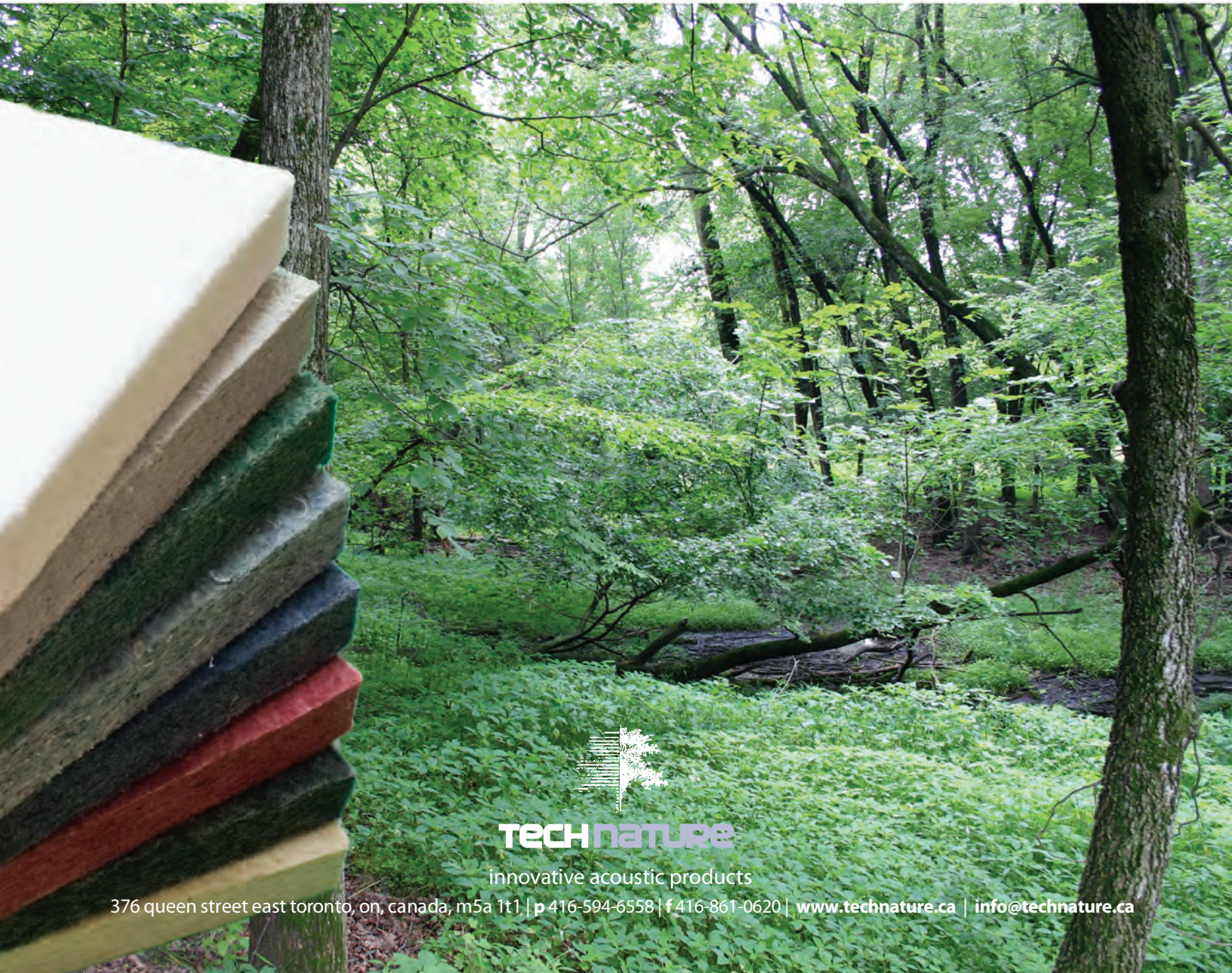





echotouch
natural fibre acoustical panels



TECHNATURE
innovative acoustic products

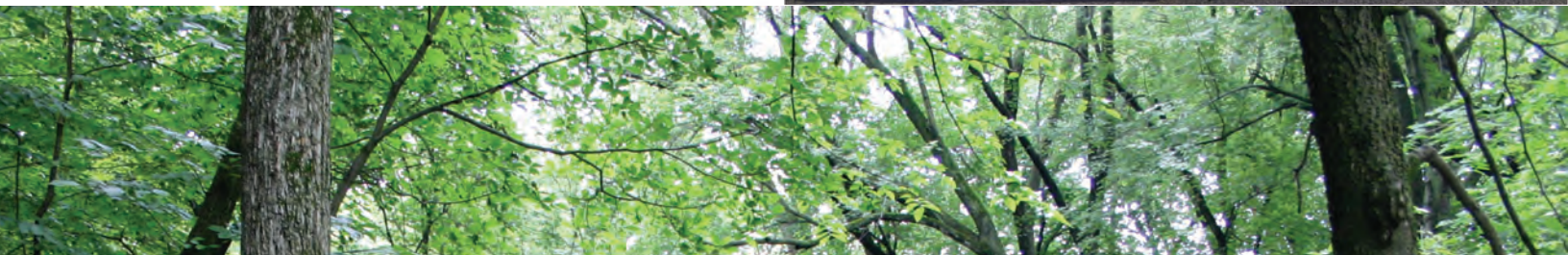
376 queen street east toronto, on, canada, m5a 1t1 | p 416-594-6558 | f 416-861-0620 | www.technature.ca | info@technature.ca



Green
in any COLOR

Naturally the best choice

- Superior acoustic + thermal Performance
- Class-A fire rated
- Mold, mildew and pest resistant, achieved by a patented, environmentally-safe process
- No formaldehyde, Fibreglass, and voc's free
- Aids to better indoor air quality
- Leed eligible (sustainable building recycled content credit)
- Made of 95% recycled natural fibre post-industrial
- Easy, economical to install
- Lightweight, impact-resistant, no special handling required



Commitment

Echotouch™ Natural Fibre Insulation started out with one objective; to manufacture superior performing products that are safe for you and the environment in which you live.

Utilizing almost exclusively natural fibres, Echotouch™ combines over 25 years of fibre insulation experience with a patented manufacturing process to create an acoustic product that provides each customer with the two main qualities necessary when it comes to purchasing any building product-Performance and Peace of Mind.

Performance

ACOUSTIC Controlling sound and noise transmissions through walls ceilings, and floors can be a complex challenge in designing and building a project. Echotouch™ offers an extremely high Noise Reduction Coefficient (NRC) to effectively reduce airborne sound transmissions including traffic, airplane, radio, television, and conversation.

The natural fibres used to make Echotouch™ contain excellent sound absorption qualities while the patented manufacturing process used to create Echotouch™ produces a three-dimensional infrastructure that effectively traps, converts to heat, to control sound waves. The result is a quiet comfortable environment between rooms, walls, and floors.

