## **PROJECT** →

## Slotfelt Barn, Denmark



The barn's reconstruction included a new thatched roof.

Praksis Arkitekter with Steffen Søndergaard Møgeltønder, Denmark

## By Hugh Strange

Denmark's Prince Joachim, now to the timbers with thick cotton houses a small cultural centre cord fixed via horizontal batdisplaying local history and host- tens, a construction that accoming temporary exhibitions and modates structural movements musical events.

The distinctive curved roof raft- ing from the strong local winds. The 12m-high Slotfelt Barn ers were reconstructed by bolting Within the space sit three movaof Møgeltønder, in the south- nated structure. These almost equipment. peninsula. Built in the 1870s, the vent future rot, are raised above has been replaced by a 60mmbuilding was used to dry crops floor level, sitting on boulders set thick terrazzo floor, cast in a single

has prompted a total reconstruc-tion. The new building, owned by rugated metal roof and is attached slab was cast up to the perimeter rugated metal roof and is attached low-level brick walls. Insulation, heating pipes were fixed to this before a screed was cast, onto which a mesh sheet was attached. of almost half a metre result-Large pebbles were collected

from the surface of the surrounding fields and cut to form a flat face towers above the surrounding flat marshlands on the outskirts together to form a single lami- that house toilets and projection to the distribution of thin layers of timber ble boxes made of black fibreglass together to form a single lami- that house toilets and projection to the distribution of the distr of mortar. A terrazzo mix incorwest Danish corner of the Jutland reach to the ground and, to prepebbles was then poured, eventually levelling at the height of the but wet rot in the timber structure into the surrounding earth. The 300sq m piece. A concrete floor cut stones. The floor was then ground smooth. Great care was rich finish of a variety that belies taken while placing the stones to the uniform dullness of the uncut ensure their flat top surfaces were field stones as found. level so as to minimise grinding.

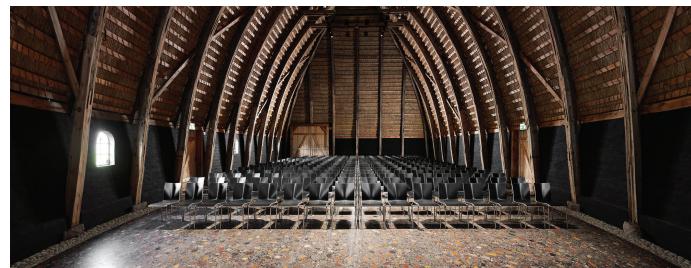
Brass movement strips form a cross, dividing the floor into Architect four equal parts. A border strip, encompassing the bases of the roof timbers, is formed by bedding uncut pebbles in a gravel base. At the main thresholds, large granite

Prince Joachim

Structural engineer blocks have been laid to cross over these edge strips, allowing disa- Services engineer (lighting) bled access into the building.

Finally the floor was treated Terrazzo flooring with linseed oil, bringing out a Peter Bendsen

Praksis Arkitekter with Steffen Søndergaard Keld Abrahamsen Jesper Garde Kongshaug



The terrazzo floor surface was ground smooth before a linseed oil treatment was applied to bring out its rich finish.



A border strip incorporates uncut pebbles bedded in a gravel base.

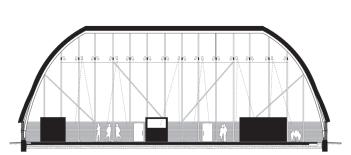




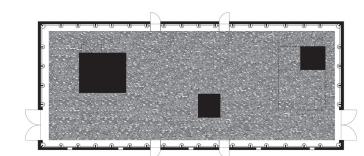
The curved rafters are formed of thin layers of timber bolted together.



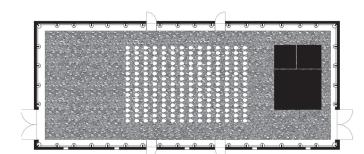
**Short sections** 



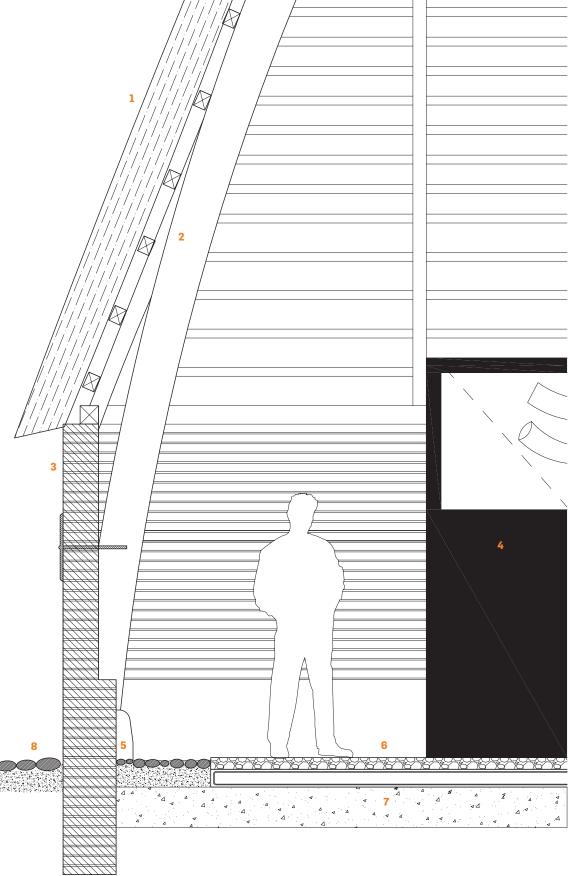
Long section



Floor plan showing three movable elements



Floor plan showing seating configuration



**Detail section** 

1 Thatched roof fixed with thick cotton cord to battens 2 Large curved rafters of bolted-together timber planks bearing on large field-stone footings

3 Single wall brick 4 Black fibreglass movable boxes **5** Large natural field stones 6 Insitu terrazzo flooring

on membrane, oiled finish **7** Concrete foundation with underfloor heating system 8 External path and internal border to terrazzo: small natural field stones embedded in loose gravel