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Hood and Duct Plan Requirements

The information required for a complete plan review of hood and duct systems shall be as follows:

1. The applicable standards/codes are 2021 International Mechanical Code (IMC) and the 2017 Edition of NFPA 96.

2. Provide complete sets of drawings detailing elevations, floor plans, duct layout, and the distance separation from combustibles (i.e. roof, ceiling, and walls).

3. Provide complete details of hood and if the hood is listed; provide the minimum exhaust capacity (in CFM) required per the UL listing.

4. Provide complete details of exhaust and supply fans including their UL listing.

5. Show access panels and details of locations where cleaning of ducts will be performed as the code requires a suitable work surface to access and clean the duct and fans.

6. Show rooftop terminations and a minimum 10 foot separation between the exhaust and supply fans.

7. Provide an air balance and specify the hood capacity. The Anne Arundel County Health Department requires a minimum of 85% of the exhausted air to be provided by the supply fan. An air balance includes the capacity (in CFM) for the supply fan and exhaust fan, which proves that the ratio of the two is approximately 85%.

8. When the fire extinguishing system discharges, make-up air supplied internally to a hood shall be shut off.

9. All paths taken by ductwork shall be shown on plans with dimensions of ductwork detailed.

10. An 18-inch clearance from combustibles for the hood and ductwork shall be maintained, unless permitted otherwise.

11. If using UL listed field-applied duct wrap, provide manufacturer's instructions and installation documentation.

All installations will be evaluated individually and modifications may be required. The above information details the minimum requirements to obtain a complete review of the proposed hood and duct installation.