

TECHNICAL DATA

Motivi 5 mm Compact Laminate

Motivi Compact Laminate is an innovative and durable decorative panel, with a heat-resistant black core, based on curable resins. It is a multilayer structure of kraft paper impregnated with phenolic resins that are laminated under high pressure and heat.

Ideal use for vertical wet area surface panels and kitchen splashbacks. Fabricators benefit from the ease of processing and installing and end consumers benefit from the visually appealing decors and easy to clean surfaces.

Motivi heat-resistant 5 mm Compact Laminate has been tested in accordance with the requirements of AS 4551-2008, incorporating all amendments up to and including amendment 2-2012. The Motivi 5 mm Compact Laminate was also evaluated to clause 6.2.5 of AS601.1-2013 incorporating amendment 1-2015.

This material is not a fire resistant material in accordance with AS/NZS 5601.1; and additional protection may be needed for combustible materials when installed adjacent to gas appliances where minimum clearances cannot be met.

PRODUCT CHARACTERISTICS

- Visually appealing and elegant
- Robust and durable
- Effortless to install
- Luxurious and elegant finish
- Resilient and easy to care surface
- No subsequent edge or surface finishing required
- Homogenous material for precise processing
- High moisture resistance
- Heat resistant to AS5601.1

PRODUCT APPLICATION

Thanks to the durable and robust qualities of compact laminate, it is ideal solution for interior applications that are subject to high stress and where there are increased demands for cleanliness and hygiene: wall panelling, splashbacks, and applications in moisture-prone areas, bathrooms and laundries.

Double sided panels are as per below:



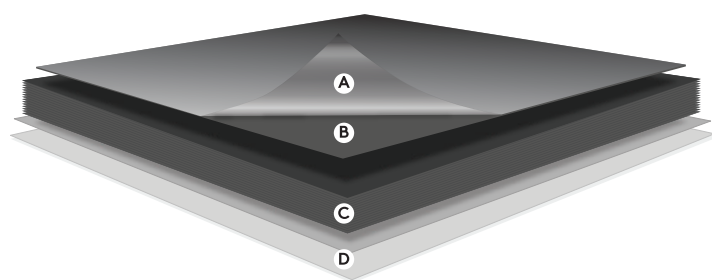
TECHNICAL DATA

Motivi 5 mm Compact Laminate

DECORS

Motivi Compact Laminate is 5 mm thick with a protective film applied to both sides -each side has a different colour decor; please see previous page for double sided colours.

COMPACT LAMINATE COMPOSITION



- A** Overlay (Double-Sided)
- B** Impregnated Decorative Papers
- C** Impregnated Phenolic Resin Core Papers
- D** Impregnated Decorative Papers

STORAGE AND PROCESSING

Compact Laminate is wood and kraft paper based, the product is required to climatise for at least 24 hours to minimise movement after application. The compact laminate must be stored on a flat level horizontal, position. Direct floor contact and/or exposure to the sun must be avoided in all cases. When moving a sheet, lift it to prevent scratches on the surface.

PROCESSING

Compact Laminate can be easily processed like other wood based materials. Carbide metal tools are mainly used. Choosing diamond tipped tools is recommended for large quantities and when machining centres are used. Despite the good dimensional stability of compact laminate, changes in the surrounding conditions may affect the board. An expansion play of 2.0 mm per 1 metre should be generally allowed.

Mitring of edges should be avoided as they are vulnerable to damage. Compact Laminate can be glued to each other and to almost any other material with one or two part adhesives e.g. epoxy or polyurethane adhesive systems.

AS/NZS 1530.3-1999

Methods for Fire Tests on building materials, components and structures

Regulatory Indices

Ignitability Index	0 Range 0-20
Spread of Flame Index	0 Range 0-10
Heat Evolved Index	0 Range 0-10
Smoke Developed Index	4 Range 0-10

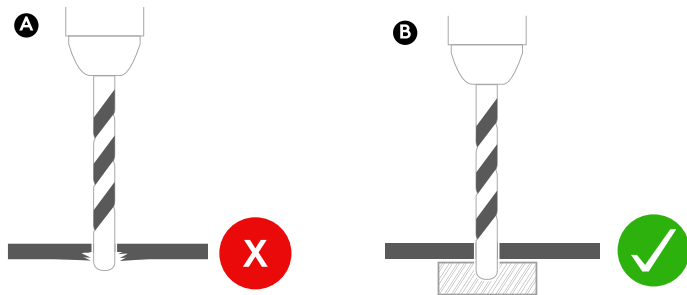
TECHNICAL DATA

Motivi 5 mm Compact Laminate

nikpol

Routing – if panels are supplied with a protective film do not remove it, remove it just before installation. If the film burns or melts during routing remove only the film in the edge areas.

