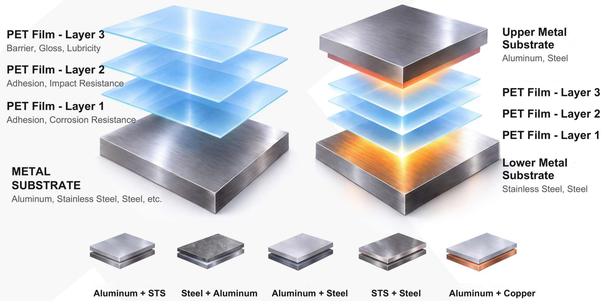
FUNCTION BECOMES ARCHITECTURE

Adding function and economy to the beauty of metal

K·ECO STEEL'S
MULTI-MATERIAL ARCHITECTURE

K·ECO STEEL uses thermal lamination to join dissimilar metals, combining the beauty of non-ferrous metals with the structural and economic advantages of steel.

Copper / STS / Aluminum + Steel



DISSIMILAR MATERIAL JOINING

Combines different metal substrates

ADHESIVE-FREE / SOLVENT-FREE

No adhesives or solvents used

Functional material design combines the properties of different materials to meet product-specific requirements.

K·ECO STEEL

MORE FUNCTION LESS IMPACT
GREATER FUNCTION, LOWER ENVIRONMENTAL IMPACT

INNOVATION PREMIER 1000	U.S. PATENT	INNO-BIZ
GLOBAL SMALL GIANT	JAPAN PATENT	MAIN-BIZ
GREEN TECHNOLOGY CERT.	CHINA PATENT	ISO 14001
PRIME MINISTER'S COMMENDATION	INDIA PATENT	ISO 45001
MINISTERIAL COMMENDATION	KOREA PATENT	ISO 9001

KUMAH STEEL

KUMAH STEEL CO., LTD.
14, Ugnam-ro 795beon-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea

TEL 055-267-1619

FAX 055-267-1630

E-MAIL kumahsteel@kumah.co.kr

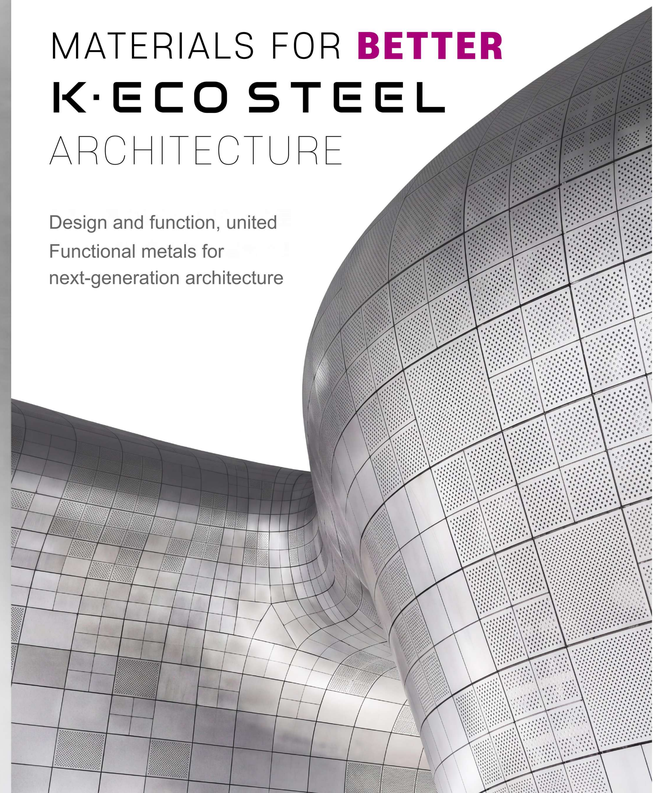
PROTECT
DAMP
BUILD

www.kumah.co.kr

K·ECO STEEL

MATERIALS FOR **BETTER** K·ECO STEEL ARCHITECTURE

Design and function, united
Functional metals for
next-generation architecture



WHY K·ECO STEEL?

K·ECO STEEL ARCHITECTURE

Architectural metals require durable surfaces and corrosion resistance for long-term outdoor exposure. They also shape a building's appearance. K·ECO STEEL combines functional-film surface design with dissimilar-metal thermal lamination, offering a material platform that can be tailored to these requirements.

DURABLE SURFACE

Long-lasting architectural surfaces

VIBRATION DAMPING

Architectural materials that reduce vibration and noise

MULTI-MATERIAL ARCHITECTURE

Different metals combined in one material

ARCHITECTURAL DESIGN

The material itself becomes part of the design

K·ECO STEEL DISTINCTIVE ADVANTAGES

PROTECT
DAMP
BUILD

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AE ARCHITECTURE

DURABLE SURFACE

Long-Lasting Architectural Surfaces

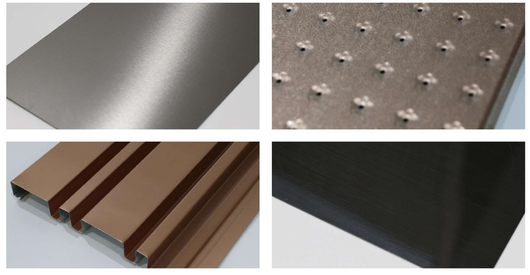
Exterior building materials face prolonged exposure to rain, moisture, contamination and temperature changes. K·ECO STEEL applies functional films to metal surfaces, combining color and design with surface protection. Corrosion resistance and durability can be engineered for the application and service environment.

CORROSION PROTECTION Functional surface layers help protect metal substrates

WEATHER RESISTANCE Exterior surfaces designed for outdoor conditions

SURFACE PROTECTION Maintains metal surface appearance and function

FUNCTIONAL FILM Film design tailored to the application and required properties



VIBRATION DAMPING

Architectural Materials for Vibration and Noise Reduction

Metal panels in buildings are exposed to wind, equipment vibration and impact. K·ECO STEEL's damping steel uses functional interlayers between metals to attenuate vibration energy within the material, creating a damping structure.

VIBRATION DAMPING Functional interlayers attenuate vibration energy

NOISE REDUCTION POTENTIAL Potential to reduce radiation noise from metal-panel vibration

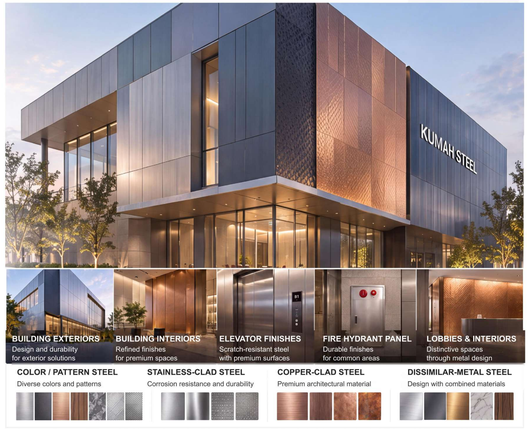
SURFACE PROTECTION Extends to functional panels for interiors and exteriors



MULTIPLE FUNCTIONS

Multiple Functions in One Panel

K·ECO STEEL ARCHITECTURE supports combinations of metals and functional layers rather than a single fixed function. The material platform can be engineered to deliver the surface performance required for architectural interiors and exteriors.



MASS PRODUCTION

Mass Production Enabled by Continuous Processing

KUMAH STEEL has established a mass-production foundation for continuously applying functional films to coil-form metal through roll-to-roll continuous thermal lamination production equipment.

