

# ETICS & VARIETY Everything is possible

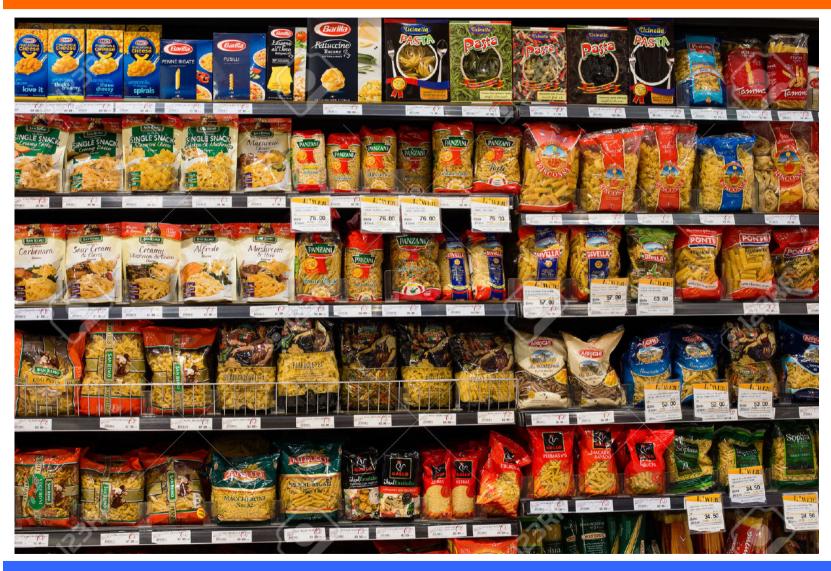
#### DI Dr.techn. Clemens Hecht

EAE Board Member for Technical Affairs
ARGE Thermal Insulation Systems Quality Group in Austria













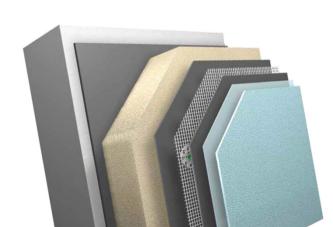


- 1. Overview
- Variation in techniques
   Insulating material, mounting, accessories, plaster
- 3. Variation in design Surface, shape
- 4. Summary





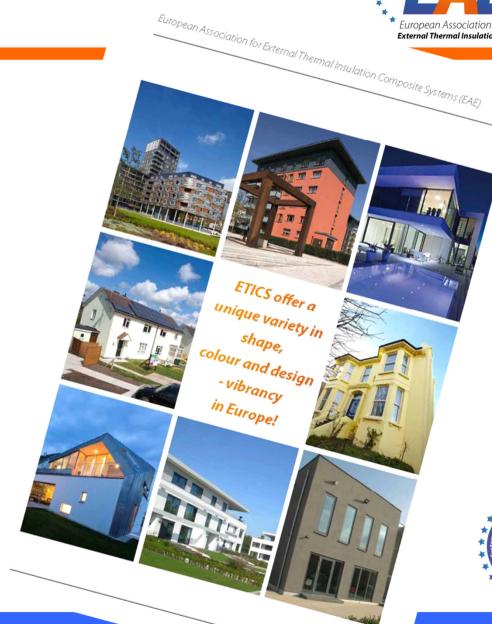




System loyalty pays off!

Why respecting the system is essential for quality, safety and long-term performance of for quality, safety and long-term posite Systems (ETICS).

External Thermal Insulation Composite Systems



October 2015





## **ETICS**

- checked in the system -

Planning

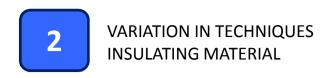
Product & components

Process-ing

Care & maintenance

**Knowledge & ability** 







#### Variety of insulating materials

There is not ONE perfect insulating material, but rather suitable solutions.

- Mineral foam
  - Polyurethane
  - XPS
  - Wood fibre panels
  - Insulating materials made from renewable raw materials
  - Phenolic foam
  - ...











Adhesive methods:

Edge-bead-point method

**Buttering-floating method** 

Machine application to the wall











Based on the selected system, the sub-surface conditions, the insulating material and wind loads, the following mechanical mounting options are also possible in addition to adhesion.







