4714.0313 HANGERS AND SUPPORTS.

Subpart 1. **Section 313.** Table 313.3 is amended to read as follows:

TABLE 313.3							
HANGERS AND SUPPORTS							
MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL				
Cast	Lead and Oakum	5 feet, except 10 feet where 10 foot lengths are installed 1,2,3	Base and each floor, not to exceed 15 feet				
	Compression Gasket	Every other joint, unless over 4 feet then support each joint ^{1,2,3}	Base and each floor, not to exceed 15 feet				
Cast-Iron Hubless	Shielded Coupling	Every other joint, unless over 4 feet then support each joint ^{1,2,3,4}	Base and each floor, not to exceed 15 feet				
Copper & Copper Alloys	Soldered, Brazed, Threaded, or Mechanical	1-1/2 inches and smaller, 6 feet; 2 inches and larger, 10 feet	Each floor, not to exceed 10 feet ⁵				
Steel Pipe for Water or DWV	Threaded or Welded	3/4 inch and smaller, 10 feet; 1 inch and larger, 12 feet	Every other floor, not to exceed 25 feet ⁵				
Steel Pipe for Gas	Threaded or Welded	1/2 inch, 6 feet; 3/4 inch and 1 inch, 8 feet; 1-1/4 inches and larger, 10 feet	1/2 inch, 6 feet; 3/4 inch and 1 inch, 8 feet; 1-1/4 inches every floor level				
Schedule 40 PVC and ABS DWV	Solvent Cemented	All sizes, 4 feet; allow for expansion every 30 feet ^{3,6}	Base and each floor; provide mid-story guides; provide for expansion every 30 feet ⁶				
CPVC	Solvent Cemented	1 inch and smaller, 3 feet; 1-1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides				
CPVC-AL-CPVC	Solvent Cemented	1/2 inch, 5 feet; 3/4 inch, 65 inches; 1 inch, 6 feet	Base and each floor; provide mid-story guides				
Lead	Wiped or Burned	Continuous Support	Not to exceed 4 feet				
Steel	Mechanical	In accordance with standards acceptable to the Authority Having Jurisdiction					
PEX	Cold Expansion,	1 inch and smaller, 32 inches; 1-1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides				

	Insert, and Compression		
PEX-AL-PEX	Metal Insert and Metal Compression	1/2 inch; 3/4 inch; 1 inch All sizes 98 inches	Base and each floor; provide mid-story guides
PE-AL-PE	Metal Insert and Metal Compression	1/2 inch; 3/4 inch; 1 inch All sizes 98 inches	Base and each floor; provide mid-story guides
PE-RT	Insert and Compression	1 inch and smaller, 32 inches; 1-1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides
Polypropylene (PP)	Fusion Weld (socket, butt, saddle, electrofusion), Threaded (metal threads only), or Mechanical	1 inch and smaller, 32 inches; 1-1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides

For SI units: 1 inch = 25.4 mm, 1 foot = 304.8 mm

Notes:

Subp. 2. **Section 313.** Table 313.3.1 is added to read as follows:

TABLE 313.3.1

Schedule 40 PVC and ABS DWV and Storm Pipe Expansion Table

Inside the building thermal envelope

Length of Run (ft.)

¹ Support adjacent to joint, not to exceed 18 inches (457 mm).

² Brace not to exceed 40-foot (12,192 mm) intervals to prevent horizontal movement.

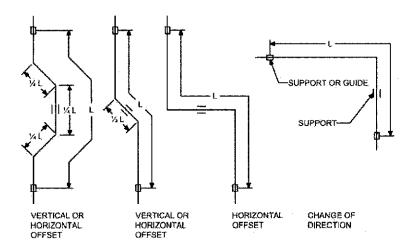
³ Support at each horizontal branch connection.

⁴ Hangers shall not be placed on the coupling.

⁵ Vertical water lines shall be permitted to be supported in accordance with recognized engineering principles with regard to expansions and contraction, where first approved by the Authority Having Jurisdiction.

⁶ For expansion joints, see Table 313.3.1.

	10^1	20^1	30				
Pipe Size	Expansion joint length (in.) = L						
1.5"	20	28	34				
2"	22	31	38				
3"	27	38	46				
4"	30	43	52				
6"	37	52	63				
8"	42	59	72				
10"	47	66	80				
12"	51	72	88				
Outside the building	Outside the building thermal envelope						
	Length of Run (ft.)						
	10^1	20^1	30				
Pipe Size	Expansion joint length (in.) = L						
1.5"	26	36	44				
2"	29	41	50				
3"	35	49	60				
4"	40	56	68				
6"	48	68	83				
8"	55	77	94				
10"	61	86	105				
12"	66	94	114				



¹ Multiple offsets shall be allowed to provide expansion for each 30-foot developed length of run.

Subp. 3. Section 313.7. UPC section 313.7 is deleted in its entirety.

Statutory Authority: MS s 326B.43; 326B.435

History: 40 SR 71; 45 SR 1007

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