DNSM

TOP TONE

High Pressure Laminates

A Product of South Korea
Quality Guaranteed

Since 1969

NEMA LD3-2005

Anti-Bacterial

Postformable

TOP TONE
High Pressure Laminates

DNSM

DUBAI NATIONAL SAW MILL (L.L.C)

P.O. BOX: 115605, Dubai - UAE.
Tel: +971 4 333 5513
E-mail: dnsm@dnsmllc.com, Website: www.dnsmllc.com

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TOP TONE®
High Pressure Laminates

NEW COLLECTION

DNSM
DUBAI NATIONAL SAW MILL (L.L.C)

Dubai National Saw Mill LLC (DNSM) building the future, rooted in excellence founded in 1995, with a vision to deliver quality, reliability, and innovation in the world of building materials. Dubai National Saw Mill LLC (DNSM) has grown into one of the most trusted names across the GCC region.

What began as a modest trading unit has evolved into a multifaceted, full-service organization, blending global sourcing with a diverse and evolving product portfolio. For over three decades, DNSM has been at the heart of architectural progress—supplying premium materials for commercial, residential, and industrial projects.

With a dedicated team, strong affreightment facilities, and international partnerships, DNSM brings unmatched reliability, affordability, and consistency to every order. Each product is backed by expert quality control and a deep commitment to international standards.

At DNSM, it's not just about what we build. It's about how we build it—together

On the Frontier of the World's Infrastructure

Yushin Melamine Industrial Co., Ltd., established in 1969, has over 57 years of experience in the industry, as the first domestic manufacturer of melamine and high-pressure laminate (HPL) products using phenolic resin.

The company has supplied materials for shipbuilding interiors, railway vehicle interiors, architectural furniture, flooring, exterior compact panels, and fire-resistant interior applications.

Over the years, the company grown into a comprehensive chemical company specializing in the production of melamine sheets and related products.

Based on advanced technology and state-of-the-art facilities, our products are marketed under the TOP TONE brand and are sold in more than 50 countries worldwide. The brand has earned strong recognition in the global market.

For more than five decades, our company has continuously worked to diversify and improve its products through ongoing research and development. We are committed to fulfilling our social responsibilities while providing environmentally friendly solutions and building strong partnerships with our customers.

Our goal is to become a world-class company leading the industry in the 21st century, and we remain dedicated to achieving that vision.

YUSHIN MELAMINE MFG. CO., LTD.

Certified Not Only Domestically But Also Internationally!
With Quality Management As Our Top Priority.

РОССИЙСКИЙ МОРСКОЙ РЕГИСТР СУДОХОДСТВА
RUSSIAN MARITIME REGISTER OF SHIPPING

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6.8.3

СВИДЕТЕЛЬСТВО О ТИПОВОМ ОДОБРЕНИИ
TYPE APPROVAL CERTIFICATE

Изготовитель / Manufacturer *YUSHIN MELAMINE MFG. CO., LTD. (BRN 134-81-03293)*

Адрес / Address *150, Sandan-ro 67beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, 15605, Korea*

Изделие* / Product*

"TOP TONE" Melamine Decorative Laminates
Облицовочный материал с характеристиками медленного распространения пламени по поверхности
Surface material with low flame spread characteristics

Код ОКП / ОКПД2: 64 2000 / 28.99.39.190
All Russian Product Classification Code / Code2: 64 2000 / 28.99.39.190

Код номенклатуры / Code of nomenclature *06020102MK*

На основании освидетельствования и проведенных испытаний удостоверяется, что вышеупомянутое(ые) изделие(я) удовлетворяет(ют) требованиям Российского морского регистра судоходства.
This is to certify that on the basis of the survey and tests carried out the above mentioned item(s) complies(ly) with the requirements of Russian Maritime Register of Shipping.

п. 2.1.1.7 и п.2.1.1.8 части VI "Правил классификации и постройки морских судов" (изд. 2022 г.); Правилам II-2/3.29 и II-2/6.2, МК СОЛАС-74 с поправками; частям 2 и 5 Кодекса ПИО (Рез. ИМО MSC.307(88)); Технического регламента о безопасности объектов морского транспорта (ТР-620).
item 2.1.1.7 and 2.1.1.8 of Part VI "Rules for the Classification and Construction of Sea-Going Ships (edition 2022); Regulation II-2/3.29 and II-2/6.2 SOLAS-74 as amended; 2010 FTP Code Parts 2 and 5 (IMO Res. MSC.307(88)); Technical Regulations Concerning the Safety of See Transport Items (TR-620).

Настоящее Свидетельство о типовом одобрении действительно до / This Type Approval Certificate is valid until *16.12.2027*

Настоящее Свидетельство о типовом одобрении теряет силу в случаях, установленных в Правилах технического наблюдения за постройкой судов и изготовлением материалов и изделий для судов.
This Type Approval Certificate becomes invalid in cases stipulated in Rules for the Technical Supervision during Construction of Ships and Manufacture of Shipboard Materials and Products.

Дата выдачи / Date of issue *16.12.2022* № *22.44.01.03198.296*

Российский морской регистр судоходства
Russian Maritime Register of Shipping

М.П. / L.S. (подпись / signature) *Латухин М.О./ M. Latukhin* (фамилия, инициалы / name)

*Дополнительную информацию см. на обороте.
Additional information see overleaf.

