| TABLE 7-4 | | | | | | | | |
|---------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| Maximum Unit Loading and Maximum Length of Drainage and Vent Piping | | | | | | | | |

| Size of Pipe, mm | 32 | 40 | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 |
|---------------------------------------------------------|----|----------------|-----------------|-----------------|-----------------|------------------|------------------|--------------------|--------|--------------------|
| Maximum Units | | | | | | | | | | |
| Drainage Piping ¹ Vertical | 1 | 2 ² | 16 ³ | 32 ³ | 48^4 | 256 | 1,380 | 3,600 | 5,600 | 8,400 |
| Horizontal | 1 | 1 | 8 ³ | 14^{3} | 35 ⁴ | 216 ⁵ | 720 ⁵ | 2,640 ⁵ | 4,6805 | 8,200 ⁵ |
| Vertical Stack (exceeding three branch intervals) | | | | | | | | | | |
| Total for 1 branch interval | | 2 ² | 6 ³ | 9 ³ | 20 ⁴ | 90 | 350 | 600 | 1,000 | 1,500 |
| Total for Stack | | 8 ² | 24 ³ | 42 ³ | 72 ⁴ | 500 | 1,900 | 3,600 | 5,600 | 8,400 |
| Maximum Length Drainage Piping Vertical, m | 14 | 20 | 26 | 45 | 65 | 91 | 155 | 229 | | |
| Horizontal (unlimited) | | | | | | | | | | |
| Vent Piping (see note) Horizontal and Vertical | | | | | | | | | | |
| Maximum Units | 1 | 83 | 24 | 48 | 84 | 256 | 1,380 | 3,600 | | |
| Maximum Lengths, m | 14 | 18 | 37 | 55 | 65 | 91 | 155 | 229 | | |

¹ Excluding trap arm.

SI: 1mm = 3.281 ft.; 1mm = 0.04 in.

² Except sinks, urinals, and dishwashers.

³ Except six-unit traps or water closets.

⁴ Only four water closets or six-unit traps allowed on any vertical pipe or stack; not to exceed three water closets or six-unit traps on any horizontal branch or drain.

⁵ Based on 20 mm/m (1/4 in./ft.) slope. For 10mm/m (1/8 in./ft.) slope, multiply horizontal fixture units by a factor of 0.8. **Note:** The diameter of an individual vent shall be not less than 32mm (1-1/4 in.) nor less than 1/2 the diameter of the drain to which it is connected. Fixture unit load values for drainage and vent piping shall be computed from Table 7-3 and Section 702.0. Not to exceed 1/3 of the total permitted length of any vent may be installed in a horizontal position. When vents are increased one pipe size for their entire length, the maximum length limitations specified in this table do not apply.