

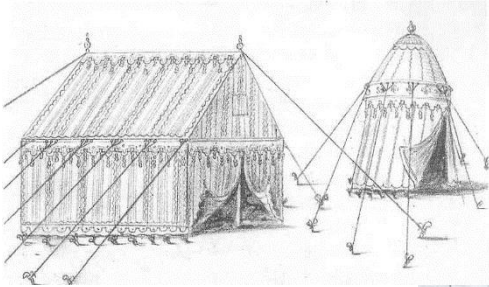
Innovation in the ETICS market – How technical progress supports achieving major goals

Prof. Dr.-Ing. Andreas H. Holm



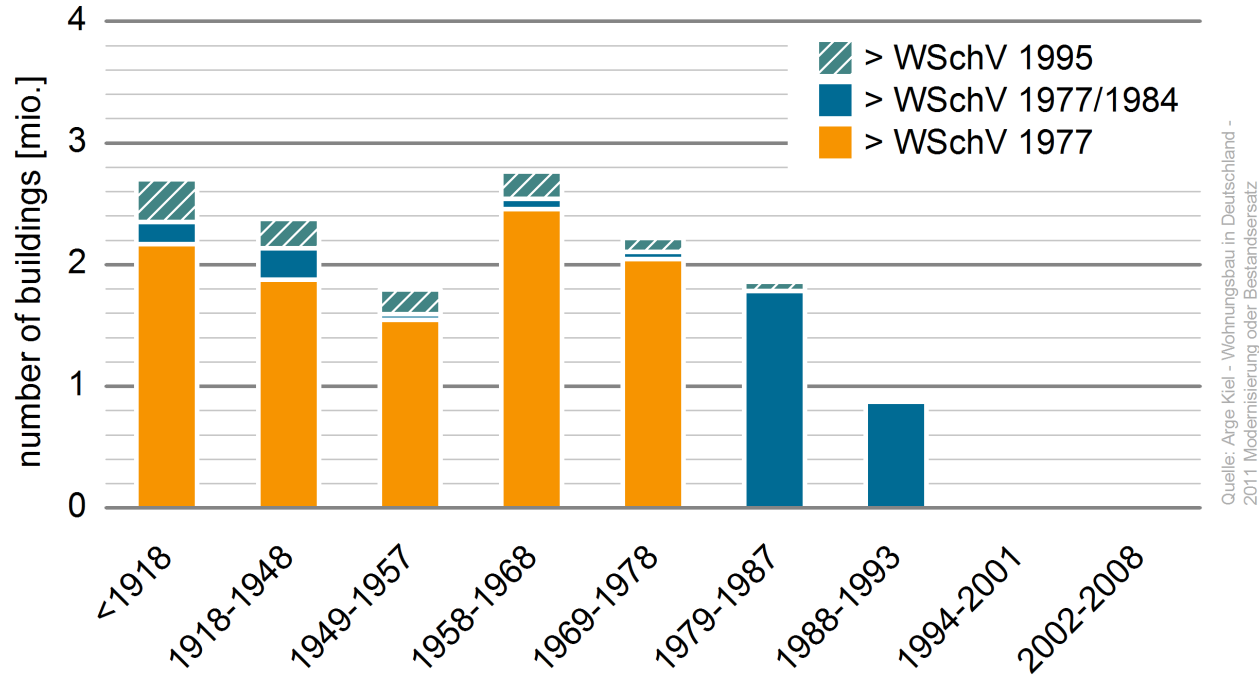




