Cool in summer (18 °C)

Warm in winter (23 °C)

heatpump

sun
biogas
others
Bouke Braun

Lucy van Keulen

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Comfort+

Boosten District
Principal: Servatius Vastgoed
Contractor: JaJo Bouw
Architect: SATIJNplus Architects
Subcontractor: MAT Afbouw
C+ Consultant: A2L
Services: JTS

Supported by: SenterNovem
Research by: Universities of Eindhoven and Leuven
The Dutch market is focusing on renovation/refurbishment

Housing stock = 7 million dwellings

Characteristics:
- Environmental quality (public green, facilities, outdoor space, ...)
- Poor acoustic insulation
- Poor thermal insulation / waste of energy
- Demolition generates 120-130 tonnes of building waste per dwelling
Comfort+ is an industrial concept, including:

- Stripping (maintaining the structure)
- Rearranging floor plans (on row level) by a box in box system (substantial thermal and acoustical improvement)
- Integration of heating/cooling in building parts (sustainable energy, comfort)
- Flexibility for a sustainable future
- facing wall panels internal (acoustic insulation, integrated heating/cooling)
- facing wall panels external (thermal shell)
- floors (suspended floors, impact noise insulation, integrated floor heating)
- ceilings (acoustic insulation, integrated heating / cooling)
- partitions (free of services)
Reallocation of space
New houses with sufficient space by reallocation of space (splitting, joining, rearranging)
A2L

Slimbouwen®

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Comfort+ panel (back side)
Slimbouwen®

Reduction operational cost, affecting the value and extending lifespan by flexibility

Reduction of use of material, volume, waste, energy, transport, pollution, CO₂ emission,…

High quality level in architecture, comfort, acoustic insulation, …

Substantial cost savings by process efficiency

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