TYPE APPROVAL CERTIFICATE

KR HELLAS LTD.
41, Athinas Av., Vouliagmeni,
GR-16671, Athens, Greece
TEL: +30-210-428-6736
FAX: +30-210-428-6728

Certificate No : MED-MB-1206-19
MED Item No. : MED/3.18a

This consists of 3 pages.
Page 1 / 3

EC TYPE-EXAMINATION CERTIFICATE

as per Module B
of European Council Directive 2014/90/EU on Marine Equipment (MED)

THIS IS TO CERTIFY that KR Hellas Ltd., designated by the Hellenic Republic as Notified Body according to Council Directive 2014/90/EU on Marine Equipment, did undertake the EC Type Examination procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU:

Manufacturer	**Name**	: YUSHIN MELAMINE MFG. CO., LTD
	Address	: 150, Sandan-ro 67beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Rep. of Korea
Authorised Representative	**Name**	: MOVENA GmbH
	Address	: Verbindungsweg 8, D-28759 Bremen, Germany
Regulation Item (MED item designation)		: Surface materials and floor coverings with low flame-spread characteristics: decorative veneers
USCG Approval Category (if not applicable, input N/A)		: 164.112/EC2198
Product Types		: Top-Tone
Specified Standards ***Commission Implementing Regulation (EU)2025/1533***		: SOLAS 74 Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO MSC/Circ.1120, IMO Res. MSC.307(88)-(2010 FTP Code), as amended.
Date of issue		: 2024-08-23
Date of reissue		: 2026-01-13
Expiration Date		: 2029-08-22

Issued at Athens, under the authority of the Hellenic Republic by **KR Hellas Ltd.**

Notified Body No.2198

Nikolaos Katiforis
Quality Manager of KR Hellas Ltd.

Any person not a party to the contract pursuant which this document is delivered may not assert a claim against KRH for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personal of KRH in establishment or issuance of this document, and in connection with any activities for which it may provide. In this provision KRH shall mean the KR Hellas Ltd. as well as all its subsidiaries, directors, officers, employees and any other acting on behalf of KR Hellas Ltd.

EC TYPE EXAMINATION CERTIFICATE

KR HELLAS LTD.
41, Athinas Av., Vouliagmeni,
GR-16671, Athens, Greece
TEL: +30-210-428-6736
FAX: +30-210-428-6728

Certificate No : MED-MD-1011-23
MED Item No. : MED/3.18a

This consists of 2 pages.
Page 1 / 2

EC QUALITY SYSTEM ASSESSMENT CERTIFICATE

as per Module D
of European Council Directive 2014/90/EU on Marine Equipment (MED)

THIS IS TO CERTIFY that KR Hellas Ltd., designated by the Hellenic Republic as Notified Body according to Council Directive 2014/90/EU on Marine Equipment, did undertake the conformity assessment described in Annex II, Module D of the Directive, for the equipment of the manufacturer identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) and with the type described in the EC Type Examination Certificates (Module B) listed in the Attachment to this Certificate.

Manufacturer	**Name**	: YUSHIN MELAMINE MFG. CO., LTD
	Address	: 150, Sandan-ro 67beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Rep. of Korea
Authorised Representative	**Name**	: MOVENA GmbH
	Address	: Verbindungsweg 8, D-28759 Bremen, Germany
Regulation Item (MED item designation)		: Surface materials and floor coverings with low flame-spread characteristics: decorative veneers
Date of issue		: 2026-01-13
Expiration Date		: 2029-01-12

Issued at Athens, under the authority of the Hellenic Republic by **KR Hellas Ltd.**

Notified Body No.2198

Nikolaos Katiforis
Quality Manager of KR Hellas Ltd.

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EC QUALITY SYSTEM ASSESSMENT

유신메라민 (주)
YUSHIN MELAMINE MFG. CO., LTD

Movena

Authorized Representative Appointment Certificate

In accordance with the DIRECTIVE 2014/90/EU of the European Parliament and of the council of 23 July 2014, on marine equipment and repealing Council Directive 96/98/EC,

MOVENA GmbH
Verbindungsweg 8,
D-28759 Bremen, Germany

is the Authorized Representative within the European Union for the period from

2024-08-30 until 2029-08-29

for

Manufacturer
YUSHIN MELAMINE MFG. CO., LTD.

#150, Sandan-ro 67beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Rep. of Korea

of the following marine equipment

Product	Model(Type)	Applied Module(Certificate Number)
Surface Materials and Floor Coverings with Low Flame-Spread Characteristics (a) Decorative Veneers	"Top Tone" Melamine Decorative Laminates	B+D (MED-MB-1206-19+MED-MD-1011-23)

to keep the EU declaration of conformity and the technical documentation at the disposal of national surveillance authorities available; to provide European authorities with all the information and documentation necessary to demonstrate the conformity of a product with the directive upon a reasonable request of such authority; to cooperate with the competent authorities, at their request, on any action taken to eliminate the risks posed by products from the manufacturer.

	On behalf of the manufacturer	Confirmed on behalf of MOVENA GmbH
Date:	2025-11-27	2025-11-27
Place:	Ansan, Korea	Bremen, Germany
Name, Signature:	Sung-Pyo, Hong President S.P. Hong	V. Wasmansdorff
Title	President	Managing Director

YUSHIN MELAMINE MFG CO., LTD.

AUTHORISED REPRESENTATIVE APPOINTMENT

CERTIFICATION

GREENGUARD GOLD

CERTIFICATE
OF COMPLIANCE

GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL GDM/GG UL 2818
GOLD

YUSHIN MELAMINE MFG CO LTD
Top-Tone

129872-420
Certificate Number

12 Sep 2018 - 12 Sep 2026
Certificate Period

Certified
Status

UL 2818 - 2022 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using a Cleanroom Environment with an air change of 0.82 hr^{-1} and a loading of 2.22 m^2.
Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818, Section 7.1 and 7.2.

GREENGUARD Gold Certification Criteria for Building Products and Interior Finishes

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC (A)	-	0.22	mg/m³
Formaldehyde	50-00-0	9 (7.3 ppb)	µg/m³
Total Aldehydes (B)	-	0.043	ppm
4-Phenylcyclohexene	4994-16-5	6.5	µg/m³
Particle Matter less than 10 µm (C)	-	20	µg/m³
1-Methyl-2-pyrrolidinone (D)	872-50-4	160	µg/m³
Individual VOCs (D)	-	1/2 CREL or 1/100th TLV	-

(A) Defined to be the total response of measured VOCs falling within the C_6 – C_{16} range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD Gold (0.22 mg/m³) fall in the range of 0.5 mg/m³ or less, as specified in CDPH Standard Method v1.2.

(B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.

(C) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.