Dowels – differentiation according to the following criteria:

Anchoring in the wall (expansion dowels, drilled dowels, set dowel)

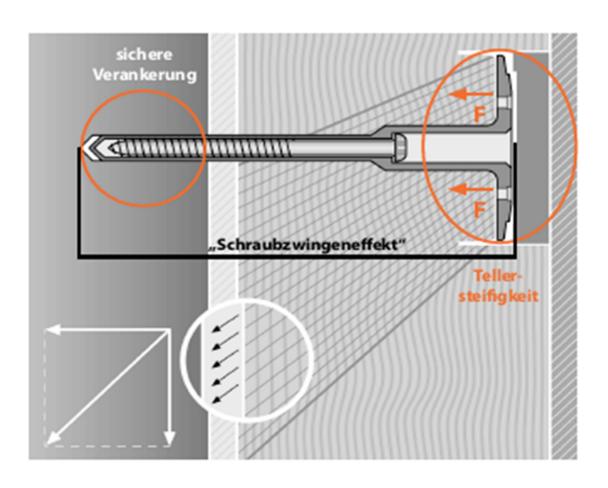


Anchoring in the insulation material (plate dowel, recessed mounting, additional plates)









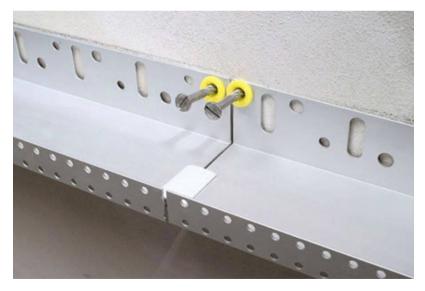






#### Rail mounting

Mounting method serves to bridge non-load-bearing surface coatings or to compensate for significant unevenness in the sublayer.







#### **Variety of accessories**

The spectrum of accessory solutions ranges from seals, corner plates, connections for windowsills and support brackets to options





#### Variety of plaster systems

... Shaping the surface with a wide variety of structures, thicknesses, shapes and colours

- Mineral plasters
- Silicone plasters
- Silicone-resin plasters
- Dispersion / synthetic resin plasters

- ...





### Craftsmen give the facade an individual look

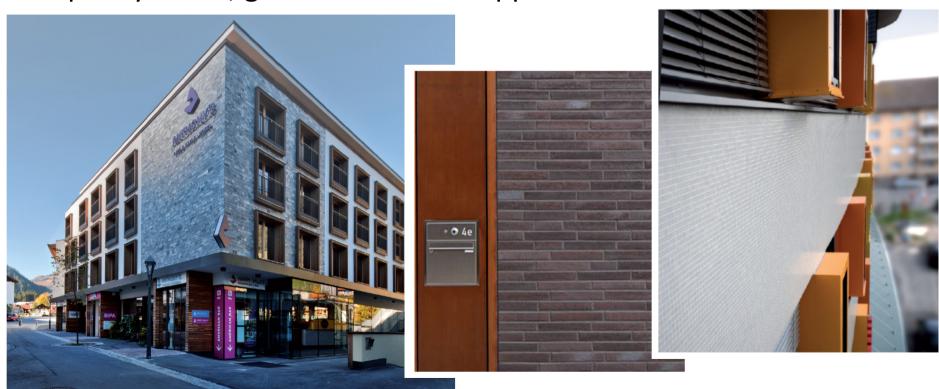


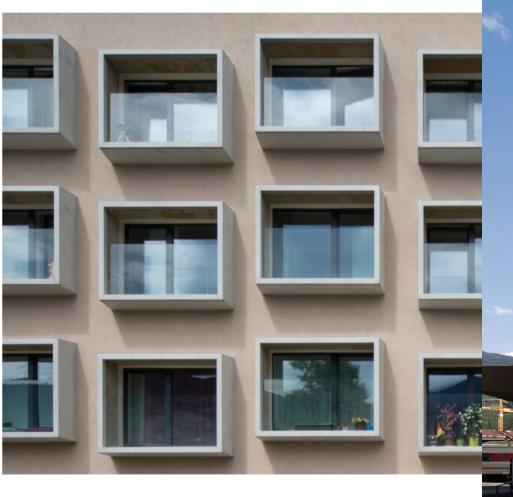




#### Diversity in surface design

In addition to traditional plaster, it is also possible to use highquality metal, glass and ceramic applications as well as wood and











