



# Laminate Benchtops

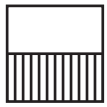
## Technical Data Sheet

Formica® Benchtops are made using a durable, thin laminate bonded and ABS edged around a Moisture Resistant Particleboard, offering a contemporary square-edge-look. Each benchtop comes with additional laminate edging strips supplied, which makes light work of fabrication and installation.

### APPLICATIONS

- Kitchens
- Butler's Pantry
- Bathroom Vanities
- Laundry
- Desks and Tabletops

### FUNCTIONAL BENEFITS



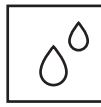
Horizontal Application



Stain Resistant



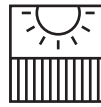
Heat Resistant



Water Resistant



Scratch Resistant



UV Stable Indoor Use

## Product Characteristics

ATTRIBUTE	DESCRIPTION
Product Category	Componentry
Substrate Type	Moisture Resistant E1 Particleboard
Sheet Size (nominal)	2400mm x 600mm
Thickness (nominal)	26mm
Edge Detail	ABS Square Edged
Weight (Kg/m <sup>2</sup> approx.)	18.2
Finish	Velour
Colour/Pattern	To view the full range, please visit <a href="http://www.formica.com.au">www.formica.com.au</a>

# Formica® Laminate Benchtops

## Technical Data Sheet

---

### Dimensional Tolerance

(Tested to ISO 4586-2)

ATTRIBUTE	MEASUREMENT
Thickness	± 0.6mm
Length and Width	± 4.0mm
Squareness	≤ 2mm (variation in diagonal measurement)
Flatness	1.5mm/m maximum deviation

---

### Surface Quality

(Tested to ISO 4586-2)

ATTRIBUTE	MEASUREMENT
Inspection Guidelines	Viewing distance 0.75 to 1.5m from laminate surface Light intensity approximately 800 to 1000 lx at the laminate surface Using normal vision, corrected if necessary. No magnification devices
Dirt, Spots & Similar Surface Defects	The admissible size of defects is based on a maximum contamination area equivalent to 1.0mm <sup>2</sup> /m <sup>2</sup> and is proportional to the sheet size under inspection  The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects
Fibres, Hairs & Scratches	The admissible size of defects is based on a maximum contamination length equivalent to 10mm/m <sup>2</sup> and is proportional to the sheet size under inspection  The total admissible length of contamination may be concentrated in one defect or dispersed over an unlimited amount of smaller defects

# Formica® Laminate Benchtops

## Technical Data Sheet

### Surface Performance

(Tested to ISO 4586-2)

ATTRIBUTE	MEASUREMENT	
Resistance to Surface Wear	Initial wear $\geq$ 150 cycles. Average wear $\geq$ 350 cycles	
Resistance to immersion in boiling water	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles	
Resistance to water vapour	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles	
Resistance to Wet Heat at 100°C	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles	
Resistance to Dry Heat at 180°C	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles	
Dimensional stability at elevated temperature	Longitudinal direction: Maximum cumulative change 1.10 % Transverse direction: Maximum cumulative change 1.40 %	
Dimensional stability at ambient temperature	Longitudinal direction: Maximum cumulative change 1.10 % Transverse direction: Maximum cumulative change 1.40 %	
Resistance to Impact by Small Diameter Ball	Force $\geq$ 20 Newton	
Resistance to cracking under stress	Appearance rating not worse than 4 Hairline cracks only visible under 6X magnification	
Resistance to Scratching	Rating = 3 (Force $\geq$ 2 Newton)	
Resistance to Staining	Groups 1 & 2     Acetone Coffee (120g of coffee per litre of water)	Appearance rating not worse than 5 No visible change
	Group 3     Sodium hydroxide (25% solution) Hydrogen peroxide (30% solution) Shoe polish	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles
Lightfastness	Contrast: Grey scale rating $\geq$ 4 When tested in contrast with Blue wool 6 Ref: ISO 105-A02	

### Adhesion Performance

(Tested to AS/NZS 4266.2)

ATTRIBUTE	MEASUREMENT
Bond Strength	$\geq$ 1.3MPa

# Formica® Laminate Benchtops

## Technical Data Sheet

### Substrate Performance

(Tested to AS/NZS 4266.1)