(D) Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m³/day

(E) Allowable levels for chemicals not listed are derived from the lower of 1/2 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EH8/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) Industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Buildin D-7, and Cincinnati, OH 45211-4438).

UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreement and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.

GREENGUARD STANDARD

CERTIFICATE
OF COMPLIANCE

GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL GDM/GG UL 2818

YUSHIN MELAMINE MFG CO LTD
Top-Tone

129872-410
Certificate Number

12 Sep 2018 - 12 Sep 2026
Certificate Period

Certified
Status

UL 2818 - 2022 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Building materials are determined compliant in accordance with an Office environment with an air change of 0.68 hr^{-1} and a loading of 2.22 m^2.
Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.2.

GREENGUARD Certification Criteria for Building Products and Interior Finishes

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC (A)	-	0.50	mg/m³
Formaldehyde	50-00-0	61.3 (50 ppb)	µg/m³
Total Aldehydes (B)	-	0.10	ppm
Particle Matter less than 10 µm (C)	-	50	µg/m³
4-Phenylcyclohexene	4994-16-5	6.5	µg/m³
Individual VOCs (D)	-	1/10th TLV	-

(A) Defined to be the total response of measured VOCs falling within the C_6 – C_{16} range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD (0.50 mg/m³) fall in the range of 0.5 mg/m³ or less, as specified in CDPH Standard Method v1.2.

(B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.

(C) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific tes method) and for wood finishing (sanding) systems.

(D) Allowable levels for chemicals not listed are derived from 1/10th of the Threshold Limit Value (TLV) Industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).

UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreement and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.

CERTIFICATION

CONTROLUNION

YUSHIN MELAMINE MFG. CO., LTD
Mr. S.P HONG
150, Sandan-ro 67beon-gil, Danwon-gu
15605 Ansan-si, Gyeonggi-do
KOREA (South)

Zielona Góra, 02/08/23

Ref.: PRJ 895499 / FSC COC

Concerns: certificate

Dear Sir/Madam,

Please find enclosed your Scope Certificate for your project. When Control Union Certifications B.V. does not receive any reaction within 21 days after sending (date of postmark), it is assumed that you agree with its contents.

Your valid scope certificate summarises and visualises your current achievements with regard to the certification of your production. Please feel free to use it for your public relation purposes.

Please be aware that:
- The Scope Certificate can not be used as an Import or Transaction Certificate for a certain product.
- Only your most recently issued Scope Certificate is valid.

We hope to have informed you sufficiently.

With kind regards,

CONTROLUNION CERTIFIED

Knysak, Mr. (Robert)
Control Union Certifications
Per order. Daniel Kim

EQ QUALITY SYSTEM ASSESSMENT

KOTRIC Certification Center

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

YUSHIN MELAMINE MFG. Co., Ltd.

150, Sandan-ro 67beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

This is to certify that organization above has been audited and registered by KOTRIC-CC for the standard and scope described as follows:

ISO 14001:2015 / KS I ISO 14001:2015

CERTIFICATE NUMBER : KES 40
SCOPE :
Manufacture of high pressure laminates

EXCLUDED REQUIREMENT [None]

Valid Until	: July	12. 2026
Initial Date	: July	13. 2002
Issued Date	: June	16. 2023

President

KOTRIC Certification Center

WEPRIME TWINTOWER, Rm 1026, 1027, B-Dong,
130 Eutteum-ro, Deogyang-gu, Goyang-si, Gyeonggi-do, 10544, Republic of Korea
www.ktrcc.or.kr

SINCE 1995 KAB-EC-04

This certificate is the property of the KOTRIC-CC
This certificate falls within the KAB scope of Accreditation of KOTRIC-CC.
KAB is an IAF-MLA signatory Accreditation Body.
This certificate is valid only upon surveillance audit and renewal audit.
If not be audited during the period, the certification will be canceled.

ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM

KOTRIC

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

YUSHIN MELAMINE MFG. Co., Ltd.

150, Sandan-ro 67beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

This is to certify that organization above has been audited and registered by KOTRIC-CC for the standard and scope described as follows:

ISO 45001:2018

CERTIFICATE NUMBER : IOS 8183
SCOPE :
Manufacture of high pressure laminates

[IAF CODE : 14]

EXCLUDED REQUIREMENT [None]

Valid Until	: August	03. 2026
Initial Date	: August	04. 2023
Issued Date	: August	04. 2023

President

KOTRIC Certification Center

ISO 45001 SAFETY AND HEALTH MANAGEMENT SYSTEM

KOTRIC

QUALITY MANAGEMENT SYSTEM CERTIFICATE

YUSHIN MELAMINE MFG. Co., Ltd.

150, Sandan-ro 67beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

This is to certify that organization above has been audited and registered by KOTRIC-CC for the standard and scope described as follows:

ISO 9001:2015 / KS Q ISO 9001:2015

CERTIFICATE NUMBER : KQS 5013
SCOPE :
Design, development and manufacture of high pressure laminates

EXCLUDED REQUIREMENT [None]

Valid Until	: June	20. 2026
Initial Date	: June	21. 1996
Issued Date	: June	16. 2023

President

KOTRIC Certification Center

ISO 9001 QUALITY MANAGEMENT SYSTEM

STRUCTURE & FEATURES

PRODUCT FEATURES

ECO FRIENDLY & SAFTY

This product has long-lasting cleanliness
and has been proven safe from fire!

Fire Safety

It Is A Semi-Non-Combustible Material. It Has A Flame Retardant Function That Prevents The Spread Of Fire.

Continuity Of Cleanliness

Inhibits Proliferation Of Bacteria And Fungi With Bio-Antibacterial Treatment.

Various Functionality

Excellent Durability. Wear Resistance, Heat Resistance, Scratch Resistance, Etc.

DESIGN & CONVENIENCE

High-quality design and convenient construction
It sets a new standard for interior design!

Innovative Design

We study patterns. Leading designs and trends at home and abroad.