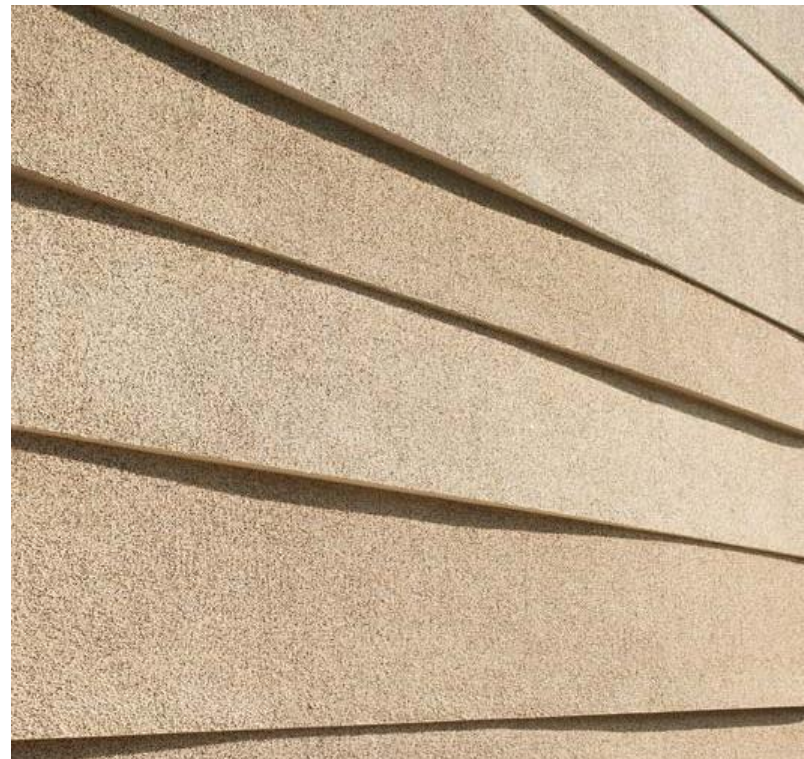




residentail - facades









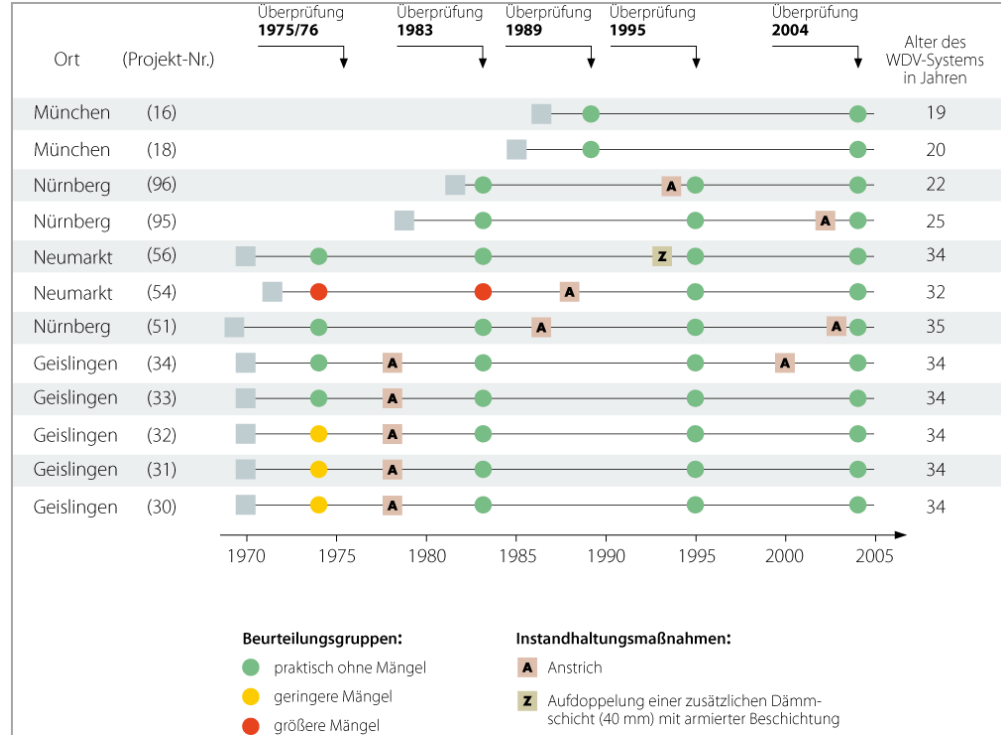
1983



1995



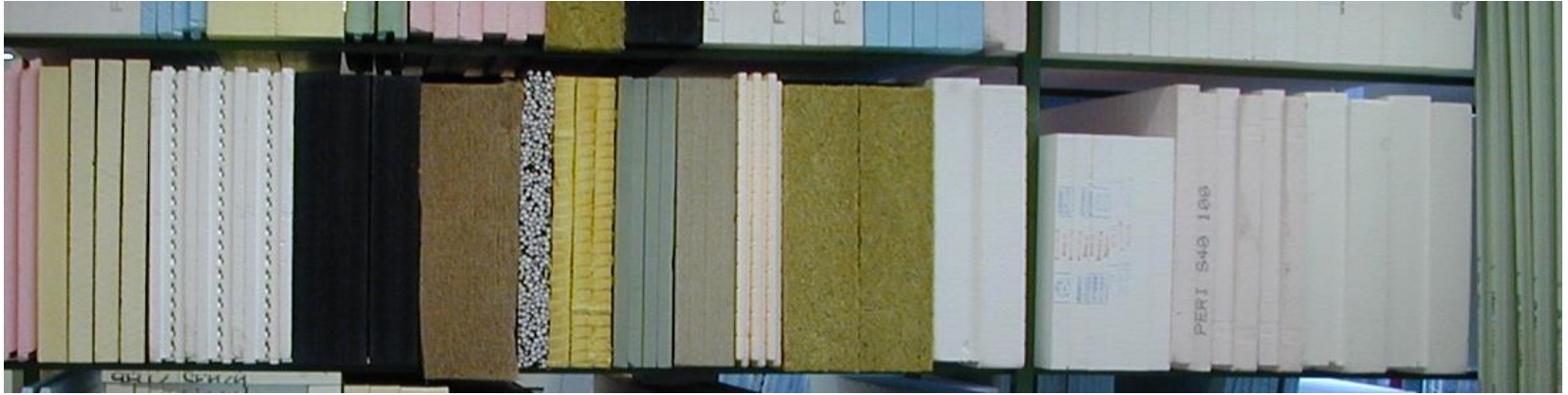
2014





**construction industry is not
innovative !**

