



valchromat

by **Investwood**

engineered coloured wood



An innovative product



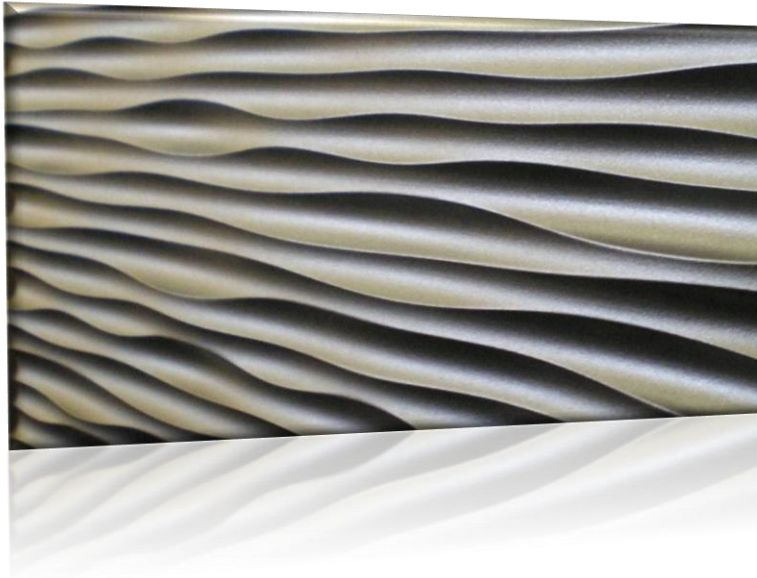
valchromat engineered coloured wood

Valchromat is **Engineered Coloured Wood**

Wood fibre panel coloured throughout, with superior mechanical resistance, ideal for machining. Manufactured in different colours, dimensions and thicknesses. Accepts different types of finishing: varnish, oil, wax.

An innovative product that combines the brightness of colours with the natural wood comfort, where you can discover the beauty of textures and the best engineering.





Valchromat is an evolution of MDF and is clearly superior to colored MDF

Main differences

- 1.** Moisture resistant – suitable for loadbearing in any indoor environment
- 2.** Higher Internal Bond – little or no sanding after machining
- 3.** Coloured throughout – may be explored in all dimensions
- 4.** Higher bending strength – may be kerfed then bent
- 5.** Higher surface density – Requires less labour to finish
- 6.** Tools last up to 5 times longer



12 Colours

Black | Grey | Light Grey | Brown | Chocolate Brown | Yellow | Orange | Red | Violet | Blue | Green | Green Mint