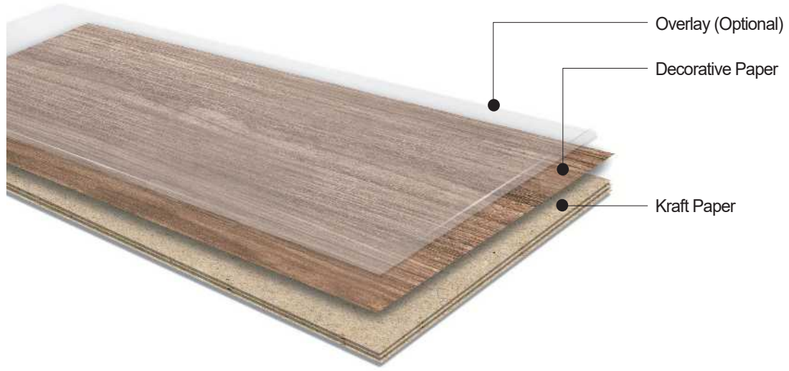
Convenient Construction

It is possible. It is convenient for anyone to construct and is easy to process.

Strong Hardness

It is strong. It has a surface hardness that is resistant to pressing, dents, etc.

PRODUCT STRUCTURE



SURFACE / SIZE

Surface / Size	1235×2450(4'×8')	1300×2450(4 1/3'×8')	1300×3050(4 1/3'×10')
G	◯	◯	◯
M	◯	◯	-
NT	◯	◯	◯
ET	◯	◯	○
SM	◯	-	-
EW	◯	-	-
WA	◯	-	-
RT	○	-	-
ML	◯	-	-
TT	◯	-	-
EL	◯	-	-
XT	◯	-	-
OT	◯	-	-
FT	○	-	-
CT	○	-	-
AT	○	-	○
BT	○	-	-
PT	○	-	-

CARE & MAINTENANCE

Stains/Marks	Washing Method
Dust Or Light Stains	Use dry or wet paper, towels, sponges, wet cloths, etc. Wipe it off and dry it.
Grease, Oil, Grime, Sticky Residue, Handprints, Various Traces Of Rust, Juice, Coffee, Tea, Wax, Etc.	Cloth, soft nylon brush, powdered detergent, mild soap, After wiping with toilet soap or liquid detergent, Rinse with clean water and dry.
Stains or marks from old tea, coffee, juice, etc.	Clean immediately with powdered detergent or bleach. (Do not use too often)
Pencil Lead, Pen, Marking Pen, Ballpoint Pen, Lipstick, Crayons, Stains Or Marks From Wax, Shoe Polish, Nicotine, Etc.	Acetone, alcohol, benzene, gasoline, nail polish remover, etc. Wash with organic solvent.
Water-based and oil-based paint, double-complex paint, nail polish, Stains or marks from stamp ink, spray paint, etc.	Wash with water or organic solvent, and double composite paint (Do not use toilet detergent.)

SPECIFICATION & USES

Type	Description	Spec.
S/T	High Pressure Laminates	Size Length : 2450, 3050mm / Width : 1235, 1300mm Thickness: 0.5mm~more(Up)
P/F	Post-Forming Grade High Pressure Laminates	Size Length : 1840, 2450, 3050mm / Width : 1235, 1300mm Thickness : 0.5mm~more(Up)
B/K	Phenolic Laminated Balance sheet (Backer)	Size Length : 1840, 2450mm / Width : 1235mm Thickness : 0.6mm~more(Up)
LPM	Low Pressure Melamine Resin	Size : 4'×8' Substance : 70g/m'more(Up)
MPAL	Melamine Plastic Aluminium Laminates	Size : 4'×8' Thick : 1.6mm
MPHB	Melamine Plastic Hard Board	Size : 4'×8' Thick : 1.6mm
(SPECIAL)	UP/T(Ultra Post-forming Laminates) CP/T(Codi Plus Laminates) AV/T(Aluminium Valley Sheet) PV/T (Pattern Valley Sheet)	Size : 4'×8' Thick : 0.5mm~more(Up)

Type	Uses
S/T	Work-Top for Furnitures such as Desks, Dining-table, Tea-table, Kitchen-units, Interior Constructions, Wall panel, ceiling, Counter for Hotels, Office, Ship-building, Airport, etc.
P/F	Moldable (Post-formable) in round form at the edges in one part form the work-top: Simple in edge treatments. Elegant round edges and water proof process are used for Kitchen furnitures (Kitchen-units)Good safety for children with round edges is used for top of children's desk.
B/K	Balancing Laminate for back side of core materials (PB, Plywood, MDF, HDF) on which surfaces are laminated with"TOP-Tone" Laminates. Supporting material under Veneer (Piano, Furnitures)
LPM	High quality side panel of Furnitures, Cupboard, Door for Kitchen units.
MPAL	Interior construction, train, subway, vessel etc.
MPHB	
SPECIAL	4R foaming board / CPL (Utility model registration No. 0270776) Corrugated aluminum veneer board (Utility model registration No. 0280217) / Corrugated melamine veneer plate

