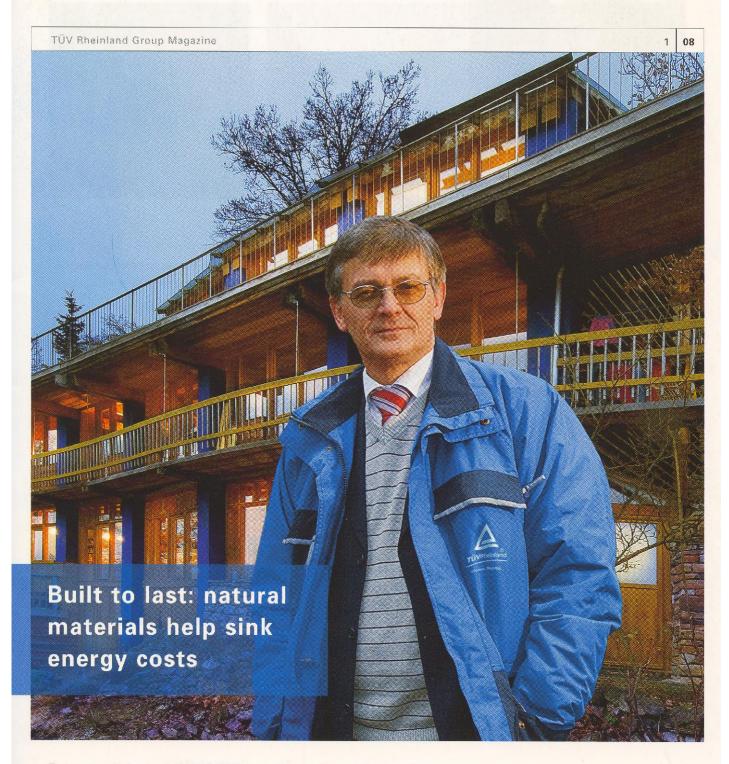
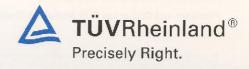
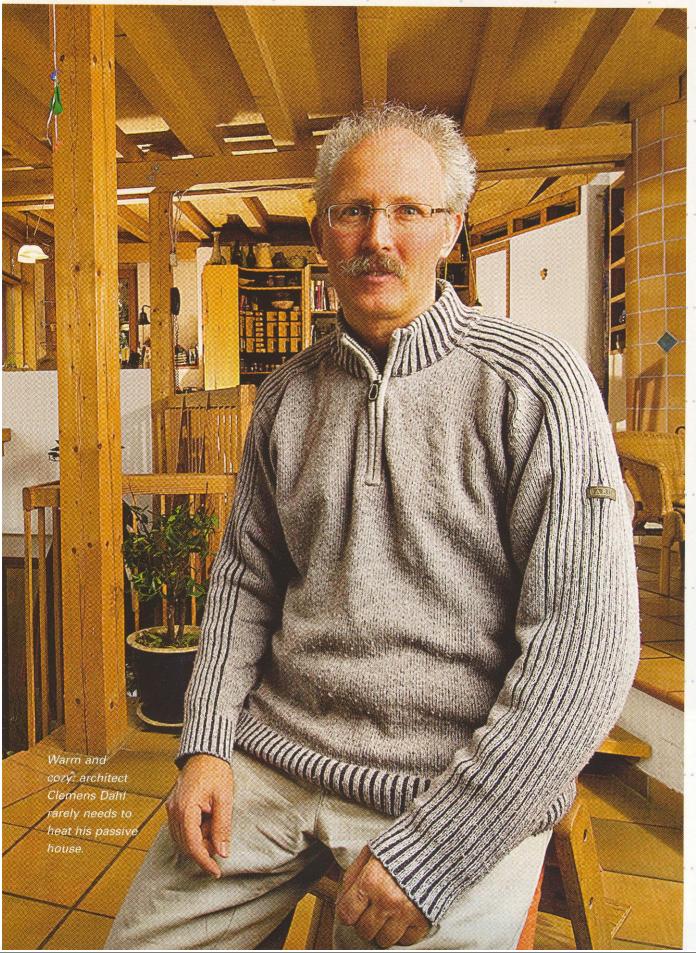
## contact

Auszug aus : Contact : Kundenzeitschrift des TÜV- Rheinland



Rags to riches: does money really make us happy? Unusual patents: what exactly is a pole hat?





contact 1.08 Title: Sustainability 17

## Building for the Future

Saving the environment with subsidies: a government-funded program aims to drastically reduce the energy consumption of our homes

>> The December sun's rays barely reach Clemens Dahl's living room. Although the heating is turned off, the architect can walk around his house in the German town of Stephanshausen in a t-shirt without feeling cold. Even a little sunshine is enough to fully heat the spacious wooden home thanks to enormous southern windows and virtually perfect insulation that allows almost no warmth to escape. Clemens Dahl rarely needs to heat the singlefamily dwelling that he designed himself. He and his family consume much less energy than "conventional" home owners without any reduction in their living standards. Known as "sustainable development", this trend is becoming increasingly popular. More and more homebuilders are opting for low-energy or passive houses that release so little warmth into the atmosphere that additional heating often isn't necessary. "Escalating energy prices make building or purchasing an energy-saving house an economically attractive option for every developer," explains Professor Thomas Lützkendorf, lecturer in economical and ecological housing construction at Karlsruhe University. On a communal scale, this opens up enormous savings potential. Buildings account for around one-third of Germany's power needs, putting them ahead of the traffic industy when it comes to energy consumption.

