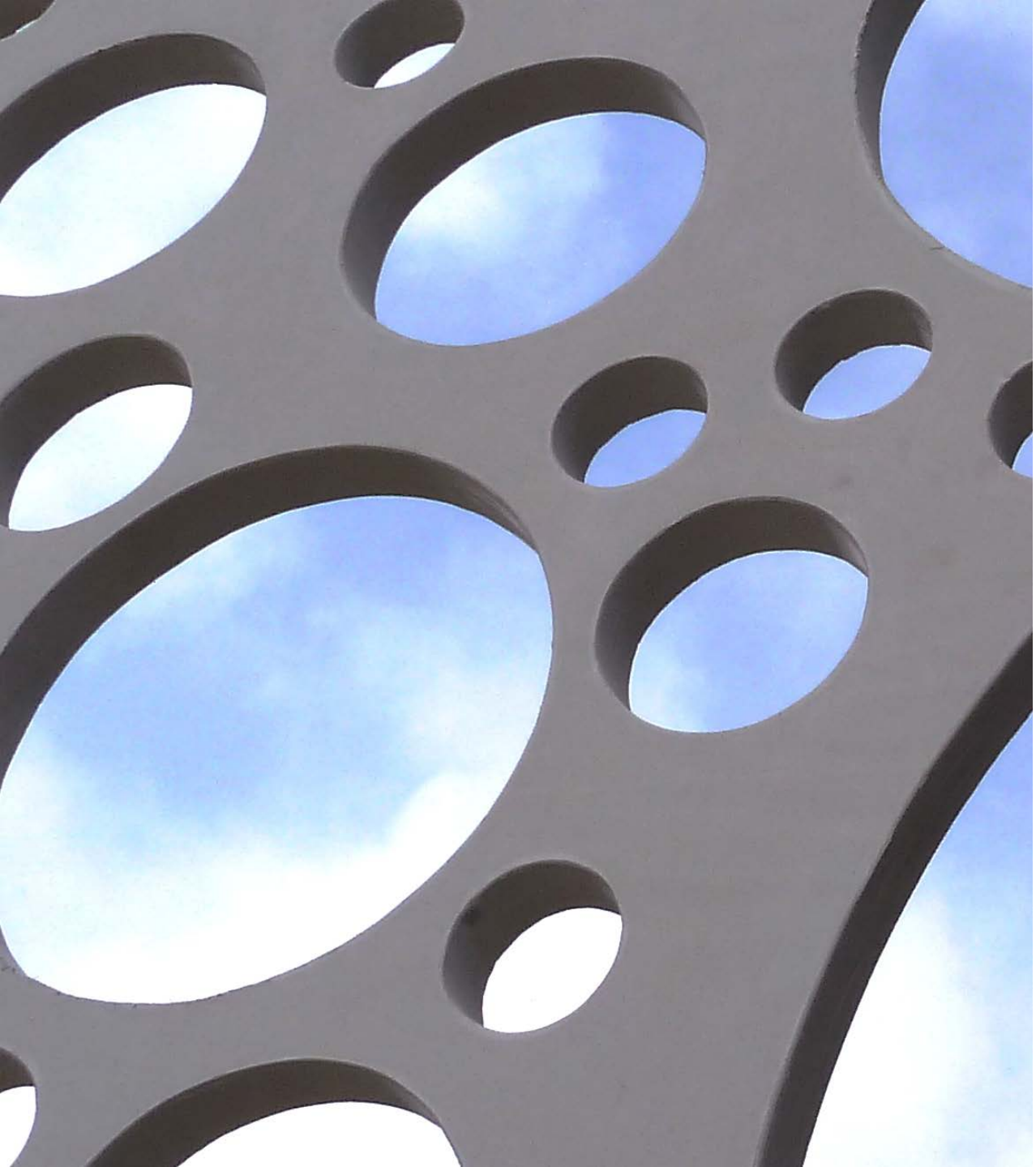

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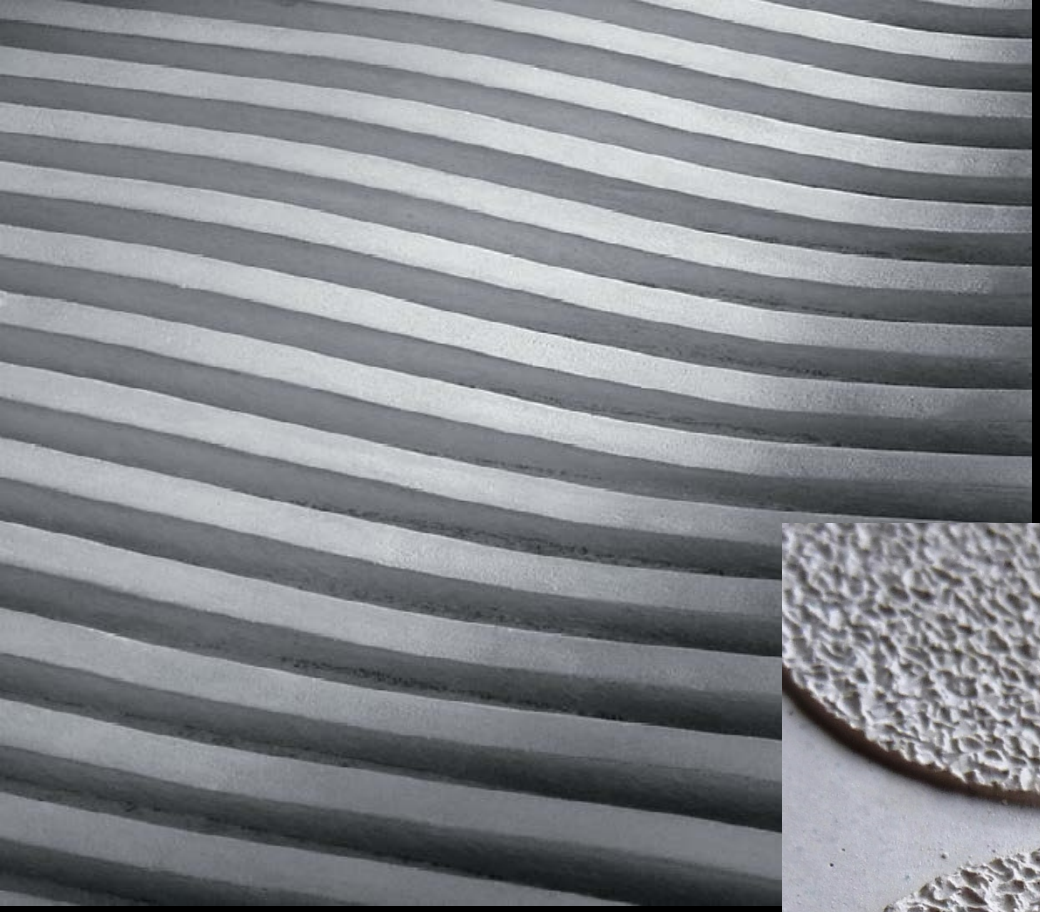
FUTURE POTENTIALS OF HIGH PERFORMANCE CONCRETE