http://www.appel-autofit.de/media/img/altes_auto_low.jpg



insulation materials



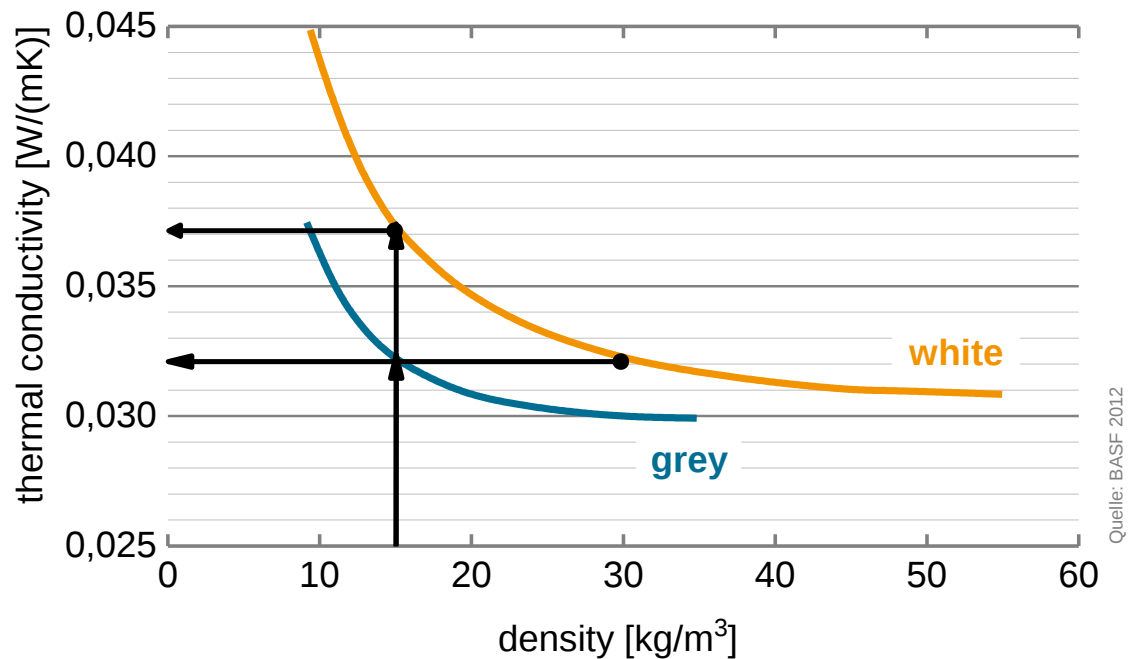
http://www.detail.de/uploads/pics/Forschungsprojekt_zum_WDVS_Recycling_01_A_01.jpg



