

THE BENEFITS OF STAINLESS-STEEL FABRICATED PRODUCTS

Stainless-steel fabricated products are popular amongst many industrial facilities. Power generation, wastewater treatment, and other industries where high corrosion environments exist require a metal that can last. Southeastern Construction provides structural stainless-steel fabricated products such as gratings, platforms, equipment supports, stairs, and handrails. Take advantage of the multiple benefits of stainless steel and keep up with competitors by utilizing stainless-steel fabricated products!

Corrosion Resistance

Stainless steel is a type of steel alloy that contains at least 10.5% chromium, which gives it its corrosion resistant properties and makes it a low maintenance material and ideal for use in environments where exposure to moisture or chemicals is a concern. The addition of other elements, such as nickel, molybdenum, and titanium, can enhance the properties of stainless steel and make it suitable for specific applications.

Temperature Resistance

Stainless-steel fabricated products can withstand high temperatures without losing their strength or shape, making it an excellent choice for applications that involve heat, such as in ovens, furnaces, and exhaust systems.

Strength

Stainless steel is a resilient material. Stainless-steel fabricated products can further increase in strength even further through fabrication techniques like cold working or heat treatment.

Wide Selection

There are several different grades of stainless steel, each with unique properties and characteristics. The most common grades include 304, 316, and 430. 304 is the most widely used grade and is known for its excellent corrosion resistance and high-temperature strength. 316 contains higher levels of nickel and molybdenum, making it more resistant to corrosion and suitable for use in marine environments. 430 is a lower grade stainless steel that is used primarily for indoor applications. [1]

Aesthetic Appeal

Stainless steel has a clean, polished appearance that is both modern and timeless. It is commonly used in architectural applications where appearance is important, such as in building facades, railings, and other decorative elements.

Hygienic Properties

Stainless steel is a non-porous material that is easy to clean and sterilize, making it a favorable choice for use in the medical, food processing, agricultural, and pharmaceutical industries. [2]

Sustainable

Stainless steel is highly recyclable and can be reused to make new products. Stainless steel is a sustainable material because it is long lasting, low maintenance, and does not emit harmful toxins during production or use. Despite the remarkably high recyclability properties of stainless steel, in some circumstances stainless steel will still find its way into disposal sites etc. Unlike many other metals, in this situation stainless steel will have no damaging effects on the soil and water. [3]

Southeastern Construction holds AISC and AWS Certifications for the highest quality structural steel fabricated products no matter your application. Our fabrication facilities utilize the latest BIM, CNC fabrication, and project management technologies for your stainless-steel fabricated products. Our 82,000-square-foot facility allows us to fabricate structural steel, access steel, miscellaneous steel, and heavy structural weldments for our customers at the highest quality. Request your quote today!

References:

1. <https://www.britannica.com/technology/stainless-steel>
2. <https://nickelinstitute.org/en/blog/2020/may/food-safety-why-stainless-steel-is-a-vital-ingredient/>
3. https://bssa.org.uk/bssa_articles/environmental-aspects-of-stainless-steel/#