



INTERNAL WALL CLADDING

MERINOSHURYA

ELEGANTLY TOUGH

INTERNAL WALL CLADDING
MERINOSHURYA
ELEGANTLY TOUGH



MERINO INDUSTRIES LTD.

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www.merinolaminates.com



ECONOMY • EXCELLENCE • ETHICS

GUARDIANS OF THE WALL



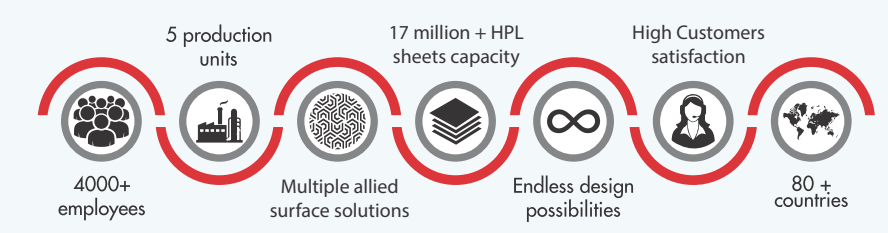
Image shown are for reference. Actual product may vary



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



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

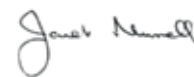
Reaction to fire classification: B – s1, d0

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



IMSL

INDUSTRIAL MICROBIOLOGICAL SERVICES LTD

CERTIFICATE OF ANALYSIS

CERTIFICATE NO.

1014663.1A

CUSTOMER

CUSTOMER REF.

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

SAMPLE DETAILS

DATE RECEIVED

22-Sep-10

Test sample no.10313

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 aureus</i>	1.9E+04	9.0E+03	=	-
Test sample no.10313	<i>Staph aureus</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

FR+ Certificate

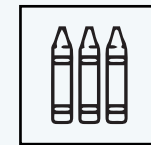
for Merino HPL Compact Panel

AB+ Certificate

for Merino HPL Compact Panel

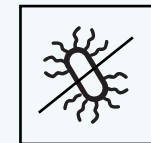
COMPARISON BETWEEN SHAURYA & STONE CLADDING

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.



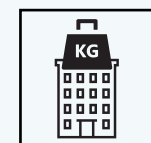
MAINTENANCE

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



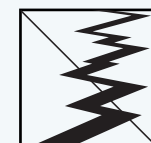
PERFORMANCE AGAINST VIBRATION

The Compact panel of Shaurya has a higher vibration resistance.



LOAD CONTRIBUTION

Much lesser load contribution on building.



SURFACE FAULTS/FINISH

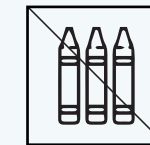
Free from any surface faults. Infact, surface finish can also be customized.



STAIN RESISTANCE

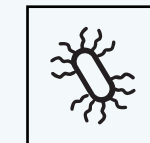
Shaurya has very good stain resistance.

STONE CLADDING



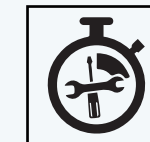
DESIGN OPTIONS

Only the stone designs and plain colour designs are available.



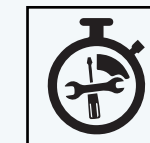
ANTI-MICROBIAL PROPERTY

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.



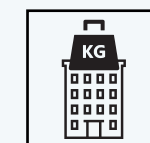
MAINTENANCE

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.

IN COLLABORATION with BREM SYSTEME



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.

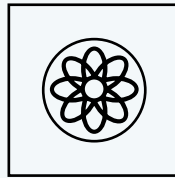
EXPERTISE TO FULFILL ALL YOUR NEEDS

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.

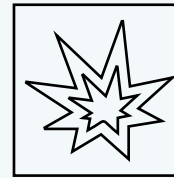
WIDE RANGE OF DESIGNS TO SUIT EVERY BUDGET

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.

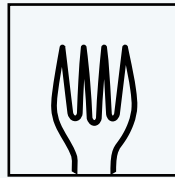
PRODUCT FEATURES



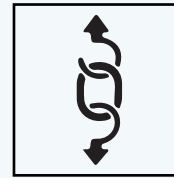
HIGHLY DECORATIVE
Multitude of plain colours and designs (woodgrain & patterns) are available to choose from.



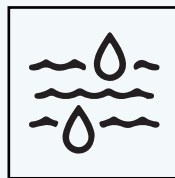
HIGH IMPACT RESISTANT
High density of compact laminate makes it ideal to be used for wall protection system.