Black Valchromat

SBL

raw

varnished
example of finishing



Grey

Valchromat

SCZ

raw

varnished
example of finishing

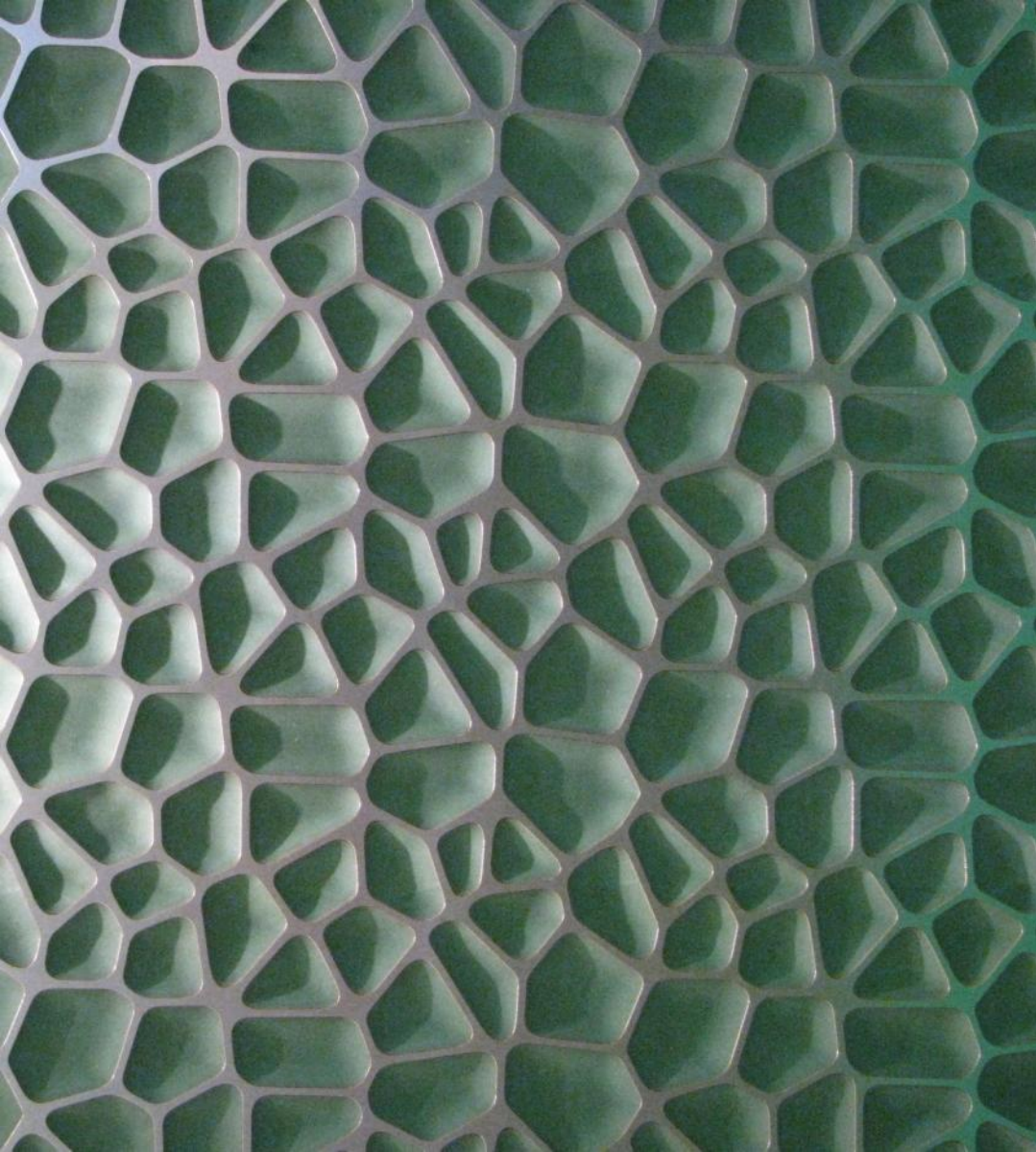


Brown Valchromat

SBR

raw

varnished
example of finishing



Green

Valchromat

SGR

raw

varnished
example of finishing



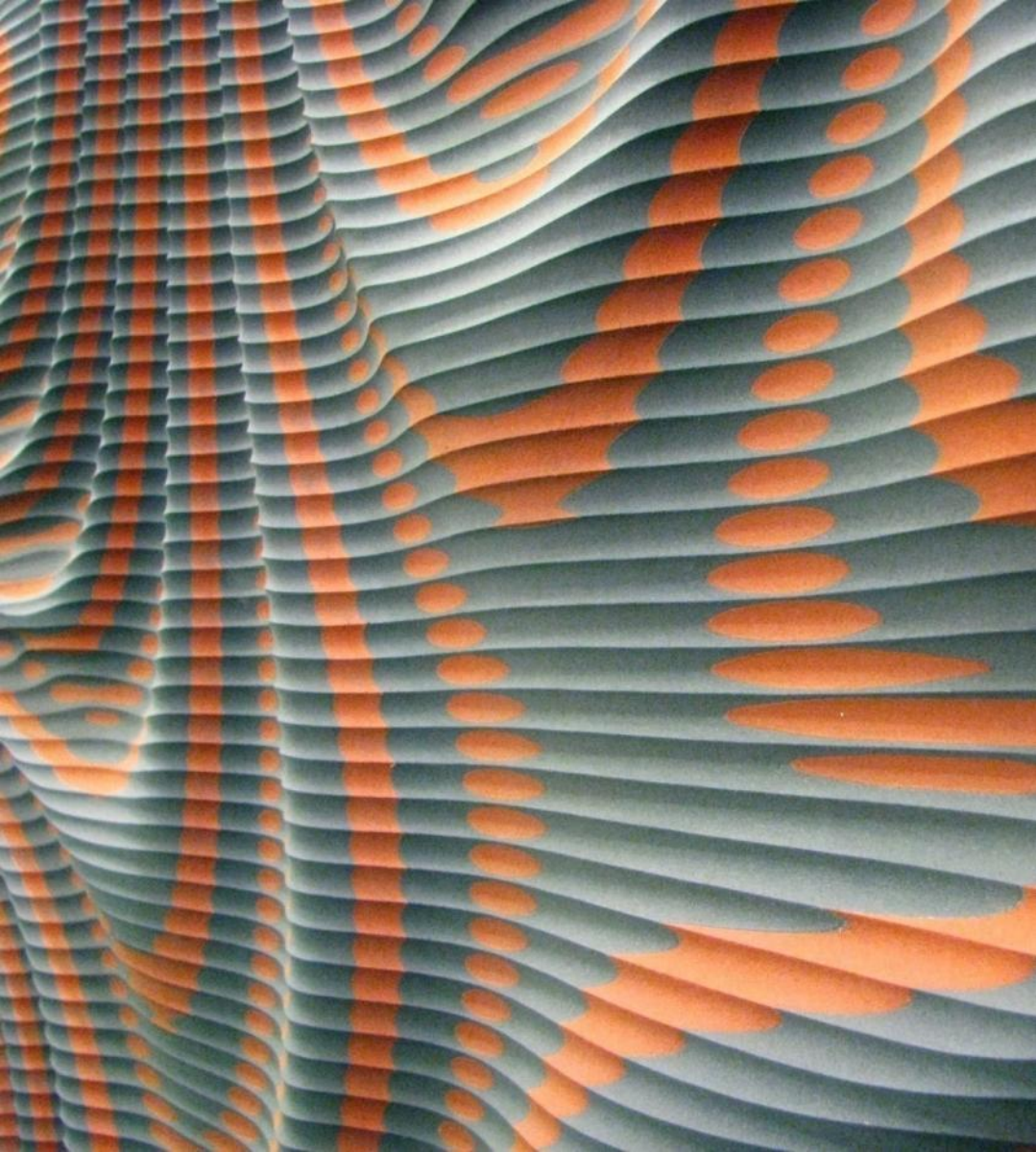
Yellow

Valchromat

SYW

raw

varnished
example of finishing



Orange

Valchromat

SOR

raw

varnished
example of finishing



Red

Valchromat

SSC

raw

varnished
example of finishing



Blue

Valchromat

SRB

raw

varnished
example of finishing



Violet

Valchromat

SVI

raw

varnished
example of finishing



Light Grey

Valchromat

SLG

raw

varnished
example of finishing



Chocolate

Valchromat

SCB

raw

varnished
example of finishing



Green Mint

Valchromat

SGM

raw

varnished
example of finishing



Interior Design



Walls and Flooring



Doors



Furniture



Bathroom



Kitchens



Restaurants and Bars



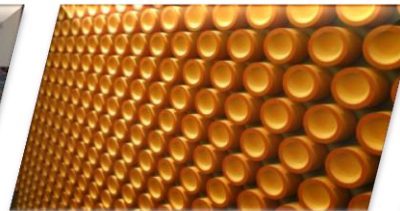
Hotels



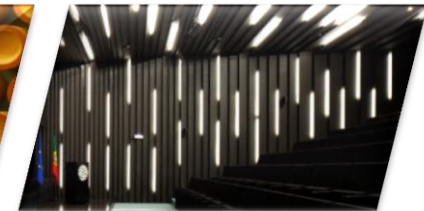
Stands



Shopfitting



Decorative Panels



Acoustic Panels

1. **Obtaining the chips**

The pine logs are debarked and sent to a wood chipper to be broken into small woodchips.