DIPOLI 23.01.2014 - HANS BRUUN NISSEN



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UHPFRC

HPC

UHPC

HSC

CRC

HiCON

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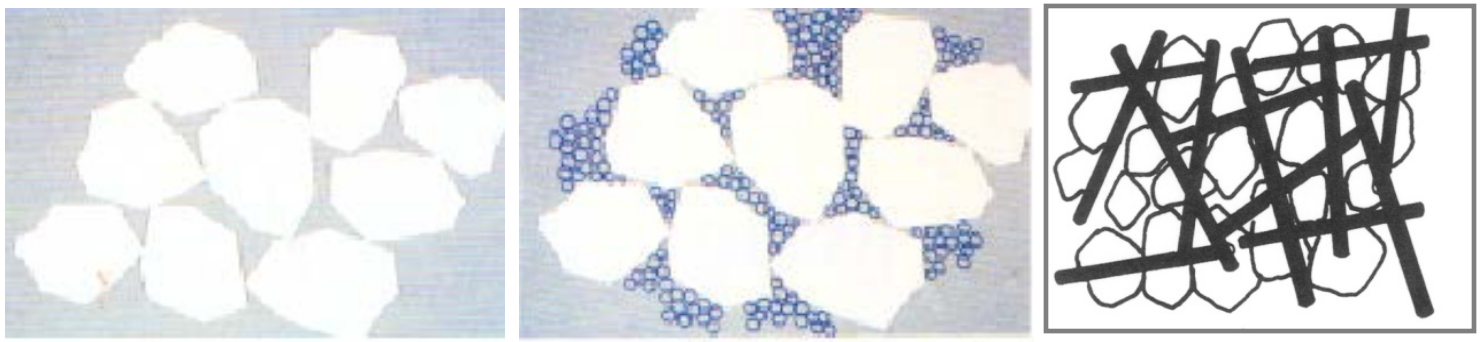
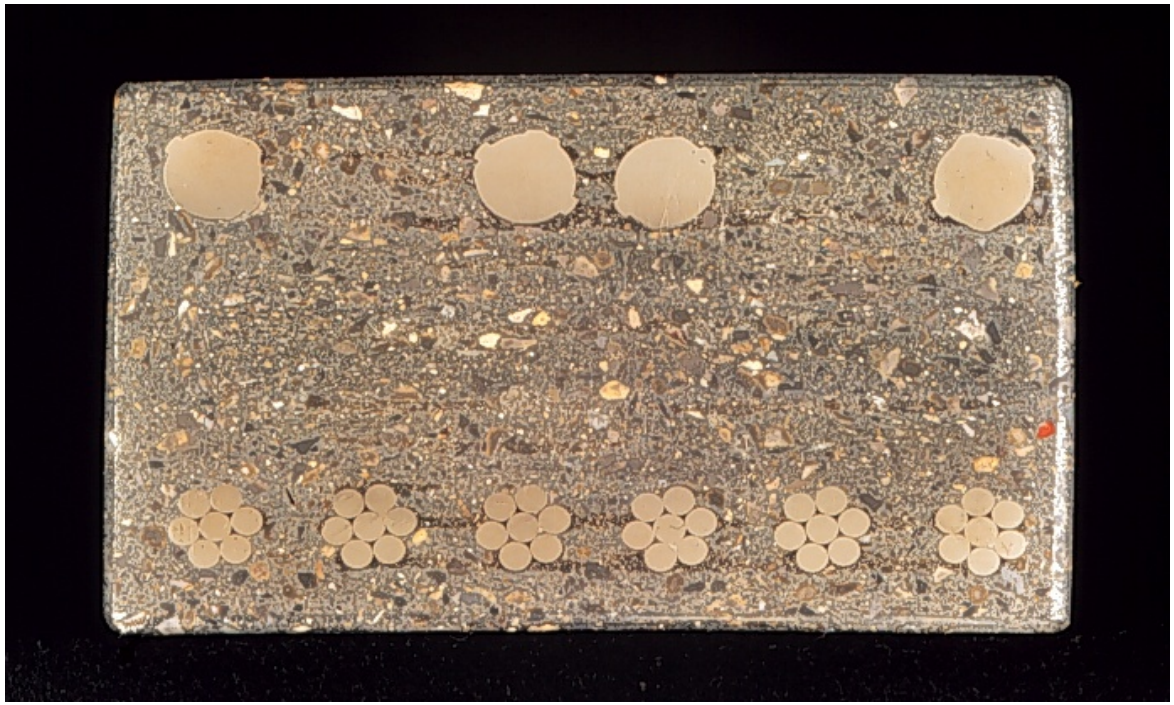
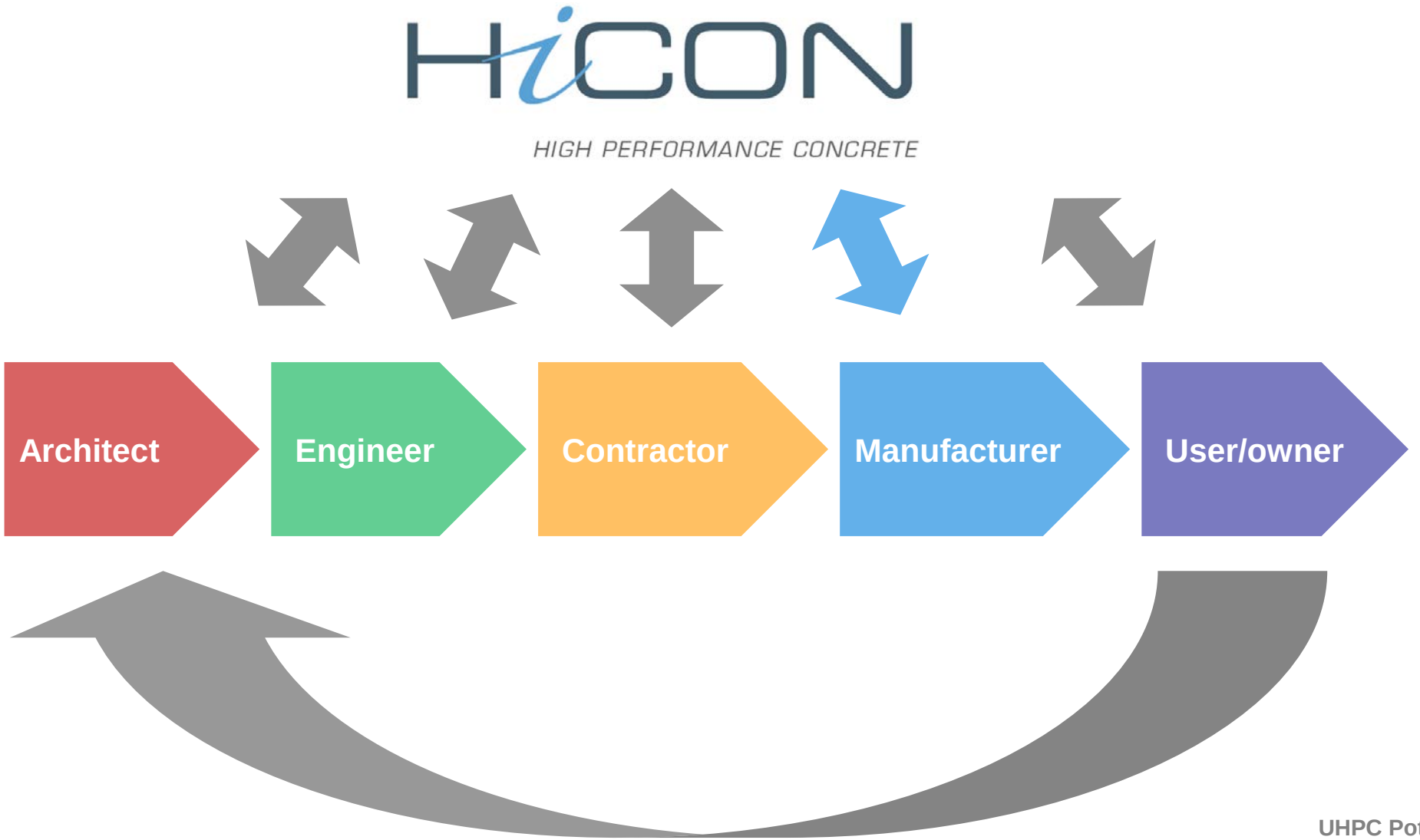
UHPFRC Principle



