

## LAMCO HPL COMPACT - METALLI (MCS)

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 ( $P \geq 7\text{MPa}$ ) and heat ( $120^\circ\text{C}$ ) in special presses where the polycondensation of the resins takes place. This material is produced in conformity to EN 438-8.

PROPERTY	TEST METHOD (EN 438: 2016)	PROPERTY OR ATTRIBUTE	UNIT	VALUE
<b>Thickness</b>	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
<b>Flatness<sup>(1)</sup></b>	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
<b>Resistance to immersion in boiling water</b>	EN 438-2.12	appearance	core delamination	Pass (no delamination of the core)
<b>Resistance to water vapour</b>	EN 438-2.14	appearance	rating	$\geq 3$
<b>Dimensional stability at elevated temperature</b>	EN 438/2.17	cumulative dimensional change	% long.(L) % transv.(T)	$2,0 \leq S < 5,0$ L 0,40 / T 0,80 $5,0 \leq S$ L 0,30 / T 0,60
<b>Resistance to crazing</b>	EN 438-2.24	appearance	rating	$\geq 4$
<b>Resistance to scratching</b>	EN 438-2.25	appearance	rating	$\geq 1$
<b>Resistance to staining</b>	EN 438/2.26	appearance groups 1-2-3	rating	$\geq 4$
<b>Lightfastness<sup>(2)</sup></b>	EN 438/2.27	contrast	grey scale rating	$\geq 4$
<b>Flexural strenght</b>	EN ISO 178	stress	Mpa	$\geq 80$
<b>Flexural modulus (E)</b>	EN ISO 178	stress	Mpa	$\geq 9.000$
<b>Density</b>	ISO 1183-1	density	gr/cm <sup>3</sup>	$\geq 1,35$

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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 INFORMATION

- 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.