

TECHNICAL DATA SHEET | GERMAN GRADE

**MATERIAL APPROVAL ACC. TO DIN EN 12899-1 AND GERMAN TLP VZ 2011
EQUIVALENT JUDGEMENT FROM GERMAN FEDERAL MINISTRY OF TRANSPORT AND
DIGITAL INFRASTRUCTURE**

THICKNESS AND WEIGHT					
Material thickness	mm	2	3		4
Thickness of aluminium layers	mm	0,3	0,3	0,5	0,5
Thickness tolerance sheet		According to TLP VZ 2011 (no minus tolerance)			
Weight	[kg/m²]	2,9	3,8	4,5	5,5
CORE					
Typ LDPE, New PE, UV-Blocker	g/cm³	0,9			
SURFACE					
Front side		Adhesive strength of different reflection foils confirmed according to TLP VZ 2011. Washed millfinished surface for direct lamination.			
Back side		High weatherproof lacquer in all kind of colors			
RESISTANCE					
Corrosion resistance	DIN EN ISO 9227 AASS	Corrosion quota of <0,2% of the total specimen area after 1000h			
Durability		Tested according to TLP VZ 2011			
Range of application	[°C]	-50...+80			
TECHNOLOGICAL VALUES					
Section modulus (W)	[cm³/m]	0,5	0,8	1,25	1,75
Rigidity (E•I)	[kNcm²/m]	345	865	1250	2400
Alloy of aluminum layers		EN AW-5005A (AlMg1)			
Modulus of elasticity	[N/mm²]	70'000			
Tensile strength of layers and panel	[N/mm²]	R _m ≥ 205			
Proof stress (0,2 limit)	[N/mm²]	R _{p0,2} ≥ 185			
Elongation	%	A50 ≥ 1			
Linear thermal expansion		2,4 mm/m at 100°C temperature difference			
NOTE					
12 years product warranty Inspection certificate 3.1 according DIN EN 10204 for DIBOND®traffic – German Grade Manufacturing controlled by workforce classified according DIN 6701-2 (Step 2)					

Note: These technical data are typical guidelines. The actual readings are subject to minor production-related fluctuations.