



Compact Laminate

Alfresco

Summary

Laminex Compact Laminate - Alfresco with Protec+™ antimicrobial surface performance, is an exterior grade decorative panel manufactured under high pressure and temperature with UV inhibitors. The distinctive black core eliminates the need for edge treatment. Panels are durable for use in Alfresco applications.

Applications

- Benchtops
- Furniture
- Partitions
- Store Fixtures
- Decorative Wall Panelling
- Table Tops
- Alfresco Cabinetry



Functional Benefits







Vertical Application



Stain Resistant



Heat Resistant



Water Resistant



Tactile



Scratch Resistant



Covered Outdoor



Antimicrobial

Product Characteristics

Attribute	Description
Product Category	Compact Laminate
Substrate Type	Black Core
Sheet Size	3600x1500mm
Thickness (nominal)	13mm
Weight (Kg/m2 approx.)	18.5
Decorative Surfaces	Double Sided (D/S)
Finish	Carbide
Colour/Pattern/Size	To view the full range, please visit www.laminex.com.au for the National Availability Guide

Dimensional Tolerance (Tested to EN 438-4)

Attribute	Description	
Thickness	12.0 ≤ t < 16.0 mm ± 0.60 mm	
Length and Width	10mm/-0mm	
Flatness	10.0 < t : 3,0 mm/m maximum deviation	
Straightness of edges*	1.5 mm/m maximum deviation	
Squareness*	1.5 mm/m maximum deviation	

[#] Provided the laminates are stored in the manner and conditions recommended by the manufacturer, they shall comply with the flatness requirements specified in the above table when measured in accordance with EN 438-2, Clause 9. The flatness values specified in the above table apply to laminates with two decorative faces. Limits for laminates with one face sanded shall be agreed between supplier and customer.

^{*} Tolerances for cut-to-size panels shall be agreed between supplier and customer.





Surface Quality (Tested to EN438-2:2005)

Attribute	Minimum Values		
	Viewing distance 0.75 to 1.5m from laminate surface		
Inspection Guidelines	Light intensity approximately 800 to 1000 lx at the laminate surface		
	Using normal vision, corrected if necessary. No magnification devices		
Dirt, Spots & Similar Surface	The admissible size of defects is based on a maximum contamination area equivalent to $1.0\text{mm}^2/\text{m}^2$ and is proportional to the sheet size under inspection		
Defects	The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects		
Fibura Univa 9. Cauntahaa	The admissible size of defects is based on a maximum contamination length equivalent to 10mm/m² and is proportional to the sheet size under inspection		
Fibres, Hairs & Scratches	The total admissible length of contamination may be concentrated in one defect or dispersed over an unlimited amount of smaller defects		

Surface Performance (Tested to EN 438-2)

Attribute		Minimum Values
Surface Wear	Surface Wear	Initial wear ≥ 150 cycle
		Average wear ≥ 350 cycles
	Immersion in	≥ 2%
	Boiling Water	Slight change of gloss and/or colour, only visible at certain viewing angles
	Water Vapour	Appearance rating not worse than 4
Resistance to	water vapour	Slight change of gloss and/or colour, only visible at certain viewing angles
Resistance to	Wet Heat at	Appearance rating not worse than 4
	100°C	Slight change of gloss and/or colour, only visible at certain viewing angles
	Dry Heat at	Appearance rating not worse than 4
	180°C	Slight change of gloss and/or colour, only visible at certain viewing angles
	cracking under	Appearance rating not worse than 4
	stress/crazing	Hairline cracks only visible under 6X magnification
Dimensional sta	bility at elevated	Longitudinal direction: Maximum cumulative change 0.30 %
temperature		Transverse direction: Maximum cumulative change 0.60 %
Lightfastness		Contrast: Grey scale rating ≥ 4
		When tested in contrast with Blue wool 6 Ref: ISO 105-A02

Specialty Performance - Weather Resistance Properties

Property	Test Method (EN438-2 Clause No.)	Property or Attribute	Unit (Max. or Min.)	Laminate Grade EDS and EDF
		Appearance	Rating (min)	4
Resistance to Climatic Shock	19	Flexural strength index Ds	(min)	0.95
		Flexural modulus index Ds	(min)	0.95
		Contrast	Grey scale rating	3(after 1500 hours exposure)
Resistance to UV Light	28		(not worse than)	
		Appearance	Rating (min)	4 (after 1500 hours exposure)
Resistance to artificial		Contrast	Grey scale rating	3 (after 650 MJ/m² radiant exposure)
weathering (including light	29		(not worse than)	
fastness)		Appearance	Rating (min)	4 (after 650 MJ/m² radiant exposure)

Rating 3 Hairline surface cracks and/or erosion of surface. Rating 4 Change of gloss only







Emissions & Environmental Performance

Attribute	Tested to	Unit	Minimum Values	
Formaldehyde	ISO 12460-3	mg/m²h	≤ 3.5	

Fire Properties (Typical Values)

Attribute	Tested to	Unit	Requirement
Fire hazard indices	AS/NZS 1530.3		13mm
Ignitability		index	9
Spread of flame		index	9
Heat Evolved		index	6
Smoke Developed		index	4
Cone Calorimeter	AS/NZS 3837		
Group number			3
Average specific extinction area -13mm		m²/kg	97.4
Average specific extinction area – 6mm		m²/kg	61.9
Average heat release rate – 13 mm		Kw/m²	104
Average heat release rate – 6mm		Kw/m²	107

