Mushroom Building Materials

Jersey Malysa Justin Frisino



TECHNOLOGY



Agricultural Waste





Fungal Mycelium

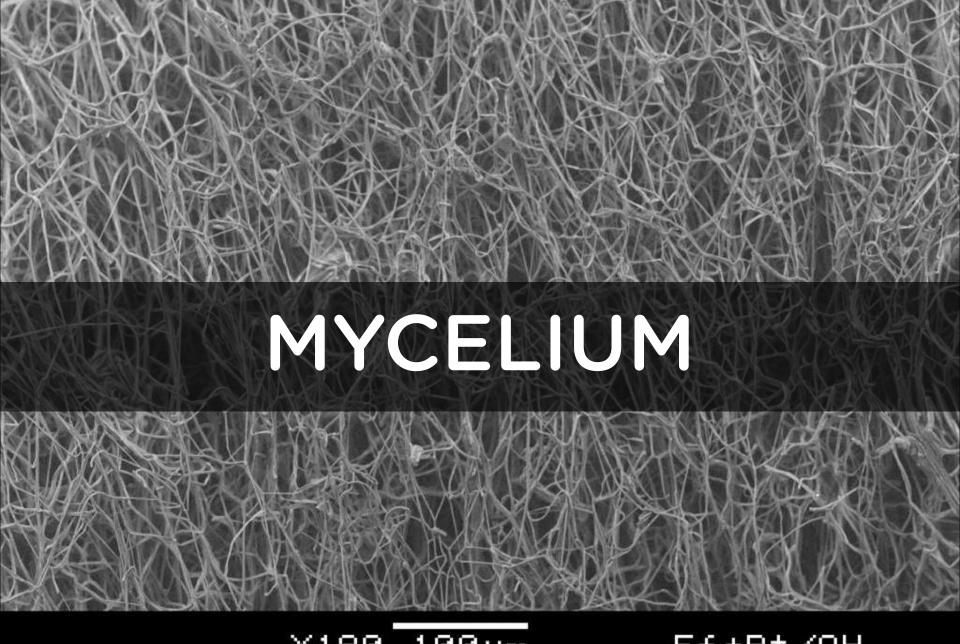




Mushroom® Materials











2007

Eben Bayer Gavin McIntyre





LOCATIONS







Restore Mushroom Packaging

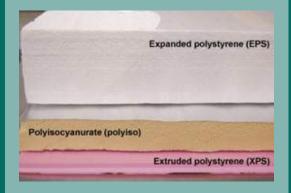


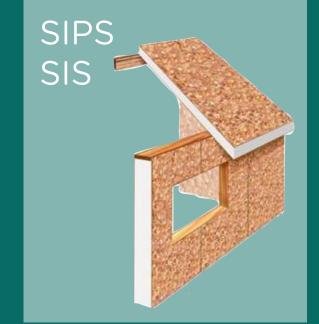






Rigid Board Insulation







Acoustic Panels



Door Cores



Grow in Place



DOES IT WORK?

- Fire
- Pests
- Moisture
- Strength
- Ease of installation
- Sustainability



STRUCTURE

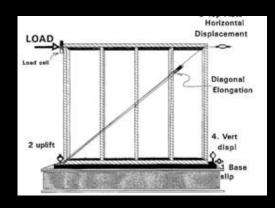
Current

Property	Eco	EPS
Density (lbs/ ft³) ASTM C303	4	0.9
Compressive Strength (10% C, psi) ASTM C165	5.2	5
Flexure Strength (psi) ASTM C203	25.7	10
Dimensional Stability (%) ASTM D2126	0.72	2

FutureASTM E72



ASTM E564



RESIN COSTS

Start with 1 - 10%

Grows to >25% in 5 days

SUSTAINABILITY

- Biobased
- Renewable
- No VOCs
- No GWP Gasses
- LEED points



MUSHROOM® INSULATION

AWARDS

- WeForum Tech Pioneer
- PopSci Best of What's New
- Buckminster Fuller Challenge
- Green Challenge
- and many more



THE CHRONICLE COTE PACKAGING SCIENTIFIC DISCOVERY AMERICAN Bloomberg Businessweek CSIENY TIME CON L The New York Eimes House WIRE D POPULAR dwell THE WALL STREET JOURNAL Economist

PRESS

"Mushroom Insulation might be the world's greenest insulation" -Alison Bailes, PhD Green Building Advisor, 2013





PROTOTYPING PANELS



















ecovative

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