Drilling – HSS drill, top angle 60-80 degree. Panels should be drilled with support sheets to avoid chipping.



- A** Drilling without any support sheet
- B** Drilling with a support sheet

DIMENSIONS/TOLERANCES

Thickness:	5 mm
Standard Size:	3660 x 1400 mm
Maximum Finished Height:	3650 mm
Maximum Finished Width:	1390 mm

Tolerances

Nominal Thickness (mm)	- 5 mm
Thickness Tolerance (mm)	+/- 0.3 mm
Length Tolerance (mm)	+/- 1.5 mm up to 2.0 m +/- 2.0 mm over 2.0 m
Width Tolerance (mm)	+/- 1.5 mm up to 2.0 m +/- 2.0 mm over 2.0 m

Warping Tolerance of up to 8 mm per metre measured when sitting upright.

CARE AND CLEANING

The non-porous surface is easy to clean. For general cleaning of standard interior applications, household cleaners, water or soap are highly recommended. The use of abrasive or polishing materials should not be used.

The surfaces of Motivi Compact Laminate can be easily cleaned with a dry or damp cloth and if necessary a mild household cleaner. Wipe damp surfaces with an absorbent cloth. Alternatively the panels can be steam cleaned.



COMPACT LAMINATE TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT(max or min)	VALUES	
				CGS	CGF
SURFACE QUALITY					
Surface Quality	EN 438-4	Spots, dirt and similar surface defects	mm ² /m ²	≤1	
		Fibres, hairs and scratches	mm/m ²	≤10	
DIMENSIONAL TOLERANCES					
Dimensional Tolerances	EN 438-2.5	Thickness tolerance	mm	2,0 ≤ t < 3,0 : ±0,20	
			mm	3,0 ≤ t < 5,0 : ±0,30	
			mm	5,0 ≤ t < 8,0 : ±0,40	
			mm	8,0 ≤ t < 12,0 : ±0,50	
			mm	12,0 ≤ t < 16,0 : ±0,60	
			mm	16,0 ≤ t < 20,0 : ±0,70	
	EN 438-2.6	Length and width	mm	+10/-0	
	EN 438-2.7	Straightness of edges	mm/m	≤1,5	
	EN 438-2.8	Squareness	mm/m	≤1,5	
EN 438-2.9	Flatness	mm/m	2,0 ≤ t < 6,0 : ≤8		
		mm/m	6,0 ≤ t < 10 : ≤5		
		mm/m	10,0 ≤ t : ≤3		
GENERAL PROPERTIES					
Resistance to surface wear	EN 438-2.10	Initial Point Wear Value	Revolutions Revolutions	≥150 ≥350	
Resistance to immersion in boiling water	EN 438-2.12	Mass increase - 2 ≤ t < 5	%	5,0	7,0
		Mass increase t ≥ 5	%	2,0	3,0
		Thickness increase 2 ≤ t < 5	%	6,0	9,0
		Thickness increase t ≥ 5	%	2,0	6,0
		Appearance-Gloss Finish	Rating (min)	3	
Resistance to water vapour	EN 438-2.14	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to dry heat (180°C)	EN 438-2.16	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to wet heat (100 °C)	EN 12721:2010	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change 2 ≤ t < 5	Longitudinal %	≤0,40	
		Cumulative dimensional change t ≥ 5	Longitudinal %	≤0,30	
		Cumulative dimensional change 2 ≤ t < 5	Transversal %	≤0,80	
		Cumulative dimensional change t ≥ 5	Transversal %	≤0,60	
Resistance to impact with large diameter ball	EN 438-2.21	Indentation diameter 2 ≤ t < 6	mm	h 1400/ d ≤ 10	
		Indentation diameter t ≥ 6	mm	h 1800/ d ≤ 10	
Resistance to crazing	EN 438-2.24	Appearance	Rating (min)	4	
Resistance to scratching	EN 438-2.25	Appearance-Smooth Finish	Rating (min)	2	
		Appearance-Textured Finish	Rating (min)	3	
Resistance to staining	EN 438-2.26	Appearance-Group 1&2	Rating (min)	5	
		Appearance-Group 3	Rating (min)	4	
Light fastness (Xenon-arc)	EN 438-2.27	Contrast	Grey scale rating	4	
Resistance to cigarette burns	EN 438-2.30	Appearance	Rating (min)	3	
Flexural modulus	EN ISO 178	Stress	Mpa (min)	9000	
Flexural Strength	E NISO 178	Stress	Mpa (min)	80	
Tensile Strength	EN ISO 527-2	Stress	Mpa (min)	60	
Density	EN ISO 1183	Density	g/cm	≥1,35	
FIRE PERFORMANCES					
Reaction to fire /CGS	EN 13823	Classification- t: 6 mm-10 mm	Classification	D-s2, d0	
Reaction to fire /CGF	EN 13823	Classification: t:6 mm	Classification	C-s2, d0	
OTHER PROPERTIES					
Formaldehyde emission	EN 717-2	Gas analysis	mg/(m ² *h)	0,5	
		Classification	Rating	E1	