CRC® – Compact Reinforced Composite
1986



Hi-Con Business Culture



Hi-Con Business Culture

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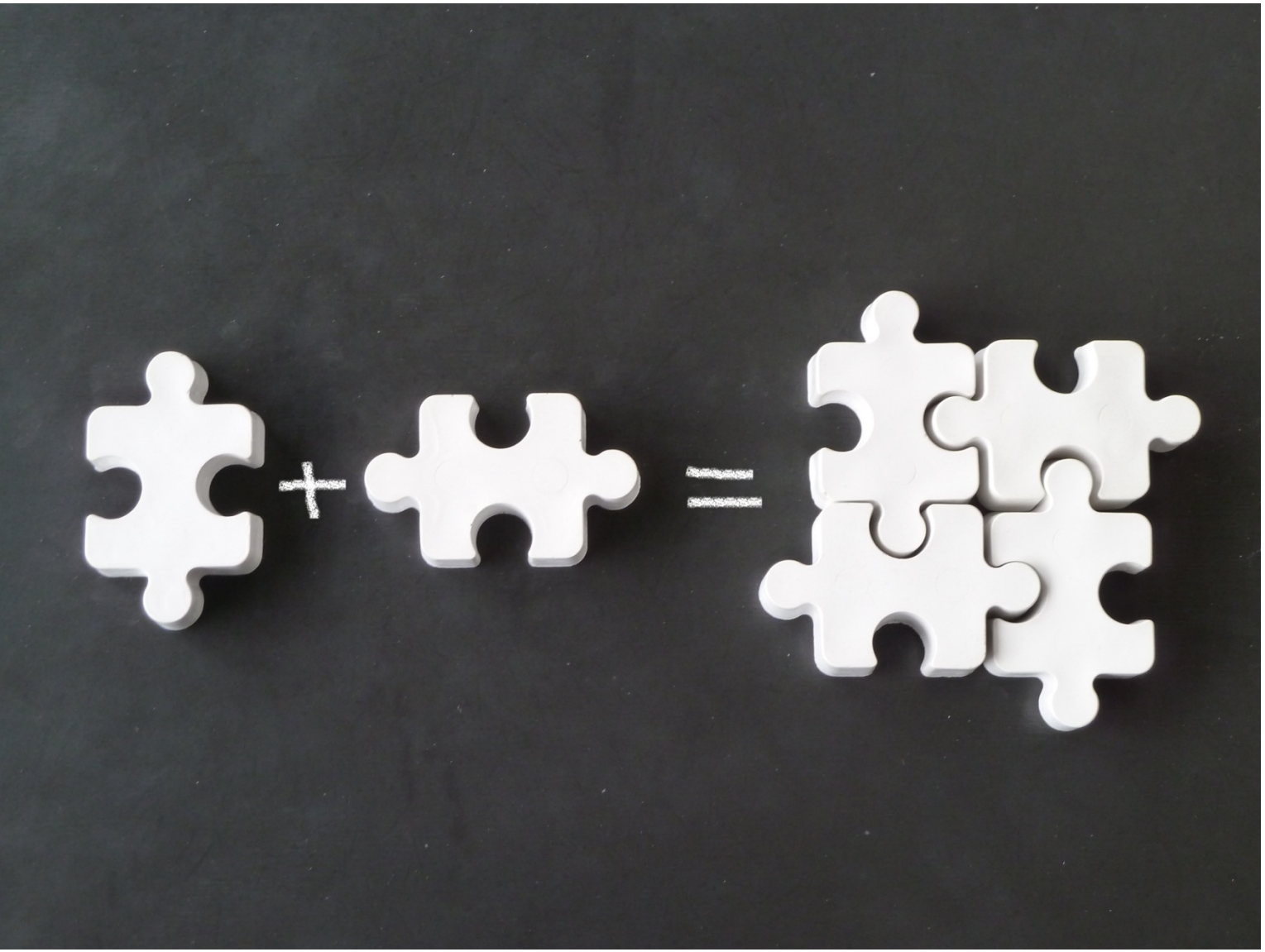

