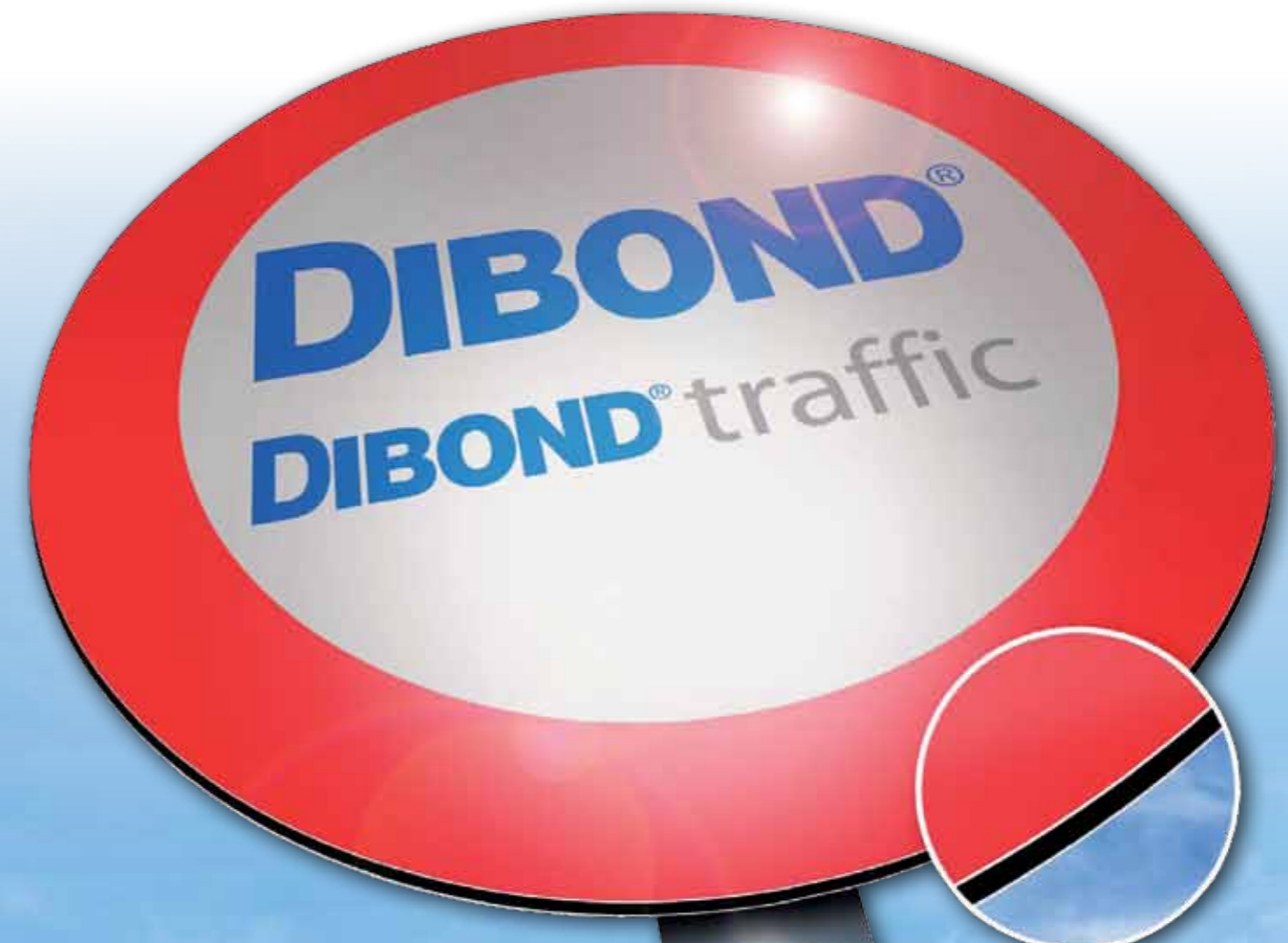


TECHNICAL DATA

Panel thickness	Standard	Units	3 mm
Thickness of Aluminium Layers		[mm]	0.30
Weight		[kg/m²]	3.80
Technical Properties:			
Section Modulus W	DIN 53293	[cm³/m]	0.81
Rigidity (Poisson's ratio $\mu = 0.3$) E'I	DIN 53293	[kNcm²/m]	865
Alloy of Aluminium Layers	EN 573-3		AlMg 1 (EN AW-5005)
Temper	EN 515		H44
Modulus of Elasticity	EN 1999 1-1	[N/mm²]	70'000
Tensile Strength of Aluminium	EN 485-2	[N/mm²]	R _m 145 – 185
0.2% Proof Stress	EN 485-2	[N/mm²]	R _{p0.2} 110 – 175
Elongation	EN 485-2	[%]	A ₅₀ ≥ 3
Linear Thermal Expansion	EN 1999 1-1		2.4 mm / m at 100°C temperature difference
Core:			
Polyethylene, Typ LDPE		[g/cm³]	0.92
Composition:			Advanced durability
