Vernacular Architecture - Reconciling With The Past

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

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Traditional eelgrass roof in Denmark

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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

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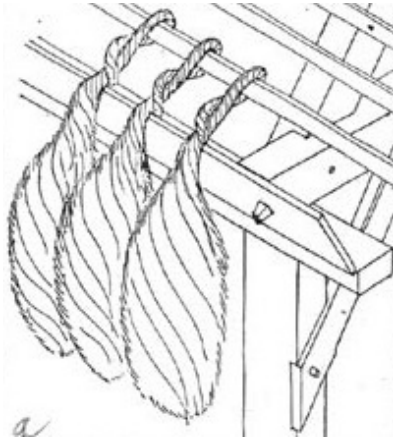
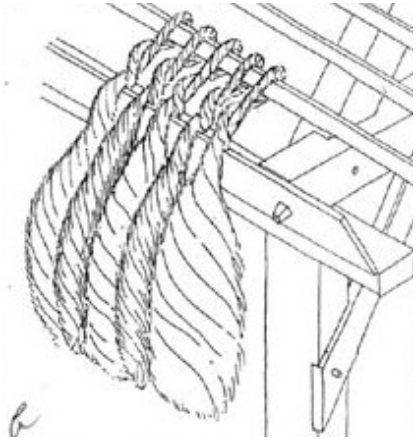
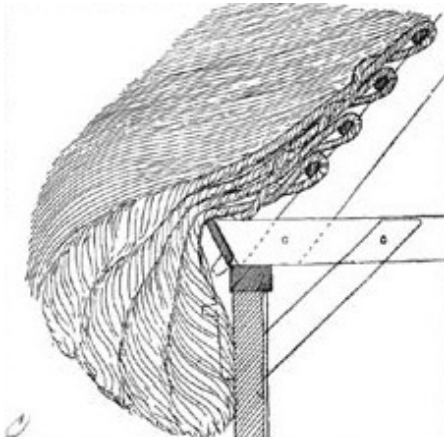
Present day harvesting and drying

Historical craft tradition by women

Læsø







Re-learning the craft tradition on Læsø

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Restauration of house from 1865

Kaline's House

Photo by Helene Høyer Mikkelsen

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The Modern Seaweed House
By Vandkunsten Architects

Photo by Helene Høyer Mikkelsen

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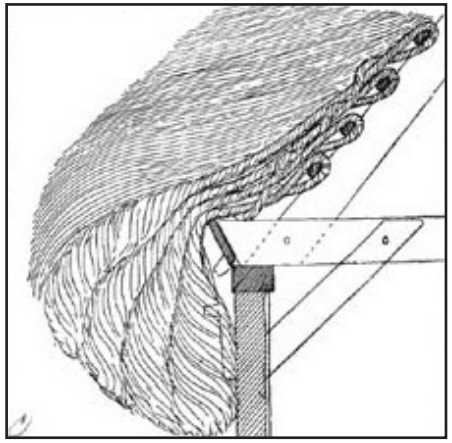

