

Technical Data Sheet

Fusion Composite Solid Surfaces feature a soft SuperMatte surface, incorporating Protec+® microbial resistant performance and fingerprint resistance functionality, with a complimentary coloured core.

Applications

Benchtops
Vanities
Desktops + tabletops
Induction splashbacks
Toilet partitioning
Lockers + seating
Wall panels

Product Attributes



prizontal Vertical







Resistant



Resistant



Impact

Resistant



Ultra Thin

Profile

Horizontal Application



Fingerprint Resistant

Protect+ Antimicrobial





SuperMatte Finish

LIV Stable

UV Stable Indoor Use

Induction

Splashback Installation

st Ex

Extra long slab size

Routing Capability

Made in Australia

Product Characteristics

PRODUCT CATEGORY	Composite Solid Surfaces			
SHEET SIZE (NOMINAL)	3600mm x 1500mm, 3600mm x 750mm			
THICKNESS (NOMINAL)	6mm 13mm			
WEIGHT (KG/M² APPROX.)	9.2	20		
FINISH	SuperMatte			
CORE COLOUR	Black, White, Pewter			
DECORATED SURFACES	Double Sided			
COLOUR/PATTERN	To view the full range, please visit www.laminex.com.au			

Dimensional Tolerance (Tested to ISO 4586-2)

ATTRIBUTE	MEASUREMENT
THICKNESS	± 0.50mm (panels with nominal thickness 6mm) ± 0.60mm (panels with nominal thickness 13mm)
EDGE DEFECTS	Defect free length and width within the nominal sheet size minus 20mm
LENGTH AND WIDTH	+10mm / -0mm maximum deviation
STRAIGHTNESS OF EDGES	1.5mm/m maximum deviation
SQUARENESS	≤ 6mm (variation in diagonal measurement)
FLATNESS (MEASURED IN HORIZONTAL)	5mm/m maximum deviation (panels with nominal thickness 6mm) 3mm/m maximum deviation (panels with nominal thickness 13mm)

Surface Quality (Tested to ISO 4586-2)

ATTRIBUTE	MEASUREMENT
INSPECTION GUIDELINES	Viewing distance 0.75 to 1.5m from panel surface. Viewing shall be conducted at 90° to the panel surface. Acute inspection angles shall not be used. Light intensity approximately 800 to 1000 lx at the panel surface. Illuminated by non critical light of intensity approximately 800 to 1000 lx at the panel surface.
DIRT, SPOTS & SIMILAR SURFACE DEFECTS	The admissible size of defects is based on a maximum contamination area equivalent to 1.0mm²/m² 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/m² 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.
INDENTATIONS	The admissible size of defects is based on a maximum contamination area equivalent to 2.0mm²/m² 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.

Surface Performance (Tested to ISO 4586-2)

ATTRIBUTE	MEASUREMENT				
RESISTANCE TO SURFACE WEAR	Initial wear ≥ 150 cycles. Average wear ≥ 350 cycles				
RESISTANCE TO IMMERSION IN BOILING WATER	Mass Increase Maximum 2.0 %			2.0 %	
IN BOILING WATER	Thickness Increase		Maximum 2	aximum 2.0 %	
			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 0.40 % Transverse direction: Maximum cumulative change 0.80 %				
DIMENSIONAL STABILITY AT AMBIENT TEMPERATURE	Longitudinal direction: Maximum cumulative change 0.40 % Transverse direction: Maximum cumulative change 0.80 %				
RESISTANCE TO IMPACT BY LARGE DIAMETER BALL	Drop height ≥ 1200 mm				
RESISTANCE TO CRAZING	Appearance rating not worse than 4 Surfaces unchanged, with slight hairline edge cracks visible to the naked eye				
RESISTANCE TO SCRATCHING	Rating = 3 (Force ≥ 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% s Hydrogen peroxide (30% 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 ≥ 4 When tested in contrast with Blue wool 6 Ref: ISO 105-A02				
GLOSS LEVEL AT 60°C ANGLE AS/NZS 1580.602.2	≤ 8 gloss units				
COLOUR VARIATION ISO 105-A05	Surface material "bat	ch to batch" colour variati	on of ΔE ≤ 1		