THERMAL Echotouch™ provides maximum R-Value performance. The unique construction of the insulation contains thousands of tiny air pockets that work to maintain strong thermal protection even in extreme temperature changes. The density of Echotouch™ also contributes to providing consistent thermal performance day in and day out.

Peace of mind

ENVIRONMENT The natural fibres that are used to manufacture Echotouch™ are 100% recyclable, reducing landfill waste. The fibres are also 100% post-industrial, ensuring a high quality fibre. Echotouch™ can also contribute LEED credits.

Echotouch™ requires a minimal amount of energy to manufacture aiding the environment with energy conservation and a reduction in pollution. Other insulation manufacturers consume considerably more energy while creating additional unwanted pollution and landfill waste.

Echotouch™ contains no chemical irritants and requires no warning labels compared to traditional products. Echotouch™ contains no harmful airborne particulates that can enter your living area and the surrounding environment causing health concerns. Also, it has no VOC off gassing concerns and contains no formaldehyde or fibreglass.

MOLD & FUNGI RESISTANT Every natural fibre used to manufacture Echotouch™ is treated with an EPA registered, no-toxic borate solution and then “flash-dried” in our manufacturing process to offer complete and safe mold/mildew protection. Borates are a very effective natural biostat that actively inhabit mold, mildew, bacteria, and fungi growth. Borates also act as an excellent fire retardant and pest inhibitor. Echotouch™ mold resistant fibres offer long lasting protection and help reduce health and safety concerns.