TECHNICAL DATA

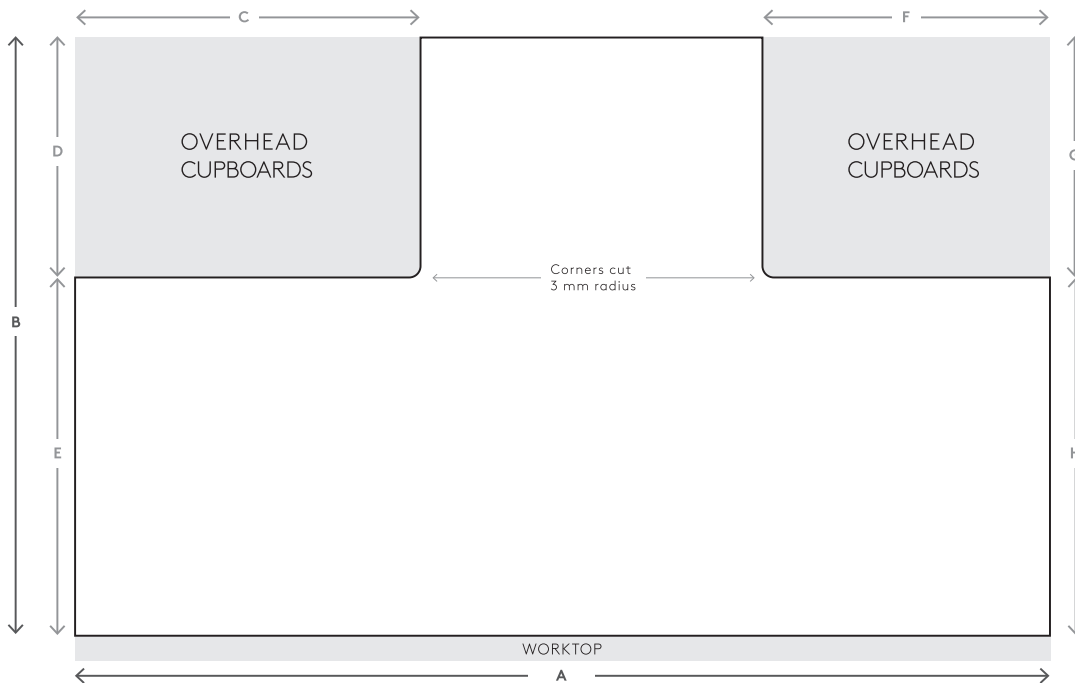
Motivi 5 mm Compact Laminate

TOTAL SPASHBACK SIZE

- A Width
- B Height

CUT TO MEASURE

- C Overhead cupboard width
- D Overhead cupboards height
- E Under cupboard height
- F Overhead cupboards width
- G Overhead cupboards height
- H Under cupboard height



