EGR DECOR

TruNatur

Technical Data Sheet

Polymer Veneer Woodgrain Indoor Panels
Australia & New Zealand

July 2024

Technical Data Sheet

Overview

TruNatur is a premium polymer veneer-faced panel that incorporates nanosized technology and antibacterial properties, offering a high-performance alternative to timber veneer. The TruNatur collection features a range of woodgrain patterns and embossed surfaces, delivering a natural look and feel. These faced products are highly resistant to scratching, staining, chemicals, and UV light, ensuring lasting durability, aesthetic appeal, and functionality for your projects.

Applications

TruNatur is designed for indoor use, suitable for vertical and light-duty horizontal applications.

Decorative Surface

TruNatur complies with the appearance requirements specified in AS/NZS 1859.3.

Surface Specifications

Scratch Resistance

The surface technology includes nanosized agents, resulting in an exceptionally durable finish that resists wear. Steel wool testing reveals no signs of damage even after subjecting the surface to multiple cycles, highlighting the panels' ability to maintain their pristine appearance over time, even with heavy use.

Stain Resistance

The surface technology enhances their "easy-clean" features, ensuring they resist common household stains like coffee, tea, and vinegar. Tests indicate no significant visual or physical effects even after extended exposure to these stains, guaranteeing that the panels are easy to maintain and retain a fresh appearance for longer periods.

Chemical Resistance

The surface technology provides robust protection against chemicals, solvents, and cleaning agents. Tests show no significant changes even with repeated exposure, demonstrating the panels' resistance to chemical damage and ensuring their long-lasting durability in various environments.

Weatherability

The surface technology offers protection against deterioration from exposure to UV light. Weathering tests conducted according to ISO 4892-3 Method B Cycle 5 reveal no significant changes to the surface after 3000 hours of exposure, demonstrating the panels' durability and ability to maintain their appearance over time.

Antibacterial

The surface technology inhibits the growth of bacteria, including S. aureus and E. coli. Antibacterial tests conducted following ISO 22196 and JIS Z 2801 standards show a reduction of over 99% in bacterial growth after 24 hours of inoculation, emphasising the panels' hygienic properties.

TruNatur MR EO MDF panels

Applications

They are an excellent choice for both residential and commercial projects, including kitchen, vanities, shelving, displays, panels, wall and ceiling lining, and various other applications within the cabinetry and joinery industry.

Board Specifications

PROPERTY	DESCRIPTION			
Category	Premium polymer veneer panels			
Thickness	16 mm	18mm	25mm	32mm
Weight	12 kg/m^2	13 kg/m^2	17.5 kg/m^2	22.5 kg/m^2
Core	MR EO MDF			
Construction	PUR laminated face and back			
Protective film	Transparent, high tack and residual free			
Environmental Health	GreenTag PHDTM PlatinumHEALTHTM			
Sustainability	FSC certified sourced MDF			
Fire Resistance	Compliant with NCC/BCA Group Number 3			

Core Specifications

PROPERTY	UNIT	PROPERTY			
Thickness	mm	16	18	25	32
Density	Kg/m^3	720	720	700	700
Internal Bond	MPa	0.70	0.70	0.70	0.70
MOR	MPa	30.0	30.0	30.0	30.0
MOE	MPa	3500	3500	3500	3500
Screw holding - face	N	≥ 700	≥ 700	≥ 700	≥ 700
Screw holding - edge	N	≥ 1100	≥ 1100	≥ 1100	≥ 1100
Thickness Swell 24hrs	%	<7	<7	<4	<4
Formaldehyde level	mg/L	E0 ≤ 0.5	E0 ≤ 0.5	E0 ≤ 0.5	E0 ≤ 0.5

Moisture Resistance

StyleLite TruNatur MR EO MDF panels comply with the moisture resistance properties specified in AS/NZS 1859.2.

Fire Performance

StyleLite TruNatur MR EO MDF panels have been tested to AS5637 and achieved a Group 3 rating. For projects demanding superior fire ratings, StyleLite TruNatur panels with fire-rated properties are offered upon request.

