



ECONOMY ♦ EXCELLENCE ♦ ETHICS

INTERNAL WALL CLADDING **MERINO**SHAURYA

ELEGANTLY TOUGH



**GUARDIANS
OF THE WALL**

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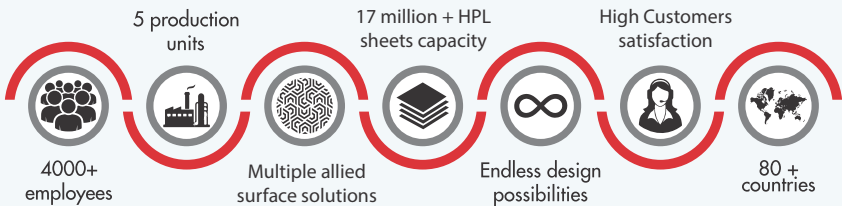
"Image shown are for reference. Actual product may vary"



ECONOMY ♦ EXCELLENCE ♦ ETHICS

ABOUT MERINO

The Merino Group is a leading player in the laminates and panel industry. The first product was plywood, launched in 1974 and later it spread its wings into high-pressure decorative laminates in 1981. The Group has diverse business interests expanding into Interior Architectural Products, Information Technology and Food & Agro business. Over 4000 employees, 5 production units and multiple allied surface solutions having endless design possibilities are what ensure a consistent range of superior quality products and the Group's continuous significant growth in the challenging market scenario. With innovation and perfection at its core, Merino commits to the highest manufacturing standards with a strong customer support.



CERTIFICATIONS



"IGBC - MP - 1076"

ISO 14001:2004
OHSAS 18001:2007
ISO 9001:2008

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SHAURYA - INTERNAL WALL CLADDING

Shaurya - Merino's Internal Wall Cladding Solution is a High Pressure Compact Laminate based product with a first-of-its-kind technology in India for wall protection purpose. As the name suggests, this product is primarily used for internal application i.e. protecting the internal walls of a building from different forms of damage, alongwith enhancing the aesthetics of the interior.

The components of the product primarily composed of compact laminate and suitable metallic hardware profile. With the help of the mounting hardware mechanism, the compact laminate panels are installed to the wall. This arrangement not only provides unmatched protection to the wall but also renders breathtaking interior aesthetics.

Moreover, the unprecedented simplicity of the product also leads to very easy maintenance.

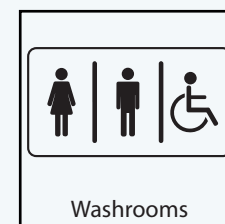
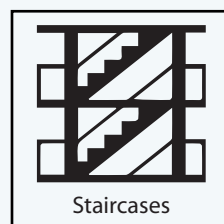
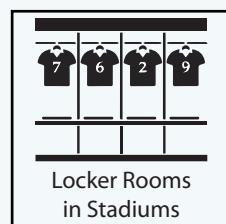
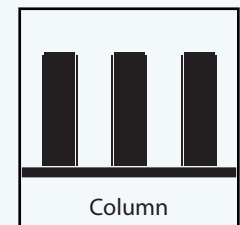
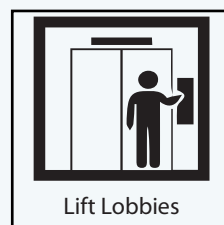
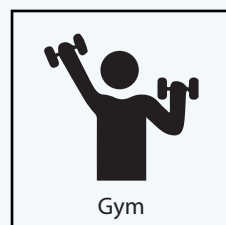
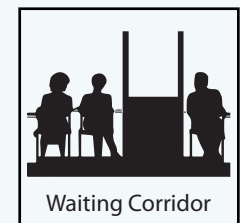
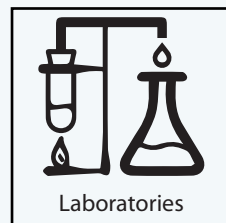
WHY SHAURYA ?

