



Registered brand name  
since 1961, for  
manufacture and sale on  
all markets of enamelled  
steel products.



Since 1961 SMAVIT company works in the field of Enamelled steel products. Its experience provides an excellent support to customers requirements and offers a high quality product, that is at the same time reliable, strong and long lasting. SMAVIT produces design products, without neglecting functional aspects of the objects. Smavit has distinguished itself for the quality of its products. The strength of our company is the continuous research and innovation that allows constant improvement of our offer.

All products undergo company processes that are all included in total quality programme ISO. Smavit products can be supplied in more than 400 colours: light – dark – shaded colours and with decorations. In fact, SMAVIT has a colour range, including single tones and shaded colours, of almost all European and of the most important American and Asian ceramic factories.



# PORCELAIN ENAMEL

## GLASS AND METAL: HOW ENAMEL IS MADE

Porcelain enamel is an inorganic and vitreous coating used on metals for protective, functional and decorative purposes. After applying enamel to the base surface, vitrification firing is carried out at a very high temperature. This procedure triggers chemical and physical reactions between the two surfaces which create a new material combining the **properties of glass (hygiene and hardness)** and those of the **metal surfacebase (resistance, formability and lightness)**.

Rarely the combination of two different materials gives such brilliant and versatile results, both in terms of **aesthetics and performance**. For this reason porcelain enamel has always registered increasing growth, in parallel with the search for new applications and formulae, complying to ever increasing strict requirements.

# PORCELAIN ENAMEL PROPERTIES

## STRENGTH

Resistance:

- ✓ to heat (450°C)
- ✓ to cold (-50°C) and to heat (450°C)
- ✓ to thermal shock and atmospheric agents
- ✓ organic solvents
- ✓ to scratching and abrasion (Mohs hardness 5.5 - 7.5)

## DURABILITY

An enamelled steel Product retains its brilliance and colour in the years.

Even the worst weather conditions they do not affect enamelled steel. Evidence conducted in the most severe circumstances have demonstrated that over time the colors of the steel enamelled are unalterable and practically the brightness is unchanged.

## COLOUR

Enamel can take on an almost unlimited range of colours colours remain intact, bright and shiny over time, even under the effect of light, UV rays and atmospheric agents.

The surface is smooth, compact and with a perfect finishing



## PORCELAIN ENAMEL PROPERTIES: **ENVIRONMENT FRIENDLY**

### **ECOLOGY**

The finished product is natural and ecological, easily and thoroughly recyclable, without environmental damage. The porcelain enamelling technology makes no use of dangerous materials or organic solvents and respects both working and outer environment.

### **HYGENE**

The non-porous surface prevents the implantation and development of bacteria colonies, mould and dirt.

chemically inert, enamel does not absorb smells and does not release harmful substances.

Does not require any special maintenance

# PORCELAIN ENAMEL

## PORCELAIN ENAMELLED STEEL APPLICATIONS

On an industrial scale, enamel is used above all as a protection for ferrous materials (**steel** and **cast iron**) subject to rapid deterioration, rust and corrosion: enamelling protects them over time. In recent years applications have increasingly extended also to products with less corrodible surfaces bases (**aluminium, copper, stainless steel**). This is a valid confirmation of the **aesthetic, functional** and of this material. For these reasons porcelain enamel has been used most extensively in the home: From **pans** to **kitchen utensils**, from **sanitaryware** to **electrical appliances** and components for **building**.

# SMAVIT APPLICATIONS

SANITARY WARE



BUILDING PANELS



PIPES AND CHIMNEY



PANELS AND SIGNS



# SMAVIT SANITARY WARE

Looking for a service that is closer to customers requirements and thanks to its own Development Office and to its equipment , Smavit S.p.A. is able to offer innovative solutions for the installation of its baths and shower trays, that allow easy replacement and/or repairs, without affecting wall structures.

The whole range of Smavit products was designed to guarantee high quality, solidity and long-lasting life.

Each of these products is manufactured by special steel pressing directly on coils; in this way Smavit products structure is solid and compact and, most of all, constant in time.





# SMAVIT SANITARY WARE



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Baths can be supplied:

