

**BUILDING DIVISION DIRECTIVE
M-003**

**Permit Approval and Inspection for
Grease Duct Fire Barrier Products**

Date: January 11, 2010

This directive delineates the requirements for plan approval and the required inspections when using fire barrier products on grease ducts.

A. Information required on plans for approval:

1. Submit two (2) sets of detailed drawings of all proposed Type One hoods.
2. Provide the calculations for sizing the ducts per the required air velocity for the Type One hood.
3. Provide the following information on the duct shop drawings;
 - a) Type of material
 - b) Gauge of material
 - c) Slope of the duct installation
 - d) Elevations and sectional view of hood and grease duct.
 - e) Roof layout and ceiling details showing where the fire barrier wrap terminates
 - f) Show all clean-outs and details of support and seismic bracing.
4. Provide engineered support and bracing details for grease ducts with cross-sections larger than 48" by 24".
5. Specify the fire barrier product and its approved listing number. Provide installation details per manufacturer's written installation instructions and the ICC report for the particular fire barrier product. *Note that when the ICC report is in conflict with the manufacturer's installation instructions, the ICC report shall govern.*
6. Any deviation from the manufacturer's instructions or the ICC report requires an "Engineering Judgment" from the manufacturer or an approved Alternate Materials and Methods of Construction by the Chief Building Official

B. Inspections required for the installation of Grease Duct Fire Barriers:

All Inspections shall either be performed by: (1) a certified Special Inspector approved by the City of San Jose Building Division, or (2) a City of San Jose Mechanical Inspector.

Projects with a Special Inspector:

The Special Inspector shall continuously conduct inspections during the installation of the fire barrier duct wrap. The Special Inspector shall:

1. Verify the grease duct and welds have been inspected and approved per plan by the City Mechanical Inspector.
2. The Special Inspector shall verify that the first layer of fire barrier wrap is properly installed. After the first layer has been installed and approved by the Special Inspector, the second layer of fire barrier wrap may be installed. The Special Inspector shall verify

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the installation of cleanouts, strapping, pins, supports and the fire barrier wrap requirements per the manufacture's installation instructions.

3. Upon completion of the fire barrier wrap the special inspector shall send a report to the Building Department and have a copy on the jobsite for the final mechanical inspection.

Note: Inspections performed by an approved special inspector shall be allowed only if the required special inspection form is approved during the plan review process.

Projects without a Special Inspector:

All inspections shall be performed by a City Mechanical Inspector and shall occur at various stages of the fire barrier duct wrap installation per the following schedule:

- 1st inspection: Welds, duct sizing and supports shall be inspected and approved before any fire barrier products are installed.
- 2nd inspection: The inspection will verify that the first layer of wrap is properly installed. After the first layer has been installed, inspected and approved, the 2nd layer of fire barrier wrap may be installed. The approved fire barrier wrap installer shall be present at the time of this inspection.
- 3rd inspection: The 2nd layer of wrap and clean-outs are inspected. The inspection will verify the lapping of the wrap, installation of clean-outs, strapping and all duct wrapping requirements. The approved fire barrier wrap installer shall be present at the time of this inspection. Upon approval of this inspection the ceiling can be closed.
- 4th inspection: The last inspection of the fire barrier wrap installation may be performed at the time of Mechanical final inspection.

Approved by:


Edward Tolentino
Chief Building Official