



Reflekt

UltraMatte

Process Intelligence

The story behind the finish.

Process Intelligence is the convergent manufacturing system developed by Premier EuroCase. Raw materials are selected and tested to certify optimum quality, then next generation technology is combined with precision tooling and merged with synchronized manufacturing processes. The product is produced with accuracy, quality, and unmatched manufacturing speed. The result is a world-class product with remarkable consistency.

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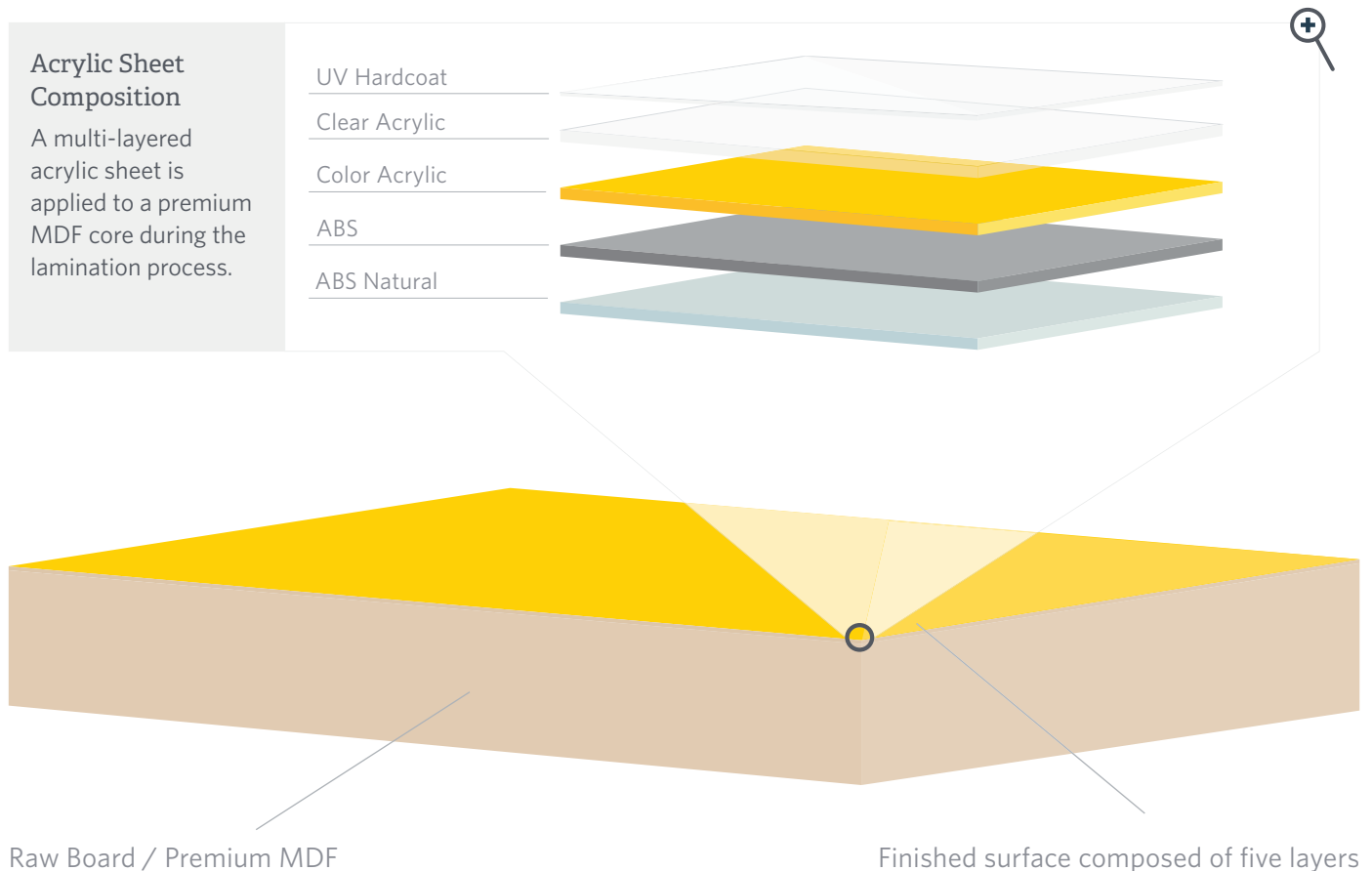
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Cover Photo Provided by UltraCraft Cabinetry

