

Why Choose Fab-Tech

- Communication working closely with clients minimizes costly mistakes
- On Time Delivery reduce expensive construction delays
- Engineering Expertise innovative and dependable solutions
- Quick and Reliable Information no more wasted time finding the information you need

Communication

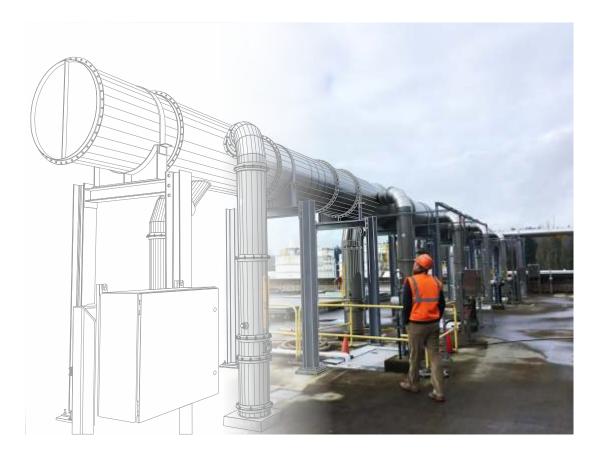
Outstanding customer service revolves around effective communication. We pride ourselves in working very closely with contractors, engineers and end-users to assure the finished product is consistent with prints, shop drawings and cut sheets. Our commitment to outstanding customer service often results in connections and trusting relationships made throughout a project that extends well beyond project completion.

Engineering Expertise

Our professional engineering staff is available to evaluate your custom fabrication as well as provide installation training upon request. Many customers ask us to help solve their exhaust problems with specialty fittings and accessories. Problem solving is something our engineering department excels as well as finding innovative solutions to improve PermaShield™ products and system performance.

Quick and Reliable Information

Our extensive website enables you to quickly receive information on our product: general information, chemical resistance charts, installation guides and videos, case studies and order sheets to name a few. No more wasted time finding the information you need.





Who Is Fab-Tech?

- The Originator of Coated Stainless Steel Duct After 35 years we know what works! Coating technology that does not fail Joining systems that don't leak
- Dedicated Engineering Department
 New product development
 Fully tested before market introduction
 Latest accessories to reduce installation labor cost
- Dedicated Project Managers
 Continuous flow of information from the start
 Nothing falls through the cracks
- Largest Manufacturer of Fluoropolymer Barrier Coated Vent Duct Systems in the World
- 170,000 Sq Ft Manufacturing Facility

 We control both fabrication and coating processes
- 325 Manufacturing Employees
 More employees than all our US competitors combined
- Fabricated and Coated Product Under "One Roof"
- Total Quality Management "TQM"
- FM Global Verified Manufacturing Processes
- In-House Testing Laboratory
- Committed To On Time Delivery

Applications:

Government Labs
Metal Etch
Fine Chemicals
Alternate Energy
University Labs
Gas Manufacturing
Life Sciences
Wastewater Treatment
Electronics Industries
Lighting LED
Pharmaceutical
Semiconductor Industries





Why Choose PermaShield™

- Type 300 stainless steel substrate reduced insurance premiums
- Fluoropolymer coating less expensive than exotic metals
- PTFE gasket system superior joint sealant technology, no leaks
- Van Stone joining system save on installation labor
- Ease of installation no project delays, save on lower labor costs
- Modular design one stop shop, largest selection of accessories
- Custom fabrication we can make what you want when you want it
- Easily field modified save on fewer system shutdown costs
- Fully manufactured in-house shorter lead time
- "0" Flame spread does not burn
- Environmentally safe not a hazardous waste, no waste costs

Safe

PermaShield™ contributes to the overall safety of the facility as well as the safety of the men and women responsible for day to day operations by preventing airborne contamination, fluid leakage, or total system failure in the event of a fire.

Reliable

With nearly four decades of proven service in highly corrosive environments, PermaShield™ has demonstrated its reliability for the removal of hazardous exhaust fumes. Engineers can see the strength of PermaShield™ to support their manufacturing lines, with no surprises.