The first CRC® Applications

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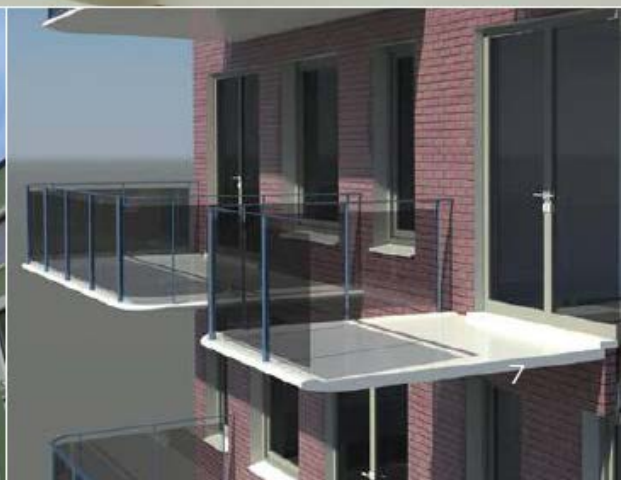

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Future Potentials

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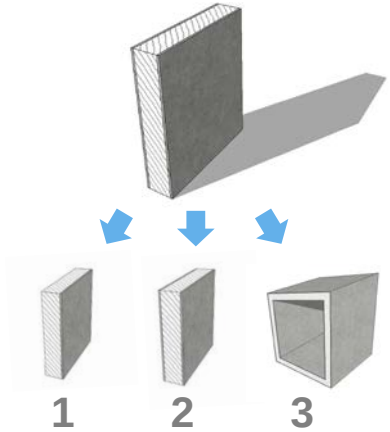

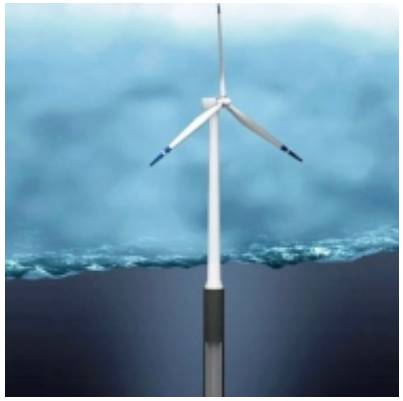

Hi-Con Balconies

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HIGH PERFORMANCE CONCRETE

CONVENTIONAL
CONCRETE BALCONY

HI-CON BALCONY

ADVANTAGES OF HIGH PERFORMANCE CONCRETE

- Thin and minimalistic design
- High strength - almost like steel
- Freedom in shape and aesthetic design
- 100+ years durability
- More daylight in apartments
- Low maintenance on surfaces
- Lower weight on building and larger area
- Smaller cranes needed for installation
- Lower transportation costs
- Fire resistant

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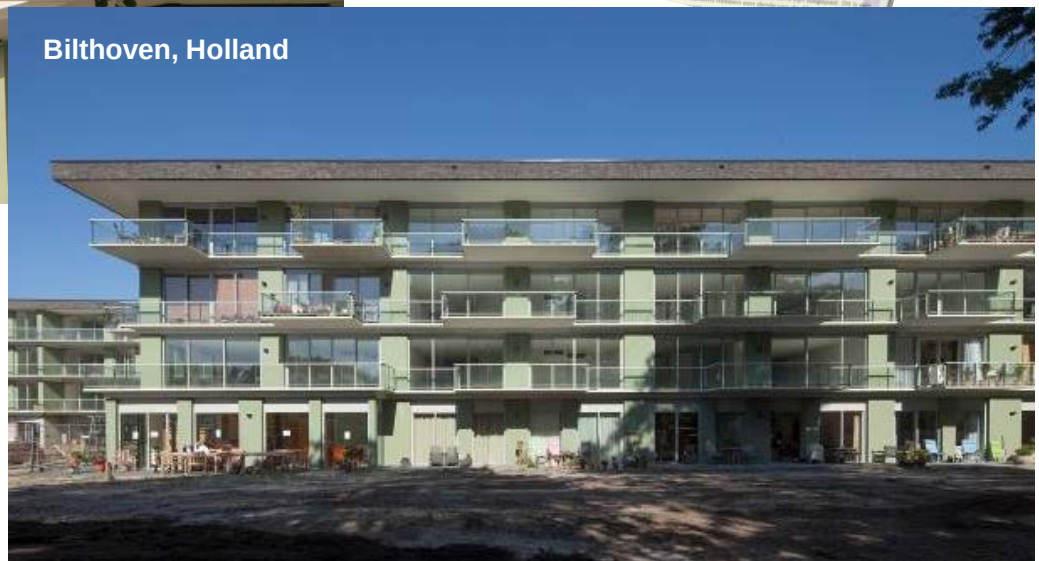
Concrete Award in Holland



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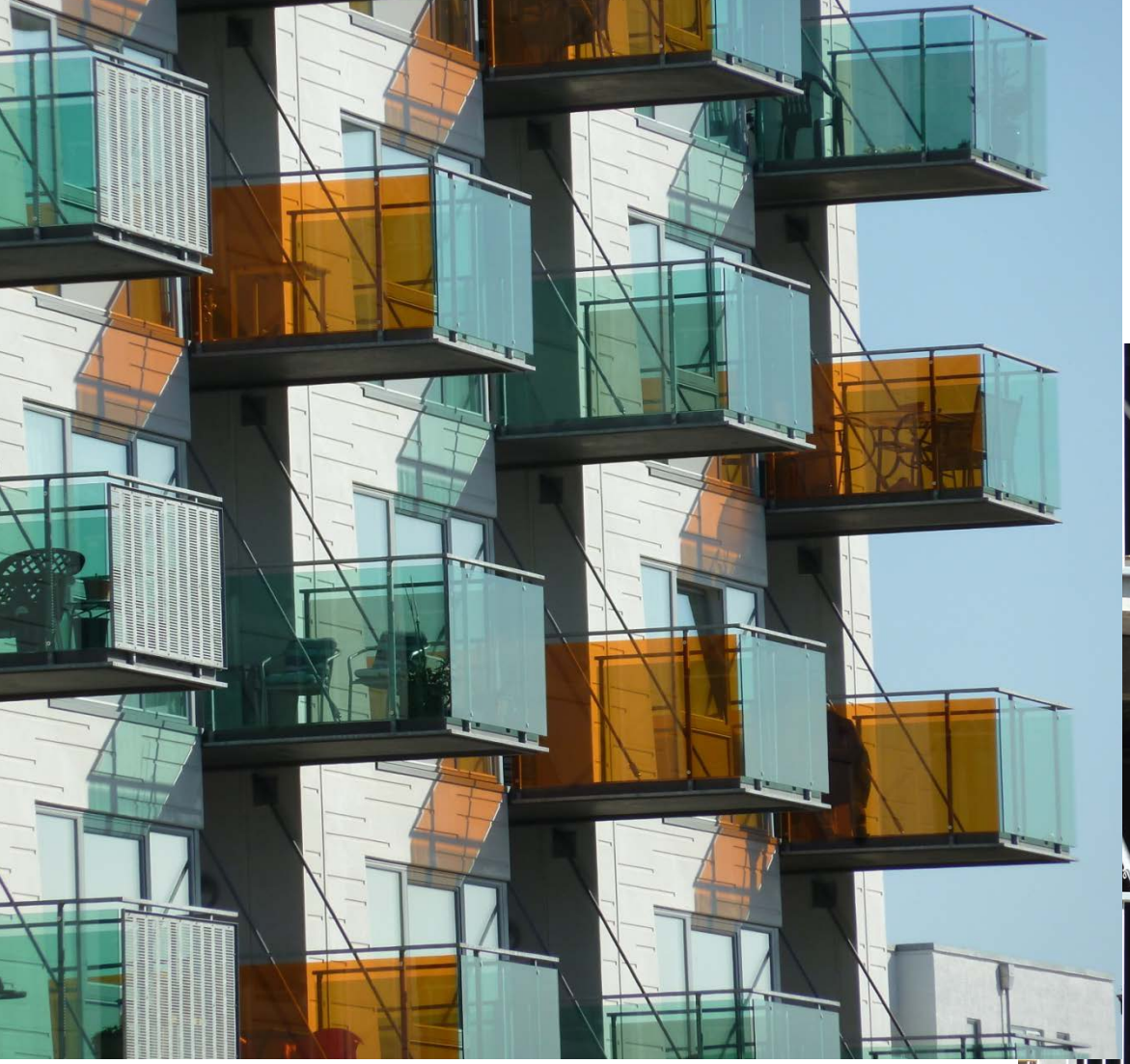