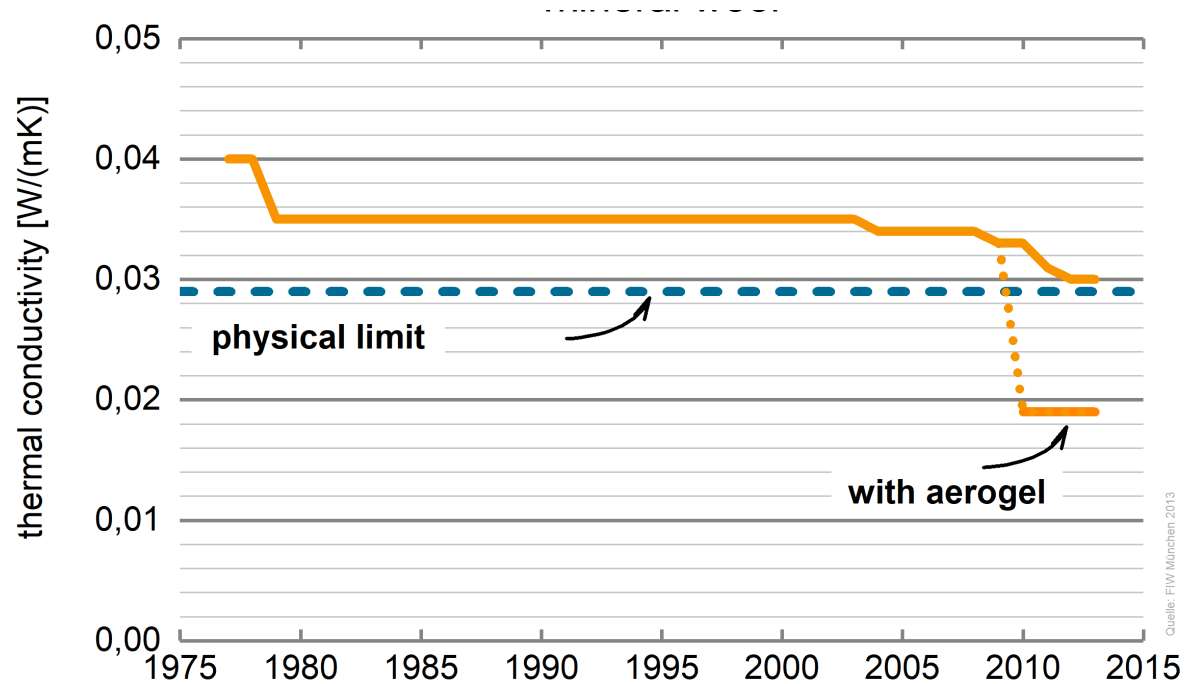
Quelle: IBHolm



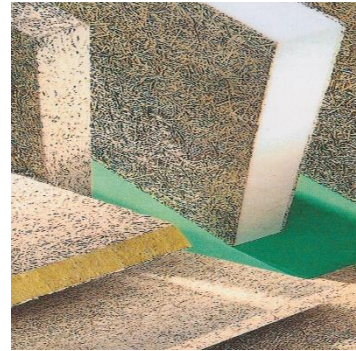
www.zae.de



Mineral wool



Insulation materials



Super insulation materials



Quelle: weber



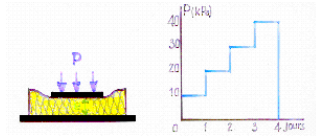
Quelle: weber

Development Potential: combining 2 worlds

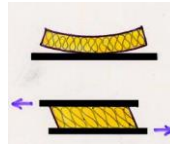


09.10.2017

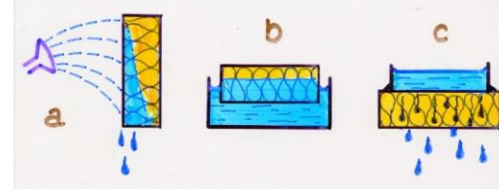
