INNOMASTER

LCB

FIREPROOF

WALL PANEL COLLECTION

www.innomaster.com.cn

Who we are



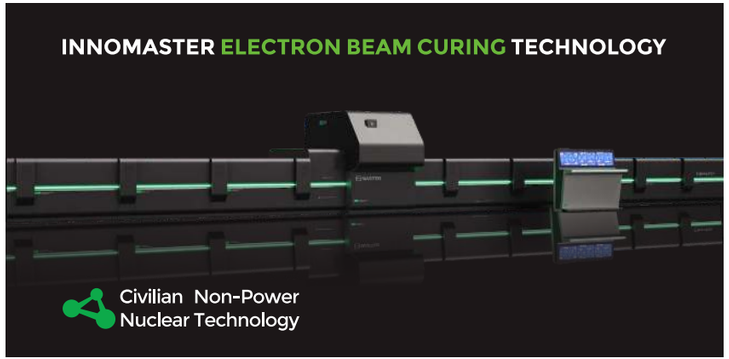
INNOMASTER Home (ZhongShan) Co., Ltd. is a global new material company integrating design, research and development, production, sales, and service. In 2016, INNOMASTER established its headquarters and supply chain center in Zhongshan, a logistics hub in Guangdong, China. Covering an area of 30,000 square meters and employing over 300 staff, it is one of the first professional companies worldwide to adopt digital printing technology for mass production of wall panels and flooring.

INNOMASTER has set up a product design center in Modena, Italy, a laminate flooring manufacturing base in Zhengzhou, Henan, China, and an export-oriented factory in Vietnam. Its products are exported to North America, South America, Europe, Southeast Asia, and other regions. The company has established sales subsidiaries in South China, East China, Central China, Northeast China, Taipei, and Hong Kong, with a total of over 300 stores distributing our products nationwide and worldwide.





What we have



The electron is a fundamental particle. In its solid form, electrons are responsible for conducting electric charge, thereby generating electric current. When using an electron beam to process materials, particles loaded on the cathode are released, accelerated, and focused into a fine beam. Upon striking the material, the electron beam releases energy. The material absorbs this energy and converts it into heat. Due to the high intensity of the beam at the focus, a portion of the molten material would evaporate. This creates a fine steam tube that penetrates into the material, enabling welding or curing depth of up to hundreds of millimeters. The application of electron beam (EB) technology spans multiple industries, leveraging its unique ability to provide precise and controllable energy concentrations for a variety of applications, ranging from aerospace, military research, micro-machining to industrial processes and materials science.



Space - Shenzhou-13 Manned Spacecraft's Electron Beam Welding Technology.



Aviation - China's domestically produced large aircraft C919 fuselage and other composite materials use Electron Beam Curing Technology.



Military - Supersonic fighter radar, tank armor, and missile casing coatings.



Civilian - Vehicle body painting, medical sterilization, and food and beverage packaging sterilization.

Currently, the most common curing processes in China are thermal curing and ultraviolet (UV) curing. EB curing is a new curing technology that has been developed based on UV curing. It is a revolutionary curing technology, known as the most efficient, environmentally friendly, and clean curing technology to date. It can achieve up to 99% high cross-linking of coatings in milliseconds, saving 95%-99% of energy consumption compared to other curing methods, thus significantly increasing production efficiency. Most importantly, EB is a food grade-safe curing technology. It can cure without the need for chemical cross-linking agents or photoinitiators during the production process, truly eliminating VOCs (volatile organic compounds) from the source of materials and saying goodbye to solvents completely.

INNOMASTER

ITALIAN ORIGINAL DESIGN



From living rooms and bedrooms to kitchens and bathrooms, from sofa backdrops to balcony floors, INNOMASTER delivers not just standalone products, but a complete spatial aesthetic inspired by Europe. The high level of visual unity between flooring and wall products creates a naturally harmonious match, effortlessly crafting personalized home spaces. We provide consumers with a one-stop combination of healthy, eco-friendly, and cost-effective products, while generating greater value and more possibilities for both engineering projects and retail channels.

