



Roll-Forming Residual Stress

Learn how our Material Support & Solutions team solved this customer material issue.



THE PROBLEM

A customer reported chronic problems controlling the camber in long, roll-formed channels made from hot-dipped galvanized steel. The cambering created parts that were dimensionally unusable.



THE ANALYSIS

Worthington metallurgists came on-site to watch the material roll form and observed the same issue. They also secured samples for testing and analysis to ensure the material was meeting specifications.



THE SOLUTION

Upon analysis, the material met all specifications, but the metallurgists concluded that the camber was due to high residual stresses caused by improper temper rolling. Processing changes ensured appropriate temper rolling, which removed the residual stress that caused the cambering.

— THE ACTION

If routine line or press adjustments cannot adequately solve your camber problem, contact the Materials Support & Solution team at Worthington.