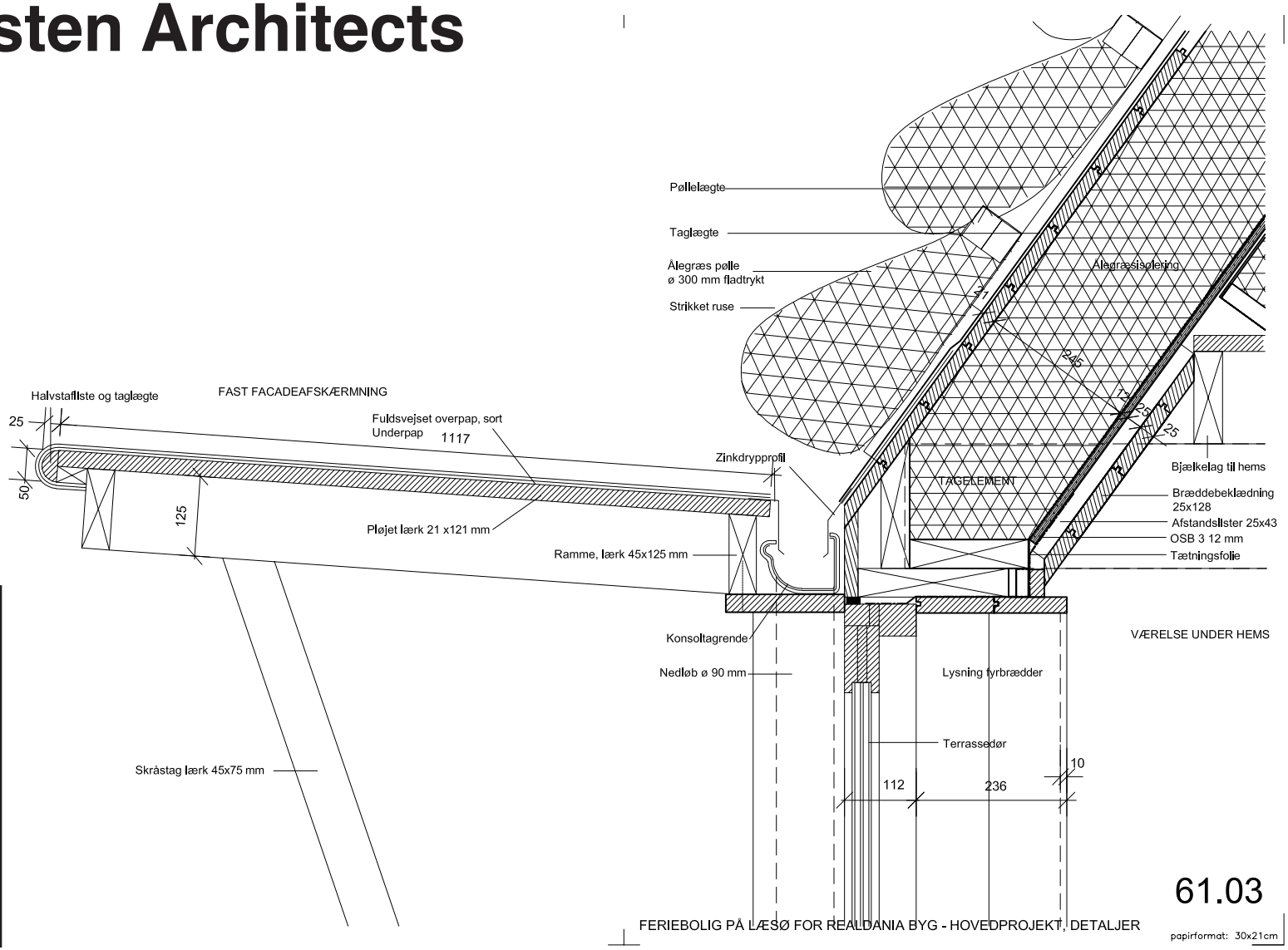

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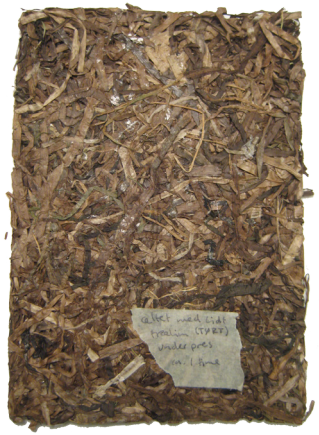
Material investigations



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Insulation panels and acoustic panels
By Søuld

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The Building Material Pyramid

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.

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EELGRASS

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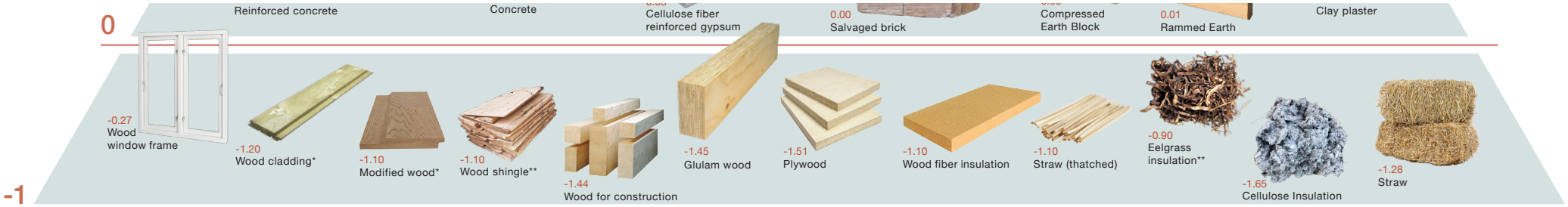
The Building Material Pyramid

BIO-BASED MATERIALS



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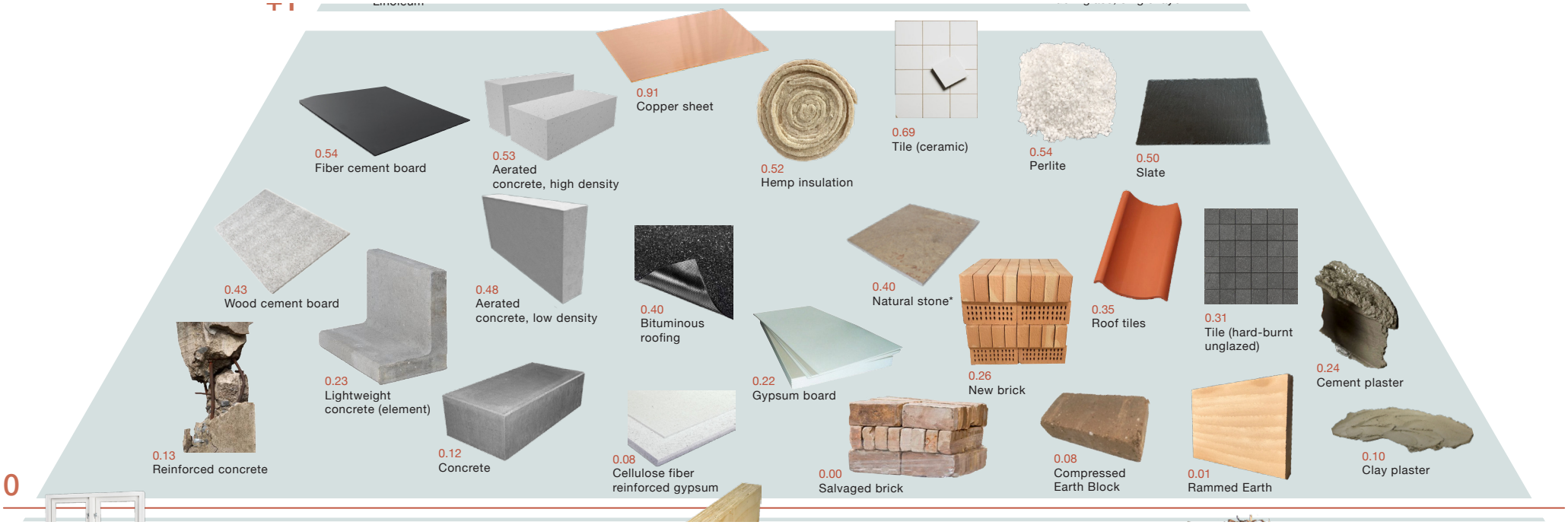
The Building Material Pyramid

INORGANIC, STONE AND BURNT MATERIALS



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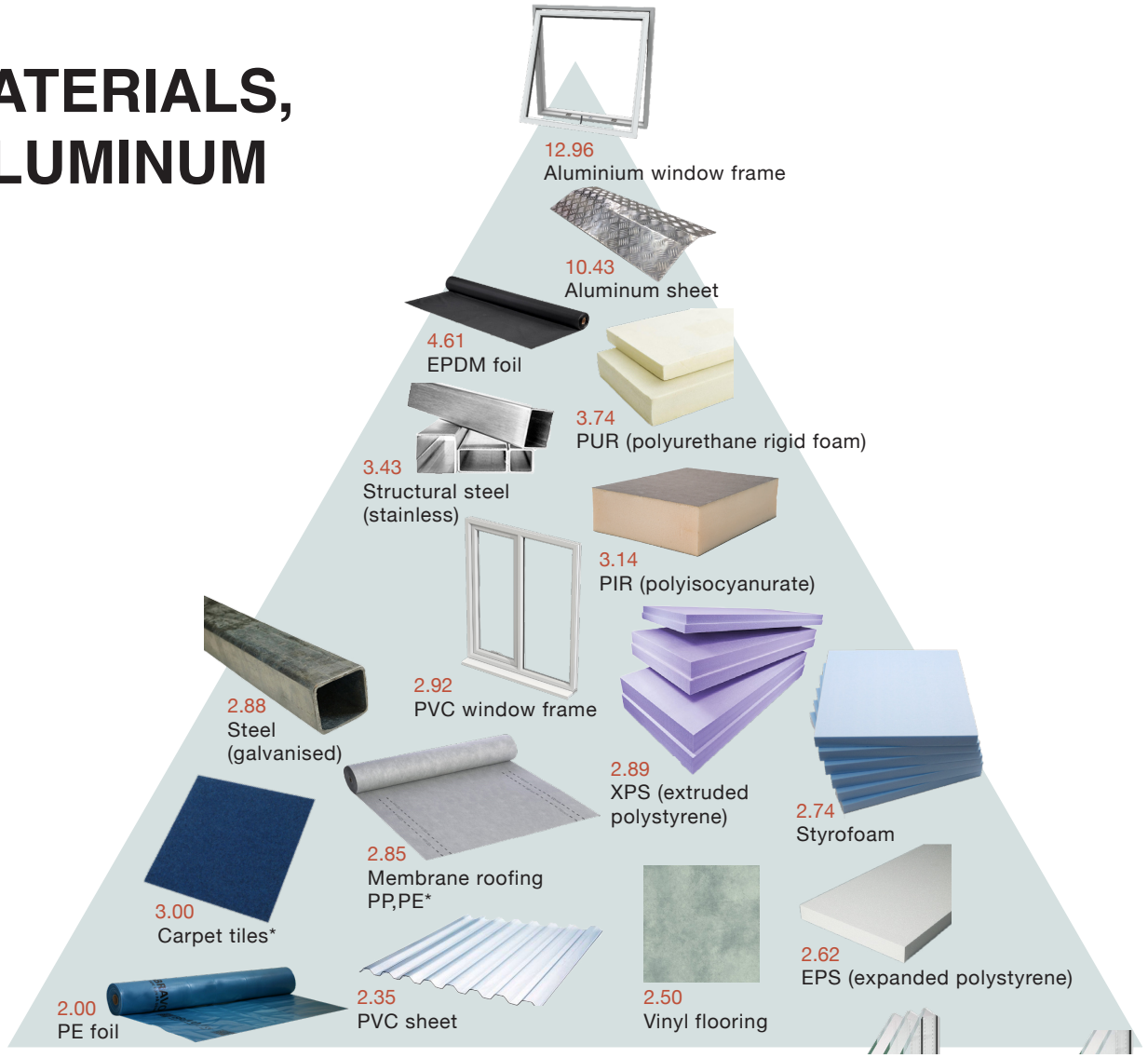
The Building Material Pyramid

GLASS, STEEL, COPPER

The Building Material Pyramid

OIL BASED MATERIALS, STEEL AND ALUMINUM



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CONSIDER QUANTITIES

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CONSIDER QUANTITIES

REFLECT ON LIFESPAN

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CONSIDER QUANTITIES

REFLECT ON LIFESPAN

DETAIL IS ESSENTIAL

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