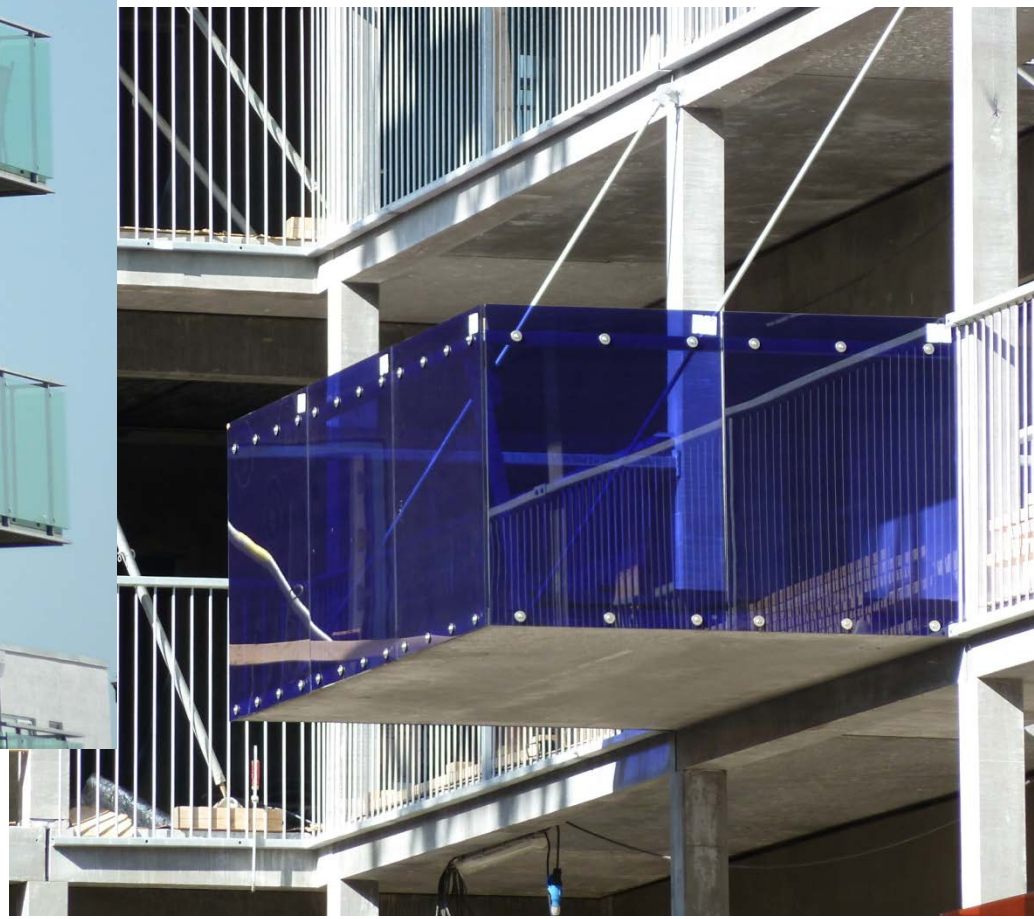

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Finlandsparken før renovering


Nye altaner giver facaden ny karakter
og beboerne ekstra plads.

