

PermaShield Pipe

Opportunities for LEED Credits



Fab-Tech Incorporated, the innovator of modern corrosive fume exhaust systems, manufactures PermaShield Pipe (PSP®) duct, fittings and control devices. As the leading manufacturer of corrosive fume exhaust systems for industrial, commercial and municipal applications, Fab-Tech will fabricate exhaust systems that contribute LEED credits for new construction and major renovations.

PermaShield Pipe, Fab-Tech's corrosive fume duct is constructed from stainless steel and integrally lined with proprietary PermaShield Fluoropolymer Barrier Coating with "0" flame spread. It has been specifically engineered to provide maximum safety and performance with minimal impact on the environment.

Project owners, architects and engineers seeking to achieve LEED certification will find that PermaShield Pipe earns points under three of the six categories of the LEED rating matrix: Water Efficiency; Materials & Resources; Indoor Environmental Quality.



Water Efficiency:

PSP® corrosive fume exhaust systems are approved for use without internal fire sprinklers, thereby saving water. Elimination of fire suppression gray water disposal reduces the need for gray wastewater treatment.

Credit 2.0	Innovative Wastewater Technologies	No sprinklers; no gray water; no treated WW
Credit 3.2	Water Use Reduction	No sprinklers in duct

Materials & Resources:

PSP® systems are not only made from stainless steel with significant recycled content, but the duct can also be cleaned and reused for another application if the need for its original service is discontinued. The interior barrier coating, applied electro-statically without solvents, resists chemical attack and will outlast competing materials. The custom fabricated system design eliminates construction waste at the jobsite.

Credit 2.1	Construction Waste Management	Constructed to spec; no scrap
Credit 3.1	Materials Reuse	PSP® is reusable
Credit 4.2	Recycled Content	Recycled SS & no waste coating process

Indoor Environmental Quality:

PSP® provides corrosive exhaust ventilation protecting employees and equipment from the hazards associated with dangerous acids, solvents, esters and bases. The fluoropolymer barrier coating is low-emitting. The Gore-Tex® PTFE joint system is also low-emitting. Chemical contamination and occupant endangerment from a fire is minimized as verified with an ASTM E-84 test protocol and certified as "Class One" with a Flame Spread = 0 and Smoke Generation = 20. Duct systems may be engineered with drain ports providing efficient and secure liquid waste removal if desired.

Credit 2.0	Increased Ventilation	PSP® subsystem segregates fumes
Credit 4.1	Low-Emitting Materials, Sealants	Gore-Tex® PTFE Joint Sealant
Credit 4.2	Low-Emitting Materials, Coatings	Fluoropolymer Interior Barrier Coating
Credit 5.0	Indoor Chemical & Pollutant Source Control	Liquid chemical drain ports
Credit 5.0	Indoor Chemical & Pollutant Source Control	Verifiable low loss dampers