The primary purpose of Shaurya is to provide protection to the internal wall from different damages viz. water, scratch, graffiti, soiling, impact, colour fading and minor burn marks. Apart from the damage protection purpose, there are other reasons for installing Shaurya. They are as mentioned below :

- To improve aesthetics of wall
- To cover cabling arrangements
- To develop anti microbial surface for medical applications
- To match the wall with overall furniture design
- To provide scope for future changes in the wall as Shaurya is very easy to uninstall

SHAURYA APPLICATION AREA

Wherever we come across an internal wall, Shaurya can be used. Some of the most prominent areas of applications are:



PRODUCT INSTALLATION

Ease of installation makes Shaurya an appealing product to the prestigious Architect fraternity. Specially crafted metallic profiles are used as hardware to install the compact laminate panels on the wall. The installation process is easy and seamless . Rivets and screws have been excluded tactfully for this functionally upgraded system. Merino also uses state-of-the-art installation equipments which not only delivers the perfect execution but also efficiently takes care of every single factor that may harm the quality of the product in future. Such meticulous installation method extends the product life.



Step-1:- Bottom half of the Shaurya is already installed, installation of upper half is about to start.



Step-2:- First Merino HPL compact panel is getting mounted on the profile.



Step-3:- First Merino HPL compact panel is completely mounted, second Merino HPL compact panel is getting mounted on the profile.



Step-4:- Upper part of the Shaurya installation is also complete.

CERTIFICATE

Exova Warringtonfire
Holmesfield Road
Warrington
WA1 2DS
United Kingdom

T : +44 (0) 1925 655 116
F : +44 (0) 1925 655 419
E : warrington@exova.com
W: www.exova.com

Testing. Advising. Assuring.



WF Classification Report
No. 319369

Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1: 2009.

Classification

The product, "Merino FR Grade 12mm Compact Laminate", a compact high pressure laminate, in relation to its reaction to fire behaviour is classified:

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	-	s	1	,	d	0

i.e. B – s1 , d0

Reaction to fire classification: B – s1, d0

SIGNED

Matthew Dale
Certification Engineer
Technical Department

APPROVED

Janet Murrell
Technical Manager
Technical Department
on behalf of Exova warringtonfire

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1:2007+A1: 2009.

Notified Body No:

0833

Product Name:

"Merino FR Grade 12mm
Compact Laminate"

Report No:

319369

Issue No:

1

Prepared for:

Merino Industries Limited
Village Acheja
PO Hapur Distt
Panchsheel
Nagar
245101 India

Date:

18th July 2012



0249

FR+ Certificate
for Merino HPL Compact Panel

IMSL

INDUSTRIAL MICROBIOLOGICAL SERVICES LTD

CERTIFICATE OF ANALYSIS

CUSTOMER

M/s Merino Industries Ltd.
Vill.Achheja,P.O.-Hapur-245101
Dist.-Ghaziabad(UP)India

CERTIFICATE NO.

CUSTOMER REF.

1014663.1A

SAMPLE DETAILS

Test sample no.10313

DATE RECEIVED

22-Sep-10

METHOD: (Determination of Antibacterial Activity using ISO 22196)

DATE ANALYSED

22-Sep-10

DATE REPORTED

29-Sep-10

RESULTS (AS CFU CM⁻²)

SAMPLE		CONTACT TIME		LOG REDUCTION	% DIFFERENCE
		0	24		
Polystyrene	<i>E coli</i>	1.6E+04	3.5E+05	-	-
Test sample no.10313	<i>E coli</i>	1.6E+04	4.5E+00	3.5	99.99%
Polystyrene	<i>Staph aurues</i>	1.9E+04	9.0E+03	-	-
Test sample no.10313	<i>Staph aurues</i>	1.9E+04	1.0E+00	> 4.3	> 99.99 %

The above data shows the difference in the population following contact with the surface of the samples listed for 24 hours at 35°C under a RH of > 95% relative to the initial population.

NS = Poor survival on control supplied.