Corrosion Resistant

The coating applied to PermaShield™ products can be described as the highest performing chemical and impact resistant coating available today. The PermaShield™ product line has never had a reported failure due to chemical attack of the coating. Applied using an electrostatic process, PermaShield Fluoropolymer Barrier Coating is integrally bonded to a stainless steel substrate. This process allows the coating to be applied to virtually any fitting, regardless of size or configuration, thus allowing engineers unlimited system design capabilities.

Cost Effective

Easy to install, easy to maintain, easy on the bottom line! PermaShield™ is the world's undisputed first choice to prevent expensive unscheduled shutdown of your manufacturing equipment due to chemical attack. With over three decades of experience in a wide range of applications, we know what works.



True "Class 1" Product

PermaShield[™] complies with NFPA 820¹ established by the Uniform Building Code which is accepted by federal, state and local authorities. With "0" flame spread as tested using ASTM E-84², this product does not burn. And PermaShield[™] is also FM 4922³ approved by FM Global which meets their high property loss prevention product testing and certification standards.

- ¹ NFPA 820 is the Standard for Fire Protection in Wastewater Treatment and Collection Facilities.
- ² ASTM E-84 is the standard test method for assessing the surface burning characteristics of building products.
- ³FM 4922 approved duct limits fire spread, inside and out, but also maintains their structural integrity.

Labor Savings

Approved for use without interior sprinklers, PermaShield™ installs quickly since welding, grinding, sanding or chemicals are not required to assemble or install. With efficient all mechanical fasteners and easy to use PTFE gaskets, keep your projects on or ahead of schedule resulting in reduced project and labor costs. And compared to fiberglass reinforced plastic duct, PermaShield™ requires much less labor to install which saves on the overall installed cost of the project. An additional labor savings can be realized using Fab-Tech's proprietary EZ clamps on smaller duct.

Chemical Compatibility

Many of the chemicals and solvents that are easily contained by Fab-Tech's PermaShield Fluoropolymer Barrier Coating can cause rapid deterioration of other plastics and fiberglass products. Chemical compatibility data is available from Fab-Tech for over 300 chemicals.

Fire Protection Savings

Installing PermaShield™ will potentially reduce the fire load in your facility to the point where the numbers of fire sprinklers are reduced. Fire protection sprinklers and the labor to install them inside combustible (plastic) duct for facilities requiring "Class 1" duct are eliminated. In addition, the labor and materials to install an oversized grey water collection system (necessary to process contaminated water discharged into the exhaust duct by the fire protection system) are greatly reduced.

Easily Field Modified

It doesn't get much easier when duct smaller than 24" (609.6mm) with 20ga material can be cut to length on site. Branch lines can be added with innovative saddle-tap fittings. Ports for drain lines, tool hook-up and system measurement can be easily installed in the field allowing for greater system flexibility. Fab-Tech has introduced the new "Hot Tap" to the Semiconductor industry proving that additional process exhaust can be brought on line without costly shutdowns of the "Fabs".

Zero Life Time Maintenance

An installed PermaShield™ system requires no maintenance and associated costs unlike plastic/FRP products which are easily damaged and require UV protection to be routinely applied. A retired system can be as easily disassembled and stored for reuse if desired. Or the stainless steel can be sold for scrap value. Long term, the economic effects of chemical leaching and subsequent hazardous waste disposal associated with other systems are eliminated with PermaShield™.



PermaShield™ General Specifications:

Size: 2" thru 120" round, up to 144" x 144" rectangular

Material: Series 300 stainless steel sheet goods, 24 - 10 ga

Coating: PermaShield Fluoropolymer Barrier Coating

Construction: Forming any type, fully welded construction

Joining System: Companion angle rings, 4" - 120",

Stainless steel or powder coated black iron

Clamped Joints: Proprietary EZ clamp 2" - 14" diameter

Cast Joints: Companion cast rings, stainless steel 4" - 14"

Gasket: Self adhesive PTFE gasket system for

Applications from -450°F to 300°F

Air Control Devices: Balance & isolation dampers 4" - 120"

Rectangular backdraft dampers

Horizontal & vertical blastgates 4" - 120"

AMCA rated dampers 6" - 48"

System Pressures: Full vacuum to 18" wc

Flame Spread: "0" (FM Approval certification) ASTME - 84

Smoke Generation: "20" (FM Approval certification) ASTME - 84

Fab-Tech Personnel:

The following is a partial list of the key personnel at Fab-Tech, Inc.

