in the gypsum will behave in different climates and seasons. The goal is to be able to tailor the panels to their environment, so homes in Florida, where humidity is more persistent, might have drywall with more wax capsules than homes in colder New York, for example.

For now, there's no guarantee that National Gypsum will ever make ThermalCore commercially available. Much depends on demand, so my hope is that I'm not the only homeowner who thinks it's a good idea.—JOHN B. CARNETT

THE SPECS

HOUSE: 3,500-square-foot, four-bedroom contemporary LOCATION: Greenwich, N.Y. PROJECT: Installing 300 square feet of phase-change drywall TIME TO INSTALL: One day ECO-ADVANTAGE: Reduces energy needs for heating and cooling

HOMEWRECKER

BEWARE DRYWALL THAT CAN FILL YOUR HOME WITH SULFURIC ACID

Not all drywall is as environmentally friendly as John's. In fact, some is downright toxic. In May a report from the largest investigation in the history of the U.S. Consumer Product Safety Commission cited 10 Chinese manufacturers as sources of sulfur-laden drywall found in thousands of homes constructed in the U.S. between 2005 and 2009, when a post-Hurricane Katrina building boom created a run on drywall and forced builders to seek out new suppliers. Investigators say hot and humid conditions can cause the tainted building product to release sulfur compounds that smell of rotten eggs and react with moisture in the air to create sulfuric acid, a primary ingredient in acid rain. Released in a home, sulfuric acid can corrode and blacken metal, ruining electrical wiring, air-conditioning coils. fire alarms, TVs and stereos. It can also exacerbate asthma

and cause bloody noses, headaches and wheezing.

In many cases, the damage has been so severe that victims have abandoned their homes or been forced to finance expensive gut renovations. To date, the CPSC has received more than 3,300 complaints nationwide. If you suspect there's tainted drywall in your home, copper test strips that turn black after two weeks can indicate sulfur contamination, but CPSC spokesman Alexander Filip recommends that you enlist professional help to rule out other sources of sulfur. including well water, sewer gas or even jarred pickles. A professional diagnosis can also help homeowners secure mortgage forbearance and relief funds available through state agencies.

For a list of implicated manufacturers and resources, call the CPSC at 800-638-2772 or go to cpsc.gov/info/drywall—NICOLE DYER





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