



FIBERGLASS INSULATION BOARDS

Made from lightweight, non-combustible fiberglass, these boards offer exceptional thermal and sound absorption, perfect for reducing noise in studios, small churches, or other spaces. Easy to install with fasteners or adhesive, they are often wrapped in fabric or framed for a sleek look. Available in various sizes and thicknesses, 703 boards provide excellent fire resistance and meet sustainability standards, making them an eco-friendly choice for your acoustic needs.

SOUND ABSORPTION COEFFICIENTS

PRODUCT TYPE	THICKNESS		OCTAVE BAND CENTER FREQUENCIES, Hz						
	IN.	(MM)	125	250	500	1000	2000	4000	NRC
703 Unfaced	1	25	0.03	0.25	0.65	0.93	0.99	0.89	0.70
	2	51	0.10	0.71	1.14	1.14	1.03	0.95	1.00
	3	76	0.31	1.07	1.26	1.15	1.05	0.97	1.15
	4	100	0.51	1.19	1.24	1.13	1.04	0.94	1.15
705 Unfaced	1	25	0.01	0.22	0.67	0.97	1.05	1.06	0.75
	2	51	0.19	0.78	1.16	1.13	1.06	1.06	1.05
	3	76	0.40	1.13	1.19	1.12	1.07	1.06	1.15
	4	102	0.60	1.16	1.15	1.09	1.10	1.06	1.15



Applications

Type 703 — Semi-rigid boards for use on mechanical equipment and air conditioning ductwork, and walls and ceilings ·

Type 705 — A high-strength rigid board for use on chillers, other mechanical equipment, walls and ceilings, and heating and air conditioning ductwork, where high-abuse resistance and good, finished appearance is important

PRODUCT SPECIFICATIONS

PRODUCT	LENGTH	WIDTH	THICKNESS	WEIGHT (LBS)
4' x 4' x 1"	48"	48 "	4"	16 lbs
4' x 2' x 1"	48 "	24 "	4"	8 lbs
8' x 4' x 1"	96 "	48 "	4"	32 lbs
4' x 4' x 2"	48 "	48'	8"	32 lbs
4' x 2' x 2"	48 "	24 "	8"	16 lbs
8' x 4' x 2"	96 "	48 "	8"	64 lbs

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUE
Density (size dependent)	ASTM C303	Type 703: 3.0 pcf (48 kg/m ³) Type 705: 6.0 pcf (96 kg/m ³)
Operating Temperature Range	ASTM C411	0 to 450°F (-18 to 232°C)
Water Vapor Sorption	ASTM C1104	<2% by weight at 120°F (49°C), 95% R.H
Fungi Resistance	ASTM C1338	Meets requirements
Compressive Strength (minimum) at 10% deformation at 25% deformation	ASTM C165	703 Board 25 lb/ft ² (1197 Pa) 90 lb/ft ² (4309 Pa)
		705 Board 200 lb/ft ² (9576 Pa) —
JACKETING	TEST METHOD	VALUE
Jacket Temperature Limitation	ASTM C1136	-20°F to 150°F (-29°C to 66°C)
Jacket Permeance	ASTM E96, Proc. A	ASJ Max 0.01 perm FRK 0.02 perm
Burst Strength (minimum)	ASTM D774/ D774M	ASJ Max 100 psi FRK 40 psi
CORROSION RESISTANCE	TEST METHOD	VALUE
Corrosion to Copper and Aluminum	ASTM C1936 (Previously ASTM C665)	Pass — copper and aluminum
Corrosion to Steel	ASTM C1617	Pass — steel
Stress Corrosion Evaluation on external stress corrosion cracking tendency of austenitic stainless steel	ASTM C795 and ASTM C6922	Pass
Chemical Analysis for Cl-, Fl-, Na+, SiO ₃	ASTM C795 and ASTM C8712	Results fall within acceptability limits
FIRE	TEST METHOD	VALUE
Surface Burning Characteristics ⁴	UL 723, ASTM E84, and CAN/ULC S102	Faced Flame Spread Index 25 Smoke Developed Index 50 Unfaced Flame Spread Index 5 Smoke Developed Index 5