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RESEARCH REPORT: RR 26067-T
(CSI # 23 07 00)

Expires: December 1, 2017
Issued Date: December 1, 2016
Code: 2014 LABC

GENERAL APPROVAL – Initial Approval – FireMaster[®] FastWrap[®] XL for Fire Resistive Ventilation Ducts

DETAILS

FireMaster[®] FastWrap[®] XL is a 1-1/2 inch thick, 6 pcf (pounds per cubic foot), flexible and lightweight blanket made from calcium-magesium-silicate (CMS) ceramic fiber and fully encapsulated in foil-scrim-polypropylene facing. FireMaster FastWrap XL is intended for installation on duct systems in lieu of rated construction.

FastWrap[®] XL – One or Two Hour Rated HVAC Duct Enclosure System – used in lieu of rated construction on horizontal and vertical duct runs. This enclosure system is listed by Underwriters Laboratories under listing number V-19, file number R14229.

One-layer of FastWrap IX is to be installed on horizontal or vertical ducts with transverse and longitudinal joints overlapped a minimum of 3". The duct size, construction, supports, and installation of the wrap must meet the requirements of and comply with UL listing HNLJ.V-19.

Duct gauges shall be minimum 22 gauge for V-19 assemblies and minimum 26 gauge for C-AJ-7049 and C-AJ-7052 assemblies. 2 HR F and T Ratings were established for the listed through-penetration firestop systems.

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This approval is subject to the following conditions:

1. Fire-resistive materials shall be delivered to the job site in sealed containers identified by the products name and by the Underwriters Laboratories (UL) marks.
2. The applied thickness of the fire-resistive material shall be verified as outlined in the manufacturers "Product Data and Installation Instructions".
3. Installation and application of the fire-resistive material shall be in accordance with the manufacturer's instructions and UL Listings, a copy of which shall be available at the job site. The integrity of FastWrap XL systems is limited to the quality of the installation.
4. Where ducts penetrate through fire-resistive assemblies firestop in accordance with an ASTM E 814 through-penetration firestop design. The applicable Underwriters Laboratories (UL) Listings include: UL System Nos. C-AJ-7012, C-AJ-7014, C-AJ-7019, C-AJ-7021, C-AJ-7034, C-AJ-7047, C-AJ-7095, C-AJ-7098, C-AJ-7150, C-AJ-7151, C-AJ-7152, C-AJ-7153.
5. Horizontal duct support members are not required to be wrapped when the support system meets the requirements of the table below from V-19, and steel support angles are spaced a maximum of 60" on center.

Hanger Cross Section	Maximum Perimeter of Duct, in. (m)	Trapeze Support
1 in. by 16 ga strap	100 (2.54)	1-1/2 by 1-1/2 by 3/16 in. (38 by 38 by 4.8 mm) angle (See Note 1)
1/4 in. (6 mm) threaded rod	50 (1.27)	1-1/2 by 1-1/2 by 3/16 in. (38 by 38 by 4.8 mm) angle
3/8 in. (10 mm) threaded rod	150 (3.81)	1-1/2 by 1-1/2 by 3/16 in. (38 by 38 by 4.8 mm) angle
1/2 in. (13 mm) threaded rod	218 (5.54)	2 by 2 by 1/4 in. (51 by 51 by 6 mm) angle

Thermal Ceramics, Inc.
RE: FireMaster FastWrap XL for Fire Resistive Ventilation Ducts

DISCUSSION

This approval will remain in effect on a temporary basis until testing is completed per ASTM E2816 – Standard Test Methods for Fire Resistive Metallic HVAC Duct Systems. The approval will remain in effect for the period of 1 year from the time of issuance.

The approval is based on tests in accordance with ASTM E84-89, ASTM C518-98, ASTM E136-94, UL 1479, ISO 6944, and ASTM C1338.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineer and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors

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