



ZERO  
GRAVITY  
EDEN®

theverticalgarden







# OUR HEADQUARTERS



# ZERO GRAVITY EDEN

## WHAT IS IT ABOUT

ZERO GRAVITY EDEN is a new green project by Italmesh in support of sustainable architecture, in partnership with industry leader Garden Design snc: where expanded and painted metal mesh turns into a veritable vertical garden.

These are green walls, designed to cover buildings to optimise their insulation and energy efficiency as well as improving their appearance.

This patented product includes an automatic watering system and can host many different vegetable species, which have been selected to resist local climate.

They range from ornamental plants to herbs or even vertical kitchen gardens.

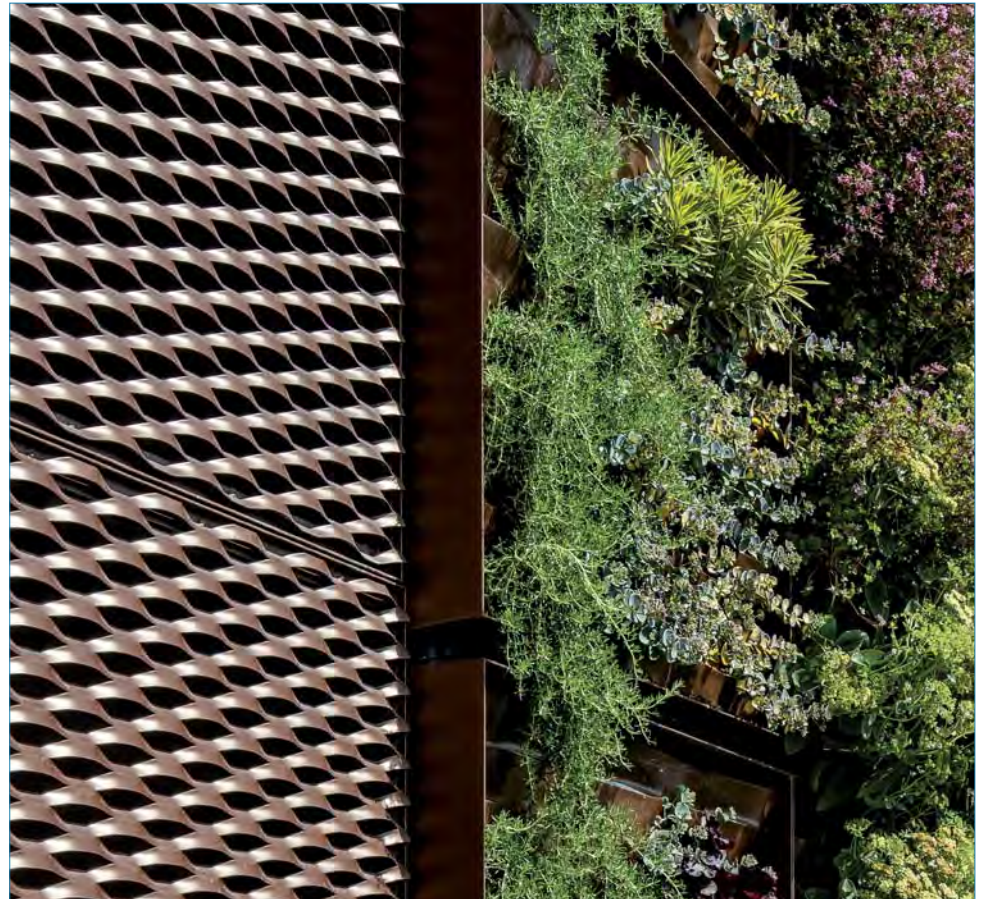


# EXCLUSIVE AND MODULAR QUICK-FASTENING SYSTEM BY ITALMESH ZERO GRAVITY EDEN

HAS BEEN DESIGNED FOR EASY FASTENING.