SCRATCH RESISTANT
Scratch resistant to highly pointed objects



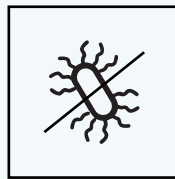
HIGH MECHANICAL STRENGTH
High density of compact laminate makes IWC ideal for crowded places



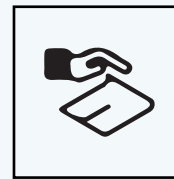
MOISTURE RESISTANT
Moisture resistance feature of Shaurya makes it ideal for Fitness centers, Swimming clubs, Schools etc



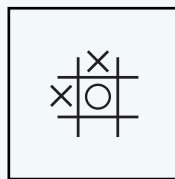
TERMITE RESISTANT
Completely resistant to termite and fungal attack.



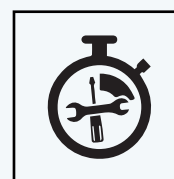
ANTI MICROBIAL
99.99 % microbial resistance.



CLEANABILITY
Easy to clean and maintain.



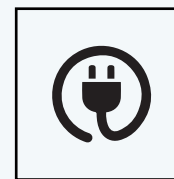
GRAFFITI RESISTANT
Any writing marks made on the surface can easily be removed with diluted solvents such as acetone, thinner etc.



INSTALLATION
Easy installation & uninstallation.



AESTHETICS
Improve aesthetics of the wall.



CABLE MANAGEMENT
Ease of on - wall cable management.



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

COLUMN

APPLICATION



FULL HEIGHT



STAIRCASE



CORRIDOR

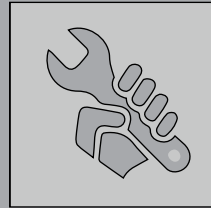


GYM

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

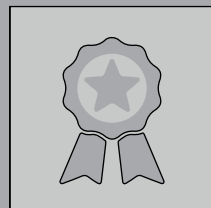
*Image shown are for reference, actual colour may vary.

COMMITTED TO SERVE YOU



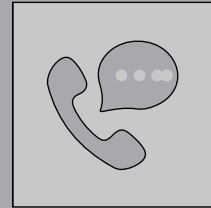
INSTALLATION SUPPORT

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.



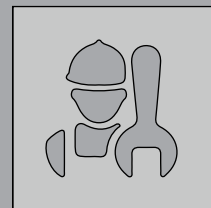
WARRANTY

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.



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.



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

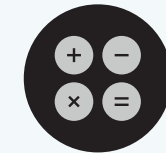
One stop solution for product, delivery and installation to save time from chasing and enabling quality assurance

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

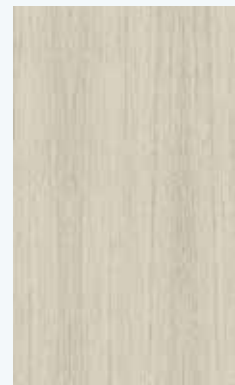


Fast & Effective Uninstallation

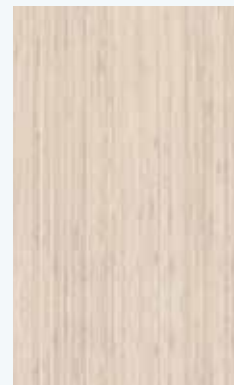
WOODGRAINS



11005
Neo Highland Pine



10838
Helsinki pike Oak



10844
Malay Cane



10002
Mangfall Beech



10077
Portland Maple



10007
Douglas Fresco Pine



10175
Asian Maple



10291
Alberta Maple



10528
Magas Irish Walnut



10856
Siam Novara Wood



14140
Canterbury Kaos Oak



10012
Oxford Cherry



10091
Nova Teak



10699
Mahagony



10019
Sapelle

WOODGRAINS



10510
Magas Walnut Bronze



10597
Weathered Pike Oak



10841
Exodus Pabelo Acacia



14675
Ebony Sepia



10848
Straight Walnut



10858
Wenge



10511
Magas Mystique Walnut



10544
Canadian Walnut



14142
Auburn Kaos Oak



14690
Alhamara Wood



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

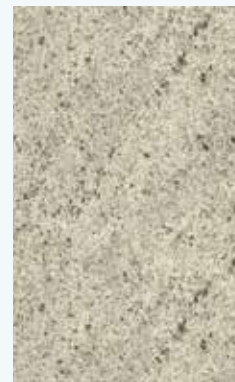
* Kindly refer the actual Sample, Colors may Vary.

