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RESEARCH REPORT: RR 25765
(CSI #07815)

Expires: April 15, 2022
Issued: December 1, 2020
Code: 2020 LABC

GENERAL APPROVAL – Renewal and Clerical Modification - 3M™ Fire Barrier Duct Wrap 615+ blanket for Grease Duct Enclosure Assemblies.

DETAILS

3M™ Fire Barrier Duct Wrap 615+ is a fire resistant wrap consisting of an inorganic blanket encapsulated with a scrim-reinforced foil. It is used to fire rate commercial kitchen grease ducts and is a proven alternative to 1 or 2 hour fire resistant rated shaft enclosures. This fungi resistant**, non-asbestos wrap contains a safer fiber* construction and install easily because of its high flexibility and strength. With its excellent insulating capabilities, it is an ideal choice for tight spaces because it protects combustible constructions at zero clearance throughout the entire enclosure system. 3M Fire Barrier 1000 N/S, 1003 S/L and 2000+ Silicone Sealants used in combination with 3M Fire Barrier Duct Wrap 615+ provide an effective firestop when the duct penetrates fire rated walls and floors.

The Fire Barrier Duct Wrap 615+ material is nominal 6 pcf density, 1-1/2 in. thick and available in 24 in. and 48 in. widths. For 1 or 2 Hour protection of either horizontal or vertical grease ducts, 2-layers of material are required to comply with ICC-ES AC101 / ASTM E 2336. Fasten the wrap to the duct with insulation pins, or stainless or carbon steel banding.

*Has been demonstrated to be soluble in the lungs according to EU guidelines 97/69/EC.

**ASTM C 1338 'Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings'

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The 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 Intertek (Omega Point Laboratories) mark.
2. The applied thickness of the fire-resistive material shall be verified as outlined in the manufacturer's "Product Data and Installation Instructions".
3. Application of the fire-resistive material shall be in accordance with the manufacturer's instructions and Intertek Design Listings, a copy of which shall be available at the job site.
4. Where ducts penetrate through fire-resistive assemblies firestop in accordance with an ASTM E 814 (UL 1479) through-penetration firestop design. The firestop designs are contained within the Intertek Design listings: 3MU/FRD 120-18 (rectangular ducts) or 3MU/FRD 120-19 (round ducts).
5. This product may be installed with zero clearance to combustibles.
6. Horizontal and vertical duct support members are not required to be wrapped when the support system consists of a minimum ½" diameter steel all-thread rod and 2" x 2" x ¼" thick steel support angles spaced maximum 60" on-center. When the duct dimension is 24" x 24" or less, the support system consists of a minimum 3/8" diameter steel all-thread rod and 2" x 2" x 1/8" thick steel support angles; the support angle spacing is maximum 60" on-center and the support members are not required to be wrapped.
7. Carbon or stainless steel banding is only required at the outermost layer of wrap. The 1st layer of duct wrap material can be held in place temporarily with filament tape or similar.

3M Fire Protection Products

Re: 3M Fire Barrier Duct Wrap 615+ blanket for Grease Duct Enclosure Assemblies.

DISCUSSION

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

The approval is based on tests in accordance with ICC ES Acceptance Criteria AC101, ASTM E 2336, and ASTM E 814.

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 Department of Building and Safety Engineers and Inspectors.

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.

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