

# LAMICOLOR<sup>®</sup>

## LAMCO HPL METALLI (MTS-MTP) (pr EN 438-8)

Material consisting of layers of kraft paper impregnated with thermosetting resins and of a lacquered aluminium foil on the surface; all is pressed and bonded together by means of high pressure (9MPa) and heat (150°C) .

<b>PROPERTY</b>	<b>TEST METHOD (EN 438-8: 2005)</b>	<b>PROPERTY or ATTRIBUTE</b>	<b>UNIT</b>	<b>VALUE</b>
<b>Thickness</b>	EN 438-2.5	<i>thickness</i>	mm	0,9 ± 0,10
<b>Resistance to immersion in boiling water</b>	EN 438-2.12	<i>appearance</i>	<i>core delamination</i>	<i>pass</i>
<b>(180° C) Resistance to dry heat</b>	EN 438-2.16	<i>appearance</i>	<i>rating</i>	≥ 3
<b>Dimensional stability at elevated temperature</b>	EN 438/2.17	<i>cumulative dimensional change</i>	% long. % transv.	≤ 0,75 ≤ 1,25
<b>Resistance to cracking (thin laminates)</b>	EN 438-2.23	<i>appearance</i>	<i>rating</i>	≥ 4
<b>Resistance to scratching</b>	EN 438-2.25	<i>force</i>	<i>rating</i>	≥ 1
<b>Formability (for PF type)</b>	EN 438/2.32	<i>radius</i>	mm	see enclosure
<b>Density</b>	ISO 1183	<i>density</i>	gr/cm <sup>3</sup>	≥ 1,40

- vertical indoor applications only
- *not advised in areas with high humidity rate*
- *pay attention to the direction of the finish*

## Enclosure

**Balancing** Because LAMCO HPL METALLI has different physical characteristics from LAMCO HPL, it is advisable for composite panels to use one material on both sides, to obtain a balanced panel . When using other materials as a balancer, including LAMCO HPL, it will be necessary to carry out preliminary tests.

**Gluing** It is possible to glue this material to the same cores commonly used for LAMCO HPL, using the same types of glue. During the gluing operation in hot presses, a temperature of 60° C must not be exceeded. The recommended pressure is 1.5 - 2.0 kg/cm<sup>2</sup> . A protective sheet between the press top and the metal surface must be used.

\* **Formability** It is not possible to state precise instructions for every different postforming technology, so it is advisable to carry out preliminary bending tests. This will be helpful to determine the correct conditions of one's own bending machine in reference to the material being used.

Generally, these laminates may be bent on stationary bending machines for HPL with conventional rod at lower temperatures than those applied for LAMCO HPL PF. The decorative surface must not come into contact with the heating rod; the same is valid for heating by infra-red rays.

The advice concerning LAMCO HPL Postforming have not to be considered as a reference for this particular material.