

**NC Department of Insurance  
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**Sizing of Semi-Rigid Tubing Gas Piping**

**Code:** 2002 Fuel Gas Code  
**Section:** 402.3(14) and 402.3(15)

**Date:** January 5, 2005

**Question:**

Which table is used for sizing of semi-rigid tubing gas piping: Table 402.3 (14) or 402.3(15) ?

**Answer:**

Both tables 402.3(14) & 402.3(15). Section 403.5.2 states “copper tubing shall comply Standard type K or type L of ASTM B88 or ASTM B280 (refrigeration tubing).

Copper tubing (ASTM B280 – refrigeration tubing ) coincides with the outside (OD) diameter sizes of table 402.3(14) and should be used with table 402.3(14) for sizing of gas copper tubing (ASTM B280).

Copper tubing (ASTM B88 – Standard type K & L ) size is greater than the ID and OD of the copper tubing (ASTM B280), therefore the copper tubing type K & L maybe used with table 402.3(14).

Table 402.3(15), only copper tubing (ASTM B88 – standard type K & L ) complies with or exceeds the ID and OD sizes. Copper tubing ASTM B280 does not comply with the ID sizes of table 402.3(15), therefore only copper tubing (ASTM B88 – standard type K & L ) maybe used with table 402.3(15).

Also, table 402.3(15) states “use this table to size tubing from house line regulator to the appliance.