# New Technologies in Building Materials



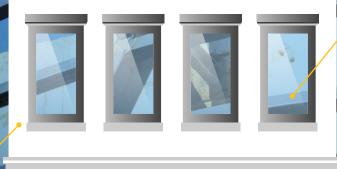
## **NOISE REDUCING GLASS**

Noise Reducing Glass is used in windows e noise, insulate, stop drafts and of. These types of windows re benefits than replacement s at a significantly lower cost.



### **SOLAR THERMAL CLADDING**

A cladding system that combines wood louvers and back-vented glazing. Designed as a th storage device for use in colder climates, system consists of prefabricated panels that can be installed onsite via an aluminum cladding mounting system. The wood slats are angledeflect the summer sun while inviting the winter sun's radiant energy into an interior cavity, storing winter heat long into the ni to reduce heat loss from interior space



# STRUCTURAL 3D PRINTING

A method for fabricating buildings or construction components.



#### BIOPLASTICS

Though still very much in the research stage, new bio plastic made from discarded shrimp shells matches aluminum in strength, at only half the weight. It is also biocompatible, biodegradable, inexpensive and may be molded to a variety of 3D shapes. Researchers are optimistic about the material's ability to replace fossil fuel-based plastics in consumer and medical applications.





## **SELF-HEALING CONCRETE**

There are three types of self-healing concretes: one with shape-memory polymers activated by electrical current, one with healing agents made from organic and inorganic compounds, and one with capsules containing bacteria and healing agents. These materials will be able to repair themselves without human intervention.