

Title (en)
Steel corrosion protected members.

Title (de)
Korrosionsgeschützte Stahlstäbe.

Title (fr)
Barres d'acier protégées contre la corrosion.

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Application
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Abstract (en)
A steel corrosion-protected member such as a reinforcing bar, a rock anchor, tie bar or prestressing tendon comprises a core of carbon or alloy steel with a cladding of stainless steel or copper. A number of methods of applying the cladding are described including inserting a mild steel rod or bar into a stainless steel tube and hot rolling the rod and tube together to reduce diameter and apply the usual rib pattern. Alternatively a composite billet may be extruded and then rolled down to size. The resulting reinforcing bar shows a carbon steel core (100) to which is welded by pressure a stainless steel cladding (101) with ribs (107). A rock anchor is also described which has a core of carbon or alloy steel clad with stainless steel and includes a threaded end formed on the stainless steel.

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Citation (search report)
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