INDUSTRIAL MICROBIOLOGICAL SERVICE LTD
PALE LANE
HARTLEY WINTNEY
HANTS
RG27 8DH
UK

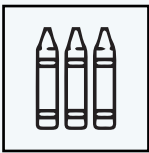
PETER D ASKEW
MANAGING DIRECTOR

Industrial Microbiological Services Ltd Registered in England No 3264423 Registered Office The Oddfellows Hall Oxford Road Reading Berkshire RG1 7NG

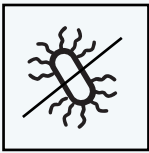
AB+ Certificate
for Merino HPL Compact Panel

COMPARISON BETWEEN SHAURYA & STONE CLADDING

SHAURYA



DESIGN OPTIONS
Unlimited design options including stone designs, wood grain designs, metallic designs, plain colour designs, etc.



ANTI-MICROBIAL PROPERTY
Anti-microbial property of Shaurya makes it ideal for usage in medical facilities, schools, toilet cubicles, kitchen etc.



INSTALLATION
Custom made panel and state-of-the-art profile makes the installation process very easy. The installation process consumes very little time and there is no water requirement.



UNINSTALLATION
Uninstallation is much easier and this allows to accommodate changes in cabling in future. This involves much lesser time and effort.



MAINTENANCE
Shaurya is a very low maintenance product — occasional cleaning with water/suggested chemicals is sufficient.



PERFORMANCE AGAINST VIBRATION
The Compact panel of Shaurya has a higher vibration resistance.



LOAD CONTRIBUTION
Much lesser load contribution on building.

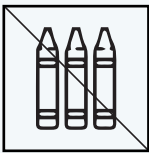


SURFACE FAULTS/FINISH
Free from any surface faults. Infact, surface finish can also be customized.

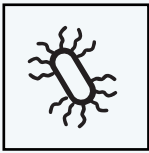


STAIN RESISTANCE
Shaurya has very good stain resistance.

STONE CLADDING



DESIGN OPTIONS
Only the stone designs and plain colour designs are available.



ANTI-MICROBIAL PROPERTY
Most of the Stone cladding does not possess the anti-microbial property.



INSTALLATION
Stone cutting and pasting involve much higher effort. **Water requirement is much more** as use of adhesive, cutting of stone and joining are involved.



UNINSTALLATION
Involves a lot of time and effort as the stone cladding needs to be broken for making any change in future.



MAINTENANCE
May require periodic sealing to prevent staining.



PERFORMANCE AGAINST VIBRATION
Softer stone cladding will tend to crack during higher vibration.



LOAD CONTRIBUTION
Higher load contribution on building.



SURFACE FAULTS/FINISH
Can have naturally occurring surface faults, especially in case on natural stone. Surface finish remains typical to that of stone.



STAIN RESISTANCE
Natural stones can be porous and tend to stain more rapidly than Shaurya.

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WHY MERINO-BREM PARTNERSHIP ?

The Technical Partnership of Merino & Brem Systeme has brought world class internal wall cladding system to India. Merino's 12 year journey in Indian restroom cubicle industry has earned it valuable experience and a complete understanding of the Indian market. This learning has been an integral part while partnering with Brem Systeme for Shaurya. Brem Systeme is one of the Global leaders in the Internal wall cladding system industry. Their technical expertise and innovative ideas have been revolutionary to the architectural world and our collaboration ensures that we are in sync with the latest innovations in the world.

THE GUARANTEE OF QUALITY

Quality is inherent in all Merino products. Our design and product engineering team develop inspiring solutions that deliver high on performance and durability. Advanced visual design and impeccable functionality of the products are always a high priority. Our resources and materials are carefully curated and our quality inspection team ensures thorough testing of all our products.

CUSTOMIZED SOLUTIONS

All Merino products are backed with a 5 years warranty and the promise of long lasting resistance and sturdiness in the most demanding environments. With customization as the core competence, Merino solutions are 'made to fit' the requirements of individual projects.

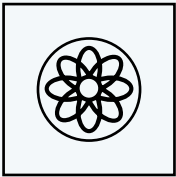
EXPERTISE TO FULFILL ALL YOUR NEEDS

The Merino team is fueled by passion and knowledge. We have several years of industry experience and unrivalled expertise in design and product knowledge. Our CAD team delivers the best in design and visuals, the project management team assures timelines and budgets and the manufacturing team ensures the quality and technical finesse of the products.