INTEGRATED WALL AND FLOOR DESIGN FOR THE ENTIRE HOME



What we do

01. LCB Fireproof Wall Panels



DLCB | DLCB-A | DLCB-T | PLCB/SPLCB | DLCB-P-EB

02. SPC Waterproof Wall Panels



DSPC | DSPC-A | DSPC-T | ESPC | PSPC

03. Flooring

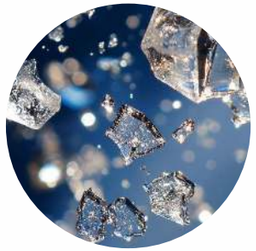


Sports Wood Flooring System | Solid Hardwood Flooring | Engineered Hardwood Flooring | VSPC & SPC Flooring | Laminate Flooring

www.innomaster.com.cn

WHAT IS LCB?

— Light Calcium Silicate Board



Calcium Silicate Gel

+



Special Fire-resistant Glaze

=



LCB Wall Panel

AND ADVANTAGES.

Fireproof

LCB is made with inorganic and calcareous materials such as silica as the cementitious binder, combined together with specially formulated fire-resistant crystal slurry and then formed through pulping and autoclaving. It has excellent physical characteristics and outstanding fire-resistant property, producing non-toxic smoke when burned.

Excellent Weatherability

The LCB board has undergone repeated cycle tests in environments of -20°C ± 2°C and 20°C ± 5°C. After 100 freeze-thaw cycles, the boards show no signs of delamination, cracking, or other damage, demonstrating excellent freeze-thaw resistance.

Mold-Resistant

Does not absorb moisture and prevents mold growth.

Safe & Environmentally Friendly

No formaldehyde added,100% asbestos-free.

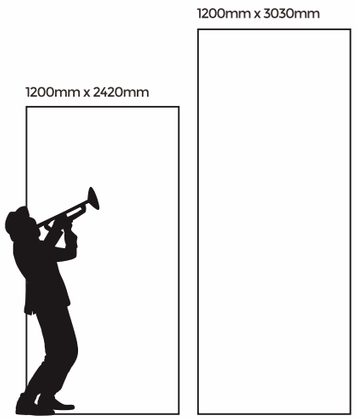
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SPECIFICATIONS

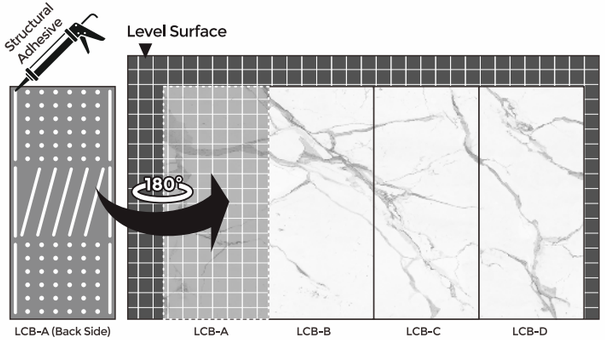
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Thickness

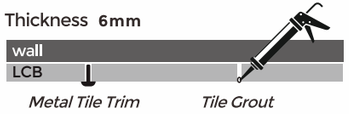


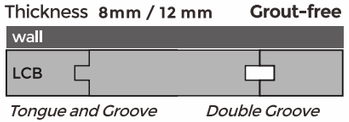


MOUNTING



DECORATIVE GROUTING (Top View)





Electron Beam (EB) curing coating provides the panel surface with superior physical properties.

HIGH BARRIER PROPERTIES RESULTING FROM DENSE SURFACES

YELLOWING RESISTANCE: External oxygen finds it hard to permeate, and ultraviolet rays struggle to penetrate;
(Application scenarios: Building exterior walls, balcony spaces)

EASY TO CLEAN: Not prone to staining or bacterial attachment;
(Application scenarios: Kitchens, schools, hospitals)

HIGH PERFORMANCE: High hardness, wear-resistant, scratch-resistant, and resistant to chemical reagents.
(Application scenarios: Flooring materials, high-end laboratories)

LOW ODOR : Complete reaction, no seepage of substrate odors;
(Application scenarios: Bedrooms, children's spaces)

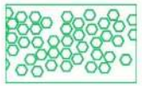
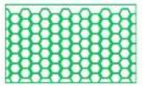
THE APPLICATION OF EB ELECTRON BEAM CURING TECHNOLOGY IN THE PANEL INDUSTRY



INNOMASTER EB/MASTER ELECTRON BEAM CURING PRODUCTION LINE

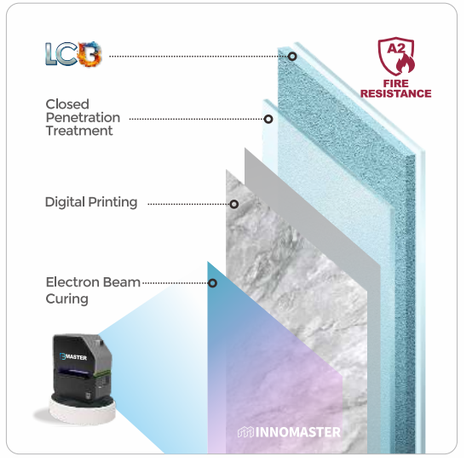
Producing 2 million square meters of eb wall panels and 2 million square meters of eb flooring annually.