Physical Properties

Attribute	Tested to	Unit	Requirement
Modulus of elasticity	EN ISO 178	MPa	≥ 9000
Tensile strength	EN ISO 527-2	MPa	≥ 60
Flexural strength	EN ISO 178	MPa	≥ 80
Wear resistance	EN 438-2:10	Cycles initial	150
Wedi Tesistance	LIN 430-2.10	Cycles wear value	350
Steam resistance	EN 438-2:14	Rating Gloss/Other	3/4
Dry heat at 180°C	EN 438-2:16	Rating Gloss/Other	3/4
Stability at elevated temperature MD	EN 438-2:17	%	0.3 max
Stability at elevated temperature CD	EN 438-2:17	%	0.6 max
Impact resistance 13mm	EN 438-2:21	mm	1800
Crazing resistance	EN 438-2:24	Rating	4
Scratch resistance	EN 438-2:25	Textured	2N
Staining resistance	EN 438-2:26	Rating Group 1 & 2	5
Staining resistance	EN 438-2:26	Rating Group 3	4
Light fastness (xenon arc)	EN 438-2:27	Grey scale	4 to 5
Cigarette burn resistance	EN 438-2:30	Rating	3 min
Wet heat resistance at 100°C	EN 12721:1997	Rating Gloss/Other	3/4





Staining Agents & Groups (Tested to EN 438-4)

Attribute	Staining Agent		Test Conditions	Contact Time
Group 1	Other organic solvents	Salt (NaCl) solutions	Apply staining	16 hours
*Acetone	Toothpaste	Mustard	agent at ambient temperature	
	Hand cream	Lyes, soap solutions	temperature	
	Urine	Cleaning solution consiting of:		
	Alcoholic beverages	• 23% dodecylbenzene sulfonate		
	Natural fruit and vegetable juices	• 10% alkyl aryl polyglycol ether		
	Lemonade and fruit juices	• 67% water		
	Meats and sausages	Commercial disinfectants		
	Animal and vegetable fats and oils Water	Stain or paint removers based on organic solvents		
	Yeast suspension in water	Citric Acid (10% solution)		
Group 2	Coffee (120g of coffee per litre of water)	Black (9g of tea per litre of water)	Apply staining agent	16 hours
*Coffee		Milk (all types)	at approximately 80°C	
	Wine vinegar	Nail varnish remover	Apply staining	16 hours
	Alkaline-based cleaning agents (to 10%	Lipstick	agent at ambient temperature	
	concentration with water)	Water colours	temperature	
	Hydrogen peroxide (3% solution)	Laundry marking links		
	Ammonia (10% solution of commercial concentrate)	Ball point inks		
	Nail varnish			
Group 31	*Sodium hydroxide (25% solution)	*Shoe polish	Apply staining agent at ambient temperature	10 minutes
*Sodium hydroxide	*Hydrogen peroxide (30% solution)	Hair colouring and bleaching		
*Hydrogen peroxide	Concentrated vinegar (30% acetic acid)	agents		
*Shoe polish	Bleaching agents and sanitary cleaners containing them	lodine Boric acid		
	Hydrochloric acid based cleaning agents (≤ 3% HCI)	Lacquers and adhesives (except fast curing materials)		
	Acid-based metal cleaners	Amidosulfonic acid descaling		
	Mercurochrome (2,7-diabromo-4-hydroxymercurifluoresein, disodium salt)	agents (< 10% solution)		

¹⁾ Some commercial cleaning agents contain acids and alkalis in concentrations stronger than those shown in Group 3 and can cause surface marking or damage. Any spillage of such materials must be washed off immediately. Rating 5 Is equivalent to No visible change. Rating 4 is equivalent to Slight change of gloss and or colour, only visible at certain viewing angles.



Laminex Alfresco Compact with Protec+ contains antifungal and antibacterial resistant properties which do not wash off or leach out of the surface. It is safe for use in food preparation and processing activities and can be in direct contact with food, provided that good hygiene practices are followed.





Important Information

Note	Details
W ONLY use for internal/alfresco applications	Claims arising from non-internal applications are not covered under warranty
ONLY use compact laminate sheets within 12 months of purchase	Claims arising from sheets stored for longer than 12 months where storage/ environmental conditions cannot be maintained are not covered under warranty.
ALWAYS condition of panels prior to fabrication and installation	Claims attributable to failure to adhere to conditioning guidelines are not covered under warranty.
© DO NOT bond directly to plaster, plasterboard, masonry or concrete	Claims arising from bonding to non-recommended surfaces resulting in undulations telegraphing to the decorative surface or poor bonding, are not covered under warranty
DO NOT use in installations where a Group 1 or 2 fire resistant product is required	

(w) Denotes specific warranty conditions apply.

Warranty Document

To view the latest Warranty Document for this product, please visit www.laminex.com.au.

Care & Maintenance Document

To view the latest Care & Maintenance Document for this product, please visit www.laminex.com.au.

Safety Data Sheet

To view the latest Safety Data Sheet for this product, please visit www.laminex.com.au.