The pros:

- > **100% aluminium**, 100% Made in Italy, certified and **recyclable**;
- > Powder **coated**, with **20-year anti-corrosion warranty**, available in any **ral, pantone or special** colour;
- > **Self-contained panel**;
- > **A modular** system, where each **panel can be easily removed**;
- > **Low maintenance, easy to clean**;
- > Excess **water can be collected and recycled** and used to water the plants;
- > **Automatic watering system**, with Wi-Fi connection to the local weather station, to give the plants the right amount of water;
- > The size of each unit can be **adjusted** to suit any need.



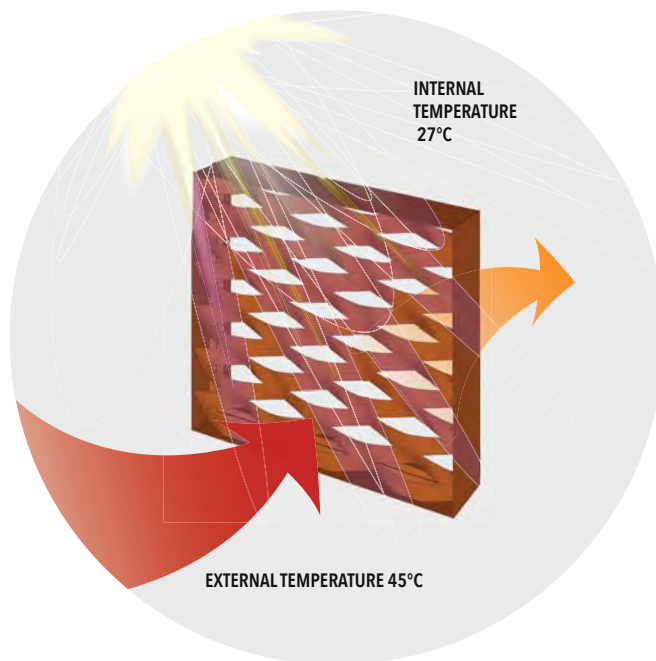
# ZERO GRAVITY EDEN'S BENEFITS

The ZERO GRAVITY EDEN technology has a lot of advantages:

> **Thermal insulation:** it insulates the building, as it won't let the heat out in winter and won't let it in, in summer.

Tests performed in August 2016 found that the thermal gradient between the front of the Green panel and the back was nearly 20°C. This is because the sunrays are partly filtered out by the Green panel and will not warm up the back of the building.

> **Soundproofing:** as natural thermal insulation, the plants will reduce the impact of noise. The ZERO GRAVITY EDEN technology extends the concept to the vertical green wall. Since the panel is about 20 cm wide, it can be used to soundproof the building, thus remarkably reducing noise pollution, an increasingly widespread problem.



> **Greener environment:** greenery takes centre stage, improving the environment for the wellbeing of the people who live there. It can have mitigating effects on weather and act as an air purifier. As a natural air filter, the plants will filter toxic agents out of the atmosphere (such as formaldehyde, carbon monoxide, exhaust gases) and release purified oxygen. And don't forget the psychophysical wellbeing that is felt by the human body when it lives in a green environment.

> **Made in Italy:** the panel is manufactured and assembled in Italy from certified materials. It is delivered completely finished and ready to use. It can be stored if not immediately used.

> **Lasting:** ZERO GRAVITY EDEN has been designed and tested to last. The best professionals select the most suitable plants, those that can best adapt to the local climate. However, for 1/3 of the starting cost, all the plants can be replaced with a brand-new vertical garden to begin a new life cycle. With ItalMesh Srl patented fastening system, the backbone of the vertical garden can cover the entire façade of a building.





