



DIBOND[®] traffic

THE INNOVATIVE ALUMINIUM COMPOSITE
PANEL FOR TRAFFIC SIGNS



www.display.3AComposites.com/trafficsolutions



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MADE IN GERMANY

DIBOND®traffic is a high-grade aluminium composite panel comprising two aluminium cover sheets and a core. The panel satisfies the most rigorous requirements in terms of mechanical stress as well as weather resistance and has a 12-year manufacturer's guarantee.

COMPELLING ADVANTAGES



LIGHTWEIGHT

- Weight advantage – A “get in lane” traffic sign in the format 1250 x 1600 mm, including edging profile and reflective film, for example, reveals the difference. The total weight of the solid aluminium version = 23.2 kilograms; the DIBOND®traffic sign = 16 kg – that is 7.2 kg lighter! For this application DIBOND®traffic is 31 % lighter!
- Weight reduction has a positive impact on both handling during the manufacturing process and installation on site.



SUSTAINABLE

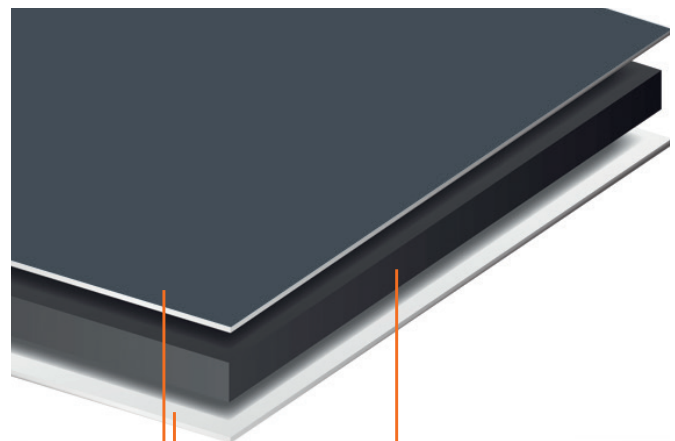
- The Environmental Product Declaration (EPD) for aluminium composite panels confirms low energy consumption, low levels of greenhouse gas emission (CO₂) and optimised water consumption – 40 % less global warming potential when recycling is taken into account (Comparison: 3 mm solid aluminium / 3 mm DIBOND®traffic with 0.5 mm cover layers).
- Transport advantage – lightweight DIBOND®traffic, means considerably more traffic signs can be transported than solid aluminium.
- As a member of the AIUIF e.V., we support closed loop aluminium recycling management for ecological and resource conserving reuse and recycling. The material remains within the European Community and its recycling system.



ECONOMIC

- Less expensive panel material in comparison with solid aluminium.
- Efficient processing: Component parts can be attached using cost-effective self-piercing rivets and adhesive technologies.
- Energy-saving processes such as routing or die cutting facilitate contouring.
- Excellent availability due to low metal content.

THE INNOVATIVE STRUCTURE



Polyethylene core

0.3 or 0.5 mm

Aluminium cover layers

AlMg1 alloy (EN AW-5005 A)

High corrosion resistance

EQUIVALENT

- A detailed expert report by the German Federal Highway Research Institute (BAST) and the German Federal Ministry for Digital and Transport (BMDV) confirmed the equivalence between DIBOND®traffic and conventional traffic signs in the European standard EN 12899-1.
- The GVZ e.V. (German quality auditing commission for road signs and transport facilities) has awarded the German RAL quality mark (RAL GZ 628) which applies to all sizes of traffic signs.
- The high-quality coating on the reverse of DIBOND®traffic and lamination of all standard reflective films on the substrate have been tested by StrAus-Zert (Association for testing, monitoring and accrediting street furniture) enabling unrestricted use of DIBOND®traffic for traffic signs.