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November 21, 2007

Dennis Thompson  
Elkhart Products Corporation  
1255 Oak Street, P. O. Box 1008  
Elkhart, IN 46515

RESEARCH REPORT: RR 5630  
EFFECTIVE DATE: 12/01/07  
EXPIRATION DATE: 12/01/08  
Telephone: 574-264-3181

**GENERAL APPROVAL** - "Xpress" - "Press Type Copper Fittings for Copper Tubes and Pipes,"  
manufactured by Elkhart Products Corporation, for list of approved models, see attached page.

**DETAILS**

These products are factory-made heat-free fittings. They are intended to make joints in copper tubing and pipes. These fittings conform to material and sizing requirements of American Society of Mechanical Engineers (ASME) Standard B16.18 or ASME B 16.22. These fittings have silicone oil lubricated O-rings made of Ethylene Propylene Diene Monomer (EPDM) to provide seal. This method of making joints requires "Xpress" fittings and a pressing tool. These fittings are available in sizes 1/2" dia. through 4" dia.

The approval is subject to the following conditions:

1. These fittings may be used in conveying potable hot and cold water distribution systems of domestic and commercial buildings, closed loop heating, and chilled water systems and in hydronic heating systems.
2. These fittings may be used in conjunction with Type K, L, or M water piping in sizes 1/2" through 4" in dia.
3. Soldering or brazing shall not be done within twelve inches (12") of these fittings.
4. These fittings may be installed, where designed temperature is not less than 0° F. and does not exceed 250° F., and where working pressure is not more than 200 psi.

RR 5630  
Page 1 of 4

Elkhart Products Corporation  
RE: "Xpress" Press Type Copper Fittings

5. These fittings shall not be installed on DWV, fuel piping, and fire protection systems, and piping intended to convey steam.
6. Tubing shall be inserted into the fitting until it meets the tube stop. Insertion depth shall be measured with Xpress depth gauge or tape measure and shall be clearly marked to ensure that proper insertion is attained. The minimum insertion depth shall be as shown in the table below:

Nominal Pipe Size (Inches)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
Insertion Depth (Inches)	13/16	17/32	15/16	1-1/32	1-3/16	1-3/8	2	2	2-3/8.

7. Each fitting shall be permanently marked with manufacturer's name, "EPC," nominal size and "UPC" listing logo.

## DISCUSSION

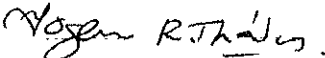
The resulting joint is equivalent to that prescribed by Los Angeles Municipal Code in quality, strength, effectiveness, durability and safety. These fittings have been tested and listed in compliance with Property Standard 117 of International Association of Plumbing and Mechanical Officials under I T & S Project No. 12540.

For this General Approval to be valid on any individual construction project in the City of Los Angeles, an engineer or inspector of the Department of Building and Safety must make a determination that all conditions of the General Approval required to provide equivalency have been met in the case of each construction project under consideration.

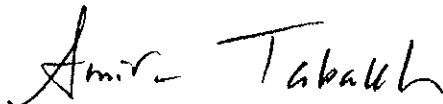
This approval is granted under Sections 94.301, 94.316 and 94.604.0 of the Los Angeles Plumbing Code(LAPC), 2002 Edition.

Elkhart Products Corporation  
RE: Press Type Copper Fittings

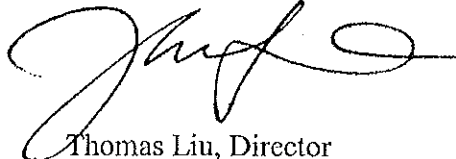
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Michael Tharpe, Chief  
Plumbing/Mechanical Inspection Division  
Inspection Bureau

**Elkhart Products Corporation**

**Research Report RR 5630**

**"Xpress" Press Type Copper Fittings**

**List of approved Models Approved:**

800 Series	Coupling with Stop	½" to 4"
801 Series	Coupling without Stop, Reducer, CPP x CPP	½" to 4"
803 Series	Adapter, CPP x FNPT	½" to 4"
803-2 Series	Adapter Male Tube x FNPT	½" to 2"
804 Series	Adapter CPP x MNPT	½" to 4"
804-2 Series	Adapter, Male Tube x MNPT	½" to 2"
806	45 Elbow, CPP	½" to 4"
806-2	45 Elbow, CPP x Male Tube	½," to 4"
807 Series	Elbow, CPP	½" to 4"
807-2 Series	Elbow, CPP x Male Tube	½" to 4"
811 Series	Tee, CPP x CPP x CPP	½" to 4"
817 Series	Cap, CPP	½" to 4"
818 Series	Reducer, CPP x Solder	½" to 4"
836 Series	Cross Over, CPP x CPP	½" to 3/4"
8707-3 Series	Elbow, CPP x FNPT	½" to 2"
8707-4 Series	Elbow, CPP x MNPT	½" to 2"
8712 Series	Tee, CPP x FNPT	½" to 4"
8733 Series	Union, CPP x CPP	½" to 2"
8733 Series	Union, CPP x FNPT	½" to 2"
8733-4 Series	Union, CPP x MNPT	½" to 2"
8741 Series	Companion Flange, CPP x Flange	½" to 4"