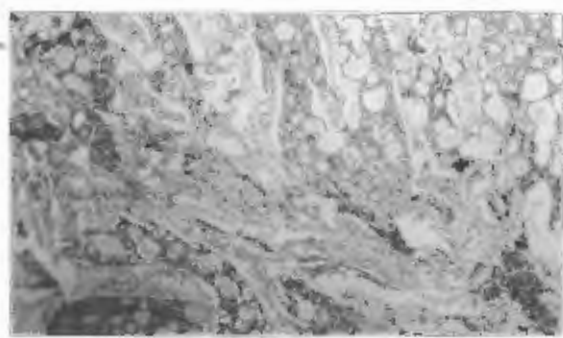


# Assessing the carbon footprint of a steel beam - A case study

Case Study 8: Carbon Footprint of a Steel Beam - A Case Study  
Department of Civil and Environmental Engineering  
University of California, Berkeley, California, USA

The carbon footprint of a steel beam is a measure of the total greenhouse gas emissions associated with the production, transportation, and use of the beam. This case study examines the carbon footprint of a steel beam used in a building project. The beam is made of A36 steel and is used in a building with a steel frame. The carbon footprint of the beam is calculated using the following steps:



The carbon footprint of the beam is calculated using the following steps:

1. Determine the weight of the beam.
2. Determine the carbon footprint of the steel used in the beam.
3. Determine the carbon footprint of the transportation of the beam.
4. Determine the carbon footprint of the use of the beam.