Panel Information

Reflekt and UltraMatte panels consist of a PureCore® premium quality medium density fiberboard (MDF) substrate with a co-extruded polymer acrylic top layer.



Applications

Reflekt and UltraMatte panels are suitable for interior vertical surfaces such as kitchen cabinets, vanities, closets, furniture, store fixtures and displays, as well as wall panels.

Lamination

Reflekt and UltraMatte panels are polyurethane (PUR) laminated in a Class 100 (ISO5) cleanroom, a manufacturing process uniquely suited for the lamination of sensitive acrylic materials to achieve spectacular results.

Panel Specifications

Our standard panel size is 4' x 8' available in 1/4" and 3/4" thicknesses. Reflekt White and Black are available in 4' x 10'. Custom thicknesses are available by request.

User Guide

General

The surface of the Reflekt and UltraMatte panels are covered with a protective film, which should stay on during processing and installation. After removal of the film, the surface is ready for daily use. No additional polishing is necessary.

Best results for machining Reflekt and UltraMatte panels will be achieved by using high speed, very sharp carbide tools and moderate feed rates.

Reflekt and UltraMatte laminated panels may react to severe changes in humidity and temperature. A curvature of up to 2mm/1000mm may occur in some extreme environmental conditions.

Excessive curvature can be minimized by avoiding long narrow panels and by ensuring adequate hinging and fixing support is provided.

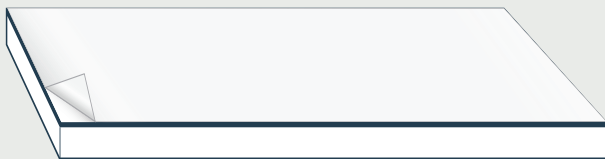
Care and Handling

Reflekt and UltraMatte panels can be stored horizontally and should be well supported at all times.

- Leave protective film in place until the project is complete.
- Do not store panels outside.
- Avoid sliding the panels on the outer face surface to preserve the protection film.

Protective Film

Reflekt and UltraMatte panels are supplied with a protective film which **should not be removed until the project is complete**. Ensure finished items with masking film are not stored in direct sunlight as the masking film could be affected and could be difficult to remove.



Protective Film: Metallic Colors

Reflekt and UltraMatte metallic colors have a directional design. Take note of the directional arrows on the protective film throughout machining and installation.

Cleaning

Best results will be achieved using wet micro-fiber cloths or chamois with non-abrasive soap or detergent. **Do not use brushes, scourers or scrapers at any time.**

Scratch Resistance

The Reflekt and UltraMatte surfaces are scratch resistant, but not *scratch proof*. Please take precautions to protect the surface until the product has been installed.

Installation

- Adequate fixing should be provided at no greater than 500mm centers.
- We recommend an air gap of 6mm adjacent to ovens and other heat sources.
- When attaching decorative hardware be careful to not over tighten as this can distort the surface.

Core Options

Premier uses only the finest cores in the industry. Our standard is a premium quality MDF substrate that is carefully selected to have a low surface variance, so the surface is not flawed by imperfections. We also offer other specialty core options such as NAF (No Added Formaldehyde) and Plywood.

Additional Features

- All Reflekt panels are dry-erase certified and can also be produced as a magnetic panel with an embedded steel layer inside the lamination.
- All UltraMatte panels have anti-fingerprint properties.

Machining & Storage Guide

Processing

Reflekt and UltraMatte panels can be sawn, drilled or router cut. Use sharp carbide tools and moderate feed rates.

Ensure masking film is cut cleanly.

