Vernacular Architecture - Reconciling With The Past

Re-introducing low impact bio-materials to the building industry
Traditional eelgrass roof in Denmark
Traditional eelgrass roof in Denmark
Eelgrass - a low impact bio-material

Botanical illustration

Eelgrass meadow
Eelgrass - a low impact bio-material

Fresh eelgrass

Dried eelgrass
Present day harvesting and drying
Historical craft tradition by women
Re-learning the craft tradition on Læsø
Restauration of house from 1865

Kaline's House

Photo by Helene Høyer Mikkelsen

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar
The Modern Seaweed House
By Vandkunsten Architects

Photo by Helene Høyer Mikkelsen
The Modern Seaweed House
By Vandkunsten Architects

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar

The Royal Danish Academy of Fine Arts,
Schools of Architecture, Design and Conservation

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar
The Modern Seaweed House
By Vandkunsten Architects

Photo by Helene Høyer Mikkelsen
Material investigations
Insulation panels and acoustic panels
By Søuld
The Building Material Pyramid

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar

Carpet tiles*

THE BUILDING MATERIAL PYRAMID

Results are based on interpolation between different EPD's.
** Results are based on LCA analysis at CINARK/KADK.
** Results are based on EPD (ISO 14025 / EN 15804) phase A1-A3 primarily from Ökobaudat, Institut Bauen und Umwelt (IBU), EPD-Norge or EPD-Danmark 2019. The unit is kg CO2 EQ / kg. material.

Carpet tiles*

DECISION MAKING 

CONSIDER QUANTITIES THE DETAIL IS ESSENTIAL 
REFLECT ON LIFESPAN
The Building Material Pyramid

EELGRASS

The Royal Danish Academy of Fine Arts,
Schools of Architecture, Design and Conservation

CINARK
centre for industrialised architecture

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar
The Royal Danish Academy of Fine Arts, Schools of Architecture, Design and Conservation

The Building Material Pyramid

BIO-BASED MATERIALS

Results are based on EPD (ISO 14025 / EN 15804) phase A1-A3 primarily from Ökobaudat, Institut Bauen und Umwelt (IBU), EPD-Norge or EPD-Danmark 2019.

* Results are based on interpolation between different EPD’s.

** Results are based on LCA analysis at CINARK/KADK.

The unit is kg CO2 EQ / kg material.
The Building Material Pyramid

INORGANIC, STONE AND BURNT MATERIALS
The Building Material Pyramid

GLASS, STEEL, COPPER
The Building Material Pyramid

OIL BASED MATERIALS, STEEL AND ALUMINUM
The Building Material Pyramid

CONSIDER QUANTITIES

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar
The Building Material Pyramid

CONSIDER QUANTITIES

REFLECT ON LIFESPAN

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar
The Building Material Pyramid

CONSIDER QUANTITIES

REFLECT ON LIFESPAN

DETAIL IS ESSENTIAL

Vernacular architecture – Reconciling with the past
11th GRIHA Summit 2019, IHC, New Delhi
Line Kjær Frederiksen, Arch.MAA, Phd-scholar
Vernacular Architecture - Reconciling With The Past

Re-introducing low impact bio-materials to the building industry