

TECHNICAL INFORMATION

ACOUSTIC RINGS | C.BNC.107

ACOUSTIC RINGS is a composite translucent panel for interior architecture designed to enhance acoustic performance in interiors. Made with clear polycarbonate cylindrical-cells core, laminated on both sides with microperforated co-polyester resin 1mm thick. The main applications of **ACOUSTIC RINGS** are:

- Acoustic elements to correct acoustic performances of interiors;
- Backlit acoustic false-ceilings;
- Translucent partition walls with acoustic performances;
- Wall claddings with improved acoustic performances;



TECHNICAL DATA SHEET	ACOUSTIC RINGS				
HONEYCOMB CORE	Polycarbonate				
EXTERNAL SKINS	PETG				
THICKNESS [mm]	17 ±0.5mm				
LENGTH [mm]	3015 ±2				
WIDTH [mm]	1000 ±2				
UNIT WEIGHT [KG/m ²]	3.90				
FIRE RATE	Class1 * / Class B1 ** / Cs2d0 *** / M2 ***				
COEF. THERMAL EXPANSION [mm/m°K]	0.067				
SERVICE TEMPERATURE [°C]	-10 / +50				
THERMAL INSULATION (UNI-EN 674) [W/m ² °K]	-				
SOUND INSULATION R _w (UNI-En ISO 354) [db]	20				
SOUND ABSORPTION α _w (ISO 11654) [db]	0.40				
MOD. OF ELASTICITY (UNI-EN 310) [N/mm ²]	-				
BENDING STRENGTH (UNI-EN 310) [N/mm ²]	-				
BENDING STIFFNESS [N·m ²]	-				
COMPRESSIVE STRENGTH [N/mm ²]	-				

TSET-VALUE (TOTAL ENERGY SOLAR TRANSMITTANCE) (UNI-EN ISO 1217)	SUN ELEVATION ANGLE				
	0°	15°	30°	45°	60°
ACOUSTIC RINGS	78%	71%	68%	63%	53%

* UNI 9177 | ** DIN 4102-1 | *** EU Norm SBI test Cs2d0 (M2 France) informal test.