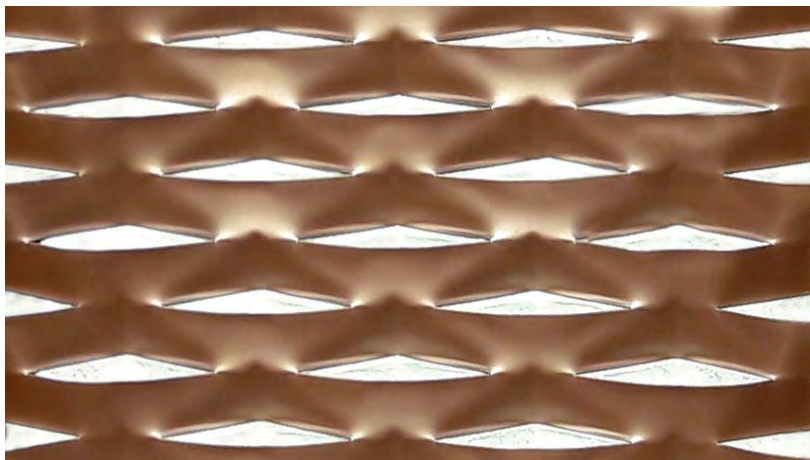
BEFORE



AFTER



MARCH/APRIL

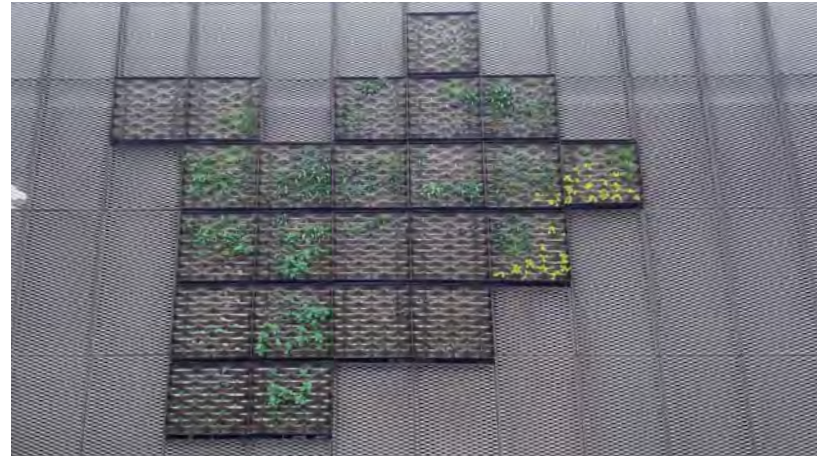


MAY



JUNE





# TARGETS

The ZERO GRAVITY EDEN technology is targeted to many different groups:

**ARCHITECTS**, who design public or private buildings, professionals who are keen on design, appearance and environmental sustainability.