WIDE RANGE OF DESIGNS TO SUIT EVERY BUDGET

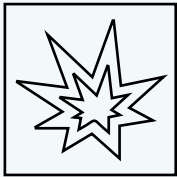
Our wide range of products offer the client the best choice in quality and design. Our product and design team ensures global standards of innovation and excellence in visual and functional designs, at a competitive price range.

PRODUCT FEATURES



HIGHLY DECORATIVE

Multitude of plain colours and designs(woodgrain & patterns) are available to choose from.



HIGH IMPACT RESISTANT

High density of compact laminate makes it ideal to be used for wall protection system.



SCRATCH RESISTANT

Scratch resistant to highly pointed objects



HIGH MECHANICAL STRENGTH

High density of compact laminate makes IWC ideal for crowded places



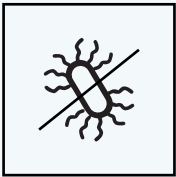
MOISTURE RESISTANT

Moisture resistance feature of Shaurya makes it ideal for Fitness centers, Swimming clubs, Schools etc



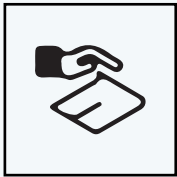
TERMITE RESISTANT

Completely resistant to termite and fungal attack.



ANTI MICROBIAL

99.99 % microbial resistance.



CLEANABILITY

Easy to clean and maintain.



GRAFFITI RESISTANT

Any writing marks made on the surface can easily be removed with diluted solvents such as acetone, thinner etc.



INSTALLATION

Easy installation & uninstallation.



AESTHETICS

Improve aesthetics of the wall.



CABLE MANAGMENT

Ease of on - wall cable managment.