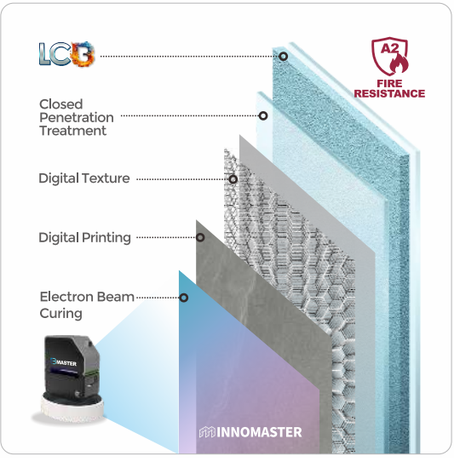
	THERMAL CURING	UV CURING	ELECTRON BEAM CURING
Curing Degree	~ 60%	40~70%	> 99%
Microstructure			
Surface Cracks	Large Solvent Pores	Microscopic Defects	Point Defects



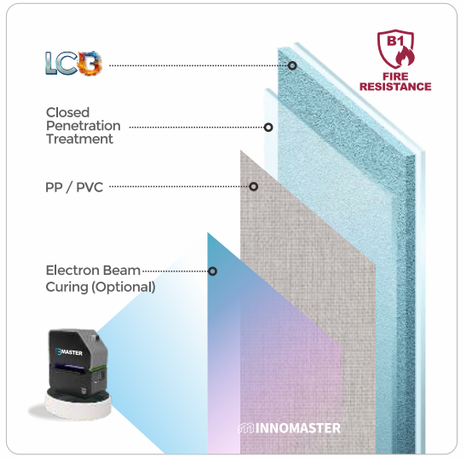
INNOMASTER



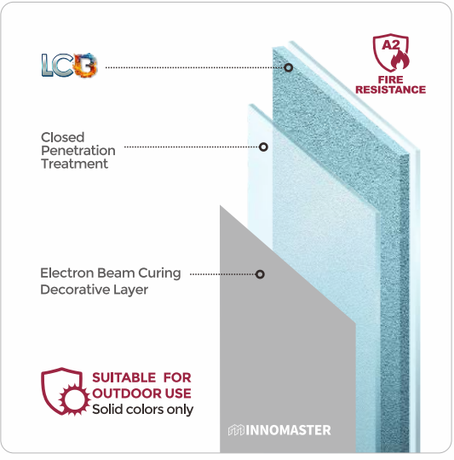
DLCB Digital Printing /Glossy Surface & Matte Surface



DLCB-T Digital Printing /3D Texture



PLCB/SPLCB Surface textures such as cloth,wood, leather, cement, sandstone, metal etc.



DLCB-P-EB

STRUCTURE



THE SURFACE

SOLID COLORS

3037
Heritage
Green

INNOMASTER

THE SURFACES / Solid Colors

3031

3032

3035

3036



3034

3033

3037





SUITABLE FOR OUTDOOR USE

STRUCTURE & DIMENSIONS **DLCB-P-EB** 1200mm x 2420/3030mm x 6/8/12mm



INNOMASTER



THE SURFACE

SANDSTONE

2051-A01L
Occitan Stone

INNOMASTER

THE SURFACES / Sandstone

2051-R0P1

2051-A01L



2051-R0P4

2053-R0P1

2053-A01L

2053-R0P4-1

2053-R0P4-2

2052-R0P4

2052-A01L

2052-R0P1



STRUCTURE & DIMENSIONS **DLCB** 1200mm x 2420/3030mm x 6/8/12mm **DLCB-T** 1200mm x 2420/3030mm x 6/8/12mm

