

### 3 Stainless Steel Lining Jacket

<b>Name of member</b>	Nippon Steel & Sumikin Stainless Steel Corporation/Nippon Yakin Kogyo Co., Ltd.
<b>Manufacturer</b>	Nippon Steel Engineering Co., Ltd and Joint Ventures
<b>Field</b>	Architecture, Building and Construction
<b>Location</b>	Tokyo, Japan
<b>Environment</b>	Outdoor
<b>Grade/surface</b>	NSSC270 (SUS312L, ASTM S31254)/ NAS185N (SUS312L, ASTM S31254), NAS354N (ASTM N08354)
<b>Quantity</b>	500 metric tons

D Runway of Tokyo International Airport, constructed as a part of the re-expansion work of the airport, was Japan's major social capital and required durability of 100 years and proper maintenance. Concerning the method to avoid corrosion for steel structure components of the pier, there were some considerations: organic anti-corrosive coating have a re-coating cost problem due to its insufficient durability, and titanium clad also have an initial excessive cost problem.

As a solution, the film lining construction method with seawater-proof stainless steel was adopted, as it was considered to be much more superior in terms of durability and LCC(Life Cycle Cost). This was the first large-scale application of the method to the airport facilities and the lining materials chosen for their high corrosion resistance against seawater were "NSSC 270 (SUS312L)", "NAS185N (SUS312L)", and "NAS354N (ASTM N08354)". This was a case that showed its potential in a new market.

SUS312L:20Cr-18Ni-6Mo-0.2N-LC = EN1.4547