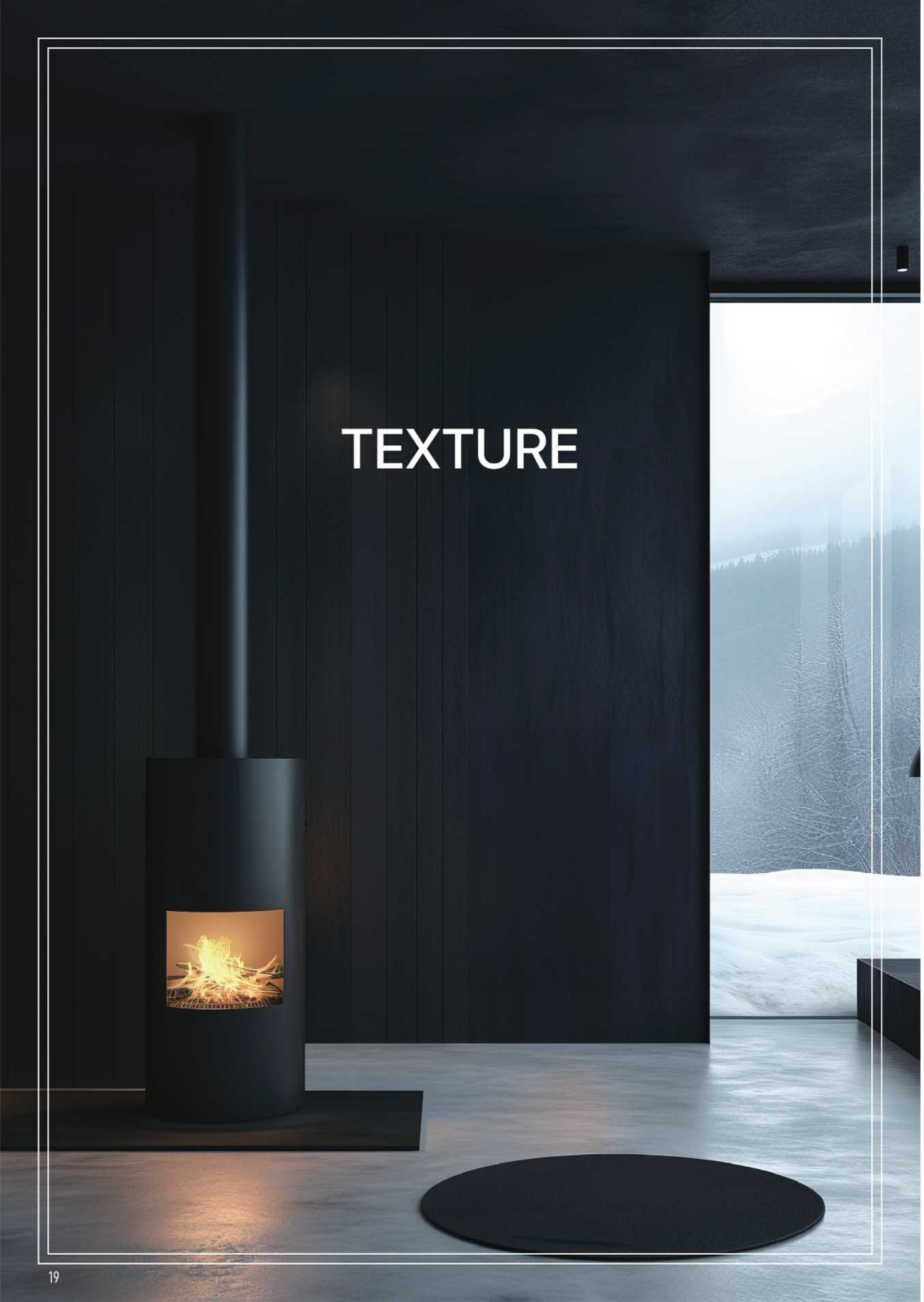
COMPARISON BETWEEN NEMA LD3-2005 LIMITS FOR HPL AND TOP TONE'S PERFORMANCE

Test Method & Description	NEMA LD3-2005 Standard (1.0mm & Textured Finish)	Top Tone HPL (1.0mm & Textured Finish)
3.2 Surface finish (Gloss Level) Gloss meter shines at 60° angle and measures the reflection on the surface.	Length Direction: 1-20 Width Direction: 1-20	Length Direction: 12.8 Width Direction: 12.6
3.3 Light Resistance Exposed to UV light for 72 hrs to test fading.	Slight to No Effect	No Effect
3.4 Cleanability/Stain Resistance 15 household stains applied for 24 hrs. Top Tone Score 12, which is better than NEMA limit of 20. The lower the Score, the easier it is to clean.	Maximum Score: 20	Score: 12
3.5 Boiling Water Resistance A 10ml sample of water at 100°C is placed on the surface and maintained for 20 minutes and checked after 24 hours.	No Effect	No Effect
3.6 High Temp Resistance (oil) Hot oil (180-200°C) Placed for 20 mins.	Slight Effect	No Effect
3.7 Scratch Resistance stylus dragged with increasing Pressure.	Scratches at ≥1.0 N	Scratches at 4-6 N
3.8 Ball Impact Resistance 224g steel ball with diameter of 38.1mm dropped	Minimum 750 mm	Passed at 850 mm
3.9 Dart Impact Resistance 25g dart with 5mm Dia tip dropped	Minimum 300 mm	Passed at < 900 mm
3.10 Radiant Heat Resistance (Coil) Heated coil (~200°C) placed at control height	100 Seconds	163 seconds
3.10 Radiant Heat Resistance (Strip) Heated strip (~200°C)	100 Seconds	214 Seconds

COMPARISON BETWEEN NEMA LD3-2005 LIMITS FOR HPL AND TOP TONE'S PERFORMANCE

Test Method & Description	NEMA LD3-2005 Standard (1.0mm & Textured Finish)	Top Tone HPL (1.0mm & Textured Finish)
3.11 Dimensional Change Heated to 70°C or exposed to 93% humidity; expansion and shrinkage are measured	Length Direction: 1.1% Width Direction: 1.4%	Length Direction: 0.36% Width Direction: 0.57%
3.12 Dimensional Stability Tested at room temperature exposing to high (98%) and low (10%) humidity at 21°C for 4 days.	Length Direction: 1.0% Width Direction: 1.3%	Length Direction: 0.20% Width Direction: 0.40%
3.13 Wear Resistance Rotating abrasive wheels until the laminate wears through.	400 Cycles	850 Cycles
3.14 Formability (Post-forming) Heated to 163°C, bent over 10 mm radius.	Passed (Postforming Grade)	Passed (Postforming Grade)
3.15 Blister Resistance Exposed to 60°C, 90% RH for Min. 48 hrs.	55 Seconds	88 Seconds

- Top Tone HPL meets or exceeds the key performance standards of NEMA LD3.
- Highlights superior results in wear resistance, heat tolerance, and dimensional Stability.
- Always refer to these tests as "real-world simulations" (e.g., hot pans, cleaning chemicals, dropping objects).