Adjust the process so there are no masking strands at the edge to complicate the edgbanding process.

Routing

- Router cut using a feed rate of 10 to 15 meter/minute with a spindle speed of 15- 20,000 rpm.
- Diamond or solid carbide compression cutters will deliver the best finish.

Saw Cutting

- Use sharp carbide tipped or diamond blades for best results along with a bottom scoring blade.
- We recommend single sheet cutting on panel saws to avoid damage from debris between sheets.

Drilling

- Drilling can be done using high speed steel or carbide tipped drills.
- Best results will be achieved using drills with a tip angle of 110 to 130 degrees.
- Use slow to medium speeds to avoid overheating the material.

Hinge Recommendations

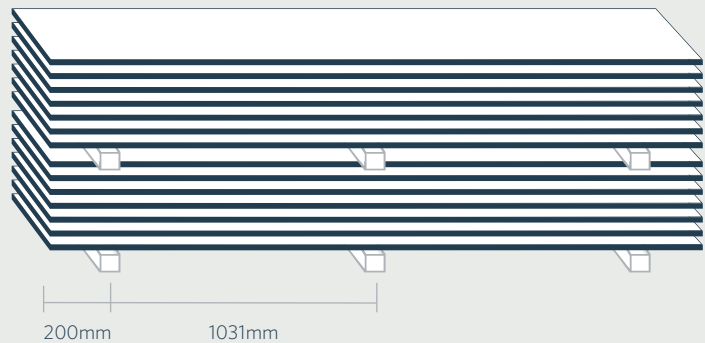
Up to 800mm	2 hinges
800 to 1300mm	3 hinges
1300 to 1800mm	4 hinges
1800 to 2100mm	5 hinges
2100 to 2440mm	6 hinges

- Be sure to test hinge drilling on a test piece to ensure proper depth and back set.

Storage

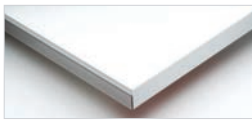
To prevent potential warpage, Reflekt panels should be stored horizontally on a level surface with a minimum of three equally sized sticks. The sticks should be aligned with no more than 1031mm from center and 200mm from the ends.

Reflekt panels should be stored inside in a well-ventilated and dry environment.