Surface:			
Lacquering			Coil Coating Mod. Polyester-System adapted for the lamination of reflective sheeting
Gloss grade (according to Gardner)	EN 13523-2		30 – 35 %
Pencil Hardness	EN 13523-4		HB – F
Corrosion and Impact (according to clauses 5.3.5 and 5.3.7)	EN 12899-1		passed
Temperature resistance:		[°C]	-50°C... +80°C
Quality:	Quality management according to ISO TS 16949, ISO 9001, EN 14001. Inspection certificate 3.1 according to EN 10204 is available with this product.		
Warranty:	12 years full manufacturers warranty		

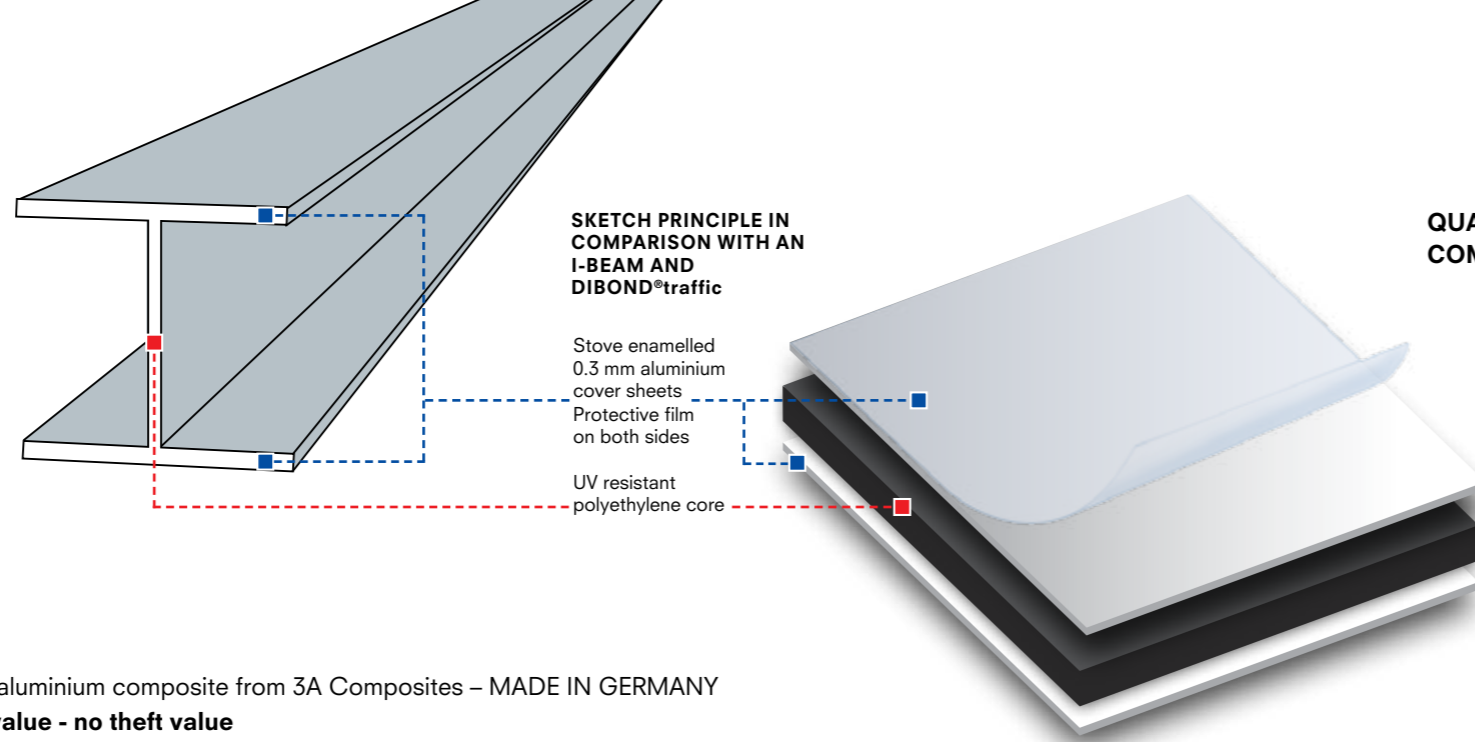


A NEW DIRECTION FOR TRAFFIC SIGNS

THE ONLY ACM SIGNAGE WITH ADVANCED DURABILITY
– THE LOWER COST SOLUTION UP TO 20%.

