



**MECHANICAL SYSTEMS – GENERAL**

**REDUCTION OF CLEARANCES WITH SPECIFIED FORMS OF PROTECTION (Based on IMC Code 305.4.2)**

Type of protection applied to and covering all surfaces of combustible material within the distance specified as the required clearance with no protection	Where the required clearance with no protection from appliance, vent connector or single-wall metal pipe is:									
	36"		18"		12"		9"		6"	
	Allowable Clearances with Specified Protection (Inches)									
	Use Column 1 for clearances above appliance or horizontal connector. Use Column 2 for clearances, vertical connector and single-wall metal pipe.									
	Above Column 1	Below & Rear Column 2	Above Column 1	Below & Rear Column 2	Above Column 1	Below & Rear Column 2	Above Column 1	Below & Rear Column 2	Above Column 1	Below & Rear Column 2
3/4" thick masonry wall without ventilated air space (v.a.s.)	—	24	—	12	—	9	—	6	—	3
1/2" insulation board over 1" glass fiber or mineral wool batts	24	18	12	9	9	6	6	4	3	3
0.004" sheet metal over 1" glass fiber or mineral wool batts reinforced with wire on rear face with v.a.s.	18	12	9	6	6	4	3	3	3	3
3/4" thick masonry wall with v.a.s.	—	12	—	6	—	6	—	6	—	6
0.004" sheet metal with v.a.s.	18	12	9	6	6	4	3	3	3	3
1/2" thick insulation board with v.a.s.	18	12	9	6	6	4	3	3	3	3
0.004" sheet metal with v.a.s. over 0.004" sheet metal with v.a.s.	18	12	9	6	6	4	3	3	3	3
1" glass fiber or mineral wool batts between two sheets 0.004" sheet metal with v.a.s.	18	12	9	6	6	4	3	3	3	3

**MINIMUM CONDENSATE PIPE SIZE (Based on IMC Code 305.3)**

Equipment Capacity in Tons of Refrigeration	Min. Condensate Pipe Diameter (Inches)
Up to 20	3/4
21 to 40	1
41 to 60	1 1/4
61 to 100	1 1/2
101 to 250	2

**PIPE CONDITIONS (Based on IMC Code 305.3)**

The size of condensate waste pipes is for one unit or a combination of units or as recommended by manufacturer. The capacity of waste pipes assumes a 1/8" per foot of 1% slope, with the pipe running 3/4" full at the following pipe conditions:

Outside Air – 20%		Room Air – 80%	
DB	WB	DB	WB
90°F	75°F	75°F	62.5°F

**HANGER ROD SIZES (Based on IMC Code 305.3)**

Pipe & Tube Size (Inches)	Rod Sizes (Inches)
1/2 to 4	3/8
5 to 8	1/2
10 to 12	5/8

**HANGERS & SUPPORTS (Based on IMC Code 305.3)**

Materials	Types of Joints	Horizontal	Vertical
Cast	Lead and Gasket	5 ft. except 10 ft. where 10 ft. lengths are installed (1,2)	Base and each floor, 15 ft. Max.
	Compression Gasket	Every other joint unless over 4 ft. then suggest each joint (1,2)	Base and each floor, 15 ft. Max.
Cast Iron Hubless	Shielded Coupling	Every other joint unless over 4 ft. then suggest each joint (1,2,4)	Base and each floor, 15 ft. Max.
Copper & Copper Alloys	Soldered, Braised, Threaded or Mechanical	6 ft. if 1 1/2" and smaller, 10 ft. if 2" and larger.	Each floor, 10 ft. Max. (1)
Steel Pipe for Water CMV's	Threaded or Welded	10 ft. if 1/2" and smaller, 12 ft. if 3/4" and larger.	Every other floor, 25 ft. Max.
Steel Pipe for Gas	Threaded or Welded	6 ft. if 1/2", 8 ft. if 3/4" & 1" 10 ft. if 1 1/4" & larger	6 ft. if 1/2", 8 ft. if 3/4" and 1" every floor level if 1 1/4"
Schedule 40 PVC & ABS	Solvent-Cemented	All sizes, 4 ft.; allow for expansion every 30 ft. (1)	Base and each floor, end-story guides, provide for expansion every 30 ft.
CMC	Solvent-Cemented	3 ft. if 1" and smaller, 4 ft. if 1 1/4" and larger.	Base and each floor, end-story guides.
Lead	Wiped or Burned	Continuous Support	4 ft. Max.
Steel	Mechanical	According to standards acceptable by the Authority Having Jurisdiction.	
PEX	Cold Expansion, Insert & Compression	32" if 1" and smaller, 4 ft. if 1 1/4" and larger	Base and each floor, end-story guides.
PEX AL-PEX	Metal Insert and Metal Compression	36" if 1/2", 3/4", 1"	Base and each floor, end-story guides.
PE AL-PE	Metal Insert and Metal Compression	36" if 1/2", 3/4", 1"	Base and each floor, end-story guides.
PE-RT	Insert and Compression	32" if 1" and smaller, 4 ft. if 1 1/4" and larger	Base and each floor, end-story guides.
Polystyrene (PS)	Flange with gasket, bolt, saddle, electrofusion, threaded metal through studs or mechanical	32" if 1" and smaller, 4 ft. if 1 1/4" and larger	Base and each floor, end-story guides.

(1) Support adjacent to joint, not to exceed 18" support at each horizontal branch connection.  
 (2) Flanges must not be placed on the coupling.  
 (3) Vertical water lines are permitted to be supported according to recognized engineering principles with regard to expansion and contraction, where first approved by Authority Having Jurisdiction.

**PIPING PROTECTION (Based on IMC Code 305.3)**

Piping/Tubing	Protection
Piping/Tubing passing under or through walls	Must be protected from breakage
Piping/Tubing passing through or under chimneys or other combustible materials	Must be protected from external corrosion.
Piping/Tubing penetrating framing members	<ul style="list-style-type: none"> <li>• Plastic, copper or copper alloy piping or tubing and ducts penetrating framing members in walls 1" of the required framing must be protected by steel metal plates (Min. 16 gauge min. thickness).</li> <li>• Steel metal plate must extend along the framing member 1 1/4" Min. beyond the outside diameter of the pipe or tubing.</li> </ul>
Piping/Tubing in Concrete or Masonry	<ul style="list-style-type: none"> <li>• Walls around piping or tubing passing through concrete floors must be sealed.</li> <li>• Piping through concrete or masonry must have sleeves. Space between sleeves and pipe/tubing must be sealed and made airtight.</li> <li>• Piping through concrete or masonry must not be subject to loads from building construction.</li> </ul>
Concrete, Masonry & Mechanical Damage	Must be protected in an approved manner.
Cutting & Notching	No structural member must be cut, notched or impaired by cutting or notching.
Roofwaterproofing	Openings for ductwork or pipes must be sealed and protected by metal collars securely fastened to the adjoining structure.

# Uniform Mechanical Code 2003

**Huangqi Zhang**



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