Certification

TruNatur has achieved the GreenTag PHD™ PlatinumHEALTH™ rating, a designation recognised by WELL™ and LEED® as world-leading for the healthiness of products used by end-users. Made in Australia in an ISO9001 approved facility, these environmentally friendly panels meet strict quality standards.

Storage And Handling

TruNatur laminate should be handled with care by two persons to avoid breakage and damage, lifting instead of sliding. Store in well-ventilated, clean, dry areas away from direct sunlight, using cover boards and placing on four equally spaced bearers on a level, hard, dry surface. Stack multiple pallets with aligned bearers.

Panel Fabrication

TruNatur can be easily cut, drilled, and routed using standard woodworking tools. Always inspect for visible defects or damage prior to fabrication. Keep the protective film on during fabrication and installation to prevent damage. Always conduct trials to determine optimal operations and settings. Ensure adequate ventilation and extraction for the processing machines. Only use the recommended hinge quantities. Refer to the TruNatur Fabrication and Installation Guide available on our website for further details.

DOOR HEIGHT	COMPONENT WEIGHT	NUMBER OF HINGES
Up to 800 mm	≤ 7 Kg	2 hinges
800 to 1300 mm	≤ 11 Kg	3 hinges
1300 to 1800 mm	≤ 16 Kg	4 hinges

Edge Finishing

The ABS edge bands are designed for easy application, coming pre-primed and colour-matched for a seamless look. They are compatible with both EVA and PUR glue and are available in widths of 23 mm, 29 mm, and 54 mm to accommodate diverse design requirements, with a standard thickness of 1.0 mm.

Care And Maintenance

To clean the surface, gently wipe it with a clean microfiber cloth dampened with warm, soapy water. Avoid using abrasive cleaners or rough materials, as they can scratch or otherwise damage the surface. Always protect the panel from excessive moisture, heat sources, or direct sunlight to maintain its appearance and longevity. Refer to the TruNatur Cleaning Guide available on our website for further details.

Warranty

TruNatur is backed by a 7-year limited indoor warranty. Refer to the TruNatur Warranty available on our website for full term and conditions.

TruNatur Laminate sheets

Applications

They are designed for curved applications, seamlessly complementing face panels in both residential and commercial projects. Ideal for enhancing reception areas, vanities, shelving, displays, and architectural features on walls and ceilings.

Board Specifications

PROPERTY	DESCRIPTION
Category	Premium polymer veneer panels
Thickness	0.8 mm
Weight	1 kg/m^2
Core	High Pressure Laminate (HPL)
Construction	PUR laminated face
Protective film	Transparent, high tack and residual free

Core Specifications

PROPERTY	UNIT	PROPERTY
Density	gm/cm^3	1.35
Formaldehyde level	mg/L	E0 ≤ 0.5

Laminate Fabrication

- Cold bending is the sole suitable fabrication method for TruNatur laminate sheets.
- TruNatur laminate sheets can be cold bent to a radius of 200 mm (8 ”).
- Bendy plywood and craftform MDF panels are the recommended laminate substrates.
- TruNatur laminate sheet are never be used for postforming fabrication.

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TruNatur Weatherproof Composite Core (WCC) panels

Applications

They are suitable for non-structural applications in high-humidity interiors or areas prone to frequent wetting, like kitchens, vanities, bathrooms, and laundries.

Board Specifications

PROPERTY	DESCRIPTION
Category	Premium polymer veneer panels
Thickness	16 mm
Weight	10.5 kg/m^2
Core	Weatherproof Composite Core (WCC)
Construction	PUR laminated face and back
Protective film	Transparent, high tack and residual free

Core Specifications

PROPERTY	UNIT	PROPERTY
Thickness	mm	16
Density	Kg/m^3	650
MOR	MPa	≥ 30.0
MOE	MPa	≥ 800
Screw holding - face	N	≥ 700
Screw holding - edge	N	≥ 700
Thickness Swell 24hrs	%	<1

Panel Fabrication

- Single-piece doors larger than 600mm (24") in width and 1200mm (47") in height are not recommended.
- Utilise split door construction or other appropriate methods for large doors.
- Only use the recommended hinge quantities.