TEXTURE

35*50

T-400 NT

35*50

T-400 M

35*50

T-400 G

35*50

T-400 SM

35*50

T-400 TT

35*50

T-400 YT

35*50

T-400 KT

35*50

T-400 EW

35*50

T-400 HT

35*50

T-400 AT

35*50

T-400 PT

SOLID

40*23	40*23	40*23	40*23
T-10-8 NT	T-150 NT	T-454 NT	T-2709 NT
40*23	40*23	40*23	40*23
T-2724 NT	T-2730 NT	T-2767A NT	T-2769A NT
40*23	40*23	40*23	40*23
T-266 NT	T-404 NT	T-2753A NT	T-2754A NT
40*23	40*23	40*23	40*23
T-2764A NT	T-2765A NT	T-414 NT	T-1725B NT
40*23	40*23	40*23	40*23
T-1747 NT	T-1758 NT	T-2758A NT	T-400 NT
40*23	40*23	40*23	40*23
T-2775 NT	T-2729 NT	T-200 NT	T-900 NT
40*23	40*23	40*23	40*23
T-2713 NT	T-2718 NT	T-2719 NT	T-2746 NT

40*23

T-2752 NT

40*23

T-2756A NT

40*23

T-90 NT

40*23

T-2755A NT

40*23

T-2777B SM

40*23

T-2777C SM

40*23

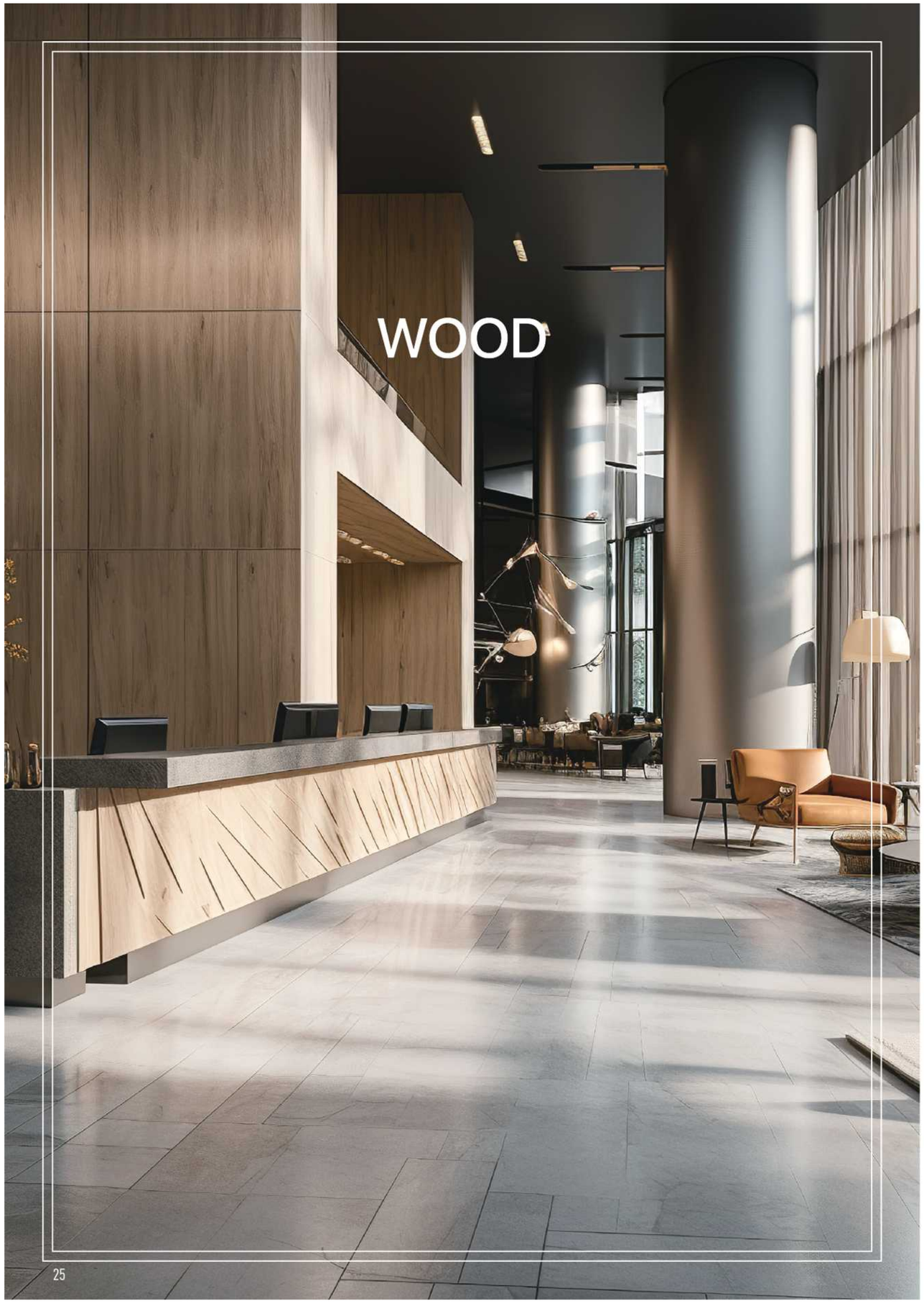
T-2777G SM

40*23

T-2778D SM

40*23

T-2778E SM



WOODGRAIN

35*50

T-2361C NT

35*50

T-2371P NT

85*115

35*50

T-13267L AT

35*50

T-13288B NT

T-13480P TT

85*115

T-13476A AT

35*50

T-13362A TT

35*50

T-13362B TT

35*50

T-13480K TT

35*50

T-13528A SM

35*50

T-13540A AT

35*50

T-13604 AT

35*50

T-13646 SM

35*50

T-13676H NT

35*50

T-13702 YT

35*50

T-13702G YT

35*50

T-13702E NT

35*50

T-13706 YT

85*115

T-13711F KT

35*50

T-13708F NT

35*50

T-13706F YT

35*50

T-13711G NT

35*50

T-13723E NT

35*50

T-13726E NT

85*115

T-23195C EW

35*50

T-13733 NT

35*50

T-13748E KT

85*115

T-23221A HT

85*115

T-23221D HT

35*50

T-23242A SM

35*50

T-23242B SM

85*115

35*50

T-23264A HT

35*50

T-23264B HT

T-23288 AT

35*50

T-23300E EW

35*50

T-23301E NT

85*115

35*50