VARIATION IN DESIGN SHAPE





European ETICS Forum 2015 • ETICS & variety – everything













### This variety of technical and attractive systems...

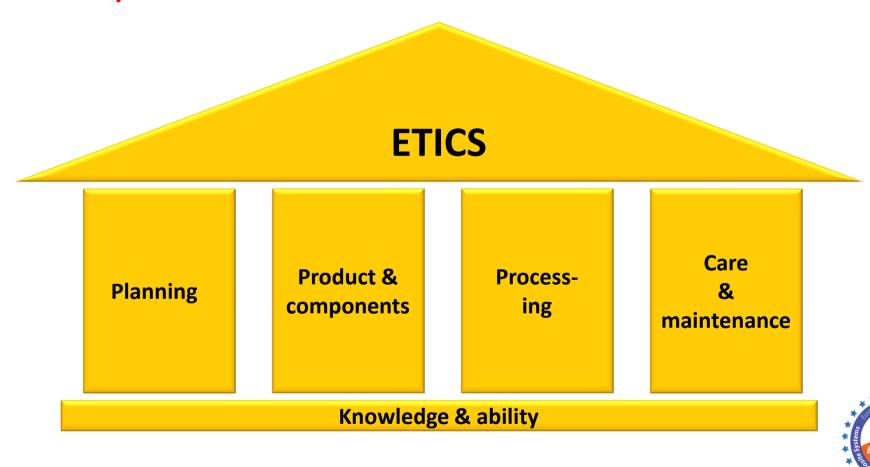
	h-int	er Bernessu'll	nel TWI System System	se im and	2-11 organ.	nineral.	n Diba	and the during	& erford er	idh isch un	kan. Kerputan	ineral.	k onhart	Julie Transport	ockenno	tel mineral	der
Dämmstoff	Wärme- leitung	Brand- schutz	Verklebung Dämmplatten			mechanische Befestigung			Unterputz		Oberputz				Beklei- dung		
expandierter Polystyrol- Hartschaum (EPS)	0,032 0,035 0,040 <sup>1</sup>	B1 (B2) <sup>2</sup>	+	+	+	М	+	M M	+	+	+	+	+	+	М	М	
Mineralwolle (MW)	≤0,036 ≤0,040	A2	-	+	-	-	+	- M	М	+	+ •	NS	+	+	- M	М	
Mineralwolle-Lamellen (MW)	≤ 0,041	A2	-	+	-	+	М	-	+	+ 2	17	-	+	+	М	М	
Holzweichfaser (WF)	≤ 0,050	B2	-	М	-	-	М	+	М	10	+	+	+	+	-	-	
Polyure than - Hartschaum (PUR)	≤ 0,028	B1	+	+	-	-	+	-	40	†	ris	+	+	+	-	-	
Mineraldämmplatten	0,045	A2 B1	-	+	-	-	÷	Lif	. Je	Uje	-+	-+	+	+	-	-	
Phenol-Hartschaum (PF)	≤ 0,024	B1	-	+	-	M	Ţ	1	11,	+	+	+	+	+	-	-	
Kork (ICB)	0,040	B2	-	+		117	+	OC.	-	+	-	-	-	+	-	-	
Schilfrohr	0,055	B2	-	-	W. C	17-	- <	+	-	+	-	-	-	+	-	-	
Vakuum- Isolationspaneele (VIP)	0,008	В2	-	+	İ	+	-	-	-	+	-	-	-	+	-	-	
extrudierter Polystyrol- Hartschaum (XPS) <sup>3</sup>	≤ 0,036	В2	+	+	+	+	М	-	+	+	+	+	+	+	М	-	







#### ... is possible!



Coctober 2015





Thank you for your attention!

http://www.ea-etics.eu/