DOOR HEIGHT	COMPONENT WEIGHT	NUMBER OF HINGES
Up to 800 mm	≤ 7 Kg	3 hinges
800 to 1200 mm	≤ 11 Kg	4 hinges

TruNatur Lightweight (LW) Plywood panels

Applications

They are a great option for internal fitouts in caravans and RVs, as well as other non-structural interior applications where weight-saving benefits are preferred.

Board Specifications

PROPERTY	DESCRIPTION
Category	Premium polymer veneer panels
Thickness	15 mm
Weight	6.5 kg/m^2
Core	MR E1 Lightweight (LW) Plywood
Construction	PUR laminated face and back
Protective film	Transparent, high tack and residual free

Core Specifications

PROPERTY	UNIT	PROPERTY
Thickness	mm	15
Density	Kg/m^3	420
Screw holding - face	N	≥ 700
Screw holding - edge	N	≥ 550
Thickness Swell 24hrs	%	<9
Formaldehyde level	mg/L	E1 ≤ 1.0

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TruNatur BLOCKBOARD panels

Applications

They are highly favoured by architects and designers for residential and commercial projects, sought after for vertical and horizontal beams, internal doors, floating shelves, timber screens, and various non-structural interior applications.

Board Specifications

PROPERTY	DESCRIPTION	
Category	Premium polymer veneer panels	
Thickness	38 mm	50 mm
Weight	17 kg/m^2	20 kg/m^2
Core	Solid single-core falcata strips, securely bonded together and covered with a layer of STD E0 MDF skins on both sides	
Construction	PUR laminated face and back	
Protective film	Transparent, high tack and residual free	

Core Specifications

PROPERTY	UNIT	PROPERTY	
Thickness	mm	38	50
Density	Kg/m^3	450	400
Screw holding - face	N	≥ 700	≥ 700
Screw holding - edge	N	≥ 550	≥ 550
Formaldehyde level	mg/L	E0 ≤ 1.0	E0 ≤ 1.0

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TruNatur BLACK Fire Rated (FR) Group 1 MDF panels

Applications

They are an excellent option for residential and commercial projects, particularly for wall and ceiling lining, designing routed panels, and other non-structural interior applications that necessitate a Group 1 fire-rated product.

Board Specifications

PROPERTY	DESCRIPTION
Category	Premium polymer veneer panels
Thickness	18 mm
Weight	13.5 kg/m^2
Core	Black FR MR EO MDF
Construction	PUR laminated face and back
Protective film	Transparent, high tack and residual free
Sustainability	FSC certified sourced MDF
Fire Resistance	Compliant with NCC/BCA Group Number 1

Core Specifications

PROPERTY	UNIT	PROPERTY
Thickness	mm	18
Density	Kg/m^3	740
Internal Bond	MPa	≥ 0.75
MOR	MPa	≥ 30
MOE	MPa	≥ 2700
Screw holding - face	N	≥ 700
Screw holding - edge	N	≥ 1100
Thickness Swell 24hrs	%	<8
Formaldehyde level	mg/L	E0 ≤ 0.5

Fire Performance

The StyleLite TruNatur Black FR MR EO MDF panel is manufactured with a certified fire-rated Group 1 core substrate.

TruNatur GREY Fire Rated (FR) Group 2 MDF panels

Applications

They are a great choice for residential and commercial projects, especially for wall and ceiling lining, designing routed panels, and other non-structural interior applications that require a Group 2 fire-rated product.

Board Specifications

PROPERTY	DESCRIPTION
Category	Premium polymer veneer panels
Thickness	12 mm
Weight	9.5 kg/m^2
Core	Grey FR MR E1 MDF
Construction	PUR laminated face and back
Protective film	Transparent, high tack and residual free
Sustainability	FSC certified sourced MDF
Fire Resistance	Compliant with NCC/BCA Group Number 2

Core Specifications

PROPERTY	UNIT	PROPERTY
Thickness	mm	12
Density	Kg/m^3	770
Internal Bond	MPa	0.6
MOR	MPa	28
MOE	MPa	2800
Thickness Swell 24hrs	%	<11
Formaldehyde level	mg/L	E1 ≤ 1.0

Fire Performance

The StyleLite TruNatur Grey FR MR E1 MDF panel is manufactured with a certified fire-rated Group 2 core substrate.

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