

COAST GUARD RV PANEL TECHNICAL DATA

PRODUCT DESCRIPTION

ALUMINIUM

TYPE	3MM
Thickness of aluminium	0.3mm
Aluminium thickness deviation	±0.02mm
Alloy/Temper	3003 H24

WEIGHT, SIZE AND TOLERANCE

Panel weight	4.56kg/m ²
Tolerance in length	±2mm
Tolerance in width	±2mm
Tolerance in thickness	±0.2mm

TECHNICAL PROPERTIES

Section modulus W	0.81cm ³ /m
Rigidity (Poisson's ratio = 0.03) E.J	865kNcm ² /m
Modulus of elasticity	70,000N/mm ²
Tensile strength of aluminium	R _m ≥ 145N/mm ²
0.2% Proof stress	Rp0.2 ≥ 100N/mm ²
Elongation	A50 ≥ 2%
Linear thermal expansion	2.4mm/m/°C at 100°C temp difference

CORE

Light density polyethylene LD-PE	1.15-1.2g/cm ³
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COATING (PVDF - PPG, Nippon, Valspar, Beckers)

Thickness of coating	2 coats ≥ 25µm / 3 coats ≥ 32µm
Surface	PVDF coating
T-Bending	2T

Technical Statement:

The technical data of this page is all arithmetical average and the error permitted is 5% above or below. Due to production procedures, slight deviations can occur. All technical data are in accordance with the present standard of knowledge and give product information without legal binding. All data applies to new products. Applications suggested do not release the customer from testing material for its intended application. QM-071.

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ALUMINIUM

COATING (PVDF - PPG, Nippon, Valspar, Beckers)

Colour variance tolerance	$\Delta \leq 1.0\%$
Gloss (initial value)	20-60 %
Pencil hardness	HB-F

ACOUSTIC PROPERTIES

Sound absorption factor α	0.05
Sound transmission loss R_w	25dB
Loss factor d	0.0072

THERMAL PROPERTIES

Thermal resistance R	0.0069K/W
Heat transition coefficient U	5.65W/m ² K
Temperature range	-50°C to ~ 80°C

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