

What is quality?

DOND (O

- J.M. Juran defines quality as satisfaction of a costumer and a suitability for exploitation
- Satisfaction of a customer and suitability for exploitation are the characteristics of a product
- The product is software, goods, service or buildings







The importance of thermal and sound insulation Which problems do You al zorade 23% Tiocrt have with Your apartment? 15% podruma 12 % ori/Vrata 10 % ٦ ۵ From 12 criteria offered, Grijanje na stana 4% problems related to 3% thermal and sound Strula insulation, together with moisture problems took first 3 places. 15 % 1 2 % 550 ispitanih domaćinst

DOND (Geni	ian sustainable building
scheme)	
DGNB criteria	
Ecological quality of the building	mostly based on life cycle analysis (LCA) of the <u>building</u> <u>products</u> used in the construction
Economical quality	particularly viewed not through the up-front cost of the building but through a life cycle costing and expected impact of different choices on the long-term value of the building
Socio-cultural aspects and functionality,	in particular the health and comfort aspects of a building as well as how it impacts its local environment
Technical quality,	especially regarding the thermal performance of the building but also other key issues such as fire safety
Process quality,	a focus on ensuring a good planning process and a high level of quality as built

1 1 1 1 1



Why to look after the quality of process and product?

- Process and product are **inextricably linked**, so that consideration of one in isolation from the other is a recipe for failure.
- There have been many attempts at bringing change in the way buildings are "produced", only to fall by the wayside because they **ignored the product** and **what it meant to occupants** (those who have to use buildings).













• YES! Through some principles:

• Eco-design

 Set of rules and principles which is intended to eliminate harmful influence through correct choices in design phase.

Eco-Efficiency

 Through the delivery of competitively priced goods and services that satisfy human needs, while progressively reducing ecological impacts throughout the life cycle.













Reducing energy-in-use requirementsSince buildings consume so much, the savings opportunities are huge!

- equivalent of 3.3 million barrels of oil a day could be saved for the European Union alone or
- the equivalent energy that would be saved by taking 230 million cars off the roads in Europe.



The best energy is saved energy



4

ECO-SANDWICH



- 50 % of the total aggregate quantity needed
 replaced with recycled aggregate obtained from construction and demolition waste (CDW).
- Newly developed mineral wool manufactured using Ecose® Technology used as thermal insulation material.
- The wall system reduces the effect of thermal bridges to a minimum due to its connection to load bearing structure

































ŀ	BUILD UP Skills
• 7 i	The EU Sustainable Building Workforce Initiative the field of energy efficiency and renewable energy
•] ł	UILD UP Skills focuses on education and training of lue collor workers (construction workers and installers)
f •]	or low energy building construction . SUILD UP Skills PILLAR I: National Qualification and
ľ	oadmaps 30 European countries involved
	CroSkills 8 partners (GF, MGiPU, HOK, REC, AF, KI, GSC, UNDP)
	• 19 institutions supported





