PEDESTRIAN BRIDGE FOR STOCKHOLM

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)
SURFACE	
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