



American Galvanizers Association

Galvanize It! Seminar Program Outline



1-Hour Sustainable Development & Hot-Dip Galvanizing Seminar

- I. **Introduction and Learning Objectives**
- II. **What is Sustainable Development?**
 - a. Sustainable Development
 - b. LEED
 - c. LCI
 - d. LCA
- III. **What is zinc?**
 - a. Natural
 - b. Essential
 - c. Common
- IV. