Welcome to the PMG Educational Program

Sponsored by:

2018 IPC Significant Changes

Based on the 2018 International Plumbing Code®, (IPC®)

OBJECTIVES

- Identify the differences between 2015 and 2018 IPC codes.
- Explain differences between current and previous code years.
- Identify changes in organization and code requirements.
- Identify design, plan review and inspection requirements.
Tips

Guide to a successful class:
1. Slides contain some text and iconic images to help you learn.
2. Text and commentary is in the handout.
3. Follow along in the course handout.
4. Ask Questions, ask questions, ASK QUESTIONS!!!!
Section 202

• **ACCESSIBLE.**

Section 202

• **FULL-OPEN VALVE.**

Section 202

• **PRESS-CONNECT JOINT.**
Section 202

- **PUBLIC SWIMMING POOL.**
  - Public swimming pool serving an apartment complex

Section 202

- **SWIMMING POOL.**
  - Image of a swimming pool and a residential building.
305.1 **Protection Against Contact**

Metalllic piping in plastic sheathing

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305.6 **Protection Against Physical Damage**

Minimum allowable distance from face of member to pipe

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308.6 **Sway Bracing**

One method of anti-sway bracing

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308.10 **Thermal Expansion Tanks**
308.10 Thermal Expansion Tanks

Table 403.1 Minimum Number of Required Plumbing Fixtures

Table 403.1 Gaming Area Plumbing Fixtures

Chapter 4
Fixtures, Faucets and Fixture Fittings
Table 403.1 Selection Based on Description of Use Column

Table 403.1 Minimum Number of Required Plumbing Fixtures* (See Sections 403.1.1 and 403.2)

<table>
<thead>
<tr>
<th>Classification Description</th>
<th>Water Closets</th>
<th>Lavatories</th>
<th>Bathrooms/Drinking</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Factory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note “f” in Table 403.1 points the reader to Section 609 of the International Swimming Pool and Spa Code for determining the required number of plumbing fixtures.

Table 403.1 Plumbing Fixtures for Outdoor Public Swimming Pools

Table 403.1 Minimum Number of Required Plumbing Fixtures* (See Sections 403.1.1 and 403.2)

<table>
<thead>
<tr>
<th>Classification Description</th>
<th>Water Closets</th>
<th>Lavatories</th>
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<td>Male</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Factory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes a through e are unchanged:

1. The required number and type of plumbing fixtures for outdoor public swimming pools shall be in accordance with Section 609 of the International Swimming Pool and Spa Code.
403.1.3 Lavatory Distribution

• Separate facilities not required in businesses which have a max. occupant load of 25 or fewer.

403.2 Separate Facilities

403.3 Employee and Public Toilet Facilities

405.3.1 Water Closets, Urinals, Lavatories and Bidets
405.3.5 Urinal Partitions

PLAN VIEW

Minimum clearance between urinal partitions

405.5 Plumbing Fixtures with a Pumped Waste

Photo Courtesy of SFA & Saniflo

405.5 Plumbing Fixtures With a Pumped Waste

Pumped waste fixture

409.1 Approval
409.4 Residential Dishwasher Waste Connection

409.4 Residential Dishwasher Waste Connection

411.3 Water Supply

412.7 Temperature-actuated, Flow Reduction Valves Devices for Individual Fixture Fittings
502.1 General

- Solar thermal water heating systems shall conform to the requirements of the International Mechanical Code and ICC 900/SRCC 300.

Solar Water Heating System Standard

- Solar thermal water heater.
Solar Water Heating System Standard

504.6 Requirements for Discharge Piping

504.7 Required Pan

Discussion Activity
Chapter 6
Water and Supply Distribution

602.3.1 Sources

605.13.7, 605.14.4 & 605.16.3 Push-fit Joints

<table>
<thead>
<tr>
<th>Material</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fittings for polyethylene of raised temperature (PE-RT) plastic tubing</td>
<td>ASSE 1901; ASTM F1887; ASTM F2060; ASTM F1159; ASTM F2723</td>
</tr>
</tbody>
</table>

607.3 Thermal Expansion Control

Thermal expansion control device
608.3 Devices, Appurtenances, Appliances and Apparatus

608.4 Potable Water Handling and Treatment Equipment

608.12 Potable Water Tanks

608.17.1.1 Carbonated Beverage Dispensers
608.17.1.2 Coffee Machines and Noncarbonated Drink Dispensers

608.17.10 Humidifiers

608.17.1.2 Coffee Machines and Noncarbonated Drink Dispensers

608.17.10 Humidifiers
609.1 Scope

611.1 Design

Chapter 7
Sanitary Drainage
701.2 Connection to Sewer Required

Where state requirements do not exist, private sewage disposal systems must comply with the IPSDC.

701.8 Drainage Piping in Food Service Areas

Table 702.3

<table>
<thead>
<tr>
<th>BUILDING SEWER PIPE</th>
<th>MATERIAL</th>
<th>STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Polypropylene (PP) Plastic Pipe</td>
<td>ASTM F2736; ASTM F2764; CSA B182.13</td>
</tr>
</tbody>
</table>
703.4 Existing Building Sewers and Building Drains

704.1 Slope of Horizontal Drainage Piping

704.2 Reduction in Pipe Size

704.2 Reduction in Pipe Size
Chapter 8
Indirect/Special Waste

802.1 Protection

802.4.3.1 Connection of Laundry Tray to Standpipe

Chapter 9
Vents
918.8 Prohibited Installations

Chapter 10
Traps Interceptors and Separators

1003.3.2 Food Waste Disposers Restriction

1003.3.3 Additives to Grease Interceptors
Table 1102.4 Building Storm Sewer Pipe

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters,</td>
<td>ASTM D2661; ASTM F2554; ASTM F628; ASTM F1488; CSA B184.1; CSA B183.1</td>
</tr>
<tr>
<td>including Schedule 40, DR 22 (PS 200) and DR 24 (PS 140), with a</td>
<td></td>
</tr>
<tr>
<td>solid, cellular core or composite wall.</td>
<td></td>
</tr>
<tr>
<td>Polyethylene (PE) plastic pipe</td>
<td>ASTM F667; ASTM F2304/F2304M; ASTM F2648/F2648M</td>
</tr>
<tr>
<td>Polypropylene (PP) Pipe</td>
<td>ASTM F2381; CSA B187.1</td>
</tr>
<tr>
<td>Polyvinyl chloride (PVC) plastic pipe [Type DWV, SDR21, SDR17, SDR13;</td>
<td>ASTM D2665; ASTM D3034; ASTM FR81; ASTM F1488; CSA B184.4; CSA B181.2;</td>
</tr>
<tr>
<td>PS10 or PS10b] in IPS diameters, including Schedule 40, DR 22 (PS</td>
<td></td>
</tr>
<tr>
<td>200) and DR 24 (PS 140), with a solid, cellular core or composite wall.</td>
<td></td>
</tr>
</tbody>
</table>

1106.5 Parapet Wall Scuppers

Chapter 13

Nonpotable Water Systems
1302.7.2 Design and Construction

1303.1.1 Fire Protection Systems

1303.15.8 Rainwater Quality Test

1303.15.9 Collected Raw Rainwater Quality

**TABLE 1303.15.8—Rainwater Quality**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>6.0–7.0</td>
</tr>
<tr>
<td>BOD</td>
<td>Not greater than 10 mg/L</td>
</tr>
<tr>
<td>TPH</td>
<td>Not greater than 2 mg/L</td>
</tr>
<tr>
<td>Fecal coliform</td>
<td>No detectable fecal coliform in 100 mL</td>
</tr>
<tr>
<td>Sodium</td>
<td>No detectable sodium (in 150 mL)</td>
</tr>
<tr>
<td>Chlorine</td>
<td>No detectable chlorine (in 100 mL)</td>
</tr>
<tr>
<td>Enteroviruses</td>
<td>No detectable enteroviruses (in 300 mL)</td>
</tr>
</tbody>
</table>
Discussion Activity

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