2. **Separation of metals**

The chips go through a magnetic separation process to remove any contaminating metals. One of the reasons why Valchromat is so tool friendly.



3. **Washing**

The woodchips are washed to ensure the removal of sand.



4. **Cooking**

Injecting steam into a vessel with the chips will ensure pressure and temperature to cook the fibres and weaken the lignen bonds.



5. **Preparation of fibre**

Once the fibres are isolated, resins and organic dyes are added.



6. **Drying and shaping of fibre blanket**

The fibres are transported by a hot air stream which also dries them.

Then a fibre matt is formed.



7. Pressing

The fibre matt is pressed in a heated single-plate press. The press cycles are vital to Valchromat's enhanced performance.



8. Curing

During a 48 hour period the boards remain untouched to ensure complete stabilization.



9. **Calibration and quality control**

Thickness measurement.

Color control and testing of mechanical and physical properties in accordance with European standards.

10. **Cutting and packing**





Coloured throughout

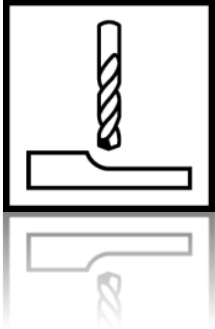
Easy to repair - Coloured Core - Easy finishing



It is easy to repair in case of damage, e.g., scratches. Simply sanding the damaged area followed by local application of the finishing suffices to recover the original appearance.

Colour remains, even after cut or machined, regardless the intervention size or depth.

It does not require the use of paint, avoiding thereby the toxic nature of these finishes and the inherent cost of acquisition. However, Valchromat is also used to be lacquered because it's denser and less porous and therefore requires a lower amount of paint. It does not require gluing an edge.



Easy to Machine

It is on average 30% stronger than standard MDF, and is used for structural purposes. Due to the addition of resins in the composition, it has a greater internal cohesion, which gives it a higher mechanical strength.



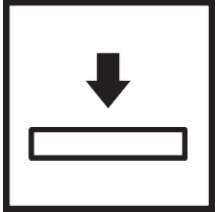
Non toxic

Formaldehyde emissions are within the limits set by European standards for wood-based materials and meets CARB II requirements for VOC emissions.



Limit: 8mg/100g dry board

Valchromat Average Values: 5,5mg/100g dry board



Load Resistance

Given its composition and manufacturing process, Valchromat may be used for shelves, worktops, flooring...



Moisture Resistant

May be used in any indoor application except the shower.





Tool Friendly

It is a low abrasion product considered tool friendly.

Unlike Standard MDF or Moisture Resistant MDF, when machined it features a better finishing.



The magnetic metal removal, the sand removal through washing and, more importantly, the use of a resin with lubricating properties, ensure up to 5 times longer life span of the tools used to machine Valchromat.

The boards, after machined, require little or no sanding, dramatically reducing labour costs and facilitating the finishing process.



Fire Retardant

Valchromat Fire Retardant is also available, upon request, and certified according to EN ISO 11925-2 as B-s2, d0.

This is the best fire rating for a wood product according to EN.
Valchromat Fire Retardant is still moisture resistant!



Thicknesses (mm)

8 | 19

12 | 16 (minimum number of order)

Available Colours

Brown | Black | Grey | Green | Red | Orange | Yellow



Valbopan, SA complies with the requirements of Standard **NP EN ISO 9001**, which ensures controlled consistency in its operations and products.

Valchromat is manufactured in accordance with the **CE marking**.

Self-sufficient in terms of thermal energy production

Valbopan recently invested in an energy recovery system which allowed it to cease burning fossil fuels. Valbopan's production now has zero carbon emissions.

Recyclable

Valchromat may be recycled and Valbopan is licensed for this purpose.

Manufacturing without waste

The wood that doesn't end up in Valchromat, will be used for energy production.

Non Toxic Product

Formaldehyde emissions are within limits set by European standards for wood-based materials (Class E1). Valchromat is also certified CARB II.