Testing



Compressibility



Dimensional Stability



Liquid Water behaviour

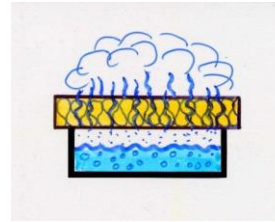


Longitudinal
Traction

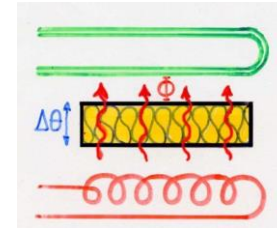
Flexion
under its
own weight

Cohesion

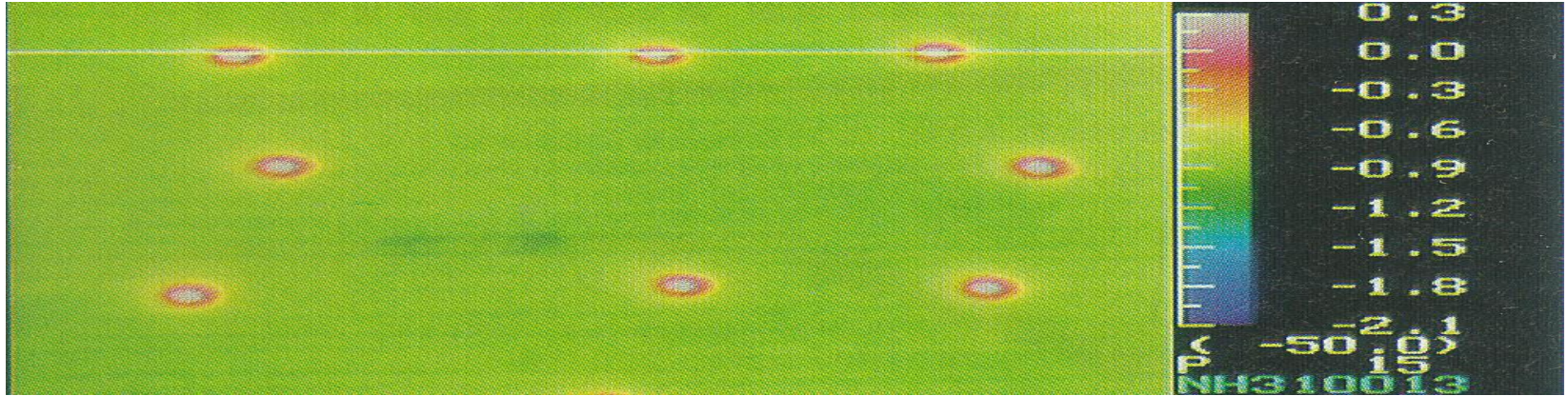
Cohesion and Flexion



Water Vapour
Permeability



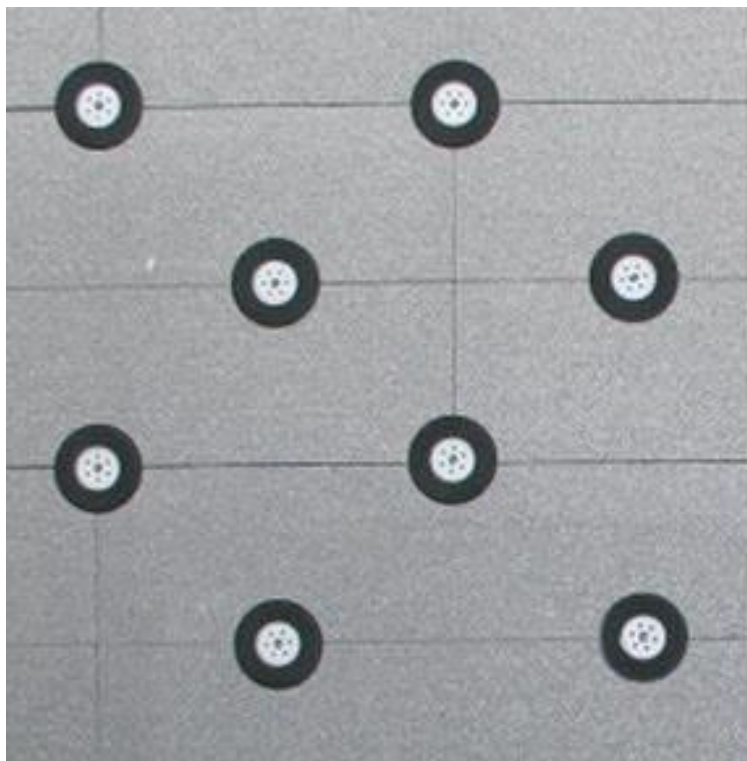
Thermal
Properties