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PATTERNS



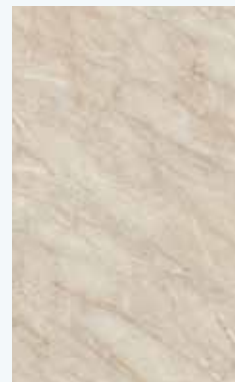
40232
Soft Travertine



40250
White Kashmir



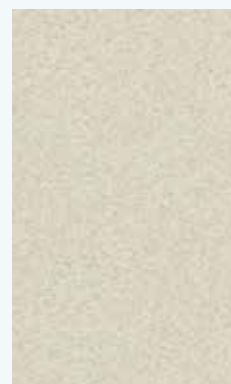
40258
Black Granite



40261
Calacatta Marble



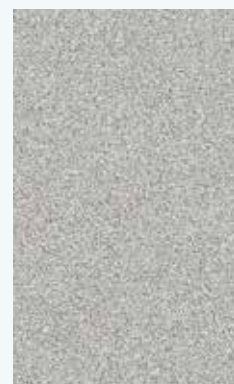
40294
Caldera Marble



40499
Salt & Pepper



44757
Piazza



47740
Grey Granite



49931
Alumina Pearl

WOODGRAINS



21081
White Lily



22091
Arctic White



21187
Champagne



21581
Royal White



21019
Folkstone Grey



21087
Almond



22087
Shell



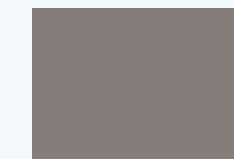
21009
Grey Stone



21027
Irish Cream



21369
Pebble Grey



22197
Lark



21057
Marigold



21023
Dark Citrus



22084
Blush



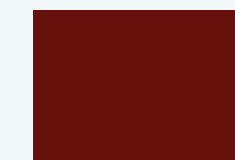
22114
Salmon



21024
Saffron



21065
Cardinal



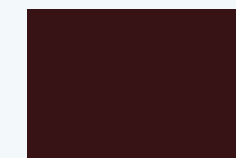
21055
Shangrila



22192
Lustre Blue



21028
Chocolate



22105
Berry Bunch



22143
Grassy



22113
Fern Green



22293
Forest Green



21069
Silver Grey



21012
Lilac



21142
Polar Blue



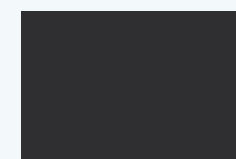
22232
River Blue



21022
Midnight Blue



22099
Slate



21066
Black

OUR VALUE ADDED PRODUCTS

MERINO RESTROOMS
THOUGHTFUL SOLUTIONS



LEDGE WALL IN RESTROOM

MERINO ARMOUR
EXTERNAL CLADDING



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



LIFT LOBBY

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



BASEMENT



**OFFICE
ENTRANCE**



WAITING ROOM

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



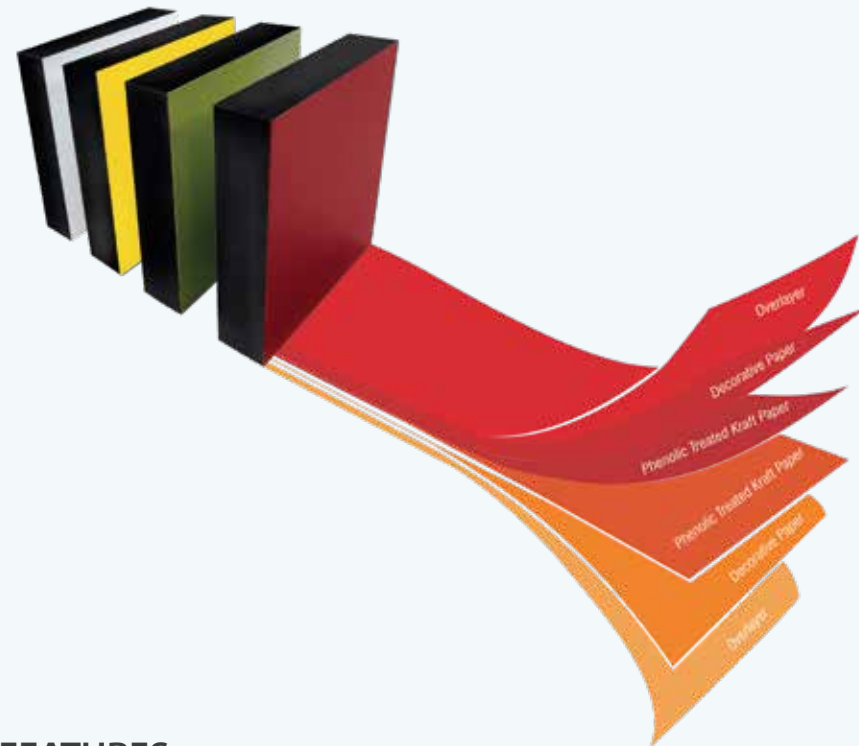
PATIENT WARD

**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 conform 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	mm	+10mm / -0mm	+10mm / -0mm
Squareness	mm / m	1.5 (Max.)	<1.5mm
Edge Straightness	mm / m	1.5 (Max.)	<1.5mm
Edge Chipping	mm	3mm (Max.)	<3mm
Flatness ^a 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 Crazeing	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