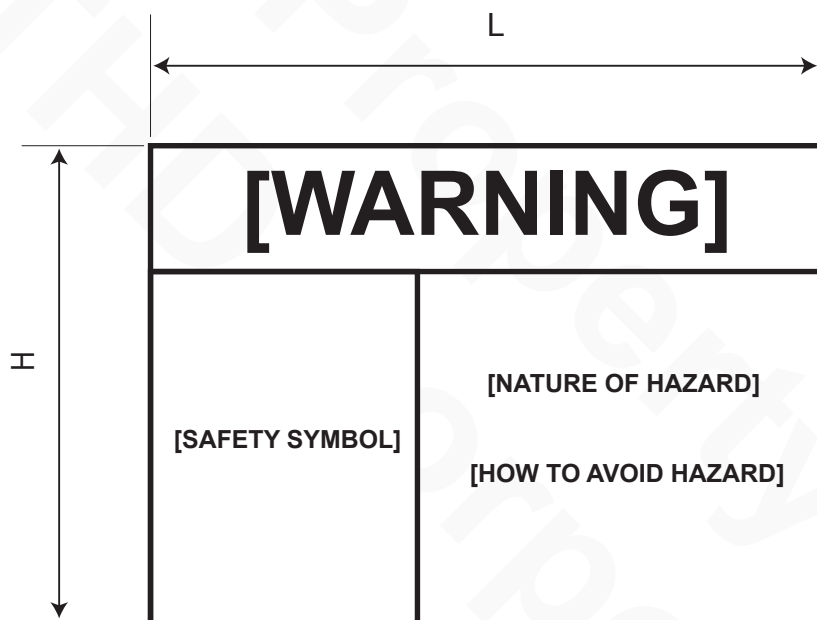




L	H
178 mm	127 mm
254 mm	178 mm
356 mm	254 mm

ALUMINUM COMPOSITE PANEL SAFETY SIGN

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Drawing Number: DK021-10-06-26		NR Revision 0 1 2 3 4 5 6 7 8 9			
Date:	10.06.2026	Print/Cut Tolerance	Thickness Tolerance	Scale	
SAP PN: N/A		± 0.5 mm	See Material Data Sheet	N/A	
MPN: N/A			Format A4		
Material: LTH-M058 - White Aluminium Composite Panel					

TECHNICAL INFORMATION

White composite panel

LTH – M058

Description	LTH-M058 are lightweight, rigid and durable composite panels with multiple applications, composed of two painted aluminum faces and a black low-density polyethylene (LD-PE) core. The fixing of the layers is achieved through chemical and mechanical processes, thus obtaining a material that is highly resistant to delamination. The aluminum sides are varnished with polyester paint. The flatness of the surface, the rigidity, the excellent weight vs. strength ratio recommends it as the most efficient technical solution for outdoor applications and beyond, being a versatile material, easy to process, with very low losses.
Color	Matt/glossy white.
Total thickness	3 mm
Core	Polyethylene
Dimensional Tolerances	Thickness: $\pm 0.2\text{mm}$
Applications	Digital printing, Screen printing. Exhibition stands Advertising boards Boxes, totems, luminous volumetric letters POS displays Partition walls, ceilings Column and pillar cladding Exterior facades Bus stops, gas stations.
Features	Excellent weight vs. strength ratio. Dimensional stability. Low expansion and contraction coefficients. Excellent quality. High UV resistance. Perfect flatness. Easy to process. Customizable by: digital printing, screen printing, sticker decoration, painting.
SHADE DIFFERENCES	Each product has certain characteristics that may differ from batch to batch or even within the same batch. It is recommended to take these characteristics into account to avoid possible differences in shade.
PROTECTION SHEET	The boards are covered with a special foil, which provides protection during transport, storage and processing. Even though this foil has UV protection, exposure to temperature fluctuations and strong sunlight will make it difficult to remove the foil from the aluminum composite boards. Completely remove the protective film after the material has been assembled or within a maximum of 6 months after installation. It is not recommended to mark the protective film with markers or double-sided tape; solvents or plasticizers can pass through the protective film and stain the lacquered surface. The protective film does not remove from the material throughout the cutting, milling or drilling operations. It is not recommended to remove the protective film at temperatures below 10°C.
STORAGE	Store the boards horizontally, on pallets, to prevent them from bending; Store pallets one on top of the other, maximum 6 pallets of the same size, with heavier pallets at the bottom; Do not store tiles of different sizes on top of each other, there is a risk that the surfaces of the large tiles will be scratched by the corners of the small tiles; If horizontal storage is not possible, the tiles can also be stored vertically by supporting them on a fixed support; place a rubber mat under the tiles to prevent slipping. Store the pallets in places protected from moisture and rain, at a minimum of 15°C; avoid any form of condensation (for example when moving cold pallets to warmer rooms).

Issue date: 18.06.2026

Spec Code: LTH- M058

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EMS Solutions **SMARTMTL** Metal Converting™
Solutions **SMARTCHE** High Precision™
Chemical Solutions **SMARTFRM** PLASTIC Converting™
Solutions

INSTALLATION

The tiles must be handled with care, especially the large ones. Individual tiles must be lifted from the pallet by two or more people, lifting all four corners and not by pulling one over the other.

Arrows are printed on the protective foil of each panel to indicate the correct direction of installation.

It is not recommended to use tiles from different batches on the same wall, to avoid possible differences in shade. We recommend purchasing the tiles required for a project as a single order to ensure color uniformity.

MAINTENANCE

Maintenance of the tiles is simple, by washing with neutral detergents dissolved in water. It is forbidden to use abrasive materials, solvents, thinners, acids or other products that may physically or chemically affect the integrity of the constituent materials. These solutions or detergents may cause swelling on the surface of the varnish or even remove it. Do not clean surfaces heated by the sun (over 40°C), drying too quickly may lead to the formation of stains.

Surface property	Test method	Value
Paint layer thickness	2 straturi	≥25 µm
	3 straturi	≥35 µm
Gloss	ASTM D532(60°)	≤10
Pencil hardness test	ASTM D3363-00	≥H
T-band test	ASTM 4145	2T calif.
Adhesion of the adhesive	ASTM 3359	Calif.
	metoda 8	
Impact resistance	ASTM D2794(50kg.cm)	Calif.
Moisture resistance	ASTM D2247-02	ASTM D714(4000 ore) No change
Corrosion resistance (salt spray)	ASTM D117	Bubbles - 10, plotting needle
Chemical resistance		
1) muriatic acid 5% HCL 24 h	ASTM D308	No change
2) Hidroxid de sodiu 5% NaOH 24 h	ASTM D308	No change

Disclaimer

Before applying the product, the user will conduct tests to ensure that the product is suitable for the application.