**Image shown are for reference, actual colour may vary.

COLUMN

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APPLICATION

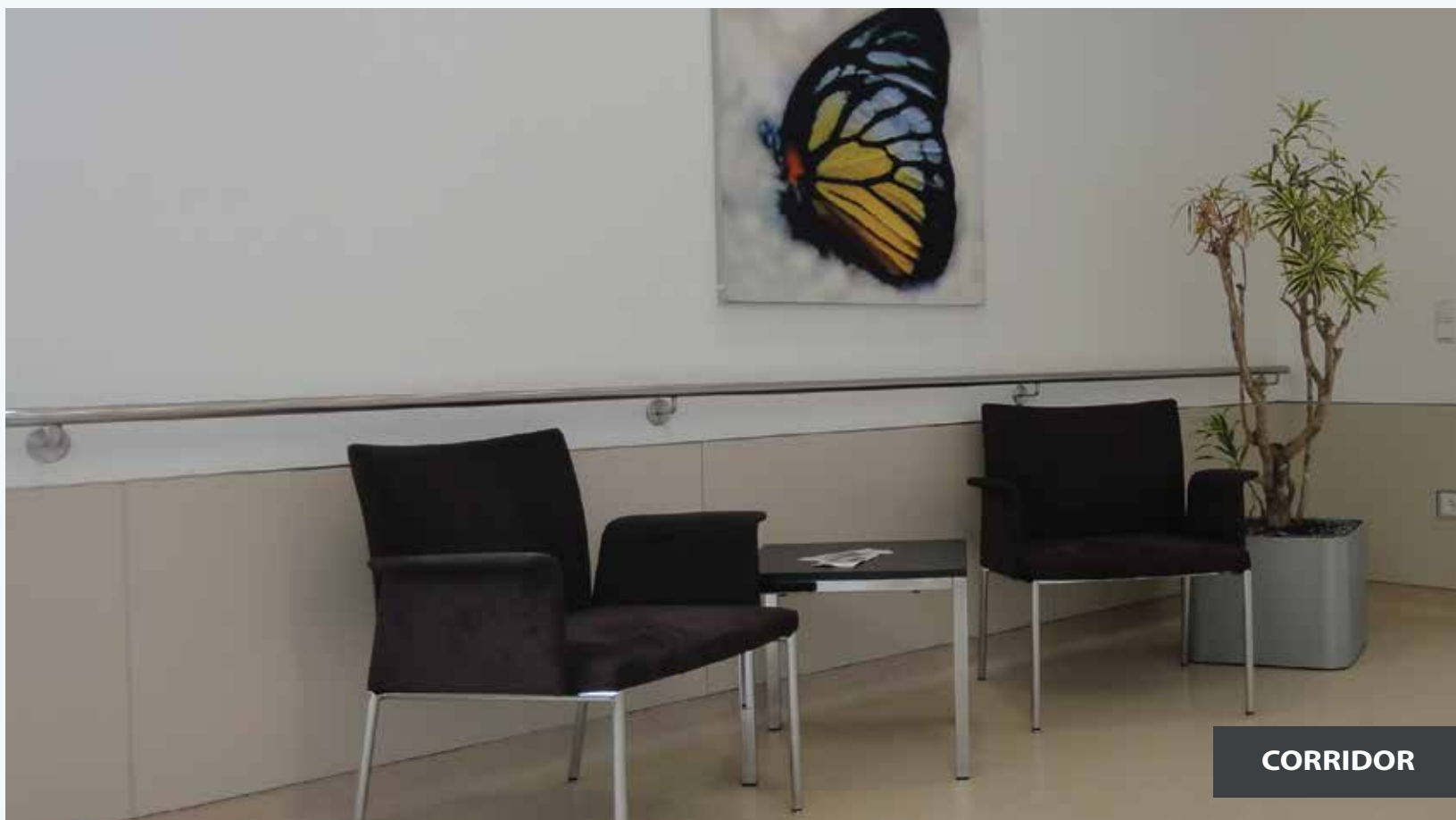


FULL HEIGHT



STAIRCASE

**Image shown are for reference, actual colour may vary.



CORRIDOR



GYM

**Image shown are for reference, actual colour may vary.



**Image shown are for reference, actual colour may vary.



**Image shown are for reference, actual colour may vary.



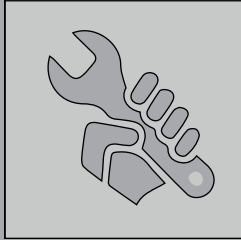
**OFFICE
ENTRANCE**



PATIENT WARD

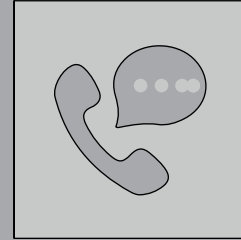
***Image shown are for reference, actual colour may vary.

COMMITTED TO SERVE YOU



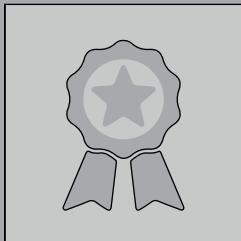
INSTALLATION SUPPORT

Our trained and experienced installers are equipped with state of the art installation equipments and training to adapt all challenging site situations. We ensure that our installation process does not harm any other product already installed in site.



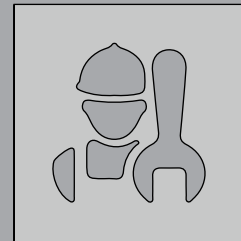
AFTER SALES SUPPORT

We Keep our clients update on the progress of their projects. We offer quick remedies for any defects and provide our services whenever required.



WARRANTY

We provide 5 years of warranty on the compact panels for any manufacturing or moisture related damages and 1 year of warranty on the hardware. Both the warranty offers does not include wear, tear and vandalism inflicted damages.



MAINTENANCE

We are in constant contact with building facilities managers for maintenance services. We inspect all our installed Shaurya systems whenever asked by the concerned authorities. We can also offer our clients annual maintenance contract when the warranty period elapses.

