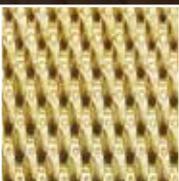


FMH STAINLESS

T22™ products and the PVD process



Specialists in Metal Finishes

Dynamic metal finishes suitable for:

Architecture • Elevators • Engineering
Machinery • Refrigeration • Signage • Transport

T22™ products and the PVD process

T22™ (Physical Vapor deposition) colouring

Rimex Metals offer a second product range of coloured stainless steel, which is produced via a physical vapor deposition process (PVD).

The process can be summarised by the following set of process explanations:

Surface finishing

Sheets are finished to a Mirror, Hairline or Granex finish prior to the colouring process.

Cleaning

The sheets are thoroughly cleaned to ensure a highly prepared surface for optimal end results.

Sheets are loaded into the Colouring chamber, and a vacuum drawn.

Atmosphere control

A vacuum is drawn, and the colouring environment in the chamber set in terms of temperature and gas mix as required for the target colour.

Once the target conditions are reached, electricity is used to form a plasma of titanium from titanium targets set in the shell of the chamber.

Deposition

Through a charged atmosphere, Titanium particles will deposit on the surface of the stainless and create a range of colours through a cyclic spectrum. Manipulation of the gaseous atmosphere, as well as the use of certain alloys of titanium for the targets, can assist in the production of certain colours in the available range.

Cooling and inspection would then conclude the process.

The finishes can be fabricated using standard equipment and techniques without the fear of the coating cracking or flaking.



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