T-23301F NT

35*50

T-23301I NT

T-23304 NT

35*50

T-23314 AT

85*115

35*50

T-23312E AT

35*50

T-23314E AT

T-23331 NT

35*50

T-23334 KT

35*50

T-23334E KT

85*115

35*50

T-23335 KT

35*50

T-23335F KT

T-23331E NT

35*50

T-23341 KT

STONE

85*115

T-1554A G

85*115

T-1554B G

85*115

T-1566 NT

85*115

T-1578 PT

85*115

85*115

T-1578E PT

T-1582 PT

85*115

T-1585 NT

35*50

35*50

T-1587 NT

T-2542A G

85*115

35*50

35*50

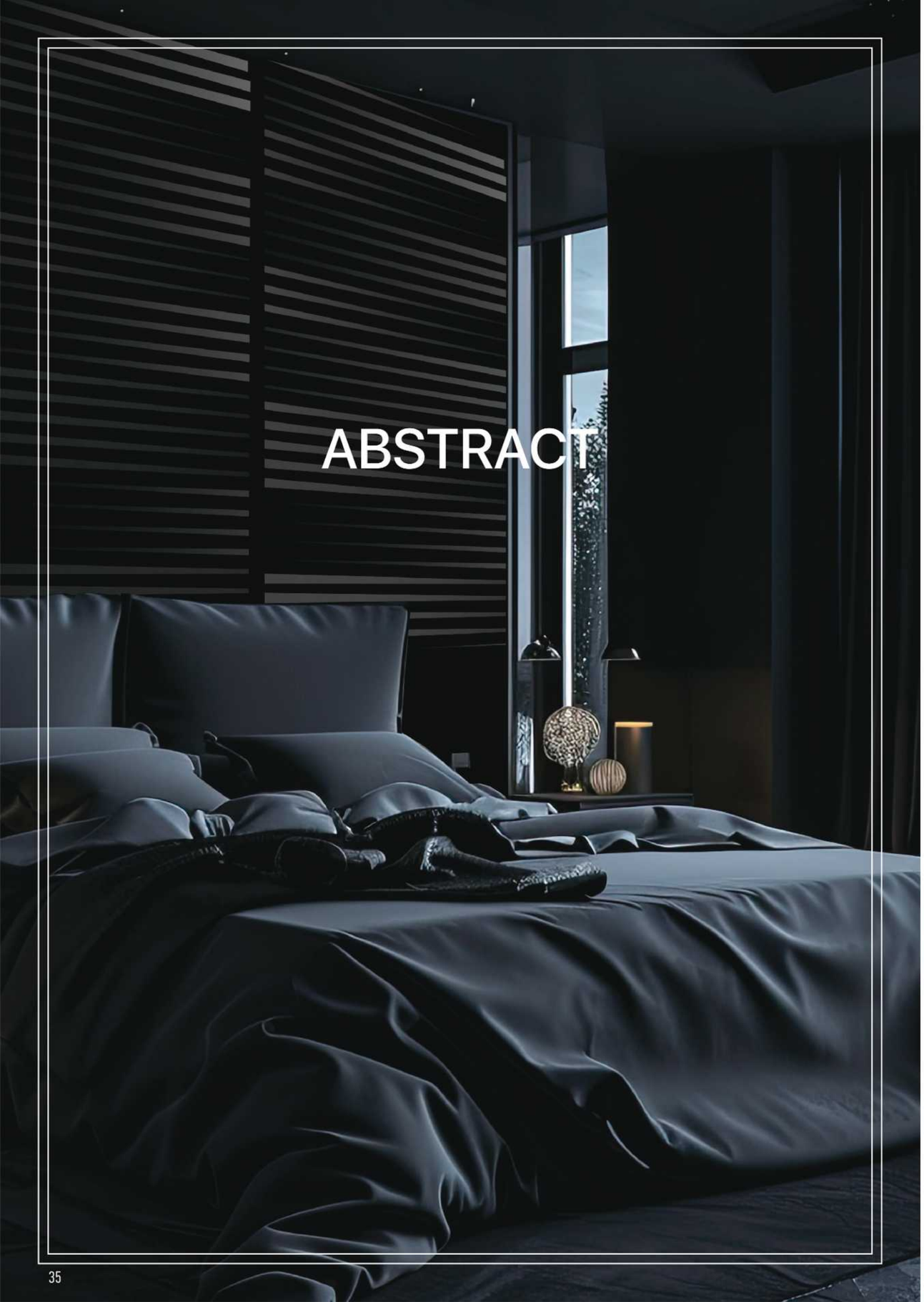
T-2542C G

T-2554E BT

T-2557 BT

85*115

T-2557E BT



ABSTRACT

35*50

T-1132C EL(G)

35*50

T-1160 NT

85*115

35*50

T-1160E NT

35*50

T-1160F NT

T-2171 SM

85*115

T-2171E SM

85*115

T-2709 PT

85*115

T-2754A EL(M)

85*115

T-11200A G

85*115

T-11200C G

85*115

T-11211C ML

85*115

T-11239 NT

85*115

T-11212A ML

85*115

T-11212C ML

85*115

T-11211B ML

METAL

35*50

T-2722A M

35*50

T-2722C M

35*50

T-2722E M

35*50

T-2722F M

35*50

T-2722G M

35*50

T-2722H M

35*50

T-2766A

35*50

T-2766E

85*115

T-2766G

CLEANATE

35*50

T-2780

35*50

T-2780E

35*50

T-2780F

35*50

T-2780G

This remarkable product uses advanced acrylic resin impregnation and Electron Beam Curing (EBC technology).The laminate offers several special features, including a cozy surface feel, high resistance to scratches and heat, and an anti-fingerprint finish.It is designed to minimize light glare, enhancing its luxurious appearance. Additionally, Transform your surfaces effortlessly by using a melamine sponge to eliminate micro scratches. Experience the difference and restore your items to their original beauty!

