FEATURES

Eightweight: Aluminum honeycomb panels are incredibly lightweight, making them easy to handle, transport, and install. This feature reduces structural load while providing strength and durability.

High strength-to-weight ratio: Despite its lightweight nature, aluminum honeycomb panels possess a remarkable strength-to-weight ratio. They offer exceptional structural integrity and can withstand various external forces, including wind, impact, and vibration



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Rigidity and stability: The honeycomb structure provides inherent rigidity and stability to the panels, making them resistant to deformation. This ensures that the building's exterior remains strong and intact, even in demanding conditions.

Fire resistance: Aluminum is inherently fire-resistant, and honeycomb panels often come with additional fire-retardant coatings or treatments. This enhances the fire resistance of the panels, making them a safe choice for building exteriors.

Weather and corrosion resistance: Aluminum is highly resistant to weather elements and corrosion, ensuring long-lasting performance and minimal maintenance requirements. This feature is particularly advantageous for buildings exposed to harsh environmental conditions.



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Honeycomb

Cladify

MECHANICAL INFORMATION - PANEL

	SIZE: 3/4in		SIZE: 1in		SIZE: 2in				
	Imperial	Metric	Imperial	Metric	Imperial	Metric			
Total Thickness	3/4in	19.0mm	lin	25.4mm	2in	50.8mm			
Skin Thickness	0.03in	lmm	0.03in	lmm	0.03in	lmm			
Weight	0.93lb/ft ²	4.52kg/m ²	0.96 lb/ft ²	4.67kg/m ²	1.08 lb/ft ²	5.28kg/m ²			
Flexural Rigidity	50 10º psi	0.35 10°N mm²	182(10º psi)	1.26(10°N mm²)	1,450(10º psi)	10.08(10°N mm²)			
Shear Rigidity	332 10º psi	2.29 10°N mm²	332(10º psi)	2.29(10°N mm²)	332(10º psi)	2.29(10°N mm²)			
Tensile Strength	117 psi	0.80 мРа	196 psi	1.35 мРа	392 psi	2.70 мРа			
Compressive Strength	9,398 psi	64.8 мра	15,664 psi	108 мРа	31,328 psi	216 мРа			
Compressive Elastic Modulus	61 psi	0.42 мРа	101 psi	0.7 MPa	203 psi	1.4 MPa			
Shear Strength	744 psi	5.13 мРа	1,232 psi	8.5 MPa	2,465 psi	17 MPa			

MECHANICAL INFORMATION - SKIN			MECHANICAL IN	MECHANICAL INFORMATION - CORE			
	Imperial	Metric		Imperial	Metric		
Thickness	0.02 - 0.04 in	0.5 - 1mm	Cell Size	1/4in	6.35mm		
Yield Strength (R _{p,0.2})	>11,603 psi	>80 N/mm²	Foil Thickness	0.002in	0.05mm		
Ultimate Tensile Strength (R_)	18,129 <r<sub>m<26,831_{psi}</r<sub>	125 <r<sub>m<185N/mm²</r<sub>	Density	3.491b/ft ³	56kg/m ³		
Elongation (A)	>3%		Compressive Strength	319 psi	2.2 мРа		
Alloy Type	5005		Alloy Type	3005			

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- 🌐 mitrex.com
- info@mitrex.com

cladify.com

trex.com 🛛 🖂 info@cladify.com

Headquarters: all Racine Rd., Toronto, ON M9W 2Z4, Canada +1 (855) 254 0214 (roll Free) West USA Location: 10880 Wilshire Blvd Suite 1101, Los Angeles, CA 90024, USA +1 (323) 301 7978 East USA Location: 2 1 Rockefeller Plaza Fl 10 & 11, New York, NY 10020, USA 3 +1 (646) 583 4486