

# Industrial



**Gerdau Ameristeel - Melt Shop Reheat Furnace Building**  
Jacksonville, Florida

*Manufacturing  
Facilities*

*Metal Products*

This new Melt Shop and electric Arc Furnace was the key part of Gerdau Ameristeel's Capacity Modernization Project. The project had to be designed and constructed adjacent to the existing melt shop with out causing any loss of production in the existing shop. The project consisted of just over 1,200 tons of structural steel, 200 tons of light gage cold rolled purlins, and girts, bar joist, and was clad with Standing Seam Roof System and long span metal wall panels. The structure supported cranes ranging in capacity form 20 tons to 185 tons on runways located as high as 60 ft. above the ground level with Crane girders being wide flange members up to W36 x 359 and then built-up plate girders for all of the long spans. Cranes were designed per AISE Tech report 13, complete with back-up trusses and crane maintenance walkways.



**Contractor:** *Qualico Steel Company, Inc.*

**CWE Design Offices:**

**Nashville  
Knoxville**