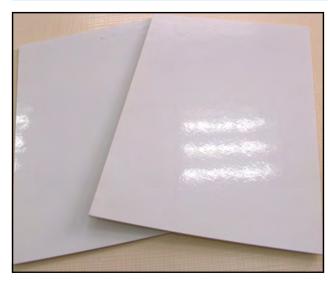




Product Data Sheet: Composite Panels HC8



Carbon-Core Composite Panels comes with a 8mm cell size core. The honeycomb core has an 18oz layer of resin mixed with fiberglass on each side and all of the panels have a white glossy look to them, although sanded panels are available.

These panels have a standard size of 48"x96" and come in all of the thicknesses listed on page 2. Special orders for larger or thicker panels are available through contact info listed at the bottom of this page and on our website http://www.carbon-core.com/contact.htm.

CHARACTERISTICS

- Non-Flammable
- Great impact strength
- Great strength/stiffness to weight ratio
- High insulation properties (sound an thermal)
- High heat distortion temperature
- Rot free

INDUSTIRES

- Marine: Superstructures, decks, hulls, bulkheads
- Industrial: Tanks, covers, portable shelters, container
- Wind Power: Nacelles, rotor blades
- Recreational: Kayaks, canoes, snowboards, skis, surf/wakeboards
- **Road:** Floors, doors, side skirts, roof panels, partition walls

PROCESSING

- Adhesive bonding
- Compression Molding
- Thermoforming
- Contact molding
- Vacuum Infusion
- ٠

All tests carried out by independent laboratory. This information is provided in good faith and is subject to modifications without prior notification. It does not constitute a commitment, neither a contractual document. Carbon-Core Corp will not assume any liability form use or misuse of data presented herein. Assessment of suitability is the responsibility of end user only.

Mailing Address: PO Box 332, Keswick, VA 22947 Warehouse: 48 Zion Station Court, Troy, VA 22947 Tel: 434-510-7115 info@carbon-core.com





Product Data Sheet: Composite Panels HC8

Material			CarbonCore 6mm + 18oz FG (both sides)		CarbonCore 10mm + 18oz FG (both sides)		CarbonCore 13mm + 18oz FG (both sides)		G 20mm	CarbonCore 20mm + 18oz FG (both sides)		CarbonCore 25mm + 18oz FG (both sides)	
Total thickness of sand- wich		nd-	0.291" 7.4 mm	0.448" 11.4mm			0.568" 14.4mm			0.808" 20.5mm		1.058" 26.9mm	
Modulus (MSI)			1.95 0 1.95		1.95 0 1.95		2.25 0 2.0			2.25 0 2.0		2.25 0 2.0	
Max Ply Stress (psi)		i)	42000 0 42000		$\begin{array}{c} 42000\\0\\42000\end{array}$		26300 0 26142			26300 0 26189		26300 20727 26215	
% of Each Ply's Ultimate Strength		nate	100 0 100	0 0			100 0 88.27				00 0 3.27		
Bending Stiffness		5	2381 lb/in ²		4972 lb/in ²		8929 lb/in ² 1		186	642 lb/in ²	32521 lb/in ²		
Flatwise Compression Fmax/Area			188 psi		188psi		188psi			188psi		188psi	
Deflection Values													
Core Thickness				Spar	an		Span			Span			
			24"			36"				48"			
10mm			0.12"				0.27"			0.48"			
13mm			0.067"				0.15"			0.27"			
20mm			0.032"				0.072"			0.13"			
25mm			0.018"				0.04"			0.073"			
38mm			0.008"				0.018"			0.033"			
50mm			0.005"				0.011"			0.019"			
Approximate Weights per sq. ft. and per 48X96 Panel													
Panel	5mm	7mm	10mm	13m	m 16mm	20m	nm	25mm	30mm	38mm	50mm	76mm	
HC 8 18oz FG	.65psf	.68psf	.73psf	.78p	sf .83psf	.90p	psf	1.0psf	1.06psf	1.19psf	1.39psf	1.82psf	
	20.8 lb	21.8 lb	23.4 lb	25 1	b 26.6 lb	28.7	7 lb	32.2 lb	33.9 lb	38.2 lb	44.5 lb	58.2 lb	

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