Architectural clean room panels

Arcoplast architectural clean room panels have a non-combustible cement core substrate, crucial to human and animal occupancies. They are ideal for applications where building codes or other specifications rule out wood, foam, or fiberglass reinforced plastic (FRP) core panels.

Arcoplast architectural clean room panels are available as ceiling tiles, large panels, and closed-edge modular panels. When finished with Arcoplast finishing compound, Arcoplast closed-edge modular panels create the ultimate in monolithic contamination-control wall and ceiling surfaces.

arcoplast®

WALL AND CEILING SYSTEMS WITH
THE ARCOPLAST ANTIMICROBIAL SURFACE

Product information

All Arcoplast panels are glass fiber reinforced composite panels with the Arcoplast extreme high-gloss Antimicrobial Surface. Arcoplast panels are specifically designed for use on walls and ceilings of clean room environments. They provide an extreme high-gloss, very smooth, sanitary, durable surface that is chemical and impact resistant. Arcoplast panels have a maintenance-free finish that conforms to the highest standard of cleanliness.

Arcoplast Panels

- Do not support fungal and mold growth
- Help control microbial growth
- Are unaffected by attacks from insects and vermin
- Meet regulatory requirements

Available thickness	Core thickness	Overall panel thickness	Weight per sq. ft
	3.2 mm cement	5.7 mm	2.16 lbs
	4.0 mm cement	6.5 mm	2.45 lbs
	6.0 mm cement	8.5 mm	3.30 lbs
	8.0 mm cement	10.5 mm	3.92 lbs

Physical Properties Data Summary for Arcoplast Antimicrobial cement core panel 6 mm			
	ASTM D 638	Tensile Strengh	5732 psi
	ASTM D 638	Tensile Modulus	0.3119 Mpsi
	ASTM D 790	Flexural Strength	11.4107 psi
	ASTM D 790	Flexural Modulus	0.8179 Mpsi
	ASTM D 695	Compressive Strength	7.431 psi
	ASTM D 695	Compressive Modulus	1.973 Mpsi
	ASTM D 2538	Barcol Hardness	35.8
	ASTM D 523	Gloss Property	97.3 from light source @ 85 degrees
	ASTM D 696	Coefficient of linear thermal expansion	31.4 10^{-6} in/in/°F
	ASTM E 96	Water Vapor Transmission	Less than 0.01 perms
	Mils 1073.2	Impact Resistance	A 2 lb. steelball dropped from 11' 0" causes no damage on impact

Surface Burning Characteristics of Materials			
New York City Approval # MEA 414-04-M	ASTM E 84	Flame Spread	19
	ASTM E 84	Smoke Development	278

Toxicity

When tested in accordance with the combustion toxicity protocol developed at the University of Pittsburgh, the Arcoplast cement core sandwich panel meets the requirement for interior finish material as defined by Title 27, Chapter 1, Subchapter 5, Article 5, of the Building Code of the City of New York.

Uses and Applications

- Partition and wall liner finishes
- Ceiling panels
- Chase wall
- Beam covers and soffit finishes

Occupancies

- Human and animal health care
- Pharmaceutical
- Nutraceutical
- Food and beverage processing
- Research laboratories

Features

Face Side Glass fiber mat embedded in a permanently durable fire-retardant polymer resin, finished with a hard, extreme high-gloss, anti-microbial, fire-retardant polymer gel coat

Core Non-combustible cement board, reinforced with cellulose fibers

Back Side Glass fiber mat embedded in a permanently durable polymer resin, pre-treated to give a rough surface impression that eliminates the need for mechanical or chemical preparation and increases bonding strength

Dimensions Ceiling tile: 2' x 2', 2' x 4', 4' x 4'
Large panel: 10' x 50' (Arcoplast will cut to required dimensions)
Modular wall and ceiling panels (closed edges, easily installed): 4' wide, available in custom lengths from 8' to 20' long

Colors Standard color: - white
Consult Arcoplast for availability of custom colors

Information provided in this document is based on tests believed to be reliable. Values represent typical values. Not all tests are run on each lot of material produced.

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