

ElefantRiste A/S



Supplier of gratings for

Copenhagen Metro



elefant riste
- the original...

Gratings for Copenhagen Metro

Situated in the forecourt at the Copenhagen Metro, are horizontal grilles to facilitate natural ventilation & forced ventilation to the underground below.

Some of these are flush-mounted within a frame at ground level, whilst others are set within a granite podium. The air intake & exhaust areas are set within a roofless glass enclosure.

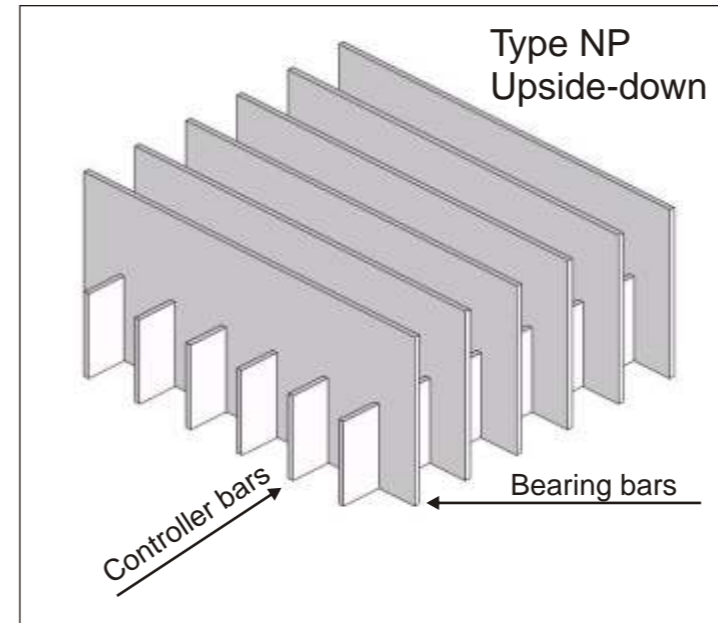
The gratings are designed to achieve harmony with materials and the surrounding elements, as shown in the "glass houses" etc. In order to achieve the desired effect the gratings were installed upside down; this accentuated the linear effect.

The gratings were manufactured to an architectural quality for maximum aesthetic appeal and safety and supplied in both galvanised steel and stainless steel.

The stainless steel material was satin finished prior to fabrication, then chemically cleaned to remove the discolouration caused by the welding process. This finish was utilised elsewhere on site and was critical at the design stage.

A close cooperation between the architect and supplier has resulted in the requirements, as agreed at tender stage, being realised in the final supply.

KHR arkitekter AS



Specification on the gratings for Copenhagen Metro

All the gratings have been constructed as type "NP" with bearing and controller bars. The gratings are installed upside down to achieve a linear effect.

Stainless gratings:

Material: BS EN 1.4404 (316)

All bearing bars are supplied with a (80-120 grit) finish. The gratings have been chemically cleaned after processing. All gratings have been rolled on edges to avoid the sharp edges on the surface of the gratings.

We have delivered two types of gratings in stainless steel:

1. Gratings with 60x3 mm bearing bars and 30x3 mm controller bars
2. Gratings with 70x3 mm bearing bars and 40x3 mm controller bars

Both types with mesh size 58x28 mm

Hot dip galvanised gratings:

Material: S235JRG2 Steel 37-2

The gratings are hot dip galvanised to BS EN 1461:1999. Prevent potential sharp edges on the upside of the bars.

We have delivered two types of gratings in hot dip galvanised steel:

1. Gratings with 120x5 mm bearing bars and 30x3 mm controller bars
2. Gratings with 60x3 mm bearing bars and 40x3 mm controller bars

Both types with mesh size 56x23 mm





An exciting project

Starting from the tender documents, the big task was to find the gratings type, which could fulfil the requirements, in addition to the aesthetic appeal. It was important that the gratings could be handled on site without the use of a crane. Furthermore, there was a task in finding a strong and discreet mounting solution for the gratings. This was achieved through a close cooperation with KHR Architects and ElefantRiste A/S, where the production possibilities were discussed at length and various samples were evaluated.

In all a very exciting challenge, that ended with a good result.

C. Clausens Smede- & Maskinværksted

Elefant® gratings for every purpose...

ElefantRiste A/S develops, manufacture and market gratings in steel, aluminium and stainless steel for a wide range of purposes in the construction industry.

With more than 25 years of experience in manufacturing gratings, we often liaise with architects to advise the possibilities of our products, materials, mesh sizes and surface treatments etc.

The objective is to find the best solution in both design and quality through a close cooperation with architect and client.

Over the last several years, the elephant® name has become synonymous with quality service and supply. And as we continue to develop, more applications are being considered by new architects and consulting engineers. Please see our project gallery on www.elefantgratings.com. Request our inspiration catalogue/CD-Rom or contact us for further information on our products to discuss a specific requirement.

ElefantRiste A/S



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