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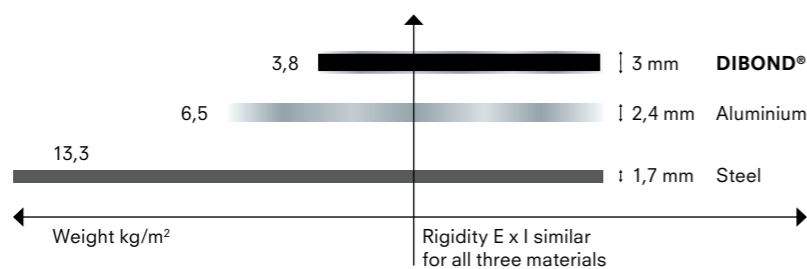




PRODUCT SPECIFICATION

- High grade aluminium composite from 3A Composites – MADE IN GERMANY
- **No scrap value - no theft value**
 - Escalating costs of aluminium
 - Disproportionate rising costs of full aluminium traffic signs
 - Rising costs of scrap → Increased thefts
 - Alternative sign solution DIBOND®traffic
 - Low aluminium share → Lower price increase
 - No scrap value → No thefts
- 40 years of experience in ACM business - highly experienced technical service, constantly high quality
 - Optimised bonding system ensuring no delamination
 - Tested for a minimum of 2000 hours in salt water
 - Corrosion resistance → no change in appearance
 - Impact resistance → no cracking or delamination
- DIBOND® is the only ACM with AlMg1 alloy - quality of alloy according to EN 485
 - Optimised processing possibilities and corrosion resistance
 - Weather resistant material and coating
- Available in traffic grey or black
- Wide range of sheet sizes and shapes
- Excellent surface for lamination of reflective road vinyls, screen printing and digital printing
- Perfect flatness and flexural stiffness
- High rigidity compared to the low weight
 - Easy handling and installation
 - Easy fixing
- Available nationwide

COMPARISON OF THICKNESS AND WEIGHT AT EQUAL FLEXURAL STIFFNESS



QUALITY AND COMPLIANCE

- Alcan Singen is a member of the ECCA (European Coil Coating Association) – DIBOND® surfaces are lacquered at the Singen site. All lacquers come from a German source and are free of any hazardous substances such as heavy metals.
- This is proven and tested through an independent institute – an according certificate is available for the whole program
- DIBOND®traffic comes with a full 12 year manufacturers warranty
- BSI tested according to EN 12899-1: 2007
 - Corrosion test
 - Impact test
 - Adhesion test
- Compliance to WEE and REACH
- Manufactured according to ISO 9001, EN 14001,
- ISO TS 14969, OHSAS 18001
- Quality inspection certificate - according to DIN EN 10204
- Supported by the leading reflective film manufacturers

WARRANTY

- DIBOND®traffic is the only ACM sheet with a **full manufacturers warranty** of 12 years

PASSIVELY SAFE

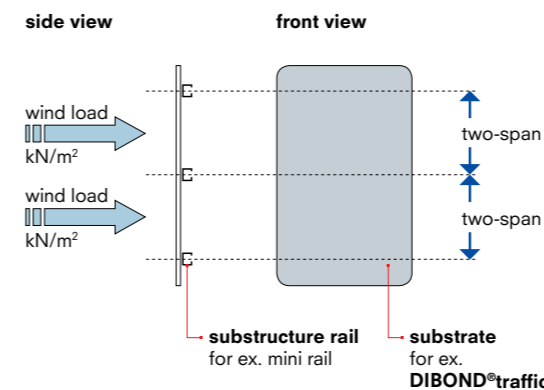
- DIBOND®traffic is passively safe – see our MIRA crash test results

SUSTAINABILITY

- 3A Composites is the only ACM manufacturer offering a closed recycling system for all scrap and future replacement signs
- CO² emission for the production of Aluminium are clearly lower for composite materials than for solid sheets

PROCESSING AND INSTALLATION

- Easy cutting with vertical panel saw or jig saw – aluminium cover layers are only 0,3 mm thick
- When shearing - use evenly ground tools and narrow cutting gap of 0,1 mm for clean cuts
- Processable with CNC standard machines and suitable cutters
- Punching to standard road sign shapes
- Load tables for safe installation available
 - Single and Two Span
- Approved for use with the **Henrob** and the **Böllhoff RIVSET® fixing system**
 - Pullout testing - the measured values are well below solid material
 - Distance between fixings should be ≤ 100 mm
 - Distance to the edge should be 25 mm



LOAD TABLE – WIND LOAD

Thickness 3 mm

Wind Load	[kN/m ²]	0.3	0.4	0.5	0.6	0.7	0.8	1	1.2	1.4	1.6	1.8
Single span	max. b [mm]	655	596	553	520	494	473	439	413	392	375	361
Two span	max. b [mm]	878	798	741	697	662	633	588	553	525	503	492