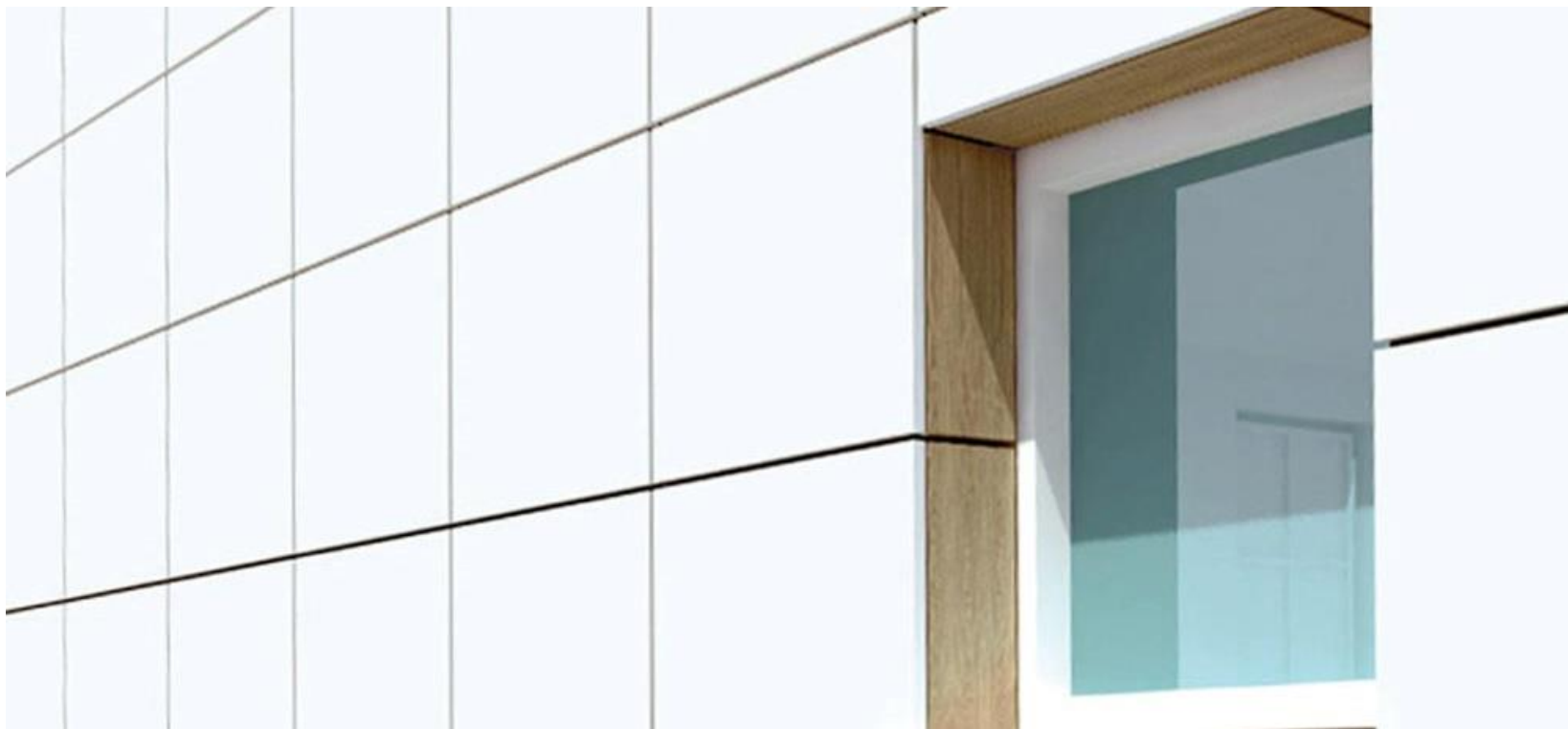
fixing



www.dekorplus.de



Quelle: IAT / TU Graz



Quelle: IAT / TU Graz



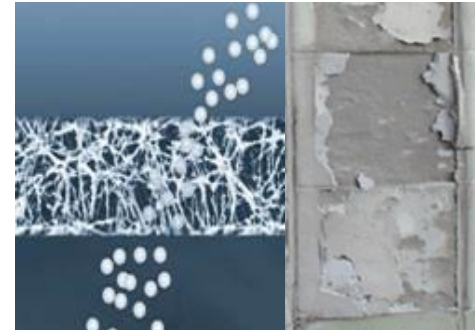
Finish coat

Inspired by

IR



Vapour Control

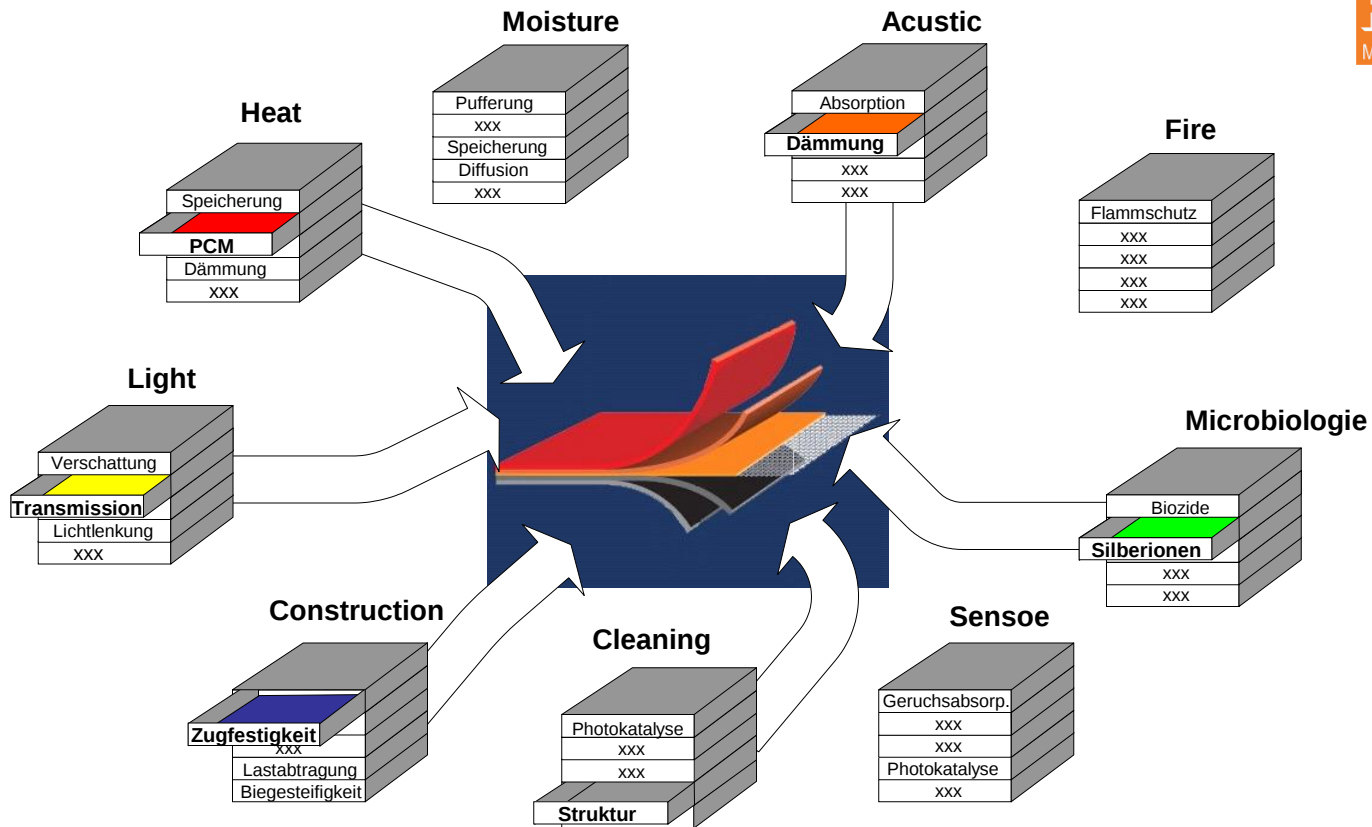


Anti micobial



Crack free





New materials



A paint roller with a red handle and a white roller head, resting on a surface.