**BUSINESSMEN**, willing to build a new property or renovate a dilapidated one.

**INDIVIDUALS**, for whom this new green technology is an opportunity to build an exclusive yet functional villa.









## **PROJECTS UNDER DEVELOPMENT**

**YAS MALL CAR PARK / ABU DHABI - UAE**

**CENTRAL BANK OF LAGOS / LAGOS - NIGERIA**

**PEARL MARZOUQ / KUWAIT CITY - KUWAIT**

**TECHNO HUB / DUBAI - UAE**

**ALBERO DELLA VITA / MILANO EXPO 2015 - ITALY**

**EIFFELL SHOWROOM / DUBAI - UAE**

**PLAY RESTAURANT / DUBAI - UAE**

**LEXUS SHOWROOM / ARAD BAHARAIN**

**AMROC PROJECT / DUBAI - UAE**

**ATLAS MALL / MASHAD - IRAN**

**CAMERA DI COMMERCIO FRANCESE / CASABLANCA - MAROCCO**

**MANTOVA MODA / MANTOVA - ITALY**

**FAST FOOD / KUWAIT CITY - KUWAIT**

**MERCEDES MARJAN CAR PARK / ABU DHABI - UAE**

**AIRPORT ROAD CAR PARK / ABU DHABI - UAE**

**TOURISM BANK HEADQUARTER BUILDING / TEHERAN - IRAN**

**CASPIAN WATERFRONT / BAKU - AZERBAIJAN**

**AZOTEA VILLA / DUBAI - UAE**

**A&T DRAGONFLY RESTAURANT / DUBAI - UAE**

**AL GHURAIR CONSTRUCTION / DOHA - QATAR**

**AL FARA'A AUDITORIUM / DUBAI - UAE**

**GIARDINERIA GIARDANGO / CARIMATE (CO) - ITALY**

# PROJECTS ZERO GRAVITY EDEN

## MONDRIAN INSTALLATION BRESCIA - ITALY



# PROJECTS ZERO GRAVITY EDEN

FUORI SALONE 2018 INSTALLATION  
MILANO - ITALY



# PROJECTS ZERO GRAVITY EDEN

GOLF SCHOOL  
GARDA LAKE - ITALY



# PROJECTS ZERO GRAVITY EDEN

## INTERIOR AT HEADQUARTERS MONTIRONE - ITALY



# PROJECTS ZERO GRAVITY EDEN

## HEADQUARTERS ITALMESH

MONTIRONE - ITALY



# PROJECTS ZERO GRAVITY EDEN

## RIQUALIFICATION BUILDING BRESCIA - ITALY



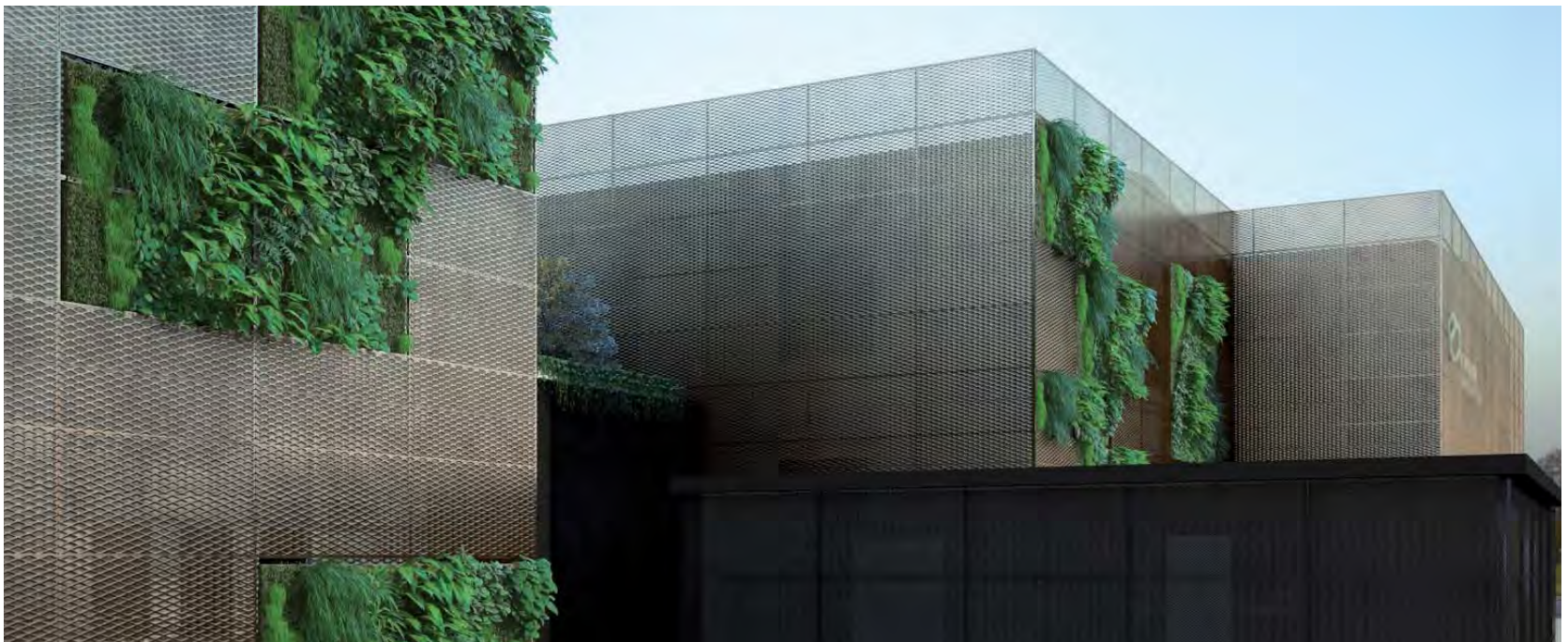
## DESIGN AND ENGINEERING

In addition to design, Italmesh will also help its customers with the details and feasibility of the project.

