

TATA STEEL



Colorcoat HPS200 Ultra[®] Superdurable pre-finished steel

Wiikgård farm Wiikgård, Skjeberg, Norway

Client/Building Owner: Amund Kolberg

Architect: Øyvind Nordberg

System manufacturer: Tata Steel Building Systems Nordics

Installer: Øyvind Vatvedt Joinery

Colorcoat[®] product used:
Colorcoat HPS200 Ultra[®]

Colours: Barn Red (RAL 030 30 40) and Black (RAL 9005)

Year: 2012

The building

At Wiikgård farm, close to the border town of Svinesund in South Eastern Norway, poultry farmer Amund Kolberg decided to change his production from chickens to turkeys. The largest building on the farm was originally built in 2006 to house chickens. With the larger poultry naturally requiring more space,

Amund wanted a new extension which would double the length of his existing building to 105 metres, while the width remained the same at 22 metres. This would allow 12,800 turkeys to roam around freely inside.



The challenge

Aesthetic considerations are always important for farm buildings in Scandinavia, even when they assume the dimensions of large factories. In Norway, farms need to blend into the landscape of spruce forests, cliffs and mountains. The buildings at Wiikgård farm are the traditional long, red buildings with black gable roofs and ornamental gables as is the design custom for the area.

"I was very concerned with the appearance of the buildings on my farm," says Amund Kolberg. "The oldest are made of wood, but for the latest one we opted for Colorcoat HPS200 Ultra® pre-finished steel by Tata Steel for the external side which gives the best UV resistance performance. Seen from a distance, it can even look like wood."

"It was reassuring to know that Tata Steel provides up to 40 years' guarantee on the pre-finished steel," continues Mr Kolberg.

The solution

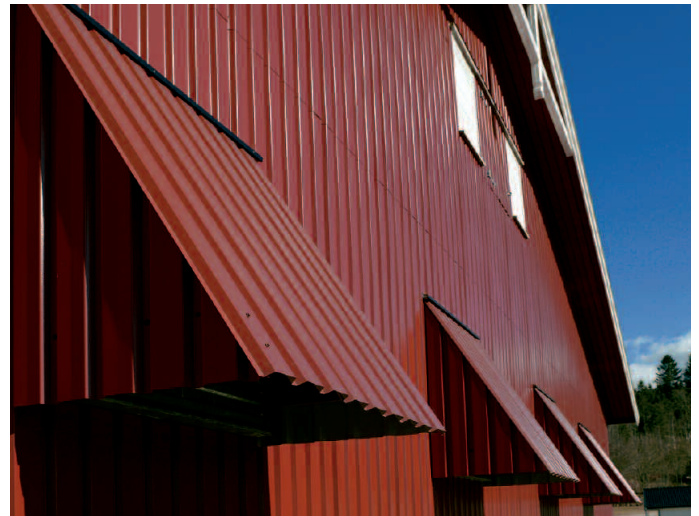
The Confidex® Guarantee was an important reason for choosing Colorcoat HPS 200 Ultra® by Tata Steel pre-finished steel for the external walls and roof. The market leading Confidex® Guarantee from Tata Steel covers the performance of Colorcoat HPS200 Ultra® when used on the weatherside of industrial and commercial buildings for up to 40 years in Zone 1 areas such as Norway. There is no mandatory inspection or maintenance to maintain the validity of the guarantee, which is transferable if the ownership of the building changes.



"There was no doubt, I knew the product, as the cladding for the original half of the barn was also from Tata Steel. The colour palette of Colorcoat HPS200 Ultra® also played a role in the choice of material the cladding systems were manufactured from," says Amund Kolberg.

The architect Øyvind Nordberg let the building owner decide on the colour and assisted with the details. "It's a classic Norwegian farm building with ornamental gables and sash windows, yet with a modern twist," says Øyvind. "On the client's request, the exterior colour of the walls is Barn Red and the roof is Black."

Colorcoat HPS200 Ultra® by Tata Steel uses the unique Galvalloy™ metallic coating, a layer composed of 95% Zinc and 5% Aluminium. Developed by Tata Steel, it provides unparalleled corrosion resistance and cut edge protection – a huge advantage in Norway's harsh climate.



"The gable has four large exhaust ventilators concealed by hoods in the facing sheet. Aesthetically, this helps to break up the large wall surface. At the bottom of the facing sheets we have mounted a custom-made galvanized bracket. This prevents pests from entering and getting into the insulation."

Amund Kolberg is pleased with his new building, which situated prominently next to one of the main motorways in Norway, and hopes that passing motorists will admire the building's details as they drive past.

Wiikgård farm is an uninsulated single skin building, however for insulated buildings or buildings with demanding internal environments it's important to select a product inside that can resist the internal influences. Colorfarm® 15 by Tata Steel has been specially developed to meet the demands of agricultural buildings where excellent chemical and humidity resistance is essential. Recent testing has been undertaken which confirms Colorfarm® 15 achieves CPI5, the best internal classification according to EN 10169:2010. Colorfarm® 15 combined with Colorcoat HPS200 Ultra® externally will provide a robust barrier to protect the building from the harsh elements both inside and out.

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