

## CORAPAN® AL 150

Typical values for the core material of CORAPAN® AL 150:

Properties	Norm	Unit	Value
Nominal density	ISO 845	kg/m <sup>3</sup>	150 ±10%
Compressive strength	ISO 844	N/mm <sup>2</sup>	0.5
Modulus of elasticity (pressure)	DIN 53457	N/mm <sup>2</sup>	50
Shear strength	ISO 1922	N/mm <sup>2</sup>	0.35
Shear modulus	ASTM C393	N/mm <sup>2</sup>	20
Airborne sound insulation index	SIA 181	dB	approx. 28
Thermal conductivity at room temperature	ISO 8301	W/m·K	0.06
Thermal stability		°C	approx. - 40 / + 80

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

Formats	
Max. formats 2180 x 5980 mm	Tolerances in mm <5000 ± 2.0 >5000 ± 4.0 + 0 / -1
Thickness 6 – 100 mm	
Other dimensions and smaller tolerances on request	

Fire certification	Norm	Classification
Construction Fire behavior	CH BKZ DIN 4102	5.3 B1
Railway industry CEN/TS 45545-2 table 5 R 10	HL 1-3 fulfilled	≥10.9

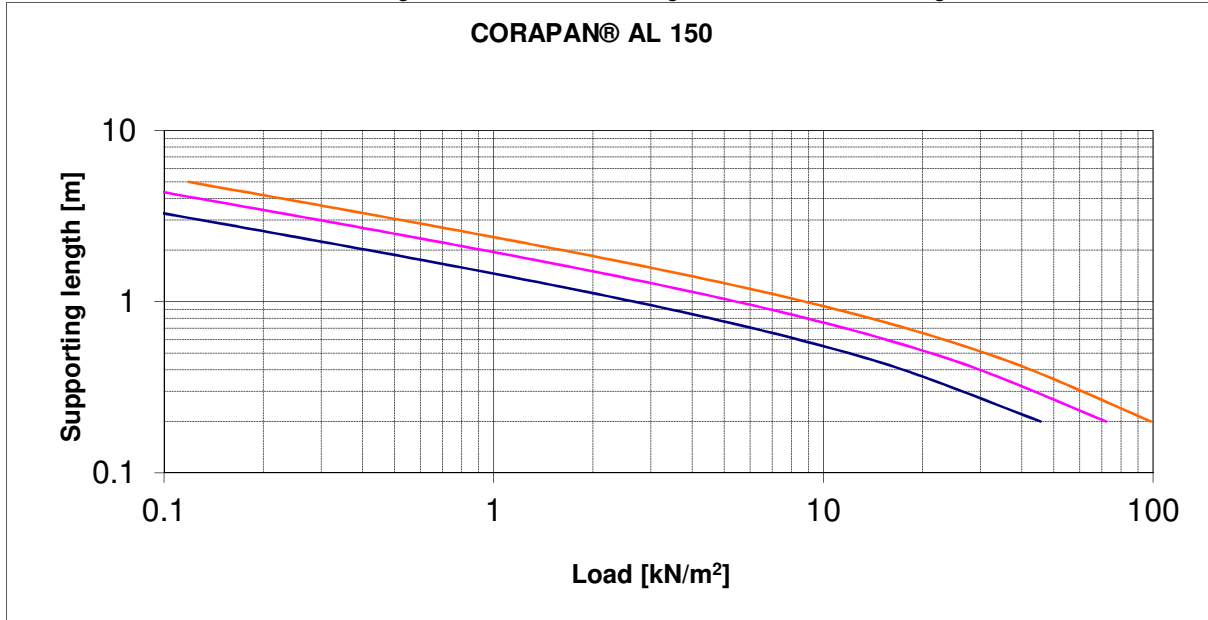
Emissions Interiors
CORAPAN® AL 150 meets the requirements for the use as construction product for interiors and complies with the French VOC – regulation emission class A+.

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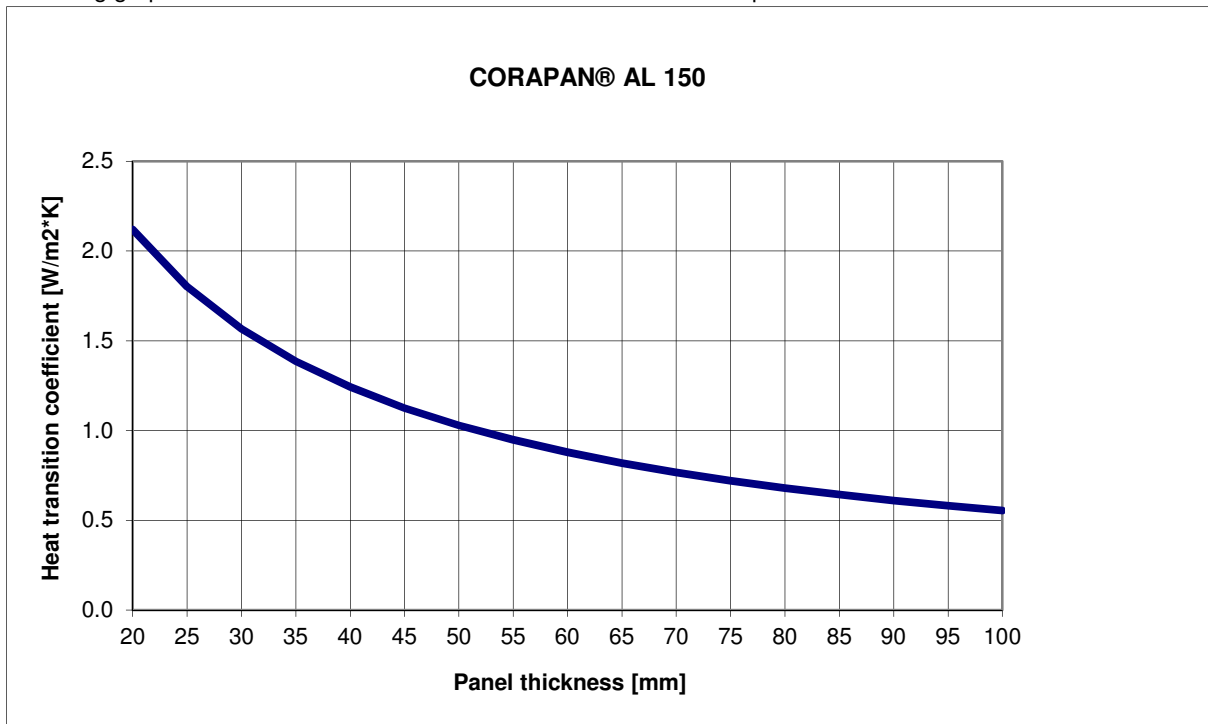
## CORAPAN® AL 150

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 / 11.1kg/m<sup>2</sup>    ----- 30mm / 9.6kg/m<sup>2</sup>    ----- 20mm / 8.1kg/m<sup>2</sup>



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



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