

### Ventilation towers in glass and stainless steel

In 1992 an architectural competition was held to design ventilation structures for air inlet and extraction on Stockholm's system of ringroads – which run mostly through tunnels. The winners were Tengbom arkitekt of Stockholm. Key requirements in the brief were a high quality of design and technology. Thanks to Tengbom's unusual design and the materials used – stainless steel and glass – the resulting structure achieves a functional clarity and conveys an impression of safety, precision and high technology.

The lower part of the ventilation towers consists of a spatial load-bearing structure of eight 14-metre high columns, linked to each other via curved hollow sections. Rising above this is a space frame of slim columns braced by stainless steel cables. The resistance of stainless steel to exhaust gases, corrosion and weathering, plus its trouble-free cleaning, make it an ideal material for this kind of application – in combination with glass.

*The design of the ventilation towers, and the combination of materials used, reflects the high technological standards of Stockholm's ringroad project.*



Client: Swedish Roads Authority, Stockholm Region, Sweden  
Architects: Tengbom arkitekt, Stockholm, Sweden  
Photos: Tengbom arkitekt, Stockholm, Sweden



*The primary and secondary structures and fixings – all in stainless steel – were prefabricated and delivered to the site for assembly.*