



CORAHEX®

Typical values for CORAHEX®:

Properties	Unit	Value
Nominal density variable	kg/m ³	29 - 83
Thermal conductivity at room temperature	W/m·K	No insulation
Thermal stability Thermal short-time load	°C	approx. - 40 / + 80 up to 120

Formats	
Max. format 2180 x 5980 mm	Tolerances in mm
	<5000 ± 2.0
	>5000 ± 4.0
Thickness 10 – 40 mm	+ 0 / -1
Other dimensions and smaller tolerances on request	

Loads and deflections for panels with 25 mm thickness

Panel weight 7.8 kg / m²
 Aluminium honeycomb 3/8", density 58 kg / m³
 Skin layers 1.0 mm Aluminium

Results of 4 point bending tests at temperature of 23 °C
 panels on two supports (one field)

Supporting length mm	Deflection mm (L/100)	Load kg/m ²	Deflection mm (L/200)	Load kg/m ²
1000	10	1055	5	510
1250	12.5	545	6.25	265
1500	15	315	7.5	150
2000	20	135	10	70

Supporting length mm	Deflection mm (L/300)	Load kg/m ²	Deflection mm (L/600)	Load kg/m ²
1000	3.4	325	1.7	155
1250	4.2	170	2.1	85
1500	5	100	2.5	50

Fracture test

Supporting length 1 m; failure at Load of 2200kg / m²

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Loads and deflections for panels with 15 mm thickness

Panel weight 7.6 kg / m²
 Aluminium honeycomb 1/4", density 83 kg / m³
 Facing sheets 1.0 mm Aluminium

Results of 4 point bending tests at temperature of 23°C
 panels on two supports (one field)

Supporting length mm	Deflection mm (L/100)	Load kg/m ²	Deflection mm (L/200)	Load kg/m ²
1000	10	360	5	180
1250	12.5	185	6.25	95
1500	15	100	7.5	50
2000	20	45	10	20

Supporting length mm	Deflection mm (L/300)	Load kg/m ²	Deflection mm (L/600)	Load kg/m ²
1000	3.4	120	1.7	60
1250	4.2	60	2.1	30
1500	5	35	2.5	15

Fracture test

Supporting length 1 m; failure at Load of 1300kg / m²

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