Certified Wood

Valbopan, SA owns the certification **Chain of Responsibility (CoR)**, according to the normative references **FSC** and **PEFC**. FSC or PEFC Valchromat is available upon request.

Valchromat Applications



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Interior Design



Wall cladding



Wall cladding



Ceilings



Flooring



Flooring



Furniture



Furniture



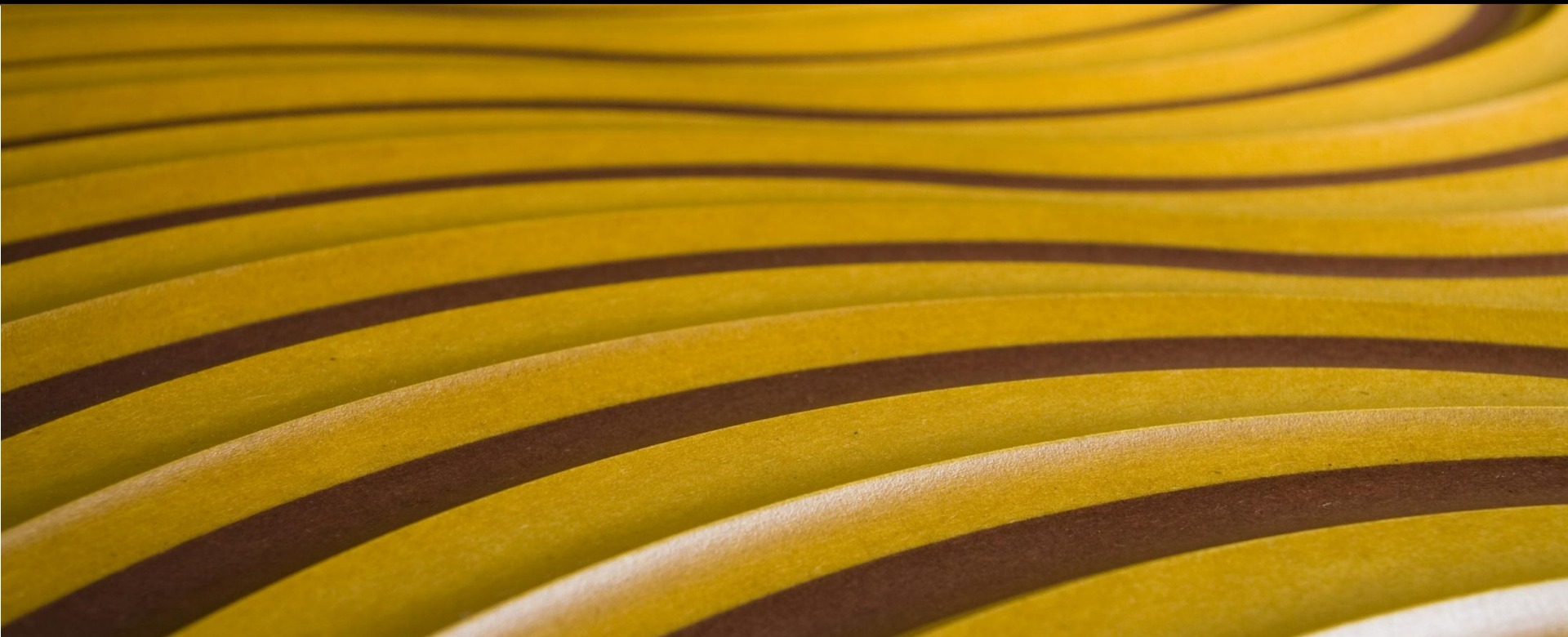
Design Objects



Acoustic Panels



Educational games for dogs



Decorative Panels – 3D routing



