

Everything in order



In tunnels, it is essential to manage cables correctly to ensure safety and efficient operation of the installations. These infrastructures contain a large amount of cabling for power supply, lighting, ventilation, signalling, communication and emergency systems. Due to the extreme conditions of humidity, temperature and vibrations, it is important to use the right support systems to organise and protect the cables, ensuring their durability and facilitating maintenance. Efficient installation design optimises the performance

of the systems while minimising risks.

Stainless steel cable trays guarantee the success of the installation. Thanks to its corrosion resistance, stainless steel is the right material to withstand adverse conditions such as humidity, corrosive gases and temperature variations. In addition, its design allows for the maximum efficient load capacity in accordance with safety regulations. The inherent strength of stainless steel, particularly in grades such as AISI 316, provides an effective protection against these aggressions, avoiding unnecessary interruptions and reducing maintenance and repair costs.

Safety also plays a decisive role in the choice of stainless steel. In case of fire, this material retains its structural integrity and does not contribute to the propagation of fire. This is crucial in tunnels, where keeping essential systems such as lighting, ventilation and signalling can make a critical difference in emergency situations.

The design of stainless steel cable trays is another advantage because different configurations are possible, including:

- Ladder trays: open structure design that looks like a ladder and allows excellent air circulation, preventing moisture accumulation and promoting heat dissipation.
- Mesh type trays: formed by stainless steel rods that facilitate ventilation and allow quick visual inspections, speeding up maintenance tasks and reducing downtime.
- Perforated type trays: the metal structure appears with distributed holes, which are particularly suitable for environments where additional protection against external damage is required, while maintaining some ventilation to prevent condensation.



In addition, the choice of stainless steel brings significant environmental benefits. This material is recyclable and contributes to achieving sustainability goals in modern infrastructures, integrating perfectly into projects committed to environmentally responsible practices.

If you want to know more about "Underground tunnels [/sites/cedinox/.content/Articulo/Articulo-00088.xml]", click the link.