

PLUMBING AND MECHANICAL
INTERPRETATION MANUAL



CODE: 2003 IRC & 2003 IPC

DATE:

CODE REF: **P2904.10 & P605.14.3**

10/05/03

SUBJECT: Water Soluble Flux

The 2003 International Residential Code (IRC) and International Plumbing Code (IPC) require that all fluxes used for potable water systems meet the ASTM B-813 standard. This standard requires that all fluxes must be water-soluble.

The City of Dallas has adopted the IRC for all residential construction and will be adopting the IPC in the near future. In order to maintain potable water quality and code compliance field inspectors should be making every effort to ensure this provision of the IRC is enforced.

2000 International Residential Code

P2904.10 Soldered joints. Soldered joints in tubing shall be made with fittings approved for water piping and shall conform to ASTM B828. Surfaces to be soldered shall be cleaned bright. The joints shall be properly fluxed and made with approved solder. Solders and fluxes used in potable water-supply systems shall have a maximum of 0.2 percent lead. Fluxes shall conform to ASTM B 813.

2000 International Plumbing Code

P605.14.3 Soldered joints. Solder joints shall be made in accordance with the methods of ASTM B 828. All cut tube ends shall be reamed to the full inside diameter of the tube end. All joint surfaces shall be cleaned. A flux conforming to ASTM B 813 shall be applied. The joint shall be soldered with a solder conforming to ASTM B 32. The joining of water supply piping shall be made with lead-free solder and fluxes. Lead free" shall mean a chemical composition equal to or less than 0.2- percent lead.

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