

**Industrial Fiberglass Specialties, Inc.**

521 Kiser Street  
Dayton, OH 45404-1641  
Tel: 937-222-9000  
Fax: 937-222-9020

**FRP Composite Stack  
Survey Form**

06-26-95

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FRP composite vent stacks are highly engineered structures that require considerable design and engineering input before they can be quoted. The questions shown below represent some of the pertinent information that is necessary for us to receive as part of our designing, costing, and quoting.

Date of inquiry: \_\_\_\_\_

Your inquiry number: \_\_\_\_\_

Inquiry submitted by (company): \_\_\_\_\_

Contact: \_\_\_\_\_

Your telephone number: \_\_\_\_\_

Your fax number: \_\_\_\_\_

Name of end user or engineering firm responsible for this stack (company): \_\_\_\_\_

Contact at end user: \_\_\_\_\_

End user's address: \_\_\_\_\_

End user's telephone number: \_\_\_\_\_

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[ \_\_\_\_\_ ] Stack identification number, or (name \_\_\_\_\_).

[ \_\_\_\_\_ ] Number of identical stacks for this inquiry.

[ \_\_\_\_\_ ] Description of chemical service environment (\_\_\_\_\_).

[ \_\_\_\_\_ ] Maximum operating temperature of stack.

[ \_\_\_\_\_ ] Design temperature for stack, if different than operating temperature.

[ \_\_\_\_\_ ] Thickness of corrosion liner specified (mils).

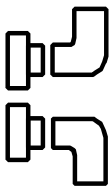
[ \_\_\_\_\_ ] Type of resin specified or required for corrosion liner (generic class).

[ \_\_\_\_\_ ] Type of resin specified for the stack structural wall (generic class).

[ \_\_\_\_\_ ] Color of pigmentation for stack exterior.

[ \_\_\_\_\_ ] Is fire retardancy required for this stack (yes or no).

[ \_\_\_\_\_ ] If yes, ASTM E-84 required rating.



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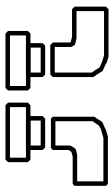
- Is low smoke and/or low smoke toxicity required for this exposure (yes or no).  
 If yes, maximum smoke rating.
- Distance stack extends beyond building roof, or length of stack exposed to wind (feet).
- Design wind load (in pounds per square foot), (or miles per hour \_\_\_\_\_).
- Seismic design considerations (seismic area and code).

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- The inside diameter of the stack (inches).
- The overall height of the stack (feet).
- Minimum total stack wall thickness, as specified by customer.
- Number of sections in which the stack is to be shipped.  
 Individual lengths of each section of the stack.
- Stack to be free standing, or self supporting (yes or no).
- Stack to be guyed (yes or no).  
 Guys to be located at elevation(s) - (base of stack = 0.00).  
 Guys to be at what angle from axis of stack (degrees).
- Stack to be supported (guided) off customer's steel framework, wall, or other support (yes or no).

**The type of bottom, or base, for this stack:**

- Open bottom flanged for mounting on top of scrubber, or as an extension to a duct vent (yes or no).  
 Body flange to also be gusseted (yes or no).
- Open bottom flanged base for mounting on a concrete pad, or mounting on a FRP bottom plate (yes or no).  
 Body flange to also be gusseted (yes or no).
- Open stack bottom, or base, with sloped internal false bottom, and with sidewall female NPT drain (yes or no).
- Solid plate bottom, or base, with sidewall female NPT drain (yes or no).



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### **The type of top for this stack:**

[ ] Reinforced with encapsulated carbon steel top band and Type 304 gusseted gantline clip (yes or no).

[ ] Reinforced with FRP rib, or band (yes or no).

[ ] Reinforced with flange - un-drilled (yes or no).

### **Stack joints:**

[ ] Shop butt and strap weld joints for factory pre-assembly (each).

[ ] Field butt & strap weld joints, number of field weld kits to be included (each).

[ ] **Pairs** of stack flanges, hardware and gaskets not included (each).

### **Horizontal stiffeners:**

[ ] Number of stiffeners required (each).

[ ] Approximate centers between stiffeners (feet).

### **Manway for this stack:**

[ ] Side mounted manway with bolted cover (yes or no).

[ ] Diameter of manway (inches).

[ ] Manway hardware (type).

[ ] Manway gasket (type).

### **Stack will include the following factory installed nozzles:**

[ ] FRP NPT threaded fittings (show both quantity and diameter).

[ ] FRP flanged nozzles (show both quantity and diameter).

[ ] Flanges are gusseted (yes or no).

### **Stack sidewall vapor inlets:**

[ ] Tee style inlet (show diameter).

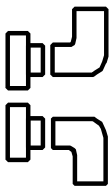
[ ] Lateral style inlet (show diameter).

[ ] Inlet is plain end (yes or no).

[ ] Inlet is flanged end (yes or no).

[ ] Inlet is pad reinforced (yes or no).

[ ] Inlet is reinforced with internal ribs across opening (yes or no).



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**Platform Accessories:**

- Platform support lugs installed, for customer supplied platform (each).  
 Lugs are FRP.  
 Lugs are stainless steel.

**Support Accessories:**

- Guy bands required (each).  
 Type 304 stainless steel "T" shaped guides (each).  
 Carbon steel "T" shaped guides (each).  
 Guide bands required (each).  
 Type 304 stainless steel "T" shaped guides (each).  
 Carbon steel "T" shaped guides (each).

**Special Plant Procedures:**

- Oven post cure (yes or no).

**Other Special Accessories, Fittings, and Factory Services:**

- Lightning protection (yes or no).  
 Aircraft warning lighting (yes or no).  
 Is the stack liner to be conductive (yes or no).  
 If yes, what maximum ohm rating is required.  
 Is emergency steam sparging required for internal fire control (yes or no).  
 Approval drawings required (yes or no).  
 Other accessories and fittings (yes or no, describe below).

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