2051L

2051-ET

2051M

2051D

2052YG

2052M



2052CF

2052D

THE SURFACE

CONCRETE

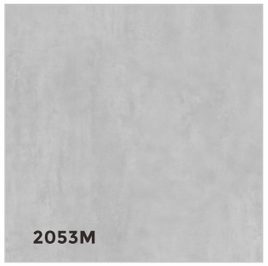
2053L
Minimalist
Pale
Concrete

INNOMASTER



THE SURFACES / Concrete & Terrazzo





















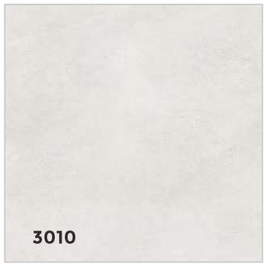




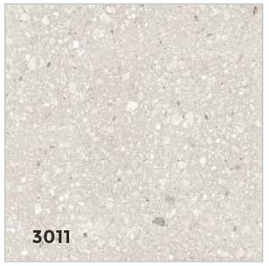
STRUCTURE & DIMENSIONS **DLCB** 1200mm x 2420/3030mm x 6/8/12mm **DLCB-T** 1200mm x 2420/3030mm x 6/8/12mm



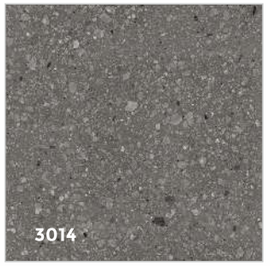


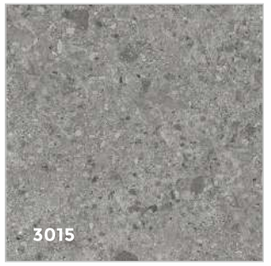


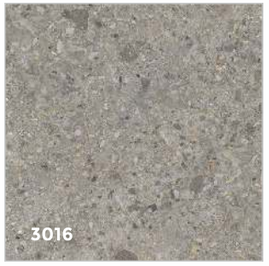




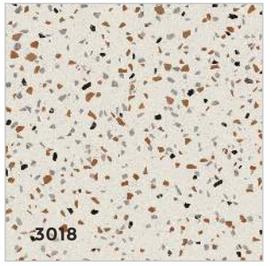


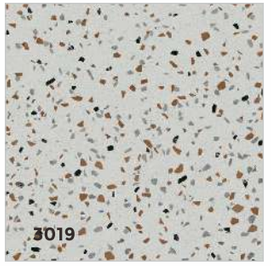














THE SURFACE

WOOD GRAIN

SW01002
Secluded
Valley

INNOMASTER

THE SURFACES / Wood Grain & Fabric













STRUCTURE & DIMENSIONS **PLCB** 1200mm x 2420/3030mm x 6/8/12mm **SPLCB** 1200mm x 2420/3030mm x 6/8/12mm




















THE SURFACE
MARBLE
2090
Roma
Imperial
Granite
INNOMASTER

THE SURFACES / Marble



2081 3 Surfaces



2082 3 Surfaces



2083 3 Surfaces



2086 3 Surfaces



2089 3 Surfaces



2090 3 Surfaces



2091 3 Surfaces



2092 3 Surfaces



2093 3 Surfaces

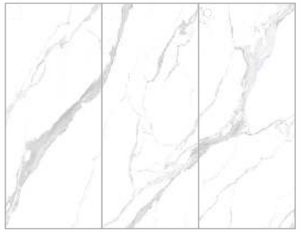
STRUCTURE & DIMENSIONS **DLCB** 1200mm x 2420/3030mm x 6/8/12mm **DLCB-T** 1200mm x 2420/3030mm x 6/8/12mm



THE SURFACES / Marble



2033 3 Surfaces



2035 3 Surfaces



2028 3 Surfaces



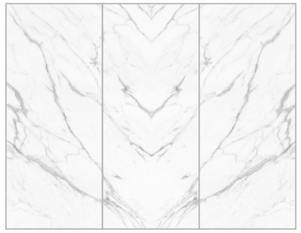
2036 3 Surfaces



2038 3 Surfaces



2015 3 Surfaces



2018 3 Surfaces



2056 3 Surfaces



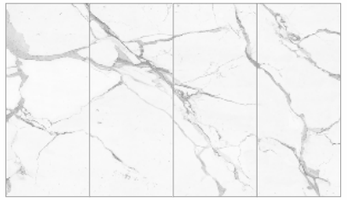
SW05008 3 SURFACES

STRUCTURE & DIMENSIONS **DLCB** 1200mm x 2420/3030mm x 6/8/12mm **DLCB-T** 1200mm x 2420/3030mm x 6/8/12mm