Features

- Fire resistant, class A-ASTM E-84, CAN S102
- Cost effective
- Recycled, sustainable product

Benefits

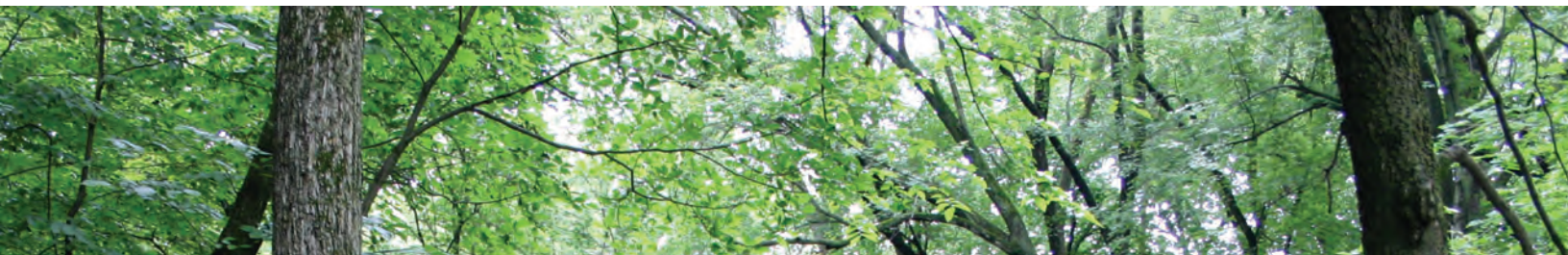
- Superior acoustic performance
- Lightweight, impact-resistant, no special handling required
- Reduces heating and cooling costs

Specifications

- **CORE COLORS** Black, White, Natural Denim Marble Blue, Pure Blue, Navy Blue, Light Gray, Beige, Hunter Green, Burgundy, Charcoal
- **THICKNESS** 1" and 2" *Custom thickness available*
- **DENSITY** 3 and 6 lbs/cu.ft. standard. *Custom densities available*
- **SIZES** 2'x 4' standard. *Custom die cut runs available.*
- **FORMAT** Natural Texture Panel, Metal grommets panels for baffles

Uses

Gymnasiums, Auditoriums, Classrooms, Music Rooms, Arenas & Stadiums, Churches, Offices, Computer Rooms, Restaurants, Cafeterias, Residential, Concert Hall & Theatres, Pro Audio, Gun Ranges, Manufacturing Plants, Machine Enclosures, Water Treatment Plants



Physical Properties

PROPERTIES	PERFORMANCE	TEST METHOD
Surface burning characteristics (Fire hazard classification)	Flame spread 10 Class A Smoke Developed 20 Class A	ASTM E-84 UL 723
Corrosion resistance	Pass	ASTM C 739
Fungi resistance	Pass	ASTM C 739
Odor resistance	Pass	ASTM C 739

Thermal Technical Data

TESTED IN ACCORDANCE WITH ASTM C 518 AT MEAN TEMPERATURE OF 75 °

THICKNESS		WIDTH		LENGTH		R-VALUE*
inch	mm	inch	mm	inch	mm	
3.5	89	16	406	94	2387	13
3.5	89	24	609	94	2387	13
3.5	139	16	406	94	2387	19
3.5	139	24	609	94	2387	19

Sound Absorption-Ceiling and Wall Panels

SIZE	WEIGHT	125 Hz	250 Hz	500 Hz	1KHz	2KHz	4KHz	NRC
1"× 2" × 4'	3 lb./cf	0.08	0.31	0.79	1.01	1.00	0.99	0.80
2"× 2" × 4'	3 lb./cf	0.35	0.94	1.32	1.22	1.06	1.03	1.15
1"× 2" × 4'	6 lb./cf	0.07	0.30	0.86	1.10	1.05	1.03	0.85

Sound Absorption-Hanging Baffles

SIZE	WEIGHT	125 Hz	250 Hz	500 Hz	1KHz	2KHz	4KHz	NRC
1"× 2" × 4'	6 lb./cf	2.43	04.9	08.34	12.35	15.57	16.73	10.30
2"× 2" × 4'	3 lb./cf	2.40	6.55	12.86	17.46	18.49	16.77	13.85

Baffles are a popular solution for noise control when high levels of sound or long reverberation time (echo) are present and there is limited wall or ceiling surface area available for sound absorption. Baffles utilize both front and rear surfaces and panel edges to provide optimal sound absorption while creating a unique visual appearance. Echotouch baffles feature exceptional durability and will not easily fracture from impact.



TECHnature
innovative acoustic products

ASTM E-84 CLASS A FIRE RETARDANT



Echotouch acoustical cotton is fire retardant, fungi, mold & mildew resistant and has been tested for numerous acoustical and thermal insulating properties including the following ASTM specification and test methods: E84, C665, C518, E96 E970, C423-98, E97-97, E413-87, E492-90, E989-89; C739-97 Sec. 9, 11, 13, 15; CA. LIC#TI-1367 Reg.#CA-T367AZ



Noise control problem solved
Woodbury Methodist Church



Reverberation Problem Solved
Municipal Auditorium in Kansas City, Mo