

CORECORK

DESIGNING STRUCTURES WITH GREEN CORE TECHNOLOGY

INNOVATION
FLYERS



● Reinventing sustainable core materials



LEARNING FROM NATURE...



SECTIONS OF THE
STRUCTURE BEING ASSEMBLED



THE SUSTAINABLE
PAVILION IN COPENHAGEN



Architecture often seems like a rupture in nature and the totality of the landscape, but that is pure convention.

The future architecture will lead to a much greater extent to be created in harmony with its surroundings. The better we get at understanding and imitating the systems of nature, the more holistic architecture can become and the closer the bond between nature and human construction.

The Pavilion meets three basic human needs: shelter, rest and contact. The strip is both a roof and a bench – an experience of nature and space entwined. “It enters into a cycle that uses a minimum of new materials in a recyclable and fully biodegradable physical framework.” said Kasper Guldager Jørgensen, architect, head of Research and Development and project coordinator of the 3XN Pavilion at the Louisiana Museum in Copenhagen.

The composite structure with a cross section of 1200X100 mm was manufactured in hand layup by StageOne (UK).

Biodegradable raw materials such as Envirez® (biological resin from Ashland), natural fibres, and several layers of 10 mm thick rolls of NL20 CORECORK were used in the manufacturing.

IN SHORT:

- Design by 3XN Architects.
Engineering by Cowi
- Hand lay-up by StageOne in the UK
- Biodegradable raw materials:
 - Biological resin from Ashland— Envirez®
 - Flax fibers from Libeco fabrics
 - Green core from CORECORK
- Multi-layer CORECORK NL20 roll, thickness 10mm