SALES AND SUPPORT

ONE STOP SOLUTION

One stop solution for product, delivery and installation to save time from chasing and enabling quality assurance

MARKET LEADER

Merino holds the market leadership position in restroom cubicles since more than 10 years

EXTENSIVE PRODUCT RANGE

Merino offers extensive range of quality products with top designs to the customers



Estimation Assistance



Design Advisory Service



After Sales Support



Prompt & On-schedule Delivery



CAD Layout Drawings



Doorstep Delivery



Fast & Effective Uninstallation

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DESIGN RANGE



11005
Neo Highland
Pine



10844
Malay Cane



10077
Portland Maple



10291
Alberta Maple



10002
Mangfall Beech



10175
Asian Maple



10544
Canadian
Walnut



10012
Oxford Cherry



10597
Weathered
Pike Oak



10091
Nova Teak



10699
Mahagony



10019
Sapelle



10007
Douglas Fresco
Pine



10856
Siam Novara
Wood



10838
Helsinki
pike Oak

* Kindly refer the actual Sample, Colors may Vary.

DESIGN RANGE



10528
Magas Irish
Walnut



14142
Auburn Kaos
Oak



10858
Wenge



14675
Ebony Sepia



10511
Magas Mystique
Walnut



10848
Straight Walnut



44757
Piazza



40499
Salt & Pepper



40232
Soft Travertine



40261
Calacatta Marble



14690
Alhamara Wood



40250
White Kashmir



47740
Grey Granite



49931
Alumina Pearl



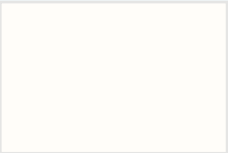
40294
Caldera Marble



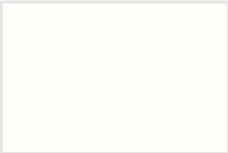
40258
Black Granite

* Kindly refer the actual Sample, Colors may Vary.

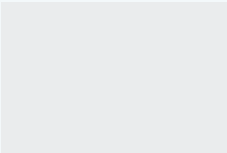
DESIGN RANGE



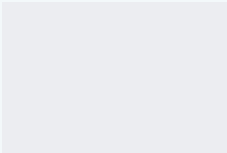
22091
Arctic White



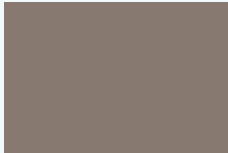
21581
Royal White



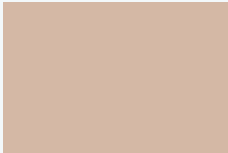
21069
Silver Grey



21081
White Lily



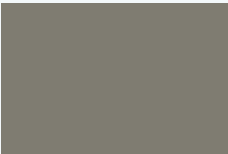
21027
Irish Cream



22087
Shell



21087
Almond



21009
Grey Stone



21023*
Dark Citrus



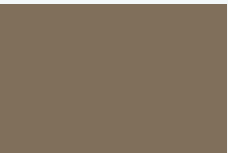
21019
**Folkstone
Grey**



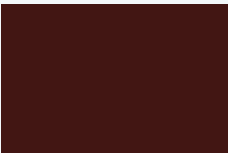
21369
Pebble Grey



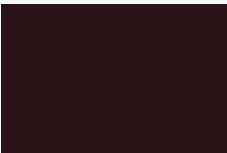
21187
Champagne



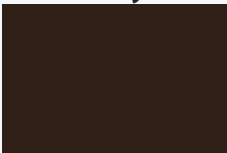
22197
Lark



21055*
Shangrila



22105
Berry Bunch



21028*
Chocolate



21012*
Lilac



21057
Marigold



21065
Cardinal



21142*
Polar Blue



22232
River Blue



22084*
Blush



22192
Lustre Blue



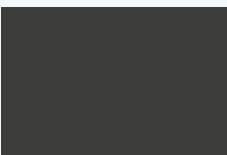
22143
Grassy



22114
Salmon



22113
Fern Green



22099
Slate



21022*
**Midnight
Blue**



22293
Forest Green



21066
Black

* Kindly refer the actual Sample, Colors may Vary.

