

ICC-ES Report

PMG-1000

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Reissued 05/2017
This report is subject to renewal 05/2018

EVALUATION SUBJECT:

CALL ALUMINUM CLASS 1 SEMI-RIGID AIR DUCTS

DIVISION:

23 00 00—MECHANICAL

SECTION:

23 31 13—METAL DUCTS

Report Holder:

W.A. CALL MFG. CO., INC.

1710 ROGERS AVENUE
SAN JOSE, CA 95112



Look for the ICC-ES marks of Conformity!



ICC-ES PMG Product Certificate

PMG-1000

Effective Date: May 2017

This listing is subject to re-examination in one year.



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CSI: DIVISION: 23 00 00—MECHANICAL
Section: 23 31 13—Metal Ducts

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Call Aluminum Class 1 Semi-Rigid Air Ducts

Listee: W.A. Call Mfg. Co., Inc.
1710 Rogers Avenue
San Jose, California 95112

Compliance with the following codes:

2015, 2012 and 2009 *International Mechanical Code*® (IMC)
2015, 2012 and 2009 *Uniform Mechanical Code*® (UMC)*

**Uniform Mechanical Code* is a copyrighted publication of the International Association of Plumbing and Mechanical Officials

Compliance with the following standard:

UL 181 – 2013 (11th Ed.), Factory-Made Air Ducts and Air Connectors

Identification:

Each piece of air duct shall be marked with the manufacturer's name or trademark, the rated air velocity, the rated positive and negative pressures, flame-spread classification, specific information relative to fabricating and joining material methods, and the ICC-ES PMG listing mark.

Markings shall be grouped and appropriately located on each piece at intervals of 10 feet (3m) or fractions thereof. Markings shall be permanent, by means such as printing or stenciling with waterproof ink or paint on the surface of the material or on labels not affected by water, and shall be attached to the material by means of water-insoluble adhesive.

Installation:

Installation must be in accordance with the manufacturer's published installation instructions and the applicable code.

Rivets are not required when collars with mechanical locking tabs are used.

Duct Sealant: A $\frac{1}{4}$ -inch bead of duct sealant is applied to the collars prior to insertion into the duct. All bare sections of ducts have the factory-installed collars sealed with duct sealant at the factory. Use of duct sealant is optional on collars attached at the factory to insulated ducts.

Insulation: The ducts may be insulated with a minimum $1\frac{1}{2}$ -inch-thick fiberglass insulation manufactured by the Knauf Corporation and covered with a polyethylene jacket manufactured by Cadillac Products Packaging Company.

Joining Bare Duct Sections:

Duct sections with factory-installed collars are joined by inserting the male collar into the female collar and rotating them to obtain a snug fit. The joint is then sealed with two wraps of $1\frac{1}{2}$ -inch-wide approved duct tape centered on the joint.

Duct sections without factory-installed collars are joined with a $3\frac{1}{2}$ -inch-wide galvanized steel collar. The collar is inserted into the duct sections and rotated until a snug fit is obtained. A $\frac{1}{4}$ -inch-wide bead of the previously mentioned duct sealant is applied to the collar prior to insertion into the duct sections. The joint is then sealed with two wraps of $1\frac{1}{2}$ -inch-wide approved duct tape, centered on the joint. Duct connections to appurtenances are treated in the same manner.

Joining Insulated Duct Sections:

Insulated ducts are installed in the same manner as the bare ducts except that no joint sealant is used. The male collar is inserted into the female collar and rotated until a snug fit is obtained. The flexible jackets are stretched to overlap and two wraps of $1\frac{1}{2}$ -inch-wide approved duct tape are applied to seal the joint.

Models: The ducts are manufactured from Type 3003 zero temper 0.0065 +/- 0.0005-inch-thick aluminum and are available in 3-inch through 24-inch internal diameter sizes. The flat duct material is fed through a system of progressive roller dies which form six corrugations on the 3-inch- through 10-inch-diameter ducts, and five corrugations on the 11-inch- through 24-inch-diameter ducts.

Duct sections with factory-installed collars:

Three-and-one-half-inch-wide, factory-installed male and female collars are manufactured from 0.013-inch galvanized steel.

Rivets: The rivets are zinc coated cadmium-plated steel, 0.120-inch-by-0.160-inch-oval head-by-0.250-inch-long and are secured to the duct sections with:

- Three rivets for 3-inch- through 7-inch-diameter sizes
- Four rivets for 8-inch- through 10-inch-diameter sizes
- Five rivets for 11-inch- through 14-inch-diameter sizes
- Seven rivets for 15-inch- through 24-inch-diameter sizes

Conditions of listing:

1. All systems must be installed in accordance with the manufacturer's installation instructions, which are provided with the product. Installation must conform to relevant requirements of the referenced codes and is subject to approval by the code official. Manufacturer's instructions must be furnished to the code official upon request.
2. The design temperature of air to be conveyed must be less than 250°F (121°C).
3. The semi-rigid duct must be installed, with a minimum clearance, to an appliance as specified in the appliance manufacturer's installation instructions.
4. The semi-rigid air ducts are manufactured in San Jose, California, under a quality control program with inspections by ICC-ES.