

Formica® Magnetic Metallic Laminates

Formica® Magnetic Metallic 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 panel 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 walling and panel installations.



APPLICATIONS

Formica Magnetic Metallic 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.

Typical applications could include school or university classroom walls, office wall or partition surfacing, meeting and board rooms, restaurant menu boards, children's bedroom feature wall surfaces or kitchen panels and splashbacks (except behind cooktop zones).

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.

Notes:

- Only recommended writing materials and cleaning procedures should be used (see Care and Maintenance section of this document).
- Formica Magnetic Metallic 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 sheets will most likely create flying sparks. Please take necessary safety precautions as set out within the Fabrication Guidelines section of this document.

PRODUCT CHARACTERISTICS

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

PROPERTIES

(Typical physical properties when tested to AS/NZS 2924.1 – VGS grade)		
Property	Result	Unit
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 Matt Black	Very slight effect	Grey scale
	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 ³
(Typical emissions when tested to ASTM D5116):		
VOC Emissions	0.024*	mg/m ² /hr

*Conforms to Green Building Council of Australia – Green Star Office Interiors v1.1 IEQ-11 limit of <0.5mg/m²/hr

FIRE HAZARD INDICES

(When tested to AS/NZS 1530.3 – 1999)

Indices	Result	Range
Ignitability	11	0 to 20
Spread of Flame	8	0 to 10
Heat Evolved	5	0 to 10
Smoke Developed	6	0 to 10

FIRE TEST RESULTS

(According to Specification c1.10 of the Building Code of Australia)

Average Specific Extinction Area: 25.0 m²/kg

BCA Group Number = 2

WHEN SPECIFYING

"Vertical surfacing shall be Formica Magnetic Metallic Laminates as supplied by Laminex. Colour/Finish shall be"

CARE AND MAINTENANCE

Formica Magnetic Metallic 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 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 in the recommended way to remove any adhesive residue.

Glossy finish: is suitable for marking with whiteboard markers (not permanent markers). Once dry, these markings can be wiped off using a soft dry board eraser or soft cloth, such as a microfiber cloth.

(There is no guarantee that Formica Magnetic Metallic Laminates can always be cleaned so that they are completely free of residue or markings, because the use and quality of markers is beyond our control. Please check the recommendations by the manufacturers of the markers before use).

Matt finish: is suitable for use with marking chalk or liquid chalks. Due to the matt nature of the surface it cannot always be wiped completely clean in the dry condition. Use a soft dry board eraser or soft cloth to wipe dry board, or recommended cleaning agents and procedures for complete cleaning using a wet process.

STORAGE

Formica Magnetic Metallic 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 Metallic Laminates should be bonded to only high quality substrates using Trade Essentials Contact Adhesives. 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 metallic 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 Metallic Laminates can be sawn, milled and drilled using good quality and sharp carbide-tipped tools. Circular saws with a sufficiently high number of teeth and 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
- where 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 flying sparks. Please take care by using appropriate personal protective equipment, especially protective glasses or goggles. Please also 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.