35*50

T-2780H

35*50

T-2780I

35*50

T-2780K

35*50

T-2780M

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D.NO	FINISH	PAGE NO
T-10-8	NT	22
T-90	NT	23
T-150	NT	22
T-200	NT	22
T-266	NT	22
T-400	NT	22
T-404	NT	22
T-414	NT	22
T-454	NT	22
T-900	NT	22
T-1132C	EL(G)	36
T-1160	NT	36
T-1160E	NT	36
T-1160F	NT	36
T-1554A	G	32
T-1554B	G	32
T-1566	NT	32
T-1578	PT	32
T-1578E	PT	33
T-1582	PT	33
T-1585	NT	33
T-1587	NT	34
T-1725B	NT	22
T-1747	NT	22
T-1758	NT	22
T-2171	SM	36
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T-2371P	NT	26
T-2542A	G	34
T-2542C	G	34
T-2554E	BT	34
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T-2766E	METAL	40
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T-2777C	SM	23
T-2777G	SM	23
T-2778D	SM	23
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T-2780G	CLEANATE	42
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T-2780I	CLEANATE	42
T-2780K	CLEANATE	42
T-2780M	CLEANATE	42
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T-11200C	G	37
T-11211B	ML	38
T-11211C	ML	37
T-11212A	ML	38
T-11212C	ML	38
T-11239	NT	38
T-13267L	AT	26
T-13288B	NT	26
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T-13362B	TT	26

D.NO	FINISH	PAGE NO
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T-13540A	AT	27
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T-13706	YT	27
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T-13723E	NT	28
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T-13733	NT	28
T-13748E	KT	28
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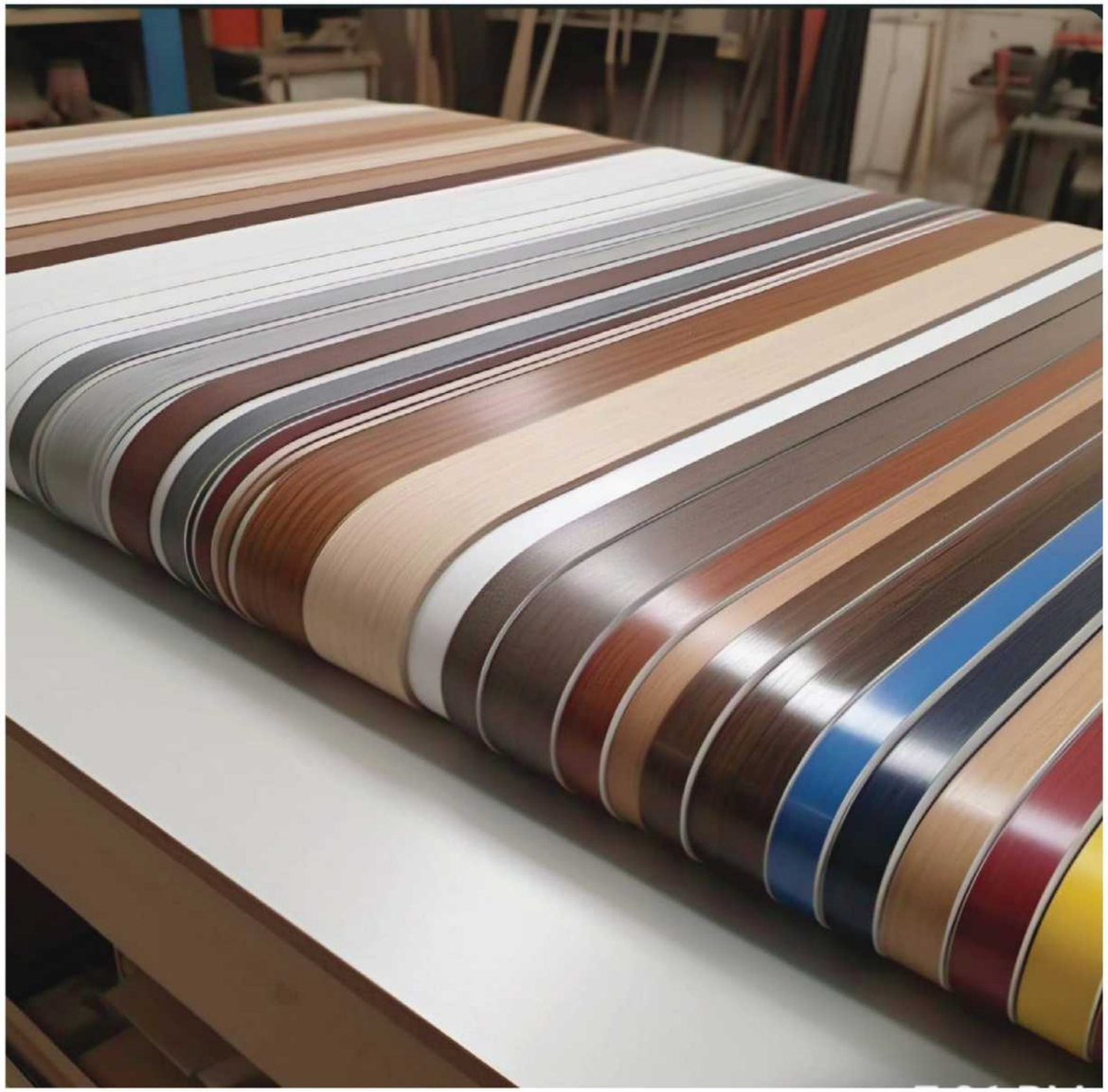
STAR Edge Banding

We are pleased to inform you that we offer an extensive range of over 2,000 PVC edge banding colours, specially developed to perfectly match our complete HPL (High Pressure Laminate) colour collection. This ensures a seamless, uniform, and premium finish for all furniture and interior projects. With our wide variety of shades, textures, and tones, you can easily find the exact edge banding required to achieve the best aesthetic and professional look.