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Norway & Sweden

Balconies, Finland

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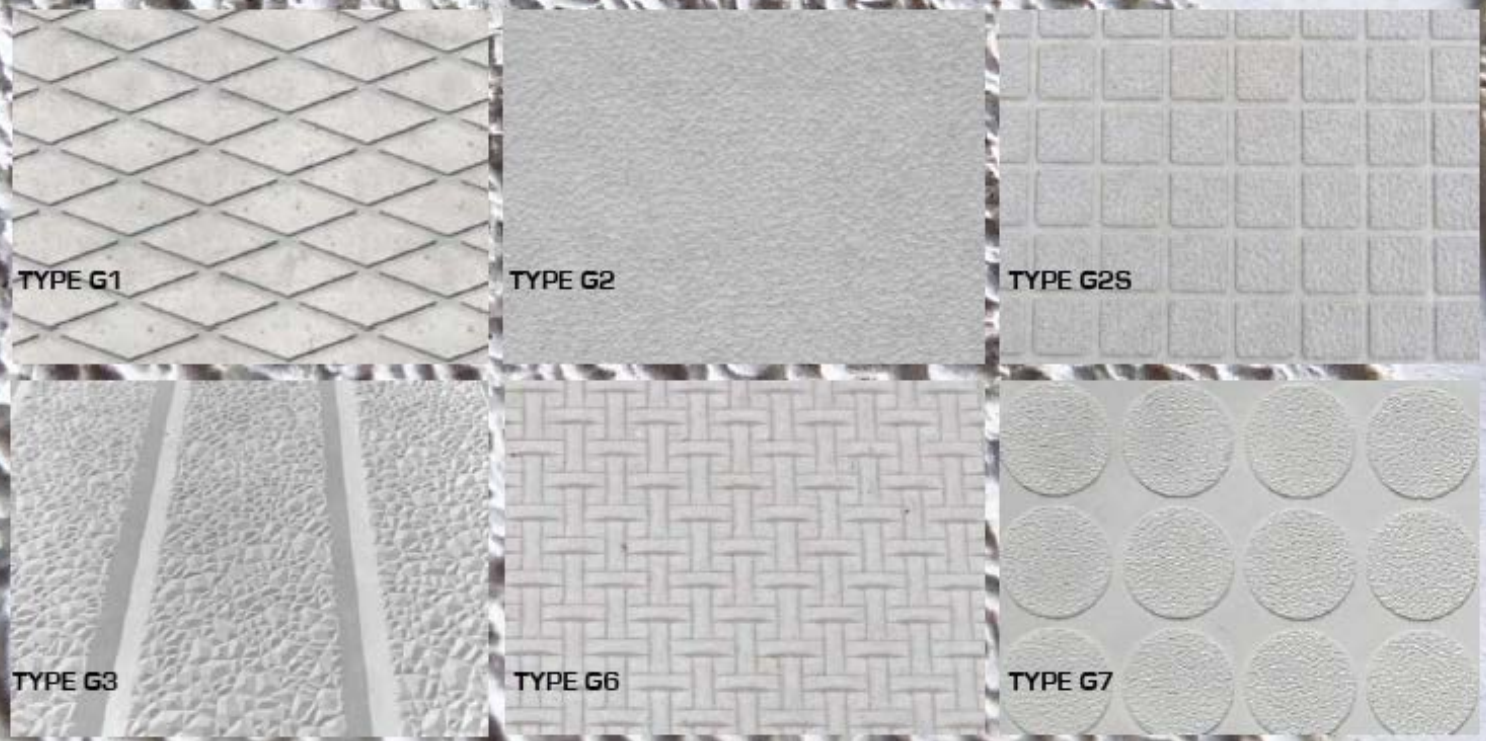
UNLIMITED SURFACES



Energy Efficient Building Systems of the Future

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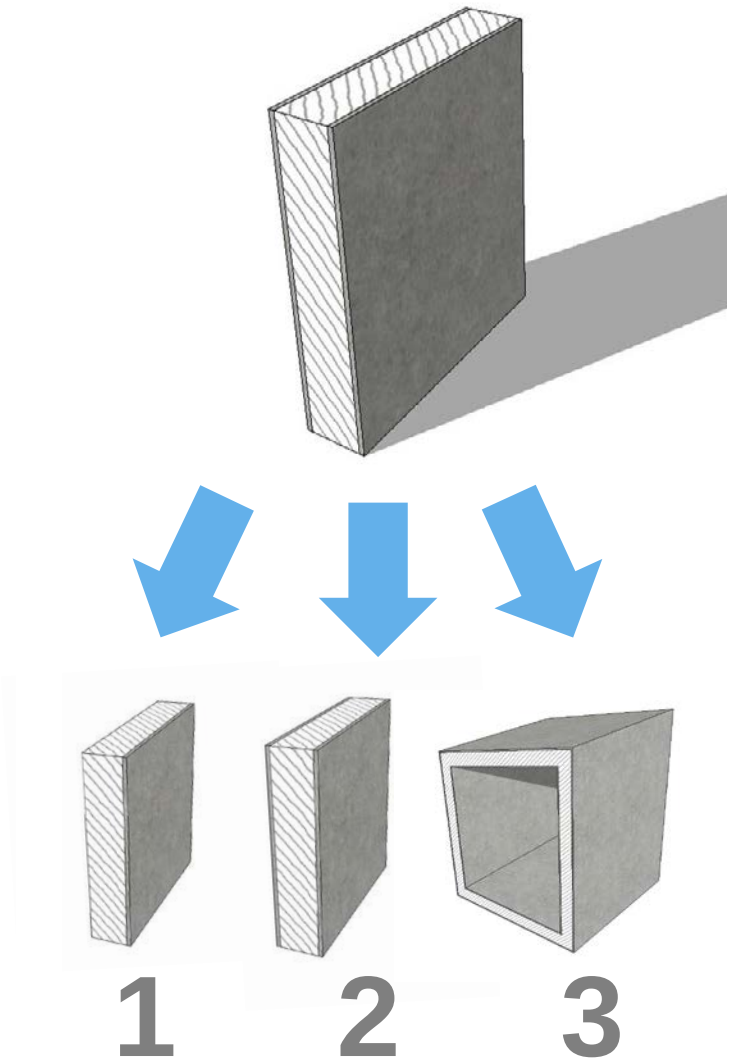
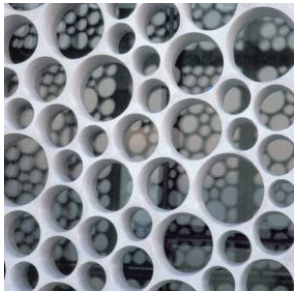


A New Technology Platform

3 Main Areas:

1. Facade Systems
2. Sandwich Panels of the Future
3. Future Construction Systems



Facade Energy Renovation – EPS Insulation

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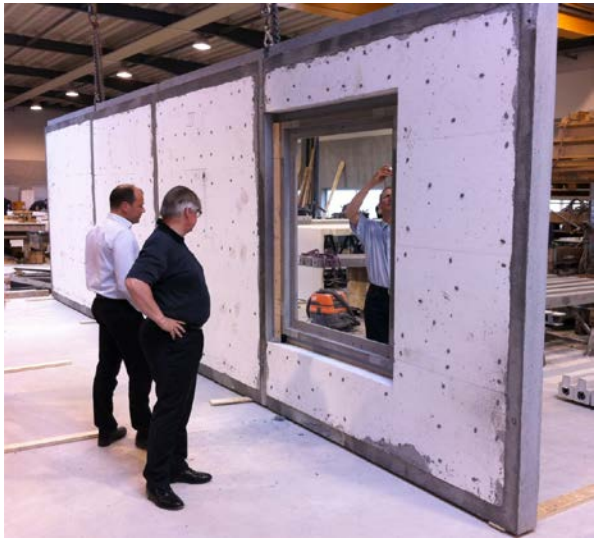
Stockholm, Sveden



Facade Energy Renovation – Vacuum Insulation

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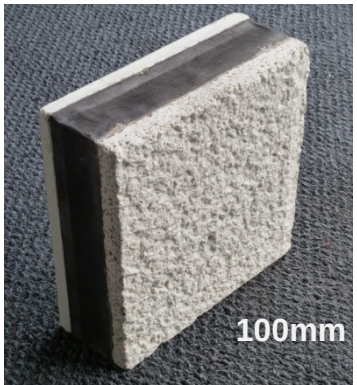

vs normal 600mm wall !