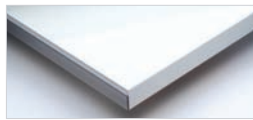


Color Options

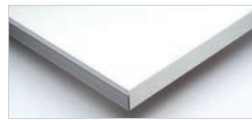
Reflekt



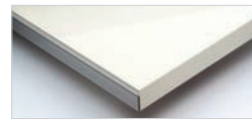
Pure White



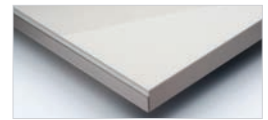
White



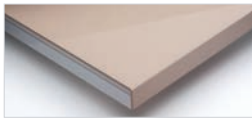
Soft White



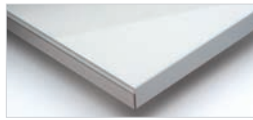
Cream



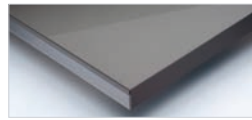
Pebble



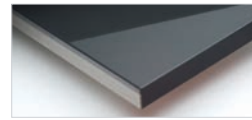
Beige



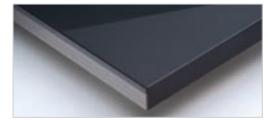
Grey



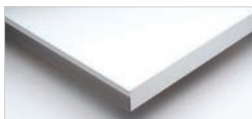
Stone



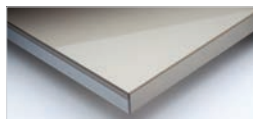
Dark Grey



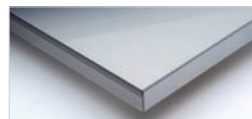
Black



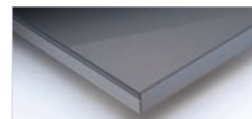
Pearl White*



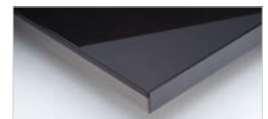
Metallic Beige*



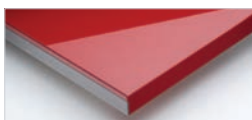
Metallic Silver*



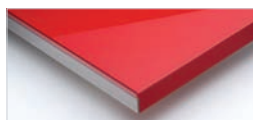
Metallic Grey*



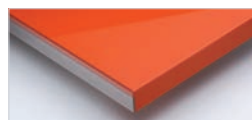
Metallic Black*



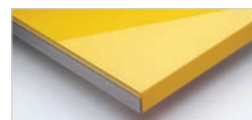
Red



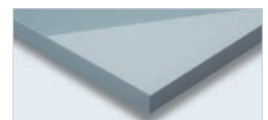
Corsa Red



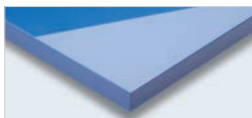
Orange



Fly Yellow



Sage



Blue

UltraMatte



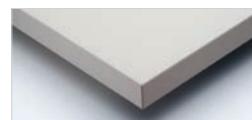
Pure White



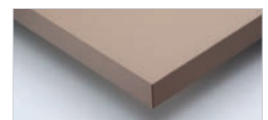
White



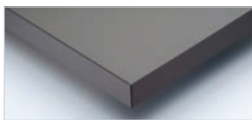
Cream



Pebble



Beige



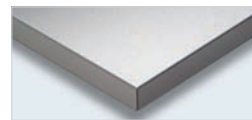
Stone



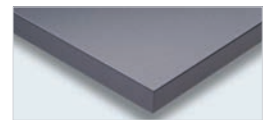
Black



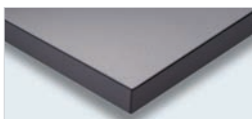
Metallic Beige*



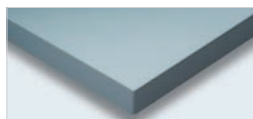
Metallic Silver*



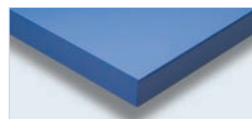
Metallic Grey*



Starlight*



Sage



Blue

*Denotes metallic design.

The information should be used as a guide only. Colors, gloss, and matte finishes are subjective. Samples of material should always be obtained and evaluated by users and customers for final inspection.

Color Reference Chart

Reflekt Color	Reflekt Color Code	Solid Color Edgebanding	Two-Tone Edgebanding	Optional Close Matching R�ucke TFL Backs
Pure White	11046	1532	3D19R8	Glacier White
White	1982	0808	3D19R8	Rainier White
Soft White	1994	1818	3D1R20	Rainier White
Cream	7496	1863	3D24R8	Antique White
Pebble	85468	1588	3D32R0	
Beige	7498	1259	3D53R6	
Grey	85384	1738	3D32R0	Folkstone Grey
Stone	85383	1577	3D94R7	
Dark Grey	85382	1762	3D1R36	Charcoal
Black	8421	1784	3D19R6	Black
Pearl White	11035	8022	3D19R8	Glacier White
Metallic Beige	7499	7108	3D59R5	
Metallic Silver	85385	7459	3D3R41	Folkstone Grey
Metallic Grey	85387	7526	3D3R42	Charcoal
Metallic Black	8427	7464	3D0R32	Black
Red	3362	1258	3D71R2	
Corsa Red	3399	1879	3D35R0	
Orange	9133	1100	3D3R43	
Fly Yellow	2283	1739	3D35R4	
Sage	5357	2503	NA	
Blue	4644	2502	NA	

UltraMatte Color	UltraMatte Color Code	Solid Color Edgebanding	Optional Close Matching R�ucke TFL
Pure White	11082	1659	Glacier White
White	1982	1592	Rainier White
Cream	7496	1712	Antique White
Pebble	85468	1709	
Beige	7498	1711	
Stone	85383	1591	
Black	8421	1310	Black
Metallic Beige	7499	9216	
Metallic Silver	85385	9217	Folkstone Grey
Metallic Grey	85387	9218	Charcoal
Starlight	85658	9215	Black
Sage	5357	2511	
Blue	4644	2510	

White melamine back is standard on one-sided panels.