General Manager	Jim Howard
Executive Vice President	Scott Fine
Director Engineering	Joe Mastro
Vice President Sales & Marketing	Mike Baranski
Northeast Regional Sales Manager (WWTP)	Joe Havelka
Southeast Regional Sales Manager (WWTP)	Dan Murphy
Sales Operations Manager	Robert Hesford

Partial List of Current and Past Projects/Customers for Laboratories & Wastewater Treatment Facilities

UNIVERSITY AND COLLEGE LABS

Arizona State University

Auburn University

Boston College

Cal State ULA

Carnegie Mellon University

Colorado University

City College of NY

Cork University - Ireland

Colgate University

Dartmouth College

Eastern Washington University

Georgia Tech

Harvard University

Manchester University - UK

King Abdullah University of Science

& Technology - Saudi Arabia

Massachusetts Institute of Technology

Mississippi State

North Carolina State

Norfolk State

Ohio State

Penn State

Portland State

Rensselaer Polytechnic Institute

Rutgers University

San Diego State University

Southern Methodist University

Southampton University - UK

Stanford University

SUNY

UMASS Lowell

University of Albany

University of California

University of Cincinnati

University of Chicago

University of Delaware

University of Florida

University of Georgia

University of Louisville

University of Michigan

University of Minnesota

University of New Mexico

University of North Carolina

University of South Florida

University of Vermont

University of Virginia

University of Wisconsin

Virginia Tech

William & Mary College

Williams College

GOVERNMENT LABORATORIES

Argonne National Laboratories

Army Research Laboratories

Brookhaven National Laboratories

Canadian Nuclear Labs

Division of Consolidated Laboratories - Virginia

National Renewable Energy Lab - (NREL)

Lawrence Livermore Laboratories

Los Alamos National Laboratories

Pacific Northwest National Laboratories

Sandia National Laboratories

Wastewater Treatment Facilities

Albany WWTP - OR

Baldwinsville-Seneca Knolls WETP - NY

Brightwater WWTF - Woodinville, WA

Brookfield WRF - OH

California Waste Water Plant - San Jose, CA

Cedar Rapids WWTP - Iowa

Cinnaminson WWTP Odor Control Upgrade - NJ

City of Albany, Beaver Creek Treatment Facility - NY

City of Santa Clara - Santa Clara, CA

City of Woodbridge WWOC - Woodbridge, NJ

Devens WWPS Screening Building - MA

DC Water Blue Plains - District of Columbia

ECUA WWTF - Pensacola, FL

King County WWTF - Seattle, WA

LA Sanitation - Los Angeles, CA

Leoni Township WWTP - Jackson County, MI

Little Patuxent Biosolids - Baltimore. MD

Los Oso WWTP - Los Oso, CA

Meridian WWTP - Meridian, ID

Metro Districts Robert White WWTP - Denver, CO

METRO SEWER DIST. - Cincinnati, OH

MWRA Deer Island WWTP - Boston, MA

Norman Cole WWTF - Lorton, VA

North Bend WWTP - WA

Palm Bay WWOC - Palm Bay, FL

Red River WWTP - Shreveport, LA

River Road WWTF - Milwaukie, OR

Rowlett Creek - TX

South District Miami Dade County WWTP

Warrensburg Municipal - Warrensburg, VA

Washington Forebay Dredge - Maryland

West Keansburg Odor Control - New Jersey

Wheaton Sanitary District Preliminary Treatment Facility -

Wheaton, IL

Williamsport WWTP - Williamsport, PA

Wilson Creek - TX

Yauco WWTF - Puerto Rico

