

# Aluminium Composite Sheet - Aluminium Honeycomb

Section		Properties						
Stock		Technical Data						
Size (mm)	Weight/m (Kg)	Thickness	6	10	15	20	25	mm
T Section		Aluminium skin sheet, front side	1.0	1.0	1.0	1.0	1.0	mm
6mm	0.079							
10mm	0.105	Aluminium skin sheet, reverse side	0.5	0.5	1.0	1.0	1.0	mm
15mm	0.132							
20mm	0.156	Weight	4.7	5.0	6.7	7.0	7.3	kg/m <sup>2</sup>
25mm	0.179	Technical Properties						
U Section		Section Modulus W	2.48	4.46	13.09	18.07	23.05	cm <sup>3</sup> /m
6mm	0.275	Rigidity E.I (with Poisson's Ratio)	7.10	21.90	75.50	138.90	221.60	kNcm <sup>2</sup> /m
10mm	0.086							
15mm	0.138	Alloy of skin sheet Rm (acc EN 485-2)	EN AW-5005A (AlMg1)	EN AW-5005A (AlMg1)	EN AW-5754 (AlMg3)	EN AW-5754 (AlMg3)	EN AW-5754 (AlMg3)	
20mm	0.200							
25mm	0.248	Young's Modulus E	70.00	70.00	70.00	70.00	70.00	N/mm <sup>2</sup>
H Section		Tensile Strength of skin sheet Rm (acc EN 485-2)	>/ 125	>/ 125	>/220	>/220	>/220	N/mm <sup>2</sup>
6mm	0.470							
10mm	0.138	0.2% proof stress Rp0.2 (acc EN 485-2)	>/ 80	>/80	>/130	>/130	>/130	N/mm <sup>2</sup>
15mm	0.165							
20mm	0.200	Elongation A50 (acc. EM 485-2)	>/5	>/5	>/8	>/8	>/8	N/mm <sup>2</sup>
25mm	0.248	Linear thermal expansion a (at 100 °C temperature difference)	2.4	2.4	2.4	2.4	2.4	mm/m
F Section		Core						
15mm	0.219							
20mm	0.281							
Y Section		Cell Size	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	inch (mm)
20mm	0.267	Bare compressive strength	approx 2.6	approx 2.6	approx 2.6	approx 2.6	approx 2.6	N/mm <sup>2</sup>
Clamp Section		Surface	Both	sides	coated with	Modified	Polyester	Lacquer
6mm Part 1	0.335	Temperature Resistance		-40	to	+80		°C
6mm Part 2	0.365	Thermal Properties						
Corner Section		Conductivity	0.95	1.35	1.78	2.25	2.70	W/mK
6mm	0.470	Resistance R	0.0063	0.0074	0.0084	0.0089	0.0093	m <sup>2</sup> K/W
10mm	0.221	Acoustical Properties						
20mm	0.602	Sound Absorption factor	0.05	0.05	0.05	0.05	0.05	
25mm	0.837	Airborne sound insulation index Rw (acc. ISO 717-1, ISO 140-3)	21	21	22	23	25	dB

## Disclaimer

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