Edge Finishing

Edgebanding

Premier recommends using laser, hot air, or PUR edgebanders for best results. EVA can also be used with good results, but it's important to maintain color integrity through proper temperature control and glue pot maintenance.

Best results will be achieved by using radius tooling to match the edgebanding thickness. Scraping should be done. Be sure to produce test panels to insure proper setup on machining stations with a matching radius scraper set with a low level of deflection.

- Use mineral spirits sparingly to remove any glue residue.
- On some edgebanders it may be necessary to fold the masking film back from the edge to ensure the film is clear of the glue line.
- Edgebanding material is 1mm thick x 23mm, 100m/roll.

Edge Finishing

Reflekt and UltraMatte can be edge finished in a wide variety of ways. We recommend using our edgebanding for the quality and color matching with our product offering. Our edgebanding is supplied primed ready for application using EVA or PUR hot melt adhesives. Laser edgebanding is also available if a laser or hot-air edgebanding is used. All specified edgebanding is of premium quality and offers high resistance to heat, abrasion, impact and color fade.

When correctly applied, the edgebanding will meet or exceed the AS/NZS 4386.1 Domestic Kitchen Assemblies.

Two-Tone Edgebanding (Reflekt Only)

We also offer a two-tone edgebanding, which is a clever alternative to back-painted glass. It consists of two high-gloss colors running in parallel. When two-tone edgebanding is applied to a laminated Reflekt panel, and amazing three dimensional effect is created. It appears as if the high-gloss surface is thick and substantial giving the board a higher value appearance.

Two-Tone Edgebanding

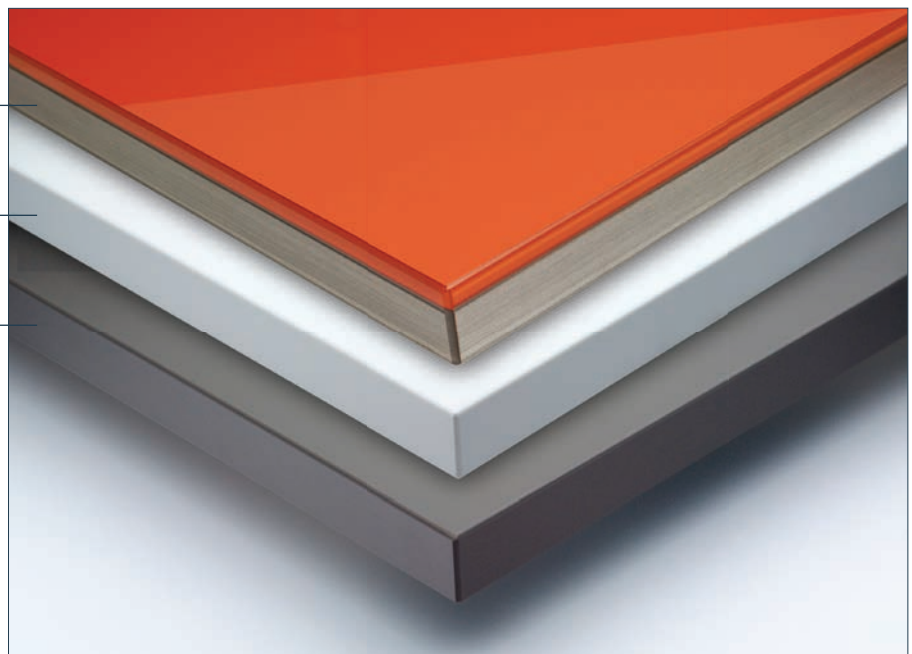
Reflekt Orange

Solid Edgebanding

Reflekt White

Solid Edgebanding

UltraMatte Stone



Properties & Performance

Reflekt and UltraMatte products are constructed with Senosan® AM1800Top (X, X Met, and Matt) hardcoat acrylic. The technical data below refers to these products as their intended to be flat laminated on different substrate materials for interior furniture. Premier EuroCase uses a MDF core for their substrate.

