

# Specifying Valchromat - Through-coloured MDF

## Overview

- > **Water resistant** - Valchromat is moisture resistant. It is ideal for high humidity regions and applications where humidity and moisture are present.
- > **Ecological** - The wood fibre used in the production of Valchromat comes from forest waste. There is no formal-dehyde added to the product. It is non-toxic.
- > **Color fast** - Organic dyes are infused into the wood fibre so that they are resistant to fading when exposed to UV rays from artificial light.
- > **Strong** - Special resins are added to the wood fibre during processing which bonds the fibre together. Valchromat is 30% stronger than standard MDF.
- > **Through color** - Organic dyes are added to the wood fibre during manufacturing. The dyes penetrate the fibre so that the color is uniform through the board.
- > **Non toxic** - The dyes used to make Valchromat are the same dyes used to dye fabric. They are 1000/0 organic. The colors are soft natural colors.

## Corporate applications

Corporate interiors offer a broad variety of excellent applications. Walls, cabinets, seating, tables, ceilings, counters, and general millwork all benefit from the unique physical properties of Valchromat.

## Retail applications

Valchromat is 30% tougher than regular MDF. That combined with its uniform through-color make it the perfect choice for high traffic areas, large or small.

## Hospitality applications

Valchromat is formulated with special resins that give it superior resistance to high moisture. The organic dyes used resist fading. It is ideally suited for counter tops, table tops, store fronts, and high moisture areas.

## Ecetera, ecetera, ecetera!

- > Environmentally friendly
- > Water-resistant
- > 30% stronger than MDF
- > Through-color
- > Nontoxic
- > The opportunities to incorporate Valchromat into your next project are limited only by your imagination.

## Technical specifications

### Density and technical details (according to European standards)

Density	Nominal thickness (mm)							Unit
	8 1/3"	12 1/2"	16 5/8"	19 3/4"	22 7/8"	25 1"	30 1 1/4"	
	0.80	0.79	0.76	0.75	0.73	0.69	0.69	g/cm3
Thickness swell in 24 hrs	10	7	5	5	5	5	4	%
Internal Bond	1.10	1.10	1.10	1.00	0.95	0.90	0.85	N/mm2
Bending Strength	30	30	30	30	30	22	22	N/mm2
Modulus of Elasticity	2700	2700	2500	2500	2500	2300	2300	N/mm2
Thickness swell 24 hrs after cycle test (see below)	17	16	15	15	15	10	10	%
Internal bond after cyclic test (see below)	0.30	0.25	0.20	0.20	0.15	0.15	0.15	N/mm2

### Moisture Resistance Cycle Test (standard EN 321)

	Temperature (F)	Time (hours)
In water	68	72
In freezer	-10 a - 4	24
In oven	158	72



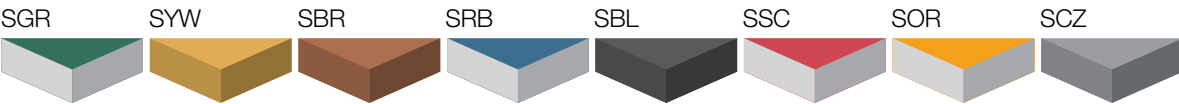
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**Color Fastness** (British Standard Bs 1006)  
24 hour exposure to artifial light in a solar box

Color	Reference	Results
Yellow	syw	4
Anthracite	sbl	3
Blue	srb	3
Brown	sbr	3
Green	sgr	2
Red	ssc	3

Results of 2 is considered good. The higher the number the better the performance.

## Standard Colors



Panel size		
Inches	4 x 8	6 x 8
mm	49 x 98	72.7 x 98

Thickness								
Inches	3/8	1/2	5/8	3/4	7/8	1	1 1/4	
mm	8	12	16	19	22	25	30	

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