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

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Local Representative:
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GENERAL APPROVAL – Renewal – FireMaster® FastWrap® XLS for Fire Resistive Ventilation Ducts

DETAILS

FireMaster® FastWrap® XLS is a flexible and lightweight blanket made from calcium - magnesium - silicate (CMS) ceramic fiber blanket and fully encapsulated in a matte black, durable fiberglass-reinforced foil facing. FireMaster FastWrap XLS is intended for installation on ventilation ducts in lieu of rated construction. FastWrap XLS is supplied at nominal thicknesses of 1.25" and 1.5" and at a nominal density of 4.4 lb/ft³.

FastWrap XLS has been tested in accordance with ASTM E2816-18 and provides 2-hour fire resistance ratings when installed per Intertek listings for Conditions A, B, C, & D, representing both external fire (Duct A) and internal fire (Duct B) conditions.

FastWrap XLS has been tested to ASTM E84/UL 723 to verify acceptable Surface Burning characteristics. FastWrap XLS has a flame spread index of less than 25 and a smoke-developed rating of less than 50.

In addition, FastWrap XLS was tested to ASTM E136 and is considered a noncombustible material as required by Los Angeles Building Code. Also, FastWrap XLS was tested to ASTM C518 for durability and passed.

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Thermal Ceramics, Inc.

RE: FireMaster FastWrap XLS for Fire Resistive Ventilation Ducts

FastWrap XLS –Two Hour Rated HVAC Duct Enclosure System – used in lieu of rated construction on horizontal and vertical duct runs. This enclosure system is ETL listed by Intertek as Design No. TC/BI 120-02. One layer of FastWrap XLS with a thickness of 1.25" or 1.5" is to be installed on horizontal or vertical ducts with transverse and longitudinal joints overlapped a minimum of 3". The duct size, construction, support, and installation of the wrap must meet the requirements of and comply with Listing TC/BI 120-02.

FastWrap XLS may also be installed on duct applications in which 2-hour internal fire (Duct B) conditions are required. This enclosure system is ETL listed by Intertek as Design No. TC/BI 120-03. Two layers of FastWrap XLS with a thickness of 1.5" is to be installed on horizontal or vertical ducts with transverse and longitudinal joints overlapping a minimum of 3". The duct size, construction, support, and installation of the wrap must meet the requirements of and comply with Listing TC/BI 120-03.

This approval is subject to the following conditions:

1. Fire-resistive materials shall be delivered to the job site in sealed cartons identified by the product's name and with Intertek's 'ETL' mark.
2. The applied thickness of the fire-resistive material shall be verified as outlined in the Listing and within the manufacturer's instructions within the "FireMaster FastWrap XLS Ventilation duct Installation Design Guidelines."
3. Installation and application of the fire-resistive material shall be in accordance with the manufacturer's instructions and Listings, a copy of which shall be available at the job site. The integrity of FastWrap XLS systems is limited to the quality of the installation.
4. Horizontal duct support members are not required to be wrapped with FastWrap XLS. Specific requirements for supports may be found within the Listings.

DISCUSSION

This report is in compliance with the 2020 Los Angeles City Building Code.

The approval is based on tests in accordance with ASTM E84, ASTM C518, ASTM E136, ASTM C1338 and ASTM E2816.

This general approval of an equivalent alternative 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.

Thermal Ceramics, Inc.

RE: FireMaster FastWrap XLS for Fire Resistive Ventilation Ducts

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

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