Valchromat®

Decorative Panels - Sand Blasting



Libraries | Bookstores



Schools



Sports Pavilions



right 2011 | photo.luis viegas

Shopfitting – Digital Printing



Health Facilities



Pharmacies



Children's toys



Bathrooms



Kitchens



Doors and Partitions



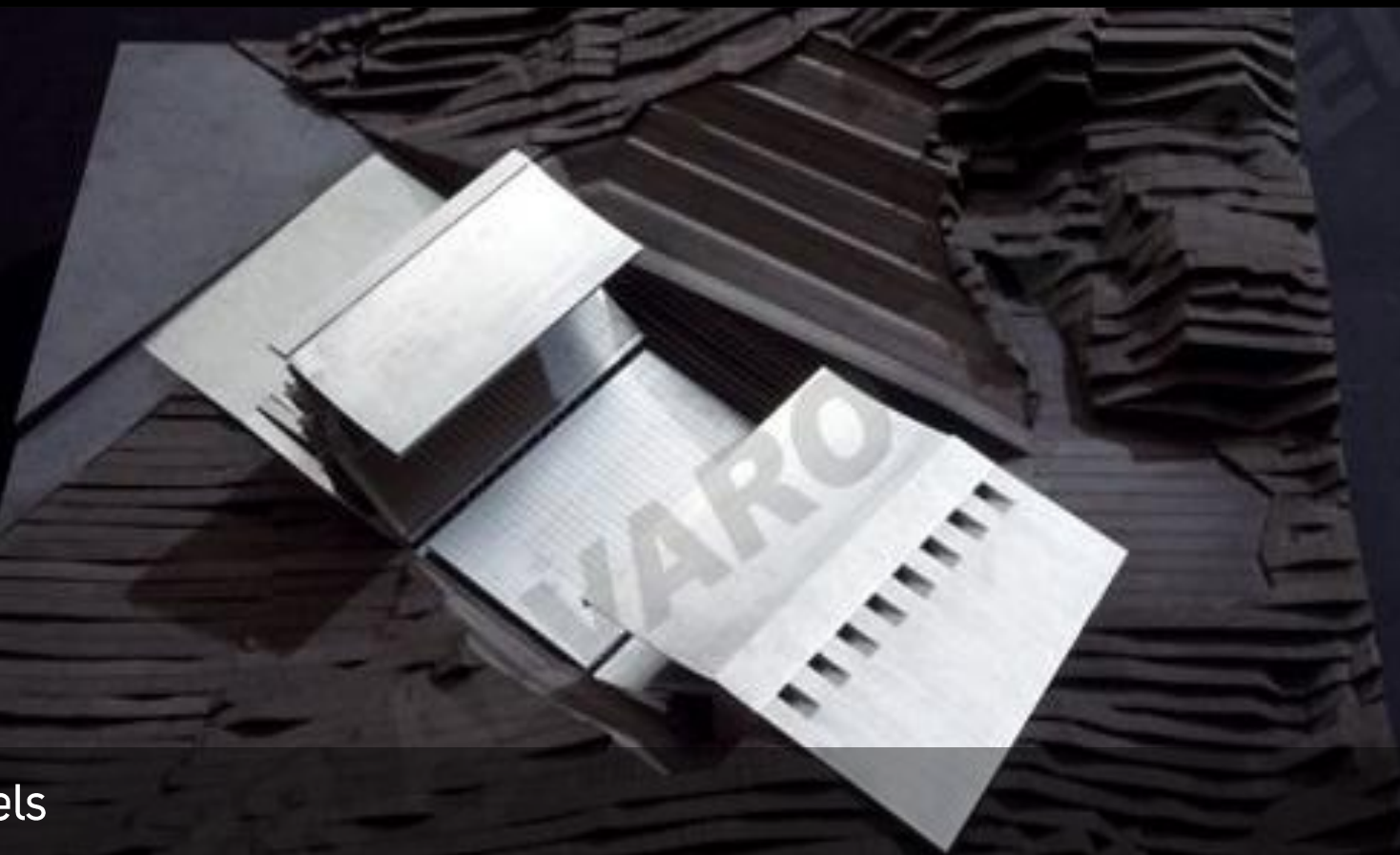
Restaurants



Stairs



Walls and Ceilings



Models



Protected exterior



Structures



Stands

colour your world
use your imagination

valchromat.pt
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