## Stricter legal requirements

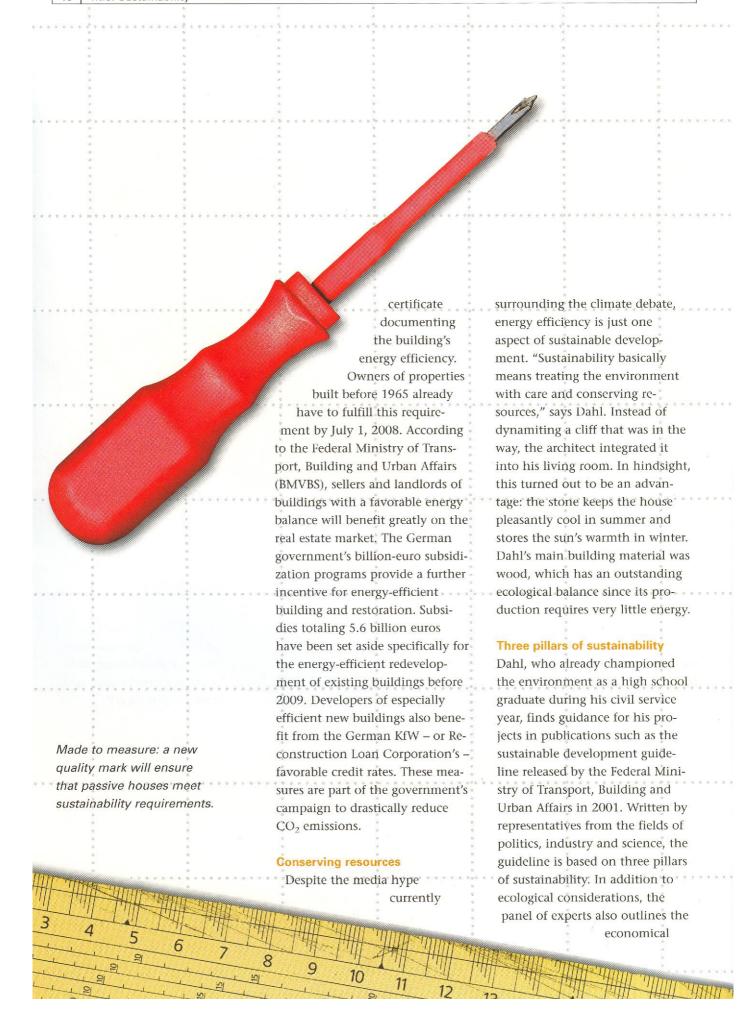
As energy prices soar, the regulations faced by developers and home owners are becoming increasingly tough.

From 1 January 2009 onwards, they will be required to present potential tenants or buyers with a Tool time:
the German
government offers
subsidies for ecofriendly homeowners.

Economical and elegant: Clemens Dahl's house is extremely energy efficient.



18 Title: Sustainability contact 1.08



and social aspects of environmentally compatible construction. "A building can only be considered sustainable if it doesn't just meet the ecological requirements but also delivers financial benefits such as low construction, operating or demolition costs," explains Professor Lützkendorf. The social aspects include successfully integrating the building into its surroundings and providing high living standards, since comfort is an important aspect of sustainable living.

## Certification on the horizon

As sustainable concepts gain momentum in the construction branch, the call for measurable standards grows stronger. Founded last year, the German Society for Sustainable Construction (DGNB) is already making significant progress towards this goal. In cooperation with the Federal Ministry of Transport, Building and Urban Affairs, the association is developing a quality mark for houses that are especially environmentally friendly, healthy, efficient and economical. The initial building inspections are scheduled for the first half of 2008. TÜV Rheinland is overseeing the process. "As a founding member of the DGNB, we can put our considerable know-how in the field of sustainable deve-



lopment to good use," says Dieter Kaufmann, who is responsible for TÜV Rheinland's construction and property branch. "Our services in the sector range from inspecting environmentally compatible building products and assessing alternative air conditioning concepts to awarding energy certificates." People like Clemens Dahl who own low-energy and passive houses should be pleased with the DGNB certificate - the quality mark shows potential tenants and buyers that the required sustainability standards have been met and is likely to increase their property's value. But Dahl wouldn't sell his house for all the money in the world. His family is much too happy there to ever

consider moving. «

Stairway to future savings: wooden building materials drastically reduce a house's energy consumption.

Information

\*

Dieter Kaufmann dieter.kaufmann@de.tuv.com Phone +49 6131 4654-203