THE SURFACES / Marble

2003 4 Surfaces



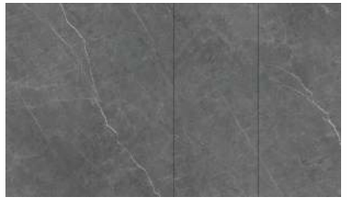
2019 4 Surfaces



2072 4 Surfaces



2009M 4 Surfaces



2040 4 Surfaces



2014 4 Surfaces



2078 4 Surfaces



2079 4 Surfaces



2085 4 Surfaces

STRUCTURE & DIMENSIONS **DLCB** 1200mm x 2420/3030mm x 6/8/12mm **DLCB-T** 1200mm x 2420/3030mm x 6/8/12mm



THE SURFACES / Marble



2008 4 Surfaces



2006 4 Surfaces



2002 4 Surfaces



2011 4 Surfaces



2007 4 Surfaces



2010 4 Surfaces



2050



2055BC



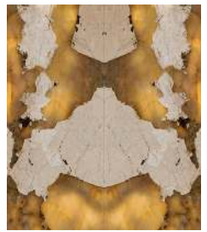
2064A



2065



2061



2060



2059 2 Surfaces

STRUCTURE & DIMENSIONS **DLCB** 1200mm x 2420/3030mm x 6/8/12mm **DLCB-T** 1200mm x 2420/3030mm x 6/8/12mm



TEST RESULTS

Item	Standard Value	Test Results	Standard
Density	0.9g/cm³	1.02g/cm³	JC/T 412.1-2018
Water Absorption Expansion Rate	≤0.25%	≤0.12%	JC/T 412.1-2018
Flexural Strength	Class C Drying Strength Strength Grade R3: ≥10 Mpa Minimum Single Block Strength: ≥7.0 Mpa	Average Value: 11.8 Mpa Minimum Single Block Strength: 9.6 Mpa	JC/T 412.1-2018
Impact Strength	e≤14mm Strength Grade C2: ≥1.4KJ/m²	1.8KJ/m²	JC/T 412.1-2018
Internal Bond Strength	≥1.6 Mpa	1.7 Mpa	JC/T 412.1-2018
Fire Resistance	Class A	Class A	EN ISO 1716:2010
TVOC	Class I Material ≤ 0.22mg/(m².h)	Not Detected	JG/T 528-2017
Formaldehyde Release	≤0.08mg/m³	Not Detected	GB/T39600-2021
Radioactivity Index	Migratable Element: Lead≤ 90mg/kg / Cadmium≤50mg/kg Chromium≤25mg/kg / Mercury≤25mg/kg	Not Detected	GB/T 35607-2024
Coating Film Hardness	≥ 4H	5H	GB/17657-2022
Martindale Abrasion Test	≥Class 3	Class 2	EN16094 - Procedure B
Pollution Corrosion Resistance	Class 5	Class 5	ISO 4586-2

CERTIFICATIONS

French A+ certification is the highest environmental protection grade mark in the French VOC label, representing "Emissions in indoor air". It is based on the international standard ISO-16000, which simulates the actual living environment and continuously monitors indoor air quality for 28 days, grading products based on the concentration of volatile organic compounds. It applies to indoor building materials, such as paints and flooring.

ROHS stands for the Restriction of Hazardous Substances. It is a European Union directive that limits the use of specific hazardous substances in electrical and electronic products. The directive restricts the use of six substances: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE). The testing ensures products comply with environmental requirements, protecting human health and the environment.

CE certification is a mandatory mark for products in the European market, indicating compliance with health, safety, and environmental protection requirements. It signifies that the product has undergone necessary testing and verification to meet applicable EU directives. CE stands for "Conformité Européenne," meaning the product meets the requirements of the relevant directives and can be legally sold in the EU.

ISO 14000 Certification is a series of international standards designed to help organizations operate sustainably, adhere to environmental regulations, and continuously improve processes. The ISO 14000 standard includes ISO 14001:2015, which specifies the requirements for an effective Environmental Management System (EMS).

The colors, textures, and installation effects presented in the product images within this catalog are for reference purposes only.
The actual product may vary.



INNOMASTER

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