Italmesh's team of architects / engineers can help and support designers to make their ideas feasible, helping them with the selection of the right mesh, the backing, the wind load, the panel units, the thickness and finish of the material, depending on the place it will be installed in.

Italmesh's team can help designers in any situation:

- > New projects;
- > Design of functional architectural and aesthetic solutions;
- > Development of bespoke designs;
- > Bespoke applications;
- > Redevelopments;
- > Development of prototypes for approval.



THE INTERNATIONAL CERTIFICATION NETWORK

الهيئة العامة للمواصفات والمقاييس  
CHARITIES AUTHORITY FOR STANDARDIZATION & METROLOGY



## MISSION

The Italmesh team thoroughly investigates the project, in the attempt to find the right combination of good looks, feasibility and innovation.

Italmesh provides the most suitable materials and the right finish by thoroughly investigating any detail. With its wide range of styles and materials, Italmesh can fulfil any requirement.

Our company is working in quite a lot of markets and is looking ahead. It is always looking for new materials and new laying systems to make its products more versatile and easy to install.

All our materials are certified to European and Middle Eastern standards. They are 100% Made in Italy and 100% recyclable.

Italmesh provides a 360-degree service to fulfil any requirements.



## PRODUCTIVE CYCLE

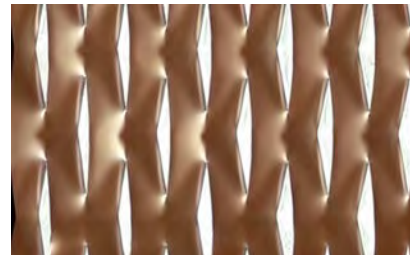
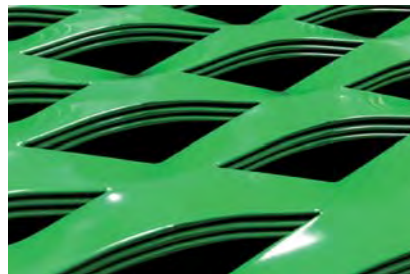
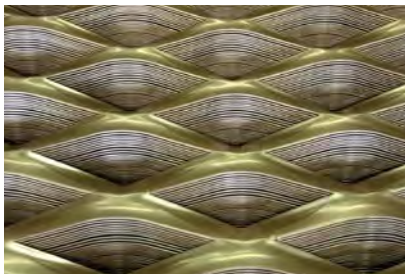
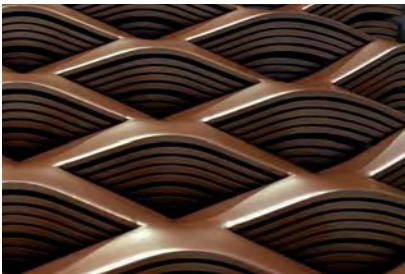
Orders are taken, planned and managed in the following sequence:

- > Materials are sourced and handled;
- > The manufacturing process is developed and monitored;
- > The progress of the manufacturing process is thoroughly monitored throughout;
- > Outsourced processes, such as electric lighting, anodizing and galvanisation, are monitored by the contractor and by ItalMesh when it receives the products;
- > The final quality of the finished product is visually inspected.



