



Svalbard Science Centre, Longyearbyen, Norway; Architects: Jarmund/Vignsnes.

12.2012

## Nordic Standard – mill finish copper

Nordic Standard is mill finish copper without any additional surface treatments carried out in the factory. It has the traditional 'bright' finish that will develop and change in the environment.

Nordic Standard is available in sheets or coils.

- ▶ Thickness range: 0.3 – 4.0 mm
- ▶ Maximum width: 1100 mm.

It can also be provided in a wide range of different forms and used in various systems.

Apart from Nordic Standard, other Nordic Surfaces from Aurubis include variable intensities of green or blue pre-patination, brown pre-oxidisation, brass, a golden alloy and bespoke finishes. In addition to standard copper sheet, Aurubis explores new Forms of copper architecture with designers, including textured surfaces, composites, profiled sheets and press modelled shapes – while pierced or expanded sheets and mesh provide transparency. Surfaces and forms can be combined and applied to various Systems. They range from traditional fully-supported sheet installation techniques to panels, cassettes and other factory-made systems.

Aurubis' copper products can be used for facades, roofs and other architectural elements of all shapes, as well as other applications such as interiors – particularly Nordic Decor™.



Skellefteå Power Headquarters, Skellefteå, Sweden; Architects: General Architecture Sweden.



Aurubis' products for architectural applications such as facades and roofs use phosphorus deoxidised copper, designated Cu-DHP and complying with EN 1172:1997 – 'Copper and Copper Alloys: Sheet and Strip for Building Purposes'. This pure and natural material exhibits a unique range of characteristics and performance benefits including:

- › Protection by its patina against corrosion in any atmospheric conditions, durable and problem-free with no maintenance.
- › Exceptional, indefinite lifespan demonstrated over hundreds of years, with no underside corrosion issues.
- › Light weight as a cladding material for any building elements, saving on structure and delivering low 'whole of life' costs.
- › Easily formed at any temperature without becoming brittle in cold weather.
- › Low thermal movement and high melting point, avoiding stretching in hot weather.
- › Non-toxic and safe to work with, and impressive antimicrobial qualities ideally suited to touch surfaces inside buildings.

The impressive sustainability and environmental credentials of copper have been clearly demonstrated in the past. Although the copper industry is well-known for recycling, Aurubis' Nordic range is exceptional with 97 % of copper produced for roofing and cladding applications over the last few years coming from recycled material. This material includes internal processing scrap (around 50-60 % of the recycled material). Embodied energy and global warming potential figures are therefore less than half those for copper generally – already significantly lower than stainless steel and aluminium.



Nordic Decor™

Nordic Standard