

Valchromat Technical Guide

Product Description

Valchromat is a Premium Coloured Wood product. It is a relatively high density wood fibre panel engineered to provide colour right throughout. The fibres have been individually impregnated with organic dyes and chemically bonded using specially designed resins resulting in the following physical and mechanical properties.

- Moisture resistant when coated
- 30% stronger than standard MDF
- Bowing resistant
- Scratches are difficult to detect
- Easy to machine
- Less effort to finish
- Non Toxic.
- Able to CNC surface routed to a wide range of effects, including logos and patterns
- Consistent fibre bonding through depth of sheet
- Moisture Resistant

Valchromat is a natural product and therefore susceptible to minor surface discrepancies and colour differences.

Colours: There are ten standard colours;

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

Sheet Size: 2440 x 1220mm

Sheet Thickness: 8mm*, 16mm, 19mm, 30mm*

* Not available in all colours

Formaldehyde Content: E0

Features & Benefits

- Natural aesthetics
Beautiful, natural product that combines colour and the natural comfort of wood
- Coloured throughout
Colour remains after cutting or machining and doesn't require edge treatment
- Low toxicity
Made from natural materials and meets the E0 low formaldehyde emissions
- Moisture resistant
Can be used in kitchens, bathroom and floors
- Consistent fiber bonding
No furry core exposed with deep machining
- High mechanical strength
Greater load bearing ability and a high resistance to bending
- Machinability
Despite its high mechanical strength, the product is not hard on tooling.

Assembly and Finishing

Traditional construction methods as used with MDF apply. Valchromat can be finished in polyurethane, oils, varnishes or wax. The coating manufacturers recommended method of application should be used.

Valchromat is a wood fibre panel coloured throughout and engineered for high physical performance. The fibres are individually impregnated with organic dyes and chemically bonded by specifically developed resins that give the panels their special properties.

Application

Valchromat is designed for interior use, such as kitchens, bathrooms, laundries, wardrobes, domestic, restaurants, bars, shopfitting and commercial furniture. This product has been designed with the consumer in mind and is a perfect solution for all joinery applications.

- Furniture
- Wall cladding
- Commercial fit-out
- Retail/restaurants/bars/hotels
- Acoustic panels
- Ceilings/partitions
- Table tops
- Bathrooms.

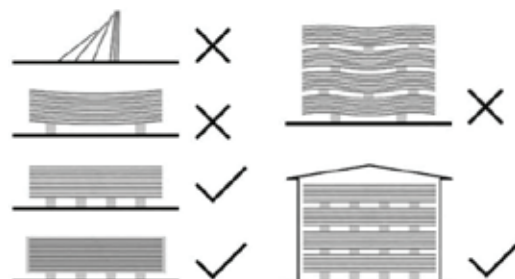
Storage

Valchromat panels should be treated with special care, avoid leaning large doors, panels and sheets against walls or other surfaces, this will cause bowing of the product and may void any warranty obligations.

When stacking be sure to place on a flat surface, face to face, this will keep the product in its optimal condition, also be sure not to drag the products across each other as this will cause scratches and damage the surface.

Valchromat panels must be stored in a covered area, protected from sunlight and rain, with a flat and horizontal base. The pallets must be placed on supports with sufficient height (≥ 8 cm) to allow easy access with a forklift. The maximum distance between supports should not exceed 800 mm.

If the pallets are piled on top of each other, all the support bases must be aligned to prevent deformation.

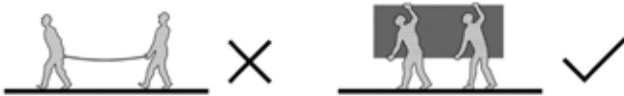




Handling

Whenever possible, the handling of the panels should be performed using appropriate equipment, such as forklifts or plate lifts.

When the panels have to be moved manually, they must be moved one by one, in the vertical position, in order to remain flat and without deforming. Their movement should not be performed without sufficient people being present.



Care and Maintenance

To remove surface smudges on a good quality finish a simple wipe down with soap and warm water is usually sufficient (care should be taken not to allow moisture to pond on the surface). For more extensive damage caused a furniture polish may be used (this is related to damage to the finish only, and not related to Valchromat. Refer to manufacturers product data sheet for further details.

Warranty

Valchromat is warranted for seven (7) years. Contact your CSR Himmel Representative for further warranty details.

Finish Application Guidelines:

1. Sand the surface to remove any marks caused by industrial sanding and handling (calibration stripes).
2. Sand edges with fine sanding paper (200grit) to ensure they are sealed with its own dust (this happens when the edge feels almost as smooth as the surface).
3. Apply first coat of sealer being generous on the edges to allow increased absorption.
4. Allow drying time as per manufacturers instructions.
5. Sand all surfaces with fine sand paper (200grit).
6. Apply second coat of sealer as per manufacturers instructions.
7. Allow drying time as per manufacturers instructions
8. Add topcoat to desired gloss level.

There are a range of sealants that can be applied to Valchromat panels. Ensure the sealant is suitable for the application.

ValchroSeal is available from CSR Himmel. Please contact your CSR Himmel representative for more details.

These recommendation are general in nature. Please consult the manufacturer in regards to suitability for your specific application and performance requirements. CSR Himmel accepts no responsibility for sealant suitability or performance.

Product Limitations:

- Valchromat predominantly consists of wood fibre and natural dyes. This may result in a range of minor inconsistencies, such as colour variation and/or 'pockets' of lighter or darker colour. Standard industry procedure and good work practices are usually sufficient to identify and minimise the effect of these inconsistencies during the manufacturing process.
- Because Valchromat is predominantly a natural product it may slightly vary in colour across individual sheets, or from sheet to sheet. Homogeneity of colour between different panels is not covered by warranty.
- In some cases 'stripes' may be evident due to the manufacturing process. These stripes are generally more prominent on one face of the sheet than the other. In this case the reverse side of the sheet should be selected as the visible face.

Valchromat is an environmental friendly non-toxic substance made from recycled pine wood and mill waste.

Valchromat panels are manufactured using waste wood such as branches and chips from softwood forests.

In using waste wood Valchromat helps to sustain forests and minimise carbon emissions given off from felling machinery.

Valchromat's manufacturing plant generates enough biomass to sustain its thermal energy requirements, without burning fossil fuels.

Also the carcinogenic odourless chemical gas known as formaldehyde which is found in the wood fibre bonding resin used in standard MDF is minimal in Valchromat where a special organic nontoxic wood fibre bonding resin is used allowing Valchromat safe to be used in the manufacture of kids toys. Formaldehyde emissions are within the lowest limit standards for wood based materials.

Valchromat also use the same colour dye used in fabric. This dye is organic and non-toxic.

