



## 1. Description and range

### Valchromat<sup>®</sup> Engineered Coloured Wood

Valchromat is a wood fibre panel coloured throughout 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.

Colours / Thicknesses(mm)	8	12	16	19	25	30	Dimensions(mm) 2500x1250 2500x1850 3750x1250 3750x2500
Brown SBR	•	•	•	•	•	•	
Black SBL	•	•	•	•	•	•	
Green SGR	•	•	•	•	•	•	
Blue SRB	•		•	•		•	
Grey SCZ	•	•	•	•		•	
Violet SVI	•		•	•		•	
Red SSC	•	•	•	•	•	•	
Orange SOR	•		•	•		•	
Yellow SYW	•	•	•	•	•	•	
Light Grey SLG	•		•	•		•	

**NOTE 1:** Valchromat can present different shades due to wood have natural variations of tone.

**NOTE 2:** Valchromat is provided without finishing.

## 2. Applications \*

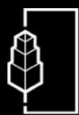
Interior Design | Furniture | Walls | Flooring | Doors | Bathrooms | Exhibition Stands | Displayers | Restaurants - Bars - Hotels | Shopfitting | Decorative Panels | Acoustic Panels | And others

## 3. Certifications

Valbopan, SA meets the requirements of the standard NP EN ISO 9001:2008.

Valchromat has the certification of conformity CE 1328-CPD-0062.

Valbopan, SA holds a Certification of Chain of Responsibility (CoR), in accordance with the relevant standards, PEFC and FSC.



## 4. Properties

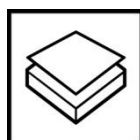
### Nominal Thickness

Feature	Unit	8	12	16	19	25	30	Standard
Density (± 30)	Kg/m3	850	820	800	790	750	740	EN 323
Swelling (24 hours)	%	12	10	8	8	7	7	EN 317
Internal Bond	N/mm2	0,80	0,80	0,75	0,75	0,75	0,75	EN 319
Bending Strenght	N/mm2	42	40	38	38	36	36	EN 310
Modulus of Elasticity	N/mm2	3400	3200	3100	3100	3000	3000	EN 310
Swelling After Cyclic Test	%	19	16	15	15	15	15	EN 321
Internal Bond After Cyclic Test	N/mm2	0,30	0,25	0,20	0,20	0,15	0,15	EN 321
Level of Formaldehyde	mg/ 100g dry board	≤ 8 (Class E1)						EN 120
Fire Reaction		F	≥12 a ≤30 (Class D-s2, d0)					EN 13501

### Cyclic Tests, Hydrophobic Test Standard (EN 321)

	Temperature (°C)	Lenght (Hours)
In the Water	20 ± 1	70 ± 1
In the Freezer	-12 a -25	24 ± 1
In the Oven	70 ± 2	70 ± 1

## 5. Advantages



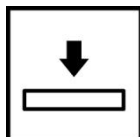
### Coloured throughout

Colour remains, even after cut or machined. It does not require the use of paint. It does not require gluing an edge.



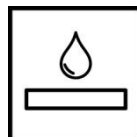
### Non Toxic

Ecological organic dyes. Formaldehyde emissions are within the limits set by European standards.



### Weight Resistant

It has a high bending resistance.



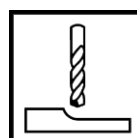
### Moisture Resistant

It is resistant to moisture so it can be used in kitchens, bathrooms and floors.\*



### Tool Friendly

It is a low abrasion product considered tools-friendly.



### Easy to Machine

It has a greater internal bond, which gives it a higher mechanical strength. 30% stronger than standard MDF.

\* To get more informations about the most appropriate finish, please contact us.