

# Formica® Magnetic Laminates

Formica® Magnetic Laminates are high pressure laminates with a decorative face and an embedded metal foil layer that ensures magnetic objects will hold strongly to the laminate surface.

This feature provides a unique product that delivers a large scale magnetic surface. Depending on the surface finish applied, it can also provide a surface that can be written on and easily cleaned to serve a variety of vertical wall and panel installations.

## APPLICATIONS

Formica Magnetic Laminates are ideal for a range of vertical surfacing options where magnetic surfaces are required, writeable and cleanable surfaces are sought, or a combination of both.

Specific applications based on the surface finishes are:

- Glossy White - whiteboards, meeting room, writeable walls, classroom walls for displaying drawings, pictures and/ or writing on the wall, residential applications for writeable splashbacks, such as laundries.
- Matt Black - blackboards and chalkboards, teaching environments, children's bedroom wall surfaces or feature panels, kitchen door panel surfaces or splashbacks (except behind cooktop zones) where lists and notes can be kept.

## PRODUCT CHARACTERISTICS

Size:	2440 x 1220mm, 3050 x 1220mm
Nominal thickness:	1.0mm
Weight:	2.8kg/m <sup>2</sup> approx.

## PROPERTIES

Property	Result	Unit
(Typical physical properties when tested to AS/NZS 2924.1 –VGS grade)		
Resistance to surface wear	>550	Revolutions
Resistance to impact (small ball)	>35	N
Resistance to scratching	>1.5	N
Resistance to staining	No effect	Visual appraisal (Groups 1–4)
Resistance to colour change - Glossy White	Very slight effect	Grey scale
- Matt Black	No effect	Grey scale
Dimensional stability at elevated temperature:	0.08	% (longitudinal direction)
	0.12	% (transverse direction)
(Typical physical properties when tested to EN 717-1):		
Formaldehyde Emissions	0.02	mg/m <sup>3</sup>
(Typical emissions when tested to ASTM D5116):	0.024*	mg/m <sup>2</sup> /hr
VOC Emissions		

\*Conforms to NZ Green Building Council Green Star Office Interiors 2009 IEQ-3 limit of <0.5mg/m<sup>2</sup>/hr.



## Notes

- Only recommended writing materials and cleaning procedures should be used (see Care & Maintenance section of this document).
- Formica Magnetic Laminates are only suitable for vertical applications. They are not recommended for heavy usage applications, such as worktops, bars and tables.

*Warning: Due to the embedded metal foil that ensures a magnetic capability, fabricating of the laminates will most likely create sparks. Please take necessary safety precautions as set out within the Fabrication Guidelines section of this document. Due to the metallic inclusion all electrical fittings/ attached appliances need to meet electrical industry earthing standards.*

- Formica Magnetic Whiteboard Laminates are only suitable for vertical applications. They are not recommended for heavy usage applications, such as worktops, bars and tables.

## FIRE PERFORMANCE

The Group Number Classifications are generated from tests carried out and data recorded in accordance with the test procedure described in ISO 5660 2002 - Reaction to Fire test - Part 1: Heat Release & Part 2: Smoke Production Rate, for the purpose of determination of the Group Classification in accordance with the New Zealand Building Code Verification Method C/ VM2 Appendix A.

## Group Number Classification - 3

## WHEN SPECIFYING

“Vertical surfacing shall be Formica Magnetic Laminates as supplied by Laminex New Zealand. Colour/Finish shall be .....

## CARE AND MAINTENANCE

Formica Magnetic Laminates can be cleaned with non-abrasive or non-harsh alkaline cleaning agents. Do not use abrasive scourers and cleaners, even those in liquid form, as these may permanently reduce the stain resistance of the surface. These laminates should only be cleaned using a soft, moist cloth or moist chamois and then dried with a soft dry cloth.

Before the first use, peel off the protective plastic film and clean the surface to remove any adhesive residue.

### Glossy finish

Suitable for marking with whiteboard markers (not permanent markers). Once dry, these markings can be wiped off using a soft dryboard eraser or soft cloth, such as a microfibre cloth.

There is no guarantee that Formica Magnetic Laminates can always be cleaned so that they are completely free of residue or markings, because the use and quality of marker pen is beyond our control. The age, operating time and storage of board markers have a big impact on the cleaning result. Please check the recommendations by the manufacturers of the marker pen before use.)

For a thorough cleaning, we recommend the use of Isopropyl Alcohol (IPA) and a soft cloth.

### Matt finish

Suitable for use with marking chalk or liquid chalks. Use a soft dry board eraser or soft cloth to wipe dry board. Due to the matt nature of the surface it cannot always be wiped completely clean in the dry condition. For complete cleaning use a soft moist cloth.

## STORAGE

Formica Magnetic Laminates must be stored in an area closed off from external conditions, kept dry at room temperature and with a relative humidity around 50–60%. Sheets must be stored horizontally and well supported with evenly spaced supports, at a distance of at least 200mm from the floor.

Protect the stored sheets from:

- moisture or water
- exposure to direct sunlight
- hot air currents
- direct exposure to heat, e.g. light bulbs or

other heat sources.

The surface temperature of the laminate sheet should not exceed 70°C.

## FABRICATION GUIDELINES

Formica Magnetic Laminates should be bonded to high quality substrates using cross linked PVA or contact adhesive and balanced by a laminate of the same thickness to the rear of the panel to minimise bowing.

If using the Glossy finish laminate take care to keep the glue line as smooth as possible to minimise any ‘telegraphing’ of uneven underlying surfaces through to the gloss surface. When using hot glues or adhesives the temperature should not exceed 60°C (140°F).

When pressing the laminate to a substrate, a thin protective soft layer (e.g. paper) should be placed on top of the decorative surface to protect it from damage.

Avoid excess glue coming into contact with the unprotected laminate surface. Use only sufficient pressure to ensure a good bond. Formica Magnetic Laminates can be sawn, milled and drilled using good quality sharp carbide-tipped tools. Circular saws with a trapezoidal saw tooth pattern are suitable and the following guidelines are recommended:

- minimum speed of 5,000rpm
- feed rate of 4–5 metres/minute
- avoid break out of the reverse side by using a pre-scoring blade to score the underside and avoid metal splinters and burrs
- When such scoring equipment is not available, a smooth fibreboard should be laid underneath the laminate during the cutting process.

*Warning: Fabricating this laminate material may create sparks. Please take care by using appropriate personal protective equipment, especially protective glasses or goggles. Please ensure that processing takes place with the disconnection of any dust extraction or exhaust system to avoid sparks entering these systems.*

During cutting and machining a slight burring may occur on the new edge (Please take care and use personal protective equipment when handling cut sheets to avoid any chance of personal injury from sharp or burred edges.). This can be removed by careful use of a fine metal file.

Take care not to get any metal burrs on the surface of the laminate sheet and do not drag or slide sheets or boards over the laminate surface, so that any surface damage can be avoided.

## JOINTING

Where more than one panel is required the individual pre-fabricated panels will need to be installed over existing linings or direct to timber or steel framing with an expressed joint between. Jointing options include; negative detail, chamfered butt edge, aluminium jointers, and timber mouldings. Proprietary jointing systems such as GIB ReadyLock may also be considered.