INSTALLATION

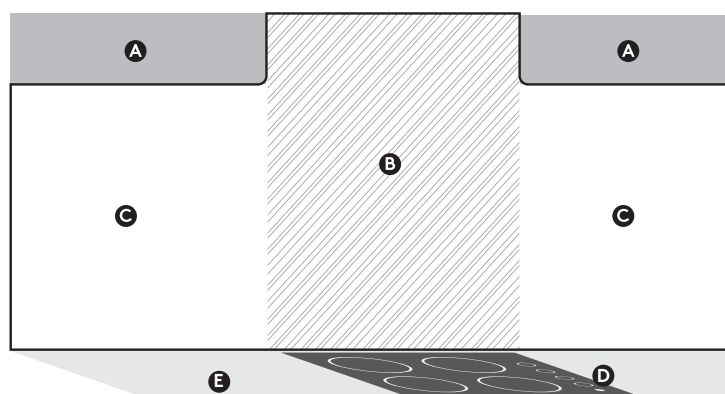
Check the colour of your splashback or wall panel prior to installation, as splashbacks are double sided with a different decor per side.

The minimum distance from the rear edge of the gas burner to the splashback should be 150 mm, if any closer may blister or discolour. Joins should be a minimum of 300 mm away from the cooktop.

HEAT TOLERANCE

The minimum distance of a heated pot to the splashback 50 mm.

1.0 Ensure a fire-rated cement sheet is installed behind the compact laminate adjacent to the cooktop, prior to fixing splashback to the wall.



- A** Overhead Cupboards
- B** Fire-rated cement sheeting
- C** Wall/brick/plaster board
- D** Stovetop
- E** Worktop

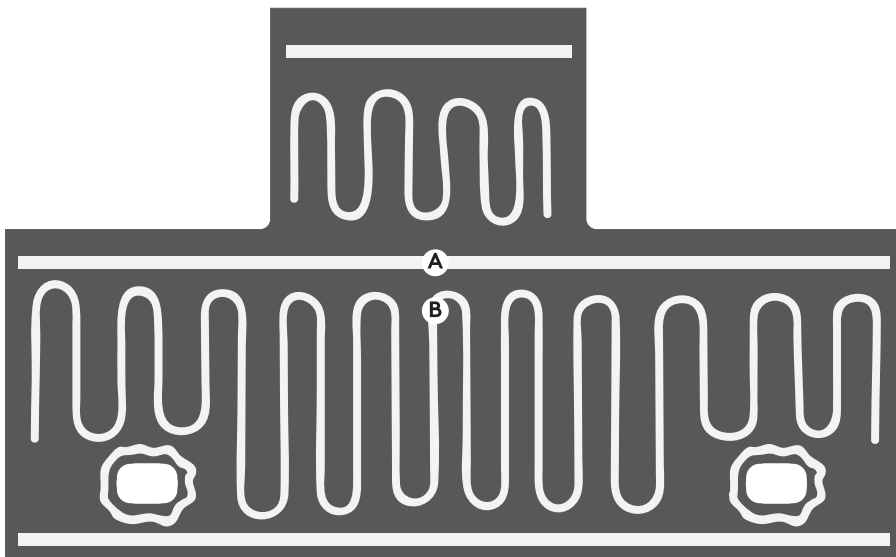
TECHNICAL DATA

Motivi 5 mm Compact Laminate

- 2.0 Ensure walls and surfaces are smooth, free from dirt and completely dry.
- 3.0 Remove protective film to the back side of the panel and scuff the rear surface with coarse scouring pad or 120 grit sandpaper, before applying adhesive to ensure adequate bonding.

ADHESIVE APPLICATION

Apply two horizontal strips of double sided tape to the panel, a 6 mm bead of translucent neutral cure silicone or constructive adhesive in a wavy pattern between each tape strip. Run a bead of silicone on the rear panel around any holes or cut outs as well. Press panel into place allow at least 24 hours for the silicone to cure. After silicone has cured, apply a thin bead of neutral cure silicone around exposed edges and finish with a spatula. After silicone has cured remove then protective film.



Back of Motivi 5mm Compact Laminate

- A** Double Sided Tape
- B** Silicone/Adhesive

*For optimal results, we recommend to put additional silicone/adhesive around the powerpoint hole/s.