

LAMCO HPL COMPACT - METALLI (MCS) (EN 438-8)

Self-supporting laminate (from 2 mm) consisting of sheets of kraft paper impregnated with phenolic resins having, on the surface (one or both sides), a lacquered or anodised aluminium foil; all pressed and bonded together by means of high pressure ($P \geq 5\text{MPa}$) and heat (120°C) in special presses where the polycondensation of the resins takes place. This material is produced in conformity to EN 438-8:2009.

PROPERTY	TEST METHOD (EN 438: 2005)	PROPERTY OR ATTRIBUTE	UNIT	VALUE
Thickness	EN 438-2.5	thickness	mm	$2,0 \leq s < 3,0$ $\pm 0,25$
				$3,0 \leq s < 5,0$ $\pm 0,40$
				$5,0 \leq s < 8,0$ $\pm 0,50$
				$8,0 \leq s < 12,0$ $\pm 0,70$
				$12,0 \leq s < 16,0$ $\pm 0,80$
				$16,0 \leq s < 20,0$ $\pm 0,90$
				$20,0 \leq s < 25,0$ $\pm 1,00$
				$25,0 \leq s$ to be agreed between supplier and customer
Flatness ⁽¹⁾	EN 438-2.9	maximum deviation	mm/mtl	$2,0 \leq S < 6,0$ 8,0
				$6,0 \leq S < 10,0$ 5,0
				$10,0 \leq S$ 3,0
Resistance to immersion in boiling water	EN 438-2.12	appearance	core delamination	Pass (no delamination of the core)
Resistance to water vapour	EN 438-2.14	appearance	rating	≥ 3
Dimensional stability at elevated temperature	EN 438/2.17	cumulative dimensional change	% long.(L)	$2,0 \leq S < 5,0$ L 0,40 / T 0,80
			% transv.(T)	$5,0 \leq S$ L 0,30 / T 0,60
Resistance to crazing	EN 438-2.24	appearance	rating	≥ 4
Resistance to scratching	EN 438-2.25	appearance	rating	≥ 1
Resistance to staining	EN 438/2.26	appearance groups 1-2-3	rating	≥ 4
Lightfastness ⁽²⁾	EN 438/2.27	contrast	grey scale rating	≥ 4
Flexural strenght	EN ISO 178	stress	Mpa	≥ 80
Flexural modulus (E)	EN ISO 178	stress	Mpa	≥ 9.000
Density	ISO 1183-1	density	gr/cm ³	$\geq 1,35$

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ANNEX

(1) These values are valid only if are respected each of the terms and conditions of storage of the normal compact HPL and HPL compact RE (see our brochure: Manual of Technical information). These flatness value apply only to Lamicolor Metal laminates with two decorative faces.

(2) Extraneous darkening and/or photocromism are due to the shock effect of accelerated exposure and are not characteristics of natural exposure.

OTHER GENERAL INFORMATIONS

- Suitable for vertical indoor applications only
- Not advised in areas with high humidity rate.
- Pay attention to the directionality of the finish: place the panels only head-to-head and not head-to-tail and neither longitudinal direction- to-cross direction.
- During handling operations treat the panels with extreme care because, although the surface can be protected by a film, sharp edges can cut and scratch the surface.
- machining (cutting, drilling, milling, etc..) must be carried out on the lower side, not in view, of the panel.
- The protective film, when provided, shall be removed simultaneously from the two sides.
- Do not apply adhesive tapes on the metal surface.