Wie die Sonne als Öl tanken!

Aufgrund immer höher werdender Energiekosten mehr denn je der Einsatz innovativer Technologien Ansprüche. Seien es nun ökologische Aspekte wie z. Temperaturausgleich oder ganz einfach - aber wichtig

Energiespar-Effekt
Wärmeregulierung
Geringe Verschmutzungsneigung
Algen- und Pilzreduzierung

► **Ausgangssituation**

- steigende Energiekosten
- Algen- und Pilzgefahr

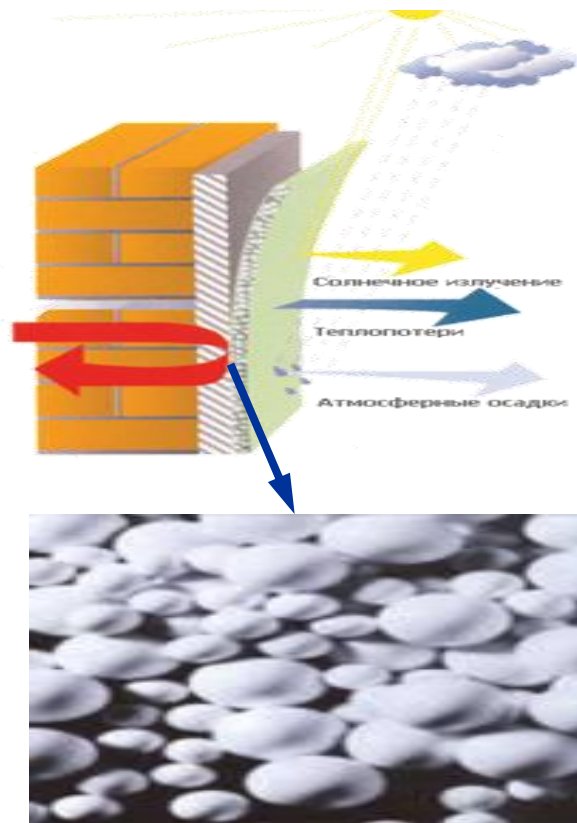
Solar

Solarfarbe

für Fassaden

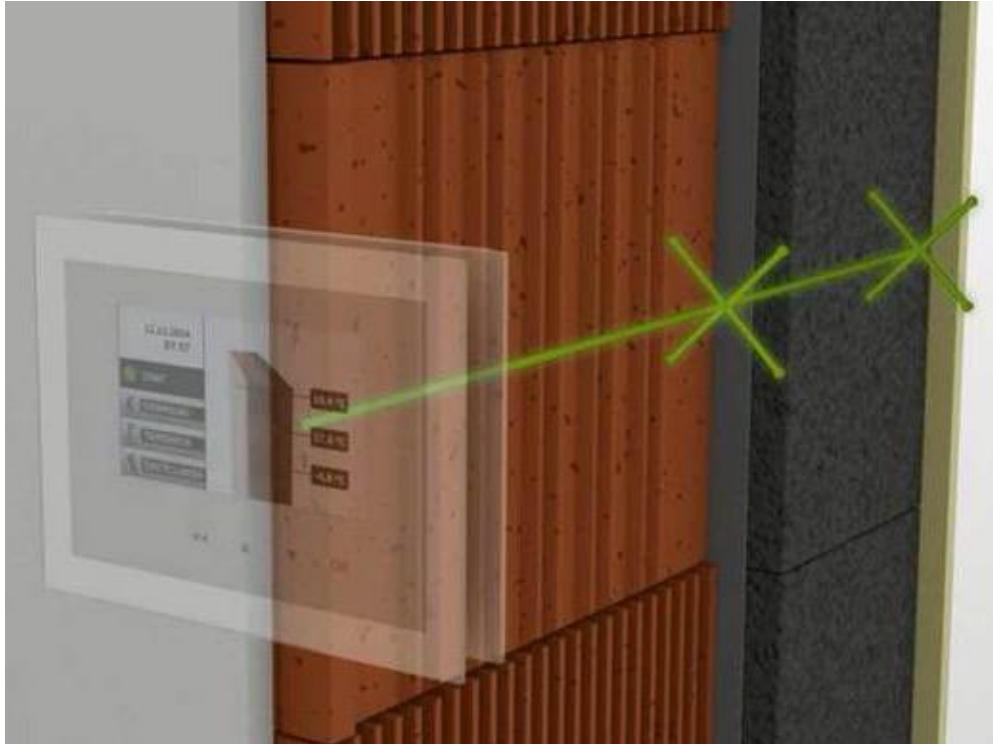
Solaraktive Fassadenfarbe
mit Energiespar-Effekt

