

## Appendix H

UNIFORM PLUMBING CODE OF ABU DHABI:  
AN ENVIRONMENTAL GUIDE FOR  
WATER SUPPLY AND SANITATION**TABLE H-1**  
**Water Supply Fixture Units (WSFU) for Bathroom Groups<sup>1,2</sup>**

	Private Use Bathroom Group		Serving 3 or more Private Use Bathroom Groups	
	COLD	HOT <sup>3</sup>	COLD	HOT
<b>Bathroom Groups Having up to 6L/flush Gravity -Tank Water Closets</b>				
Half-bath or Powder Room <sup>2</sup>	3.5	0.8	2.5	0.5
1 Bathroom Group <sup>1</sup>	5.0	2.5	3.5	1.8
1-1/2 Bathrooms	6.0	2.5		
2 Bathrooms	7.0	3.5		
2-1/2 Bathrooms	8.0	3.6		
3 Bathrooms	9.0	4.5		
Each Additional 1/2 Bath	0.5	0.1		
Each Additional Bathroom Group	1.0	0.5		
<b>Bathroom Groups having 6L/flush Pressure-Tank Water Closets</b>				
Half-bath or Powder Room <sup>2</sup>	3.5	0.8	2.5	0.5
1 Bathroom Group <sup>1</sup>	5.0	2.5	3.5	1.8
1-1/2 Bathrooms	6.0	2.5		
2 Bathrooms	7.0	3.5		
2-1/2 Bathrooms	8.0	3.6		
3 Bathrooms	9.0	4.5		
Each Additional 1/2 Bath	0.5	0.1		
Each Additional Bathroom Group	1.0	0.5		
Bath Group (6L/flush Flushometer Valve)	6.0	2.5	4.0	1.7
Kitchen Group (Sink and Dishwasher)	2.0	2.0	1.5	1.5
Laundry Group (Sink and Clothes Washer)	5.0	5.0	3.0	3.0

**Notes:**

<sup>1</sup> A bathroom group, for the purposes of this table, consists of one water closet, up to two lavatories, and either one bathtub or one shower.

<sup>2</sup> A half-bath or powder room, for the purposes of this table, consists of one water closet and one lavatory.

<sup>3</sup> Multi-unit dwellings with individual water heater use the same WSFU as for individual dwellings.

SI: 1L = 0.26 gal.

size of any building drain or building sewer serving a water closet shall be not less than 80mm (3 in.).

**H 5.3 Size of Horizontal Branch or Vertical Stack.**

The maximum number of drainage fixture units allowed on a horizontal branch or vertical soil or waste stack of a given size shall be in accordance with Table L-4. Stacks shall be sized based on the total accumulated connected load at each story or branch interval.

**H 5.3.1 Horizontal Stack Offsets.** Horizontal stack offsets shall be sized in accordance with Table L-3 as required for building drains.

**H 5.3.2 Vertical Stack Offsets.** Vertical stack offsets shall be sized in accordance with Table L-4 as required for stacks.

**H 5.4 Horizontal Stack Offset and Horizontal Branch Connections.** Horizontal branch connections shall not connect to a horizontal stack offset or within 60cm (2 ft.) above or below the offset where such horizontal offset is located more than four branch intervals below the top of the stack.

**H 6.0 Vent System Sizing.**

**H 6.1 Size of Vents.** The size of vent piping shall be determined from the developed length and the total number of drainage fixture units connected thereto as set forth in Table L-6. Vents shall be not less than half the required size of the drainage pipe size served as determined by Table L-4 for Horizontal Fixture Branches and Stacks nor less than 32mm (1-1/4 in.) in diameter. The drainage system shall be vented by not less than one vent pipe which shall be not less than half the size of the required building drain and which shall extend from the building drain or extension of building drain to the outdoors. Vents shall be installed in accordance with Chapter 9.

**H 6.2 Vent Stack.** A vent stack shall be required for every drainage stack that extends 5 or more branch intervals above the building drain or horizontal branch. The developed length of the vent stack shall be measured from the lowest connection of a branch vent to the termination outdoors.