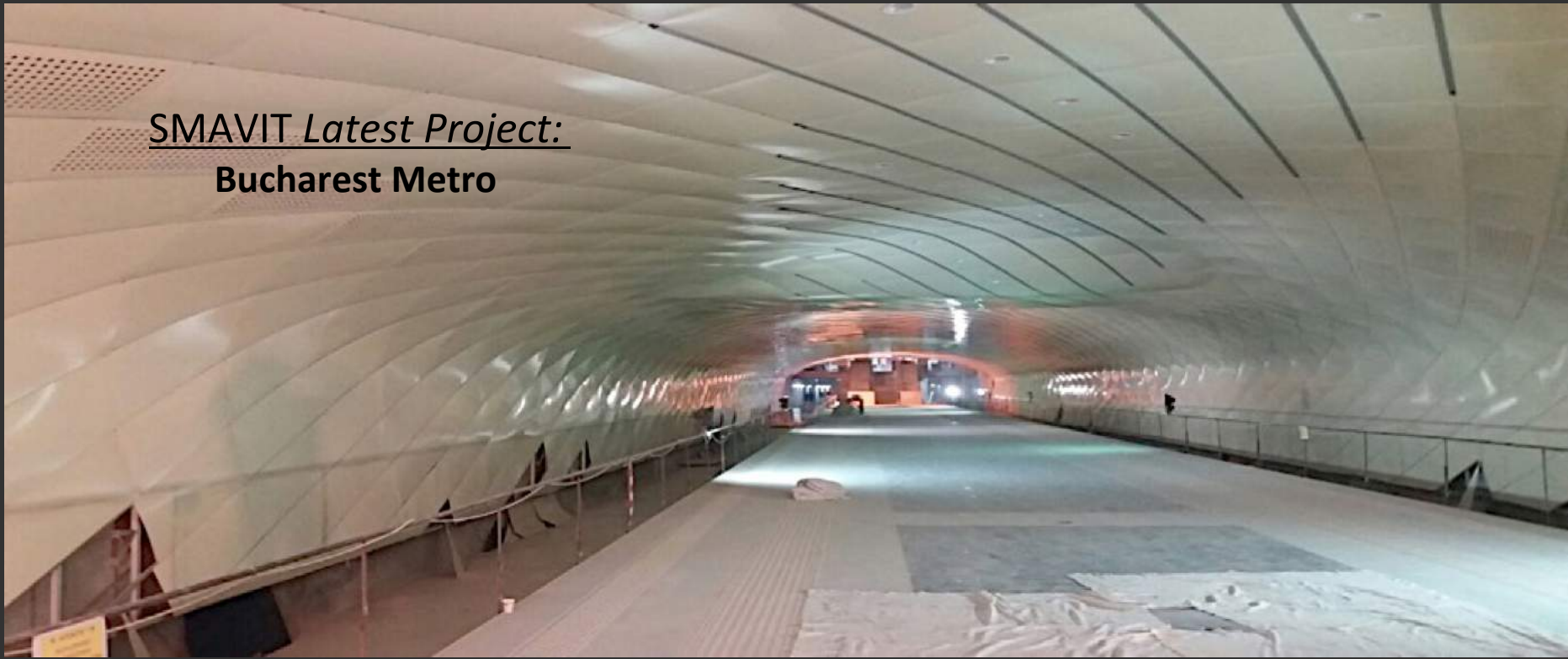
with plastic and steel legs, in a particularly functional and strong combination, or with cheap plastic legs; with tap holes and holes for handgrips.

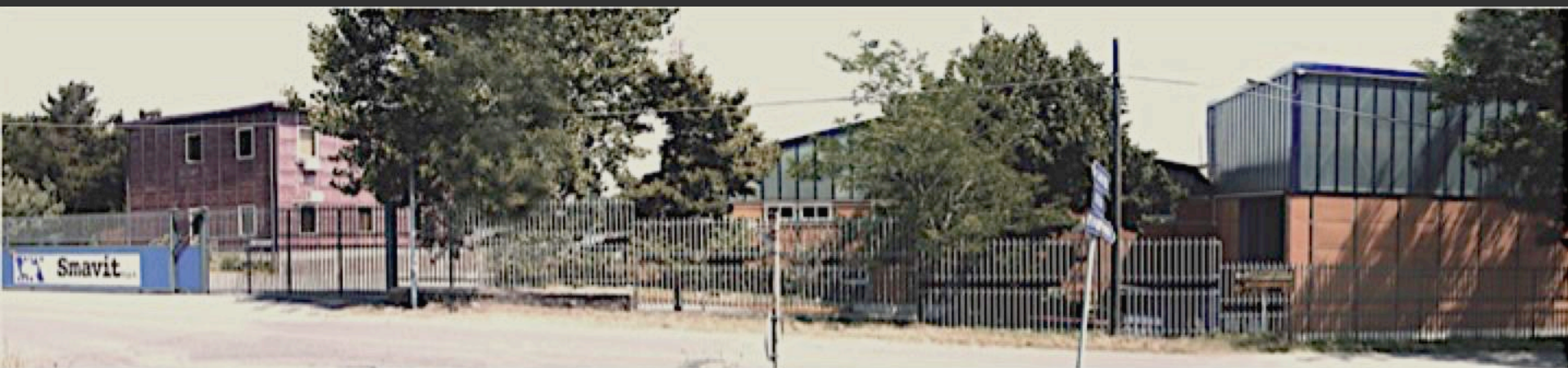
SMAVIT Latest Project:  
**Bucharest Metro**

*This Project started in 2016 consists of enamelling and decoration of panels for Bucharest - Romania underground stations. All the panels are made of porcelain enamelled steel in various shapes, sizes, and colours. The choice of porcelain enamelled steel guarantees a high level of safety in case of fire, eliminating the risk of fumes and toxic exhalations. In addition, porcelain enamelled steel guarantees colour unchanged in time and requires no special maintenance.*



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# ***SMAVIT***

INEXHAUSTIBLE SOURCE OF QUALITY

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