

## CORAPAN® AL 220

Typical values for the core material of CORAPAN® AL 220:

Properties	Norm	Unit	Value
Nominal density	ISO 845	kg/m <sup>3</sup>	220 ±10%
Compressive strength	ISO 844	N/mm <sup>2</sup>	1.8
Modulus of elasticity (pressure)	DIN 53457	N/mm <sup>2</sup>	300
Shear strength	ISO 1922	N/mm <sup>2</sup>	1.1
Shear modulus	ASTM C393	N/mm <sup>2</sup>	100
Airborne sound insulation index	SIA 181	dB	approx. 28
Thermal conductivity at room temperature	ISO 8301	W/m·K	0.068
Thermal stability		°C	approx. - 40 / + 80

Formats	
Max. formats 2180 x 5980 mm	Tolerances in mm <5000 ± 2.0 >5000 ± 4.0 + 0 / -1
Thickness 15 – 40 mm	
Other dimensions and smaller tolerances on request	

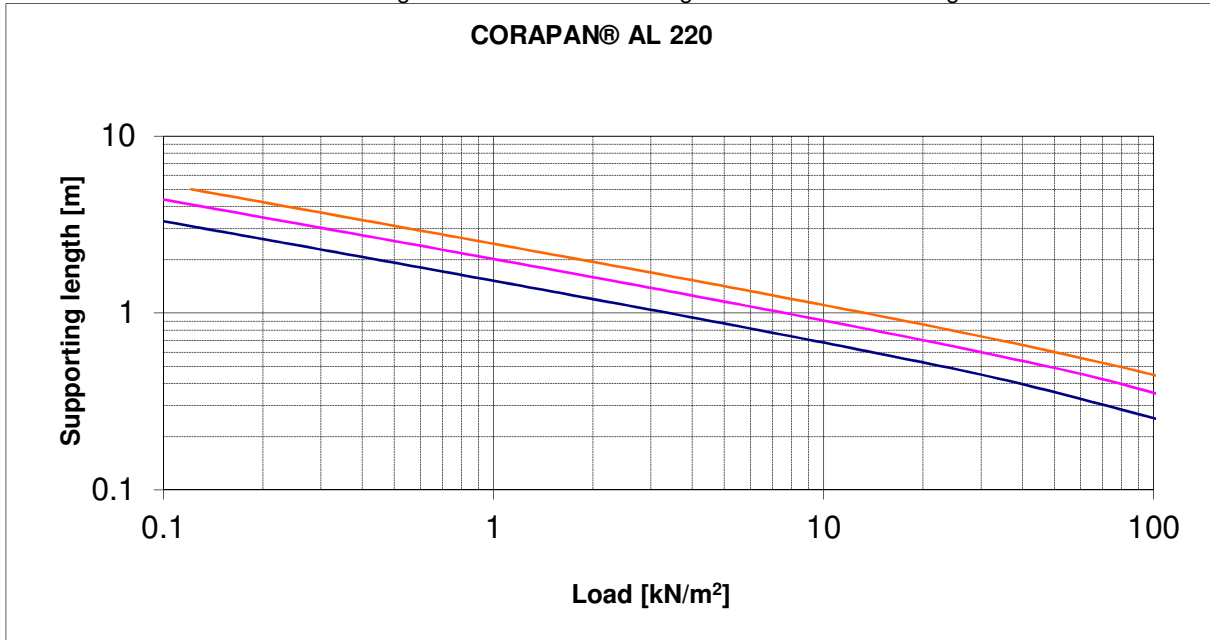
The values in this table are standard values for the nominal density, which can also be lower due to density variations.

The information presented herein, while not guaranteed, was prepared by technical personnel and, to the best of our knowledge and belief, is true and accurate as of the date hereof. No warranty, representation or guarantee, express or implied, is made regarding accuracy, performance, stability or reliability. No suggestion for use is intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patent.

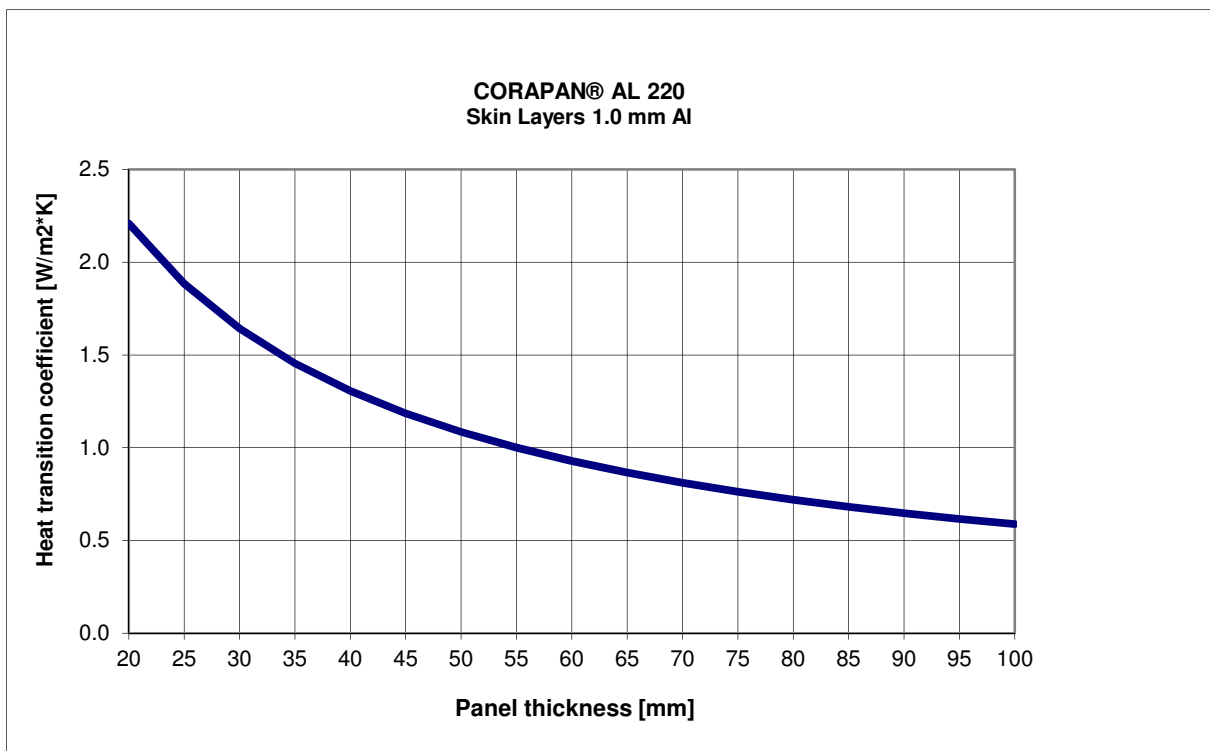
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Following graph shows acceptable loads and spans at a deflection of  $f = L/300$ .  
Skin layers are made of 1mm aluminium sheets

Panel thickness    ----- 40mm / 13.8kg/m<sup>2</sup>    ----- 30mm / 11.6kg/m<sup>2</sup>    ----- 20mm / 9.4kg/m<sup>2</sup>



Following graph shows the heat transition coefficient in function of the panel thickness.



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