OUR VALUE ADDED PRODUCTS

MERINO RESTROOMS

THOUGHTFUL SOLUTIONS



MERINO
ARMOUR™
EXTERNAL
CLADDING

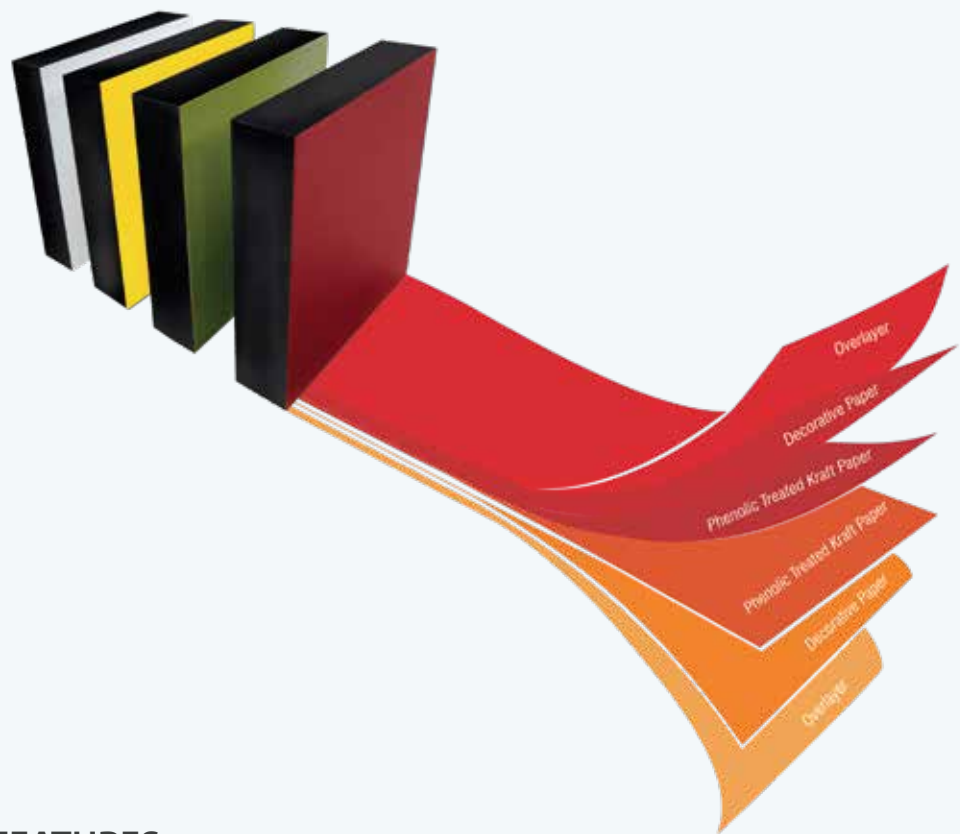


**Image shown are for reference, actual colour may vary.

MADE OF COMPACT

COMPOSITION

The solid compact laminate consists of several layers of cellulose fibrous material (normally paper), thermosetting resins that are bonded together under high pressure settings. The surface on both sides with decorative colours or designs, are fused with melamine based resins while the core layers are permeated with phenolic based resins. During the bonding of the layers heat and high specific pressure are applied simultaneously to obtain a homogeneous non-porous material with high density and smooth finish. The board is manufactured as per EN-438-4 standard.



FEATURES

• Extremely durable	• Scratch resistance
• Strong resistance to impact	• Heat & cigarette burns resistance
• Non-toxic	• Chemical resistance
• Fire retardant (Passes BS-476 Class 1 Test)	• Moisture & steam resistance
• Wide choice of colours	• Colour change resistance
• Easy to clean	• Staining graffiti & bacteria growth resistance

