The 62 metre-long Apaté bridge over the Sickla canal provides access for pedestrians and cyclists to a new residential area in Stockholm, Sweden. As the nearby sea causes considerable risk of corrosive attack to the structure, an austenitic-ferritic (duplex) stainless steel was selected. This material has exceptional strength and corrosion resistance. Stainless steel also greatly contributes to the bridge’s sophisticated look.

### Location/Environment
- **The Sickla canal in Stockholm, Sweden – outdoor (near the sea)**

### Product
- **Hot rolled plate**

### Fabrication Process
- **Bending, welding**

### Grade
- **SAF 2205 (22Cr-5.5Ni-3Mo-N-Low C)**

### Competing Material
- **Carbon steel**

### Date of Completion
- **2002**

### Manufacturing Company
- **Architects: Erik Andersson Arkitektbyrå, Stockholm, Sweden**
- **Structural engineering: Skandiakonsult AB, Luleå**
- **Steel Contractor: Stålmonteringar AB Stålab, Trollhättan, Sweden**

### Material Supplier
- **Outokumpu Stainless AB (Hot Rolled Plate and PSC Nordic, Degerfors, Sweden)**

### Source of Information
- **Outokumpu Oyj**

### Remarks
- In 2003, the bridge won the European Steel Design Award and the Swedish Steel Design Award.
- Photo: Åke E-son Lindman