



**TECHNICAL
INFORMATION**

PROJECT: _____
 LOCATION: _____
 ARCHITECT: _____
 ENGINEER: _____
 SALES ENGINEER: _____
 DATE: _____



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**Laboratory Typical Specification
Section 15890**

Laboratory Fume Hood Exhaust Duct

A. Laboratory fume hood exhaust duct is unique because it requires a corrosion resistant interior surface that can handle a wide variety of chemical fumes including strong acids and caustics. Condensate formed in the duct system can concentrate these chemicals due to evaporation, making them even more corrosive. But because the laboratory is considered an occupied space the structural and exterior surface of the duct requires a low smoke and flame rating per UL-181, as well as low fire-gas toxicity rating.

B. For this reason the interior Corrosion Barrier ("C" veil and two layers of chopped strand mat) will be laminated using a corrosion resistant, fire retardant vinyl ester resin such as Hetron FR992, Vipel K022 –AC or equal to attain a Class 1 flame spread per UL- 181.

C. The filament wound structural layers and exterior surface will incorporate Monoxivent 824, a low flame, low smoke, and low toxicity resin.

D. Duct design and manufacturing will be in accordance with ASTM D-3982 and ASTM C-582 or SMACNA's Thermoset FRP Construction Manual.