



PRODUCT DESCRIPTION

clear-PEP® ECO PC clear honeycomb panels are made with our patented polycarbonate TRlcore, which is created with our specially designed core expander. The innovative characteristics of the special cell structure give the lightweight panels unique visual depth as well as high rigidity. PC ECO is the facing layer and has a bio-circular material content with a low CO2 footprint. Although normally manufactured using fossil fuels, the components have been replaced by bio-based renewable raw materials.



The attributed share is up to 83% of the total material content. In addition, **clear-PEP® ECO PC clear** is 100% recyclable. These lightweight panels, combined with different core options, can be used in many different ways in interior and exterior architecture to suit the needs of your design.

COLOR

Clear, custom color options are available.

DIMENSIONS

FORMAT	LENGTH [MM/INCHES]	WIDTH [MM/INCHES]	THICKNESS [MM/INCHES]
Standard	3,020/118.8	1,220/48	19/0.75
Special Dimensions*/**	max. 4,500/177.16	max. 2,020/79.5	max. 40/1.57
Production/Cutting Tolerance	2/-2 to 0.08/-0.08	1/-2 to 0.04/-0.08	0/-1 to 0/-0.04

*on request – minimum orders apply

**all panels over 3,020 x 1,220 mm require a core joint

PHYSICAL PROPERTIES

COEFFICIENT OF THERMAL EXPANSION ACC. TO DIN 537522-A [1/K]	SERVICE TEMPERATURE [C/F]	G VALUE (TOTAL ENERGY TRANSMISSION VALUE) BASED ON SOLAR ANGLE	FACING SHEETS	* ESTIMATED LIGHT TRANSMISSION [%]
6 x 10 ⁻⁵	-30 to +80 / -22 to 176	0.62 (0°), 0.58 (30°), 0.55 (45°), 0.43 (60°)	2mm UV PC	53%

*estimated using standard thickness of 19 mm / 3/4"



MECHANICAL PROPERTIES

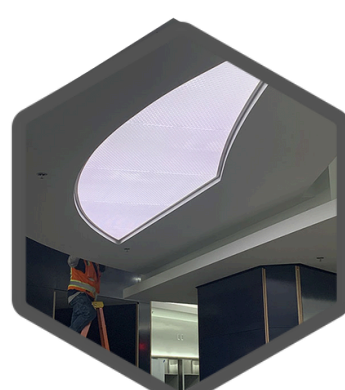
THICKNESS [MM/INCHES]	WEIGHT PER UNIT AREA [KG/M ² /LBS/SQFT]	THERMAL INSULATION U-VALUE [W/M ² K]	SOUND INSULATION RW [DB]	*MODULUS OF ELASTICITY [N/MM ²]
19/0.75	8.5/1.74	2.7	24	629
30/1.18	9.7/1.98	2.4	25	1,688
40/1.57	9.7/1.98	2.1	25	2,933

*per 1m panel width

FIRE CLASSIFICATION

FIRE CLASSIFICATION	ASTM D-2843 SMOKE DENSITY [%]	ASTM D-635 BURNING RATE [INCHES]	ASTM D-1929 SELF IGNITION TEMP. [F]
C1/CC1	53.30%	<1"	1,093

POPULAR APPLICATIONS



INFINITE POSSIBILITIES

Moxie Surfaces is the US Distributor of Design Composite. We specialize in creative finishing materials with infinite possibilities. Our unique architectural elements stimulate the senses and help create beautiful environments for learning, living, and enjoying our lives.

Our products provide a variety of benefits including sound absorption, light transmission and thermal insulation, while offering unlimited applications for indoor or outdoor design.

NOTES

All information and specifications contained herein are based on the most up-to-date information available and to the best of our knowledge. These specifications are subject to change at any time. A legally binding assurance of certain properties or the suitability of an individual type for a specific field or application cannot be inferred from these specifications. All information is provided without any obligation. No legal liability can or will be assumed.