

ABSTRACT

**QUALITY MANAGEMENT OF THE HIGH — QUALITY BENT STRUCTURES  
MADE IN THE SHEET — ROLLING SHOP № 7 IN THE OPEN JOINT  
STOCK COMPANY «MAGNITOGORSK IRON & STEEL WORKS»**

O.V. Ionova, N.G. Shemshurova  
e-mail: ionova.olga@mail.ru

Magnitogorsk State Technical University after G.I. Nosov, Magnitogorsk, Russia

The reasons of cracks formation on the external surface of the bending areas in the process of bending profiles production have been defined in the work. The ways of cracks prevention are also presented in the article.

In the work is offered the technique of an estimation of quality of the bent channel of 180x80x6,0 mm.

In this technique the parameters of mechanical properties are included durabilities and cold resistance.

**Keywords:** cracks formation, technique, cold resistance, durabilities, plastic deformation, degree of deformation, bent channel.

**Pages** — 4, **figures** — 1.