Paint



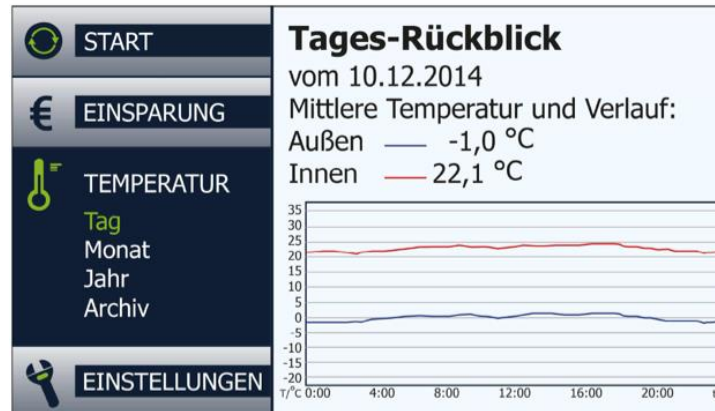
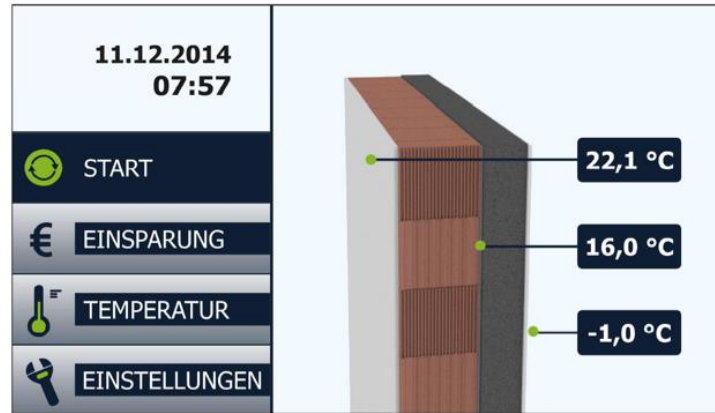
Paint is not an insulation material !

WDVS Tacho

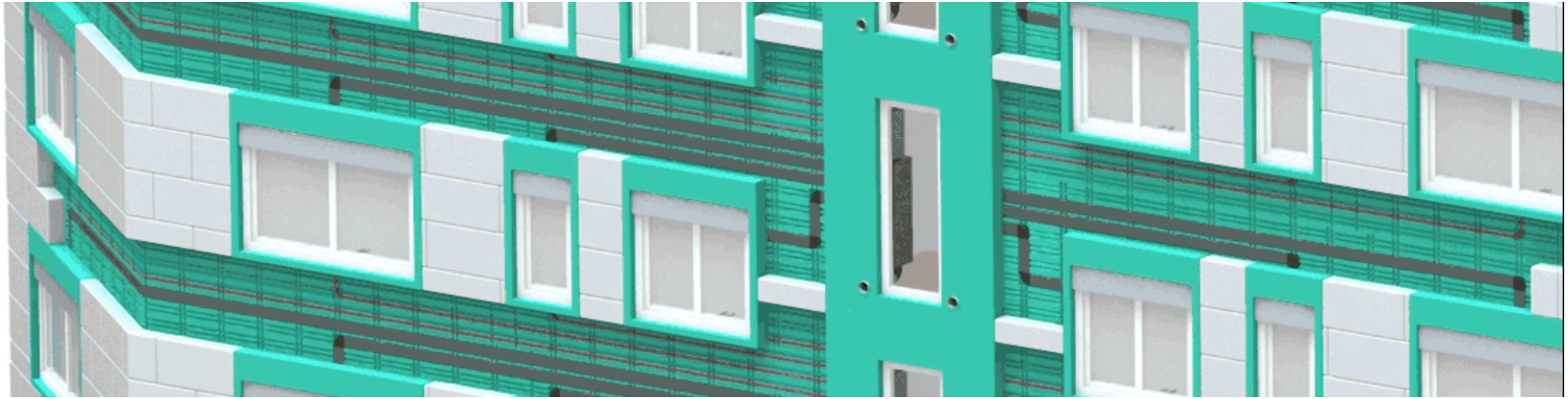


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WDVS-TACHO



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System integration

Multifunctionality





http://www.appel-autofit.de/media/img/altes_auto_low.jpg

construction industry is innovative !



www.kiltz-architektur.de/



www.klima-wandel.com



Bild: BayWa



firmenauto.de

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