ATTRIBUTE	UNITS	MEASUREMENT	
		23 – 33MM	
		MINIMUM VALUES	TYPICAL VALUES
Thickness Tolerance	mm	±0.3	±0.3
Density	Kg/m <sup>3</sup>	-	610 ± 30
Internal bond	MPa	0.25	0.50 – 0.65
Modulus of Rupture	MPa	10	12 – 15
Modulus of Elasticity	MPa	1500	2500 - 2800
Surface Soundness	MPa	0.9	1.2 - 1.5
Screw Holding, Face	Force N	1000	1000 - 1200
Screw Holding, Edge	Force N	600	600 - 700
Thickness Swell (24hr)	%	(Max) 12.0	6.5 – 10.0
Wet Bending Strength (Method A)	MPa	4.0	4.0 – 4.5
Formaldehyde	mg/L	≤ 1.5	E1 ≤ 1.5

#Table contains representative values only. Performance variation outside stated typical values does not constitute a product failure.

### Specialty Performance

ATTRIBUTE	TESTED TO:	TYPICAL VALUES		
Fire Hazard Properties	AS/NZS 3837 (In accordance to AS5637.1)	Laminate Surface	Group Number	2
			Average Specific Extinction Area (ASEA)	64.3 m <sup>2</sup> /Kg
		Particleboard Substrate	Group Number	3
			Average Specific Extinction Area (ASEA)	55.8 m <sup>2</sup> /Kg

Note: In accordance with AS 5637.1, the Group Number of a multi-layered product is defined as the highest group number achieved. The Formica Laminate Benchtop is thus declared as a Group 3 product.

# Formica® Laminate Benchtops

## Technical Data Sheet

### Emissions & Environmental Performance

ATTRIBUTE	TESTED TO:	UNITS	MEASUREMENT
Formaldehyde	AS/NZS 1859.1	mg/L	E1 ≤ 1.5
Volatile Organic Compounds (VOC's)	ASTM D5116	mg/m <sup>2</sup> /h	≤ 0.5

### Important Information

NOTE	DETAILS
<b>W</b> ONLY use for internal applications	Claims arising from non-internal applications are not covered under warranty
<b>W</b> DO NOT use for laboratory benchtops	Claims arising from use as a benchtop in laboratories with expected chemical use are not covered under warranty
<b>W</b> DO NOT use with undermount sink	Claims arising from water ingress, delamination or other faults directly attributable to the installation of an undermounted sink, are not covered under warranty
<b>W</b> DO NOT expose to prolonged direct or indirect UV light	Claims arising from prolonged exposure to UV light (natural or artificial sources) resulting in shrinkage and/or colour changes beyond the tolerances stated in this document, are not covered under warranty Claims arising from use in windowsill applications are not covered under warranty
<b>W</b> Use of different surface materials within a single installation may result in a perceived visual variation	Claims arising from colour, gloss or finish variation between different product groups, including products with different UV or aging stabilities, are not covered under warranty
<b>W</b> Use of directional designs or finishes in opposing orientations may result in a perceived visual variation	Claims arising from colour, gloss or finish variation directly attributable to surface directionality, are not covered under warranty
<b>W</b> ALL material must be inspected prior to commencing any fabrication activity	Claims arising from defects or variation clearly detectable prior to fabrication, will not be covered under warranty for labour costs or penalties
<b>W</b> DO NOT leave the edges unsealed	Claims arising from the effect of heat or moisture ingress attributable to exposed edges of panels, are not covered under warranty
<b>W</b> DO NOT apply a coating to the surface	Claims arising from surface defects or other failure modes directly attributable to the application of paint or other surface lacquering systems, are not covered under warranty
<b>W</b> DO NOT expose to heat, hot gases or moisture	Claims arising from frequent or excessive exposure to heat or moisture are not covered under warranty Claims arising from damage due to hot objects, such as saucepans or irons, contacting the decorative surface, are not covered under warranty
<b>W</b> DO NOT use decorative face as a cutting surface	Claims arising from physical damage of the decorative surface are not protected under warranty
<b>W</b> ONLY use recommended Care & Maintenance methods <sup>^</sup>	Claims arising from staining or damage attributable to not following Care & Maintenance instructions, are not covered under warranty

<sup>^</sup> Refer to the Formica Decorative Laminate - Velour Care and Maintenance Guide.

**W** Denotes specific warranty conditions apply.