Core Performance

ATTRIBUTE	MEASUREMENT		BLACK	OTHER
RESISTANCE TO STAINING (TESTED TO AS/NZS 2924.2)	Groups 1 & 2	Acetone	Rating ≥ 5 No visible change	Rating ≥ 5 No visible change
		Coffee (120g of coffee per litre of water)	Rating ≥ 5 No visible change	Rating ≥ 3 Moderate change of gloss sand/or colour
	Group 3	Sodium hydroxide (25% solution)	Rating ≥ 4 Slight change of gloss and/ or colour, only visible at certain viewing angles	Rating ≥ 5 No visible change
		Hydrogen peroxide (30% solution)	Rating ≥ 5 No visible change	Rating ≥ 5 No visible change
		Shoe polish	Rating ≥ 5 No visible change	Rating ≥ 3 Moderate change of gloss sand/or colour
RESISTANCE TO STAINING (TESTED TO AS/NZS 4266.2)	Beetroot Juice Black Marking Pen Red Wine Curry Paste		Rating ≤ 1 Complete removal of staining agent from surface	Rating ≤ 4 Only partial removal of stain
	Tomato Sauce		Rating ≤ 1 Complete removal of staining agent from surface	Rating ≤ 2 Faint stain left on surface
	Soy Sauce		Rating ≤ 1 Complete removal of staining agent from surface	Rating ≤ 3 Slight stain left on surface
	Shoe Polish		Rating ≤ 1 Complete removal of staining agent from surface	Rating ≤ 3 Faint stain left on surface
LIGHTFASTNESS	Contrast: Grey scale rating ≥ 4 When tested in contrast with Blue wool 6 Ref: ISO 105-A02			
COLOUR VARIATION ISO 105-A05	Surface material "batch to batch" colour variation of ΔE ≤ 1			

Specialty Performance

ATTRIBUTE	TESTED TO:	TYPICAL VALUES		
FIRE HAZARD PROPERTIES	AS/NZS 3837 (In accordance to AS5637.1)	Group Number	3	
	(4655.441.65 to 7.65557.1)	Average Specific Extinction Area (ASEA)	65 m²/Kg (Black core) 4 m²/Kg (Other core colours)	
FINGERPRINT RESISTANCE	Laminex Internal Method	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles		
PROTEC+® ANTIMICROBIAL SURFACE	Protec+® antimicrobial surface technology, prevents growth of bacteria and inhibits fungus on decorative surfaces. Protec+® provides enhanced antimicrobial protection for the expected life of the product.			
ANTIBACTERIAL ACTIVITY AND EFFICACY (24 hours)	JIS Z 2801 Referred to in ISO 22196	PASS = R value > 2.0 orders of magnitude difference between a treated sample and an inert surface		
	BACTERIAL STRAINS TESTED: Staphylococcus aureus (ATCC 6538P) Escherichia coli (ATCC 8739) Methicillin resistant Staphylococcus aureus (NCTC 12493) Pseudomonas aeruginosa (ATCC 15442) Salmonella chloeraesius (ATCC 10708)			
ANTIFUNGAL (INCUBATION CONDITION: 30°C FOR 28 DAYS AT 90% RELATIVE HUMIDITY)	ASTM G21	Rating ≤ 1 1 = Traces of growth (less than 10%) 0 = None		
	FUNGAL STRAINS TESTED: Aspergillius niger (ATCC 9642) Penicillium pinophilum (ATCC 11797) Chaetomium globosum (ATCC 6205) Gliocladium virens (ATCC 9645) Aureobasidium pullulans (ATCC 15233)			

Emissions & Environmental Performance

ATTRIBUTE	TESTED TO:	UNITS	MEASUREMENT
FORMALDEHYDE	ISO 12460-3	mg/m²h	≤ 1.0
VOLATILE ORGANIC COMPOUNDS (VOC'S)	ASTM D5116	mg/m²h	≤ 0.5

Important Information

This document must be referenced in conjunction with the latest version of the following documents, accessible at Laminex.com.au

- Fusion Composite Solid Surfaces Fabrication and Installation Manual
- Fusion Composite Solid Surfaces Care and Maintenance
- Fusion Composite Solid Surfaces Warranty

Note: Please refer to full suite of supporting documentation for product limitations (E. & O. E.).

© Laminex 2021. This document is intended only as general guidance. Laminex has taken all reasonable care in producing this document, however Laminex make no representations or warranties, express or implied, as to the accuracy, reliability or completeness of the information, and disclaims all liability, direct or indirect (and whether or not arising out of the negligence, default or lack of care of Laminex) for any loss or damage suffered by the user or any other person arising out of, or in connection with, any use or reliance by any of them on this document. In particular, no warranty is given or is to be implied with respect to the suitability of the product for any particular purpose. Users must independently determine the suitability of the product for their intended application. Liability which cannot legally be excluded is limited to the maximum extent possible. Unless specified otherwise, all M and ® are trademarks or registered trademarks of Laminex Group Pty Limited.