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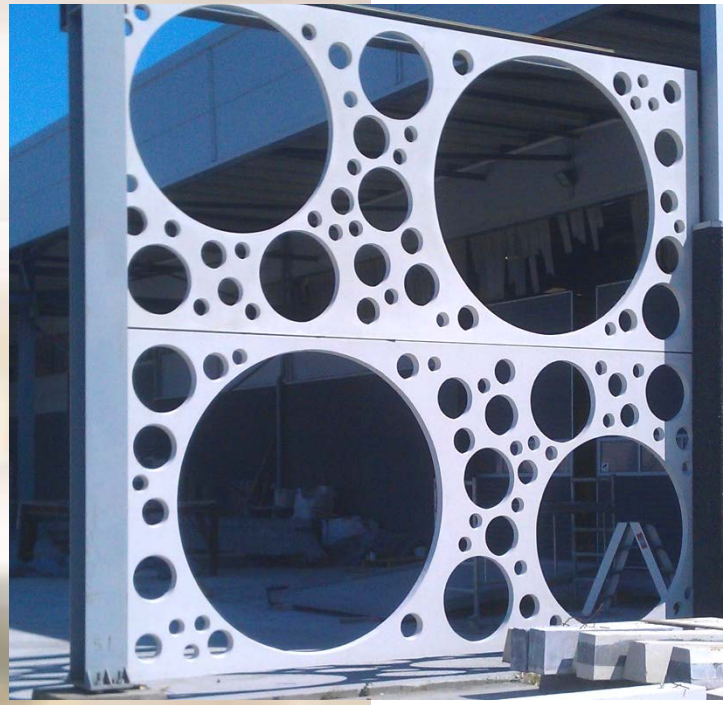

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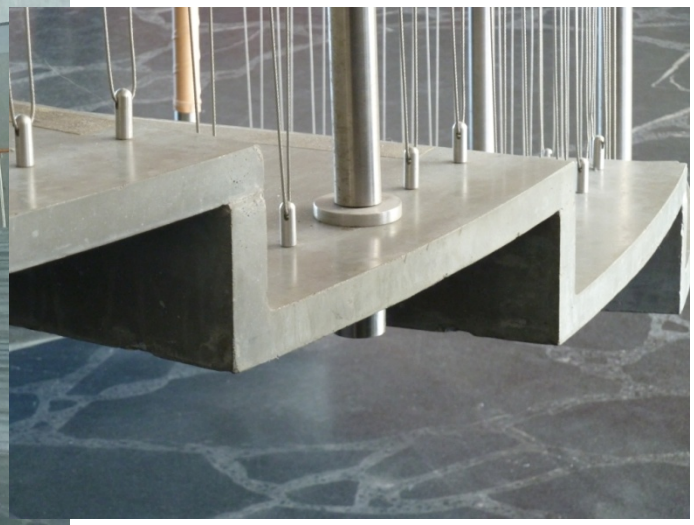
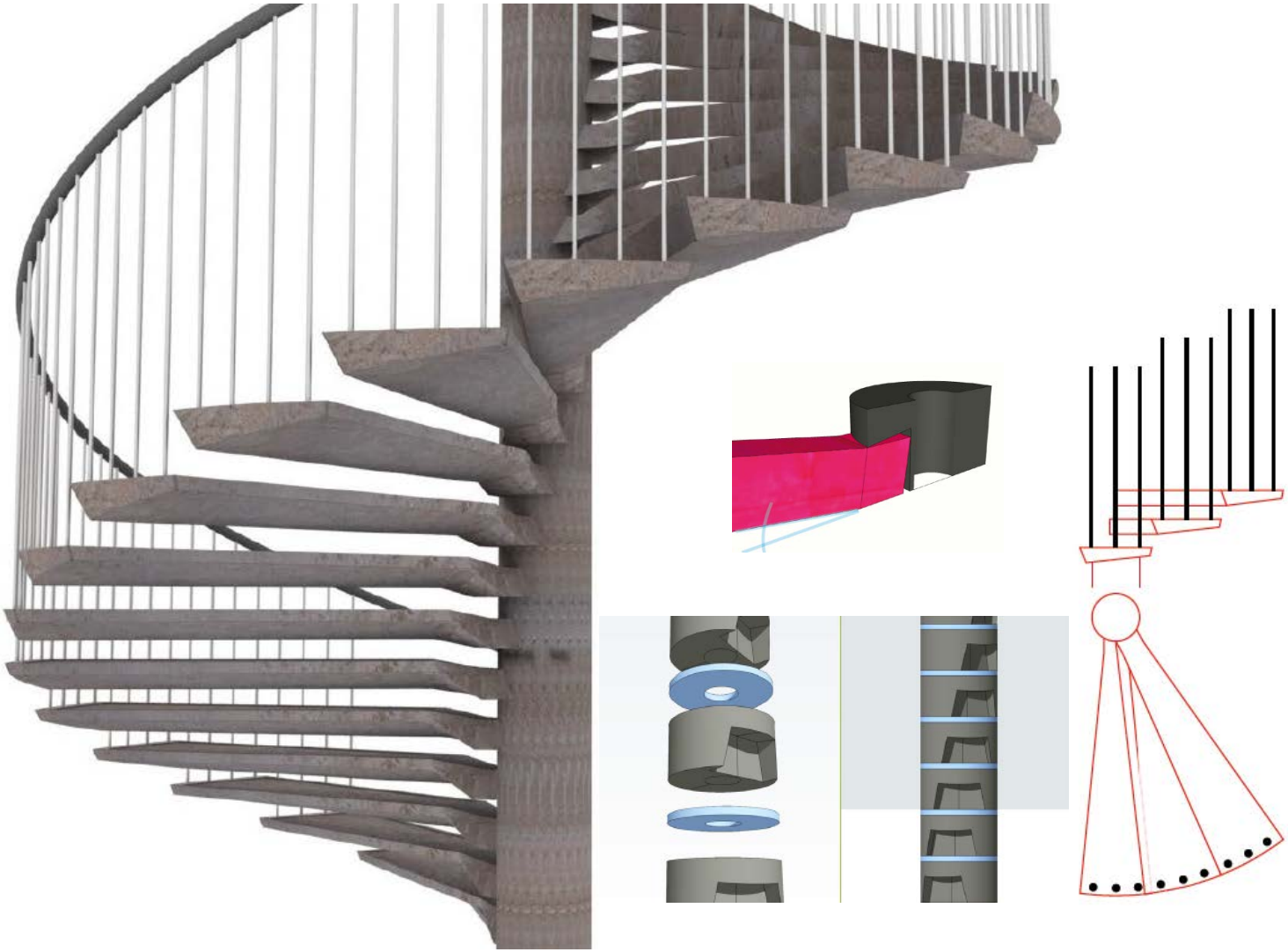