Mechanical Properties			
	Test Method	Unit	Values
Scratch Resistance			
Reflekt	IHD-W-466	method A	class 1 Loss of gloss <20%
UltraMatte	DIN 68861/T4	rating group 4 B	>2.5
Abrasion Resistance			
Reflekt	SENO company standard QPA-25-LT	load: 1kg, strokes: 20, steel wool type: 00	class 1, no changes or scratches visible
UltraMatte	SENO company standard QPA-25-LT	load: 1kg, strokes: 20, steel wool type: 00	class 1, no changes or scratches visible
Chemical Resistance			
Reflekt	DIN 68861/T1, rating group 1 A		No visible changes
UltraMatte	DIN 68861/T1, rating group 1 B		No visible changes
Resistance to Dry Heat			
			w
Reflekt	DIN 68861/T7, rating group 7 D	°C	75
UltraMatte	DIN 68861/T7, rating group 7 D	°C	75
Resistance to Wet Heat			
Reflekt	DIN 68861/T8, rating group 8 B	°C	70
UltraMatte	DIN 68861/T8, rating group 8 B	°C	70
Behavior to Water Vapor			
Reflekt	AMK module 2		no changes visible
UltraMatte	AMK module 2		no changes visible
Density			
Reflekt	ISO 1183-1, 23°C	g/cm ³	>1.07 >1.11
UltraMatte			
Flammability Classification*			
Reflekt	UL Standard 94		n.d.
UltraMatte	UL Standard 94		n.d.

Properties & Performance

Optical Properties

Top Surface Gloss

Reflekt	DIN 67 530 (60° glossmaster)	> 85 GLE
UltraMatte	DIN 67 530 (60° glossmaster)	<8 GLE

Haze

Reflekt	DIN 67 530	<10
UltraMatte	N/A	

Color Fastness — Total Color Difference After 200H Xenon Test

Reflekt	EN ISO 4892-2	DE* <1,7
UltraMatte	EN ISO 4892-2	DE* <1,7

Test results may vary by color and design. This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be understood as guaranteeing specific properties of the products as described or their suitability for a particular application.

** Tested on raw materials used in this product.*

Warranty

10 Year Limited Warranty

Premier EuroCase warrants the products to be free from defects in material and workmanship. This warranty extends from Premier to the original purchaser and protects against faulty materials and processing, subject to the terms and conditions.


Should any failure to conform to this warranty appear within two years after the initial date of shipment, Premier EuroCase shall, upon notification thereof and substantiation that the products have been handled and installed in accordance with Premier EuroCase's standards, correct such defects by suitable repair or replacement without charge at Premier EuroCase's plant or at the location of the products (at Premier EuroCase's election) provided, however, if Premier EuroCase determines that the repair or replacement is not commercially practical, Premier EuroCase shall issue credit in favor of PURCHASER in an amount not to exceed the purchase price of the products.

Premier EuroCase will only warranty warpage on doors up to 60" with over a 2.5mm/1000mm curvature.

If a credit is offered to the original purchaser, 100% of the original purchase price will be given for two (2) years from purchase date, and then a reduced value prorated at 10% per year after the two (2) year period.

Premier EuroCase Reflekt and UltraMatte products are designed and manufactured as decorative finishes for indoor applications only.

Please contact us for additional technical information and terms and conditions of this warranty.



Due to the nature of the printing process, the color and images depicted throughout this brochure may vary compared to the actual products' color and results achieved. Images and colors should be used as a guide only. Statements and recommendations provided by Premier EuroCase, either written or verbal are based on our experience gained to date. No liability may be derived from these statements nor from our free technical advice. Individual results may vary.

PREMIEREUROCASE

Process Intelligence

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