetrations in Fire Barriers  
8.4.4 Penetrations in Smoke Partitions  
8.4.5 Joints in Smoke Partitions  
8.5.5 Penetrations in Smoke Barriers  
8.5.6 Joints in Smoke Barriers  
8.6 Vertical Openings  
8.6.3 Continuity Exemptions – Joints (4)

**International Mechanical Code (IMC) International Residential Code (IRC)**

**IMC (2009, 2006, 2003)**

506.3.10 Grease Duct Enclosures

**NFPA 5000 Building Construction and Safety Code (2009, 2006, 2006)**

8.8 Penetrations in Fire Barriers  
8.9 Joints in Fire Barriers  
8.9.3 Exterior Curtain Wall and the Perimeter Joint  
8.10.4 Penetrations in Smoke Partitions  
8.10.6 Joints in Smoke Partitions  
8.11.5 Penetrations in Smoke Barriers

**Uniform Mechanical Code (UMC)**

**UMC (2009)**

507.2.6 Grease Ducts  
510.7 Interior Installations

**UMC (2006)**

507.2.3 Grease Ducts  
510.7 Interior Installations

**UMC (2003)**

510.7 Interior Installations  
510.7.3 Grease Duct Enclosures

**Uniform Plumbing Code (UPC)**

**UPC (2009, 2006, 2003)**

Chapter 15 Firestopping

**IRC 2009**

R302 Fire Resistant Construction  
R302.11 Fireblocking  
R302.11.1 Fireblocking materials  
R302.12 Draftstopping  
R502.12 Draftstopping - Floors  
R502.13 Fireblocking Required - Floors  
R602 Wood Wall Framing  
R602.8 Fireblocking Required – Walls  
R1001.12 Fireplace Fireblocking  
R1003.19 Chimney Fireblocking  
M1601 Duct Construction  
M1601.1 Duct Design  
M1601.4.4 Duct Fireblocking  
M1801.9 Chimney Fireblocking  
G2425.15.4.1 Chimney Fireblocking  
E3402.2 Penetrations of fire-resistance-rated assemblies.  
E3402.3 Penetrations of firestops and draftstops

**IRC 2006**

R502.12 Draftstopping - Floors  
R502.13 Fireblocking Required - Floors  
R602 Wood Wall Framing  
R602.8 Fireblocking Required – Walls  
R1001.12 Fireplace Fireblocking  
R1003.19 Chimney Fireblocking  
M1601 Duct Construction  
M1601.1 Duct Design  
M1601.3.3 Duct Fireblocking  
M1801.9 Chimney Fireblocking  
G2425.15.4 Chimney Fireblocking  
E3302 Building Structure Protection  
E3302.2 Penetrations of fire-resistance-rated assemblies.  
E3302.3 Penetrations of firestops and draftstops

**IRC 2003**

R502.12 Draftstopping - Floors  
R502.13 Fireblocking Required - Floors  
R602 Wood Wall Framing  
R602.4 Interior load bearing and non load bearing walls to be fireblocked same as exterior walls  
R602.8 Fireblocking Required - Walls  
R1001.16 Chimney Fireblocking  
R1003.13 Fireplace Fireblocking  
M1601.3.3 Duct fireblocking  
M1801.9 Chimney Fireblocking  
G2425.15.4 Chimney Fireblocking  
E3302 Building Structure Protection  
E3302.2 Penetrations of fire-resistance-rated assemblies.  
E3302.3 Penetrations of firestops and draftstops