Mount® *by Hi-Con*



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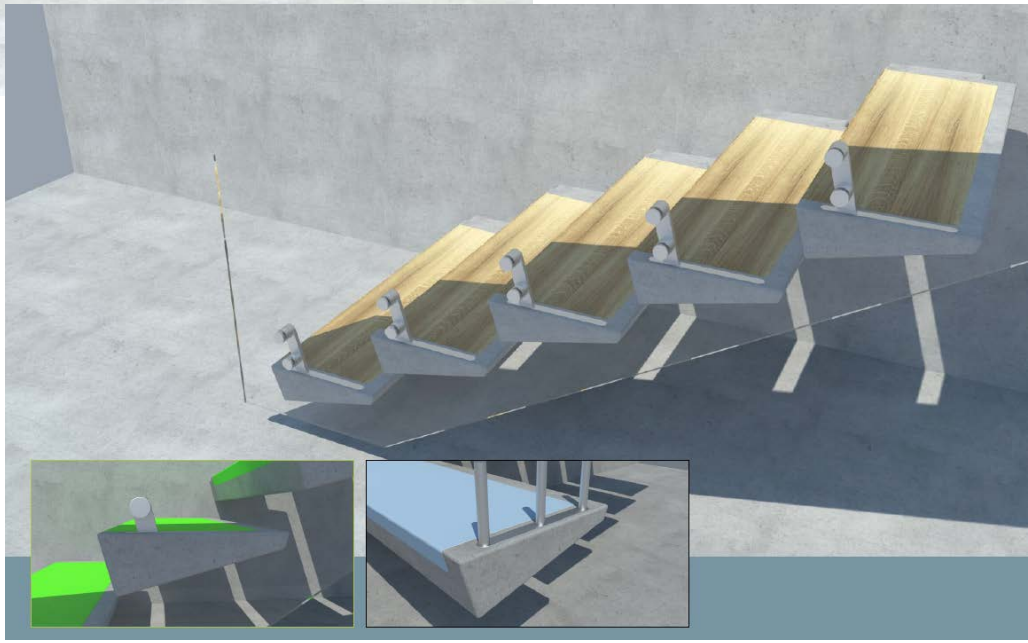
HIGH PERFORMANCE CONCRETE



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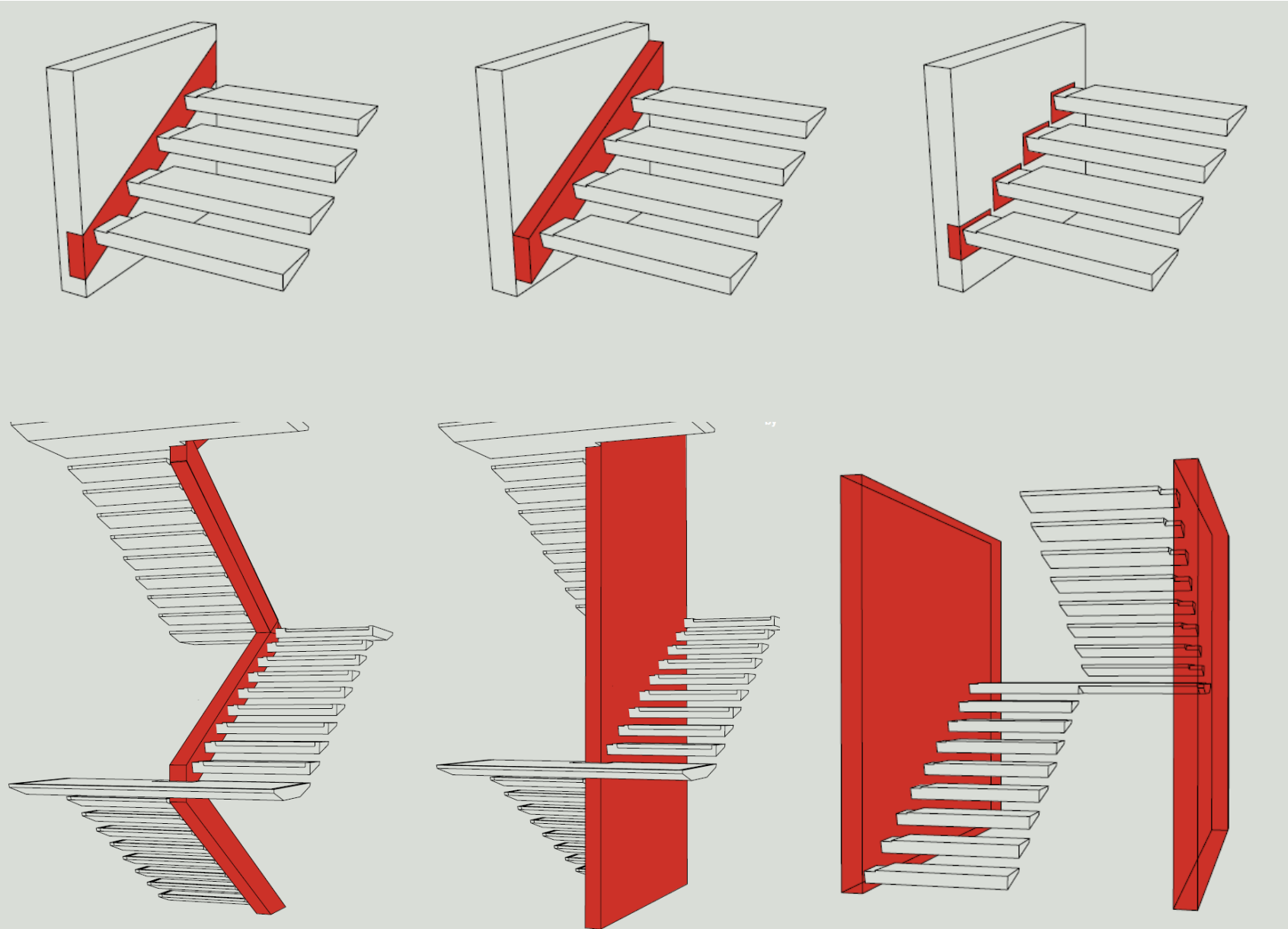
Mount® *by Hi-Con*



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Questions

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Balconies & Stairs

LO RAKENNE
Vaativien ratkaisuiden osaaja