



CASE STUDY

DoubleTrac® Stainless Steel Piping for University of California San Francisco

- Saves Time
- Saves Money
- Increases Installation Options

Product:

DoubleTrac® Double Containment Piping System for Joan and Sanford I. Weill Neurosciences Building at The University of California San Francisco (UCSF)

Location: San Francisco, CA

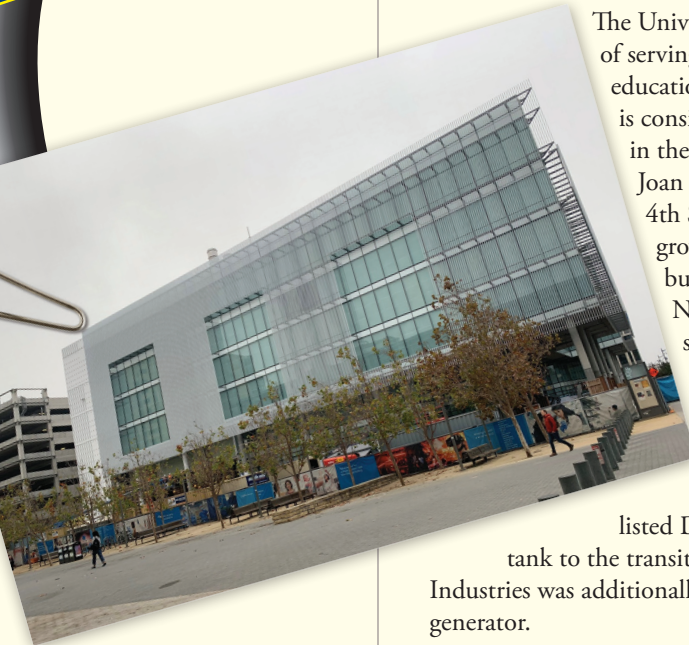
The University of California San Francisco (UCSF) has over 150 years of serving the community advancing science, and providing exceptional education to doctors, nurses, dentists, pharmacists, and scientists. UCSF is considered one of the foremost medical and life sciences universities in the world, making breakthroughs in science and healthcare. The Joan and Sanford I. Weill Neurosciences Building, located at 1651 4th St. Building 23A in San Francisco, is a new addition to that growing legacy. The facility is a six-floor, 282,500-square-foot building dedicated to patients, researchers, and clinicians. The Weill Neurosciences Building at UCSF Mission Bay campus facility has space for clinics, research centers, laboratory, engineering, and computational research.

Prior to the Joan and Sanford I. Weill Neurosciences Building construction Southland Industries was awarded the install of the initial stage of the underground fuel piping utilizing UL 971A listed DoubleTrac® piping from a 6,000-gallon underground storage tank to the transition sump within the mechanical room. In a later stage, Southland Industries was additionally awarded the aboveground fuel piping section for the rooftop generator.

Founded in 1949, Southland Industries is one of the nation's largest MEP building systems experts providing innovative yet practical solutions through a holistic approach to building performance. Optimizing each stage of the building lifecycle, Southland delivers customized engineering, construction, building automation, service, and energy solutions. Southland Industries office is located at 33225 Western Avenue Union City, CA 94587. Southland Industries provides reliable backup power solutions to safeguard against loss of power to cliental such as UCSF.

"Southland Industries chose to use DoubleTrac® piping in lieu of double containment steel piping to reduce pre-fabrication time spent in the shop and field installation labor costs. Traditional double containment piping requires a lot of space in our shop and time to pre-fabricate the pipe into assemblies that can then be brought onto the jobsite where more welding must then be performed. Using DoubleTrac® completely eliminates the need for prefabrication as the piping can be quickly rolled out and cut to length on the jobsite. Additionally, the removal of welding work increases jobsite safety." – Christina Gedeon, Project Manager Southland Industries

(continued on back)



The Joan and Sanford I. Weill Neurosciences Building located 1651 4th St. Building 23A San Francisco, CA 94158.



Southland employees unreeing the 1-1/2" DoubleTrac® piping (UGF-FSP-24) for the fuel oil supply line.



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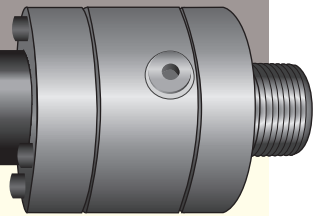
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CASE STUDY

DoubleTrac® Stainless Steel Piping for University of California San Francisco



(continued from front)



Southland employees pulling the 2" DoubleTrac® piping (UGF-FSP-32) for the fuel oil return line.



Routing DoubleTrac® piping between the floors of the building.

The project consisted of DoubleTrac® 1-1/2" piping for the fuel oil supply line and 2" DoubleTrac® piping for the fuel oil return line. Each piping run consisted of approximately 325' from the transition sump located on level 1 to a metal fabricated containment sump at the rooftop generator above level 6.

Utilizing DoubleTrac® piping for backup power generators, such as the Joan and Sanford I. Weill Neurosciences Building at UCSF, can be a benefit to the overall project. Southland Industries effectively installed DoubleTrac® fuel piping and has future plans to use DoubleTrac® for upcoming projects at UCSF. These projects include a research and academic building at Priscilla Chan, Mark Zuckerberg San Francisco General Hospital, and Trauma Center Campus (ZSFG).

DoubleTrac® double containment fuel piping system is optimized for installations in existing building structures. The jacket is made from Nylon 12 which allows it to slide easily over and around structure during installation. The outside diameter of the DoubleTrac® piping is equivalent to steel piping (NPS) so off-the-shelf pipe hangers and mounts can be used. DoubleTrac® piping is available in 1", 1 1/2" and 2" sizes to accommodate most fuel system requirements. It is sold in off-the-shelf reel quantities for quick delivery and can be ordered in custom lengths to accommodate long continuous runs.

DoubleTrac® stainless steel 90-degree fittings are available for installations requiring turns below the DoubleTrac® piping's minimum bend radius. Additionally, DoubleTrac® stainless steel Tee fittings are available for multi branch systems. All DoubleTrac® fittings, including the 90° and Tee, carry the interstitial communication internally and are not required to be inside containment sumps on above ground applications.

DoubleTrac® is a double wall fuel piping that has a 316L stainless steel primary with an engineered EFEP (Ethylene Fluorinated Ethylene Propylene) fluoropolymer as a secondary barrier bonded to a Nylon 12 UV Stabilized outer jacket. DoubleTrac® can be considered a "green product" because the stainless-steel piping has zero permeation and EFEP/Nylon 12 outer jacket has a nearly zero permeation (.000001%). DoubleTrac® is a true future fuel piping system and is the best choice for fuel oil, low sulfur diesel blends, biodiesel, gasoline, aviation, and jet fuels.

DoubleTrac® Piping and Fittings are UL 971A (for below ground flammable fuels) and UL1369 (for above ground flammable fuels) listed.

DoubleTrac® has received a 2-hour Fire Listing by UL (Underwriters Laboratory).

DoubleTrac® has a patented mechanically field attachable fitting that creates a metal-to-metal seal that requires NO O-Rings which have a finite lifespan and can degrade over time.

DoubleTrac® has a 15 Year Aboveground Warranty and a 30 Year Belowground Warranty.

OmegaFlex offers a team of in-house engineers dedicated to assisting with piping layouts and all other technical questions about the DoubleTrac® piping system. OmegaFlex offers no cost training and certification of new installers.

