WE’VE BEEN SERVING UP THE LATEST ADVANCEMENTS IN FIRE CONTAINMENT FOR MORE THAN 35 YEARS.

A key objective in advancing innovation for fire rated duct wrap is to attain less thermal transfer (more fire resistance) in a lighter product. 3M has developed 3M™ Fire Barrier Duct Wrap 615+ to be the only fire rated duct wrap product you’ll need to help protect both grease ducts and air ducts, in an easy to install format (lightweight, flexible) while passing the necessary fire tests to achieve two hour fire resistance requirements.

www.3M.com/ductwrap
A new, lighter weight duct wrap—

3M™ Fire Barrier Duct Wrap 615+

for grease and ventilation ducts.

3M Fire Barrier Duct Wrap 615+ is the only fire rated duct wrap you need for code required protection of grease and air ducts. Now, in a lighter weight, 6pcf density, it is certified according to ASTM E2336 (grease duct test standards) in two layer systems and ISO 6944 (air duct test standards) in single layer systems. The product is certified with both UL and Intertek (OPL) and has 1 and 2 hour design requirements for grease and air ducts. Now, in a lighter weight, 6pcf density, it is certified according to ASTM E2336 / ICC ES ACT101 for low thermal transfer properties in a lightweight, low profile, easy to apply product.

FEATURES AND ADVANTAGES

- Lightweight (6 lbs per cu ft) and thin (1.5") for easier application
- 2 hour fire protection
- Third party certified to ASTM E2336 (grease ducts test standard) and ISO 6944 (air duct test standard)
- Supports maximum temperatures of up to 2192° F (1200° C)
- Apply in 2 layers for grease ducts
- Apply in 1 layer for air ducts

* In accordance with the tolerances in ASTM C 892 Standard Specification for High-Temperature Fiber Blanket Thermal Insulation

Grease Duct Listings for 615+

<table>
<thead>
<tr>
<th>Fire Resistant Rating</th>
<th>Enclosure System</th>
<th>Duct System, Intertek (OPL)</th>
<th>Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>615+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 or 2 hours</td>
<td>2 layers of 3M™ Fire Barrier Duct Wrap 615+, 3&quot; (76mm) perimeter and 3&quot; (76mm) longitudinal overlaps</td>
<td>3MU/FRD-120-18</td>
<td>ASTM E 2336 / ICC ES ACT101</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3MU/FRD-120-19</td>
<td></td>
</tr>
</tbody>
</table>

Ventilation Air Duct Listings for 615+ (tested to ISO 6944)

<table>
<thead>
<tr>
<th>Fire Resistant Rating</th>
<th>Enclosure System</th>
<th>Duct System, Through-Penetration System</th>
<th>Listing Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>615+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 or 2 hours</td>
<td>1 layer of 3M™ Fire Barrier Duct Wrap 615+, 3&quot; (76mm) perimeter and longitudinal overlaps</td>
<td>(OPL) Testing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3MU/FRD-120-15</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3MU/FR-120-19</td>
<td>Intertek (OPL)</td>
</tr>
</tbody>
</table>

This is only a partial list of systems that use Duct Wrap 615+. For complete information visit www.3M.com/firerstop.

Surface Burning Characteristics (ASTM E 84 for 615+)

<table>
<thead>
<tr>
<th>Product</th>
<th>Flame Spread</th>
<th>Smoke Developed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Barrier Duct Wrap 615+</td>
<td>&lt;25</td>
<td>&lt;50</td>
</tr>
</tbody>
</table>

Codes & Standards for 615+, Air Duct

Standards for the installation of Air Condition and Ventilating Systems, 2009 Ed.

NFPA 92A Standard for Smoke-Control System Utilizing Barriers and Pressure Differences, 2006 Edition — Section 8.6.2

NFPA 92B Standard for Smoke Management Systems in Malls, Atria, and Large Spaces, 2005 Edition — Section 7.5.2

NFPA 101® Life Safety Code®, 2006 Edition — Section(s) 8.6.7, 18.7.7

International Building Code®, 2006 Edition — Section 909.10.2

International Mechanical Code®, 2006 Edition — Section 507.2.4

This is only a partial list of codes or standards. Go to 3M.com/firerstop or speak to your authorized 3M distributor or sales representative at 1-800-328-1687.

Codes & Standards for 615+, Grease Duct

NFPA 96, 2006 Edition

NFPA 96, 2004 Edition

NFPA 90A, 2002 Edition

Uniform Mechanical Code, 2006 Edition, Section 507.2.4

International Mechanical Code®, 2003 Edition, Section 506.3.10

International Mechanical Code®, 2006 Edition, Section 506.3.10

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3M’s Grease, Chemical Fume and Ventilation Air Duct listings all have affiliated Through-Penetration design listings that comply with ASTM E 814. Go to 3M.com/firerstop or speak to your authorized 3M distributor or sales representative at 1-800-328-1687 for more information.

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