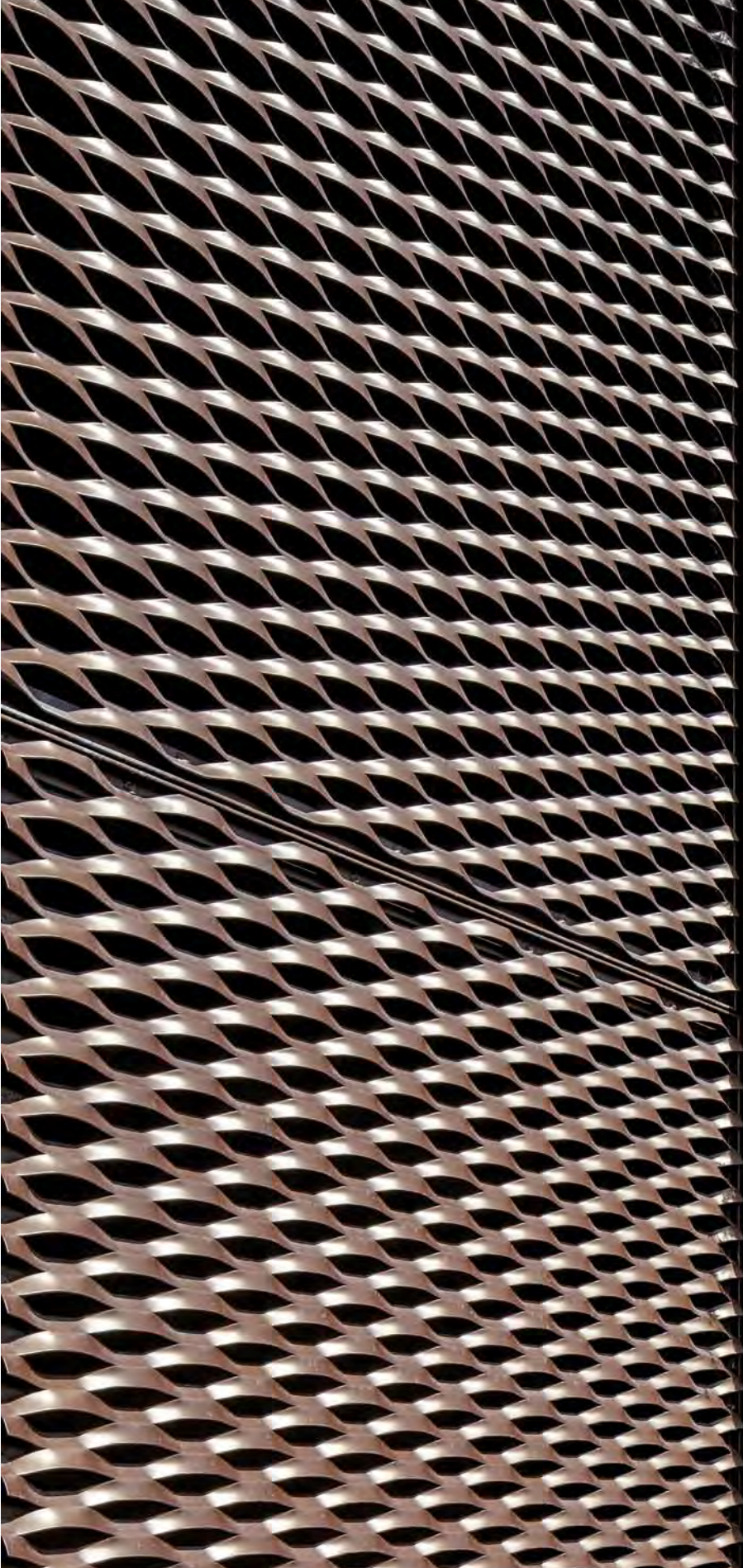
## POWDER COATING

- > Electrostatic powder coating;
- > Cured in a polymerisation furnace;
- > The progress of the manufacturing process is monitored by the hour: for any order, we use samples in the same alloy and same mesh, to test the colours, gloss and adhesion;
- > Paint thickness tests;
- > Final visual inspection of every single piece.









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