Limited Warranty. Merino Industries Ltd. and Merino Panel Products Ltd. warrant that, under normal use and services, the material and workmanship of their products shall confirm to the standards set forth on the applicable technical data sheet for a period of twelve (12) months from the date of sale to the first consumer purchaser. Dealers and distributors are provided with the technical data sheets, which contain specific standards of performance for the products. In the event that a Merino Industries Ltd. or a Merino Panel Products Ltd. product does not perform as warranted, the first purchaser's sole remedy shall be limited to repair or replacement of all or any part of the product, which is defective, at the manufacturer's sole discretion. This warranty is not transferable, and expires upon resale or transfer by the first consumer purchaser. This warranty shall not apply to defects or damage arising from any of the following: Accidents, abuse or misuse, exposure to extreme temperature, improper fabrication or installation, improper maintenance. No other warranties, expressed or implied, are made. Under no circumstances shall the manufacturer be liable for any loss or damage arising from the purchase, use, or inability to use this product, or for any special, indirect, incidental, or consequential damages. No fabricator, installer, dealer, agent or employee of Merino Industries Ltd. and Merino Panel Products Ltd. has the authority to modify the obligation or limitation of this warranty.

TECHNICAL SPECIFICATIONS

TECHNICAL DATA OF GENERAL PURPOSE COMPACT LAMINATE (STANDARD GRADE) AS PER EN-438-4

PHYSICAL PROPERTIES

Property	Unit	Specifications	Merino Value
Specific Gravity	Kg/m	>1350	>1350
Weight 12mm Thickness 6mm	Kg/m	>24	26
Weight 18mm Thickness 9mm	Kg/m	>36	38
Thickness tolerance (12.0 < t > 16.0mm)	mm	±0.4	±0.3
Thickness tolerance (12.0 < t > 16.0mm)	mm	±0.5	±0.4
Length & Width Tolerance ^(a)	mm	+10mm / -0mm	+10mm / -0mm
Squareness ^(b)	mm / m	1.5 (Max.)	<1.5mm
Edge Straightness ^(b)	mm / m	1.5 (Max.)	<1.5mm
Edge Chipping	mm	3mm (Max.)	<3mm
Flatness ^(b) 10.0 <_ t	mm / m	3mm (Max.)	<3mm
(a) Tolerances for cut-to-size panels shall be agreed between supplier and purchaser (b) Provided the compact laminates are stored in the manner and conditions recommended by the manufacturer they shall comply with flatness requirements specified in the Table 2 when measured in accordance with EN 438-2			

MECHANICAL PROPERTIES

Property	Unit	Specifications	Merino Value
Dimensional Stability at Elevated Temperature (Machine Direction)	Max %	0.30%	<0.16%
Dimensional Stability at Elevated Temperature (Cross Direction)	Max %	0.60%	< 0.35%
Tensile Strength	Mpa	60 (Min.)	> 60
Flexural Strength	Mpa	80 (Min.)	>100
Flexural Modulus	Mpa	9000 (Min.)	>10,000
Resistance to Crazing	Appearance (Grade not worse than)	4	4
Resistance to Water Vapour	Appearance (Grade not worse than)	3 (Gloss finish), 4 (Other finishes)	3, 4
Resistance to Impact by Large Diameter Ball (at drop height of 1800mm min.)	mm	Indentation diameter 10 (Max.)	<10
Resistance to Scratching	Smooth Finishes	2	3
	Textured Finishes	3	3.5
Resistance to Surface Wear (Initial Point)	Revolution (Min.)	150	>150
Resistance to Surface Wear (Wear Value)	Revolution (Min.)	350	>550

THERMAL PROPERTIES

Property	Unit	Specifications	Merino Value
Resistance to Dry Heat at 180 C	Appearance (Grade not worse than)	3 (Gloss finish), 4 (Other finishes)	3, 4
Resistance to Immersion in Boiling Water (increase in thickness)	% (Max.)	2	<1%
Resistance to Immersion in Boiling Water (increase in thickness)	% (Max.)	2	<1%
Resistance to Cigarette Burns	Appearance (Grade not worse than)	3	3

OPTICAL PROPERTIES

Property	Unit	Specifications	Merino Value
Light Fastness (Xenon Arc) - Contrast	Grey Scale rating	4 to 5	4 to 5
Resistance to Staining (Group 1&2)	Appearance (Grade not worse than)	5	5
Resistance to Dry Heat at 180 C	Appearance (Grade not worse than)	4	4

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