BarChip® Synthetic Reinforcing Fibre

Cattle House Estonia

Product used: Barchip 'Kyodo' 48mm

The Project

In July 2005 construction started on one of Europe's largest cattle houses located near Tartu in Estonia.

At approximately 12,000m^2 of covered concrete floor it is capable of holding 1100 – 1200 head of cattle at one time.

Cattle house under construction

Design

Barchip fibre was used at a dose of 5kg/m^3 to replace steel fibre. Steel fibre had the potential of puncturing cattle feet whereas welded wire mesh would significantly slow construction and increase costs.

Barchip fibre offered the same performance as the steel fibre without the concern of puncture injuries to the cattle with the added benefit of a non rusting reinforcement for long term durability.

The floor was poured at a thickness of 150-200mm in 3 metre wide strips in order to facilitate ease of access and finishing. To control cracking each strip was saw cut at 5 metre intervals.

Placing Barchip reinforced concrete

Cattle House Estonia

Concrete floor prior to finishing

Finish

The floor was finished using a traditional float finish incorporating a unique groove of approximately 20mm in depth across the surface of the floor.

The special grooves were incorporated to control water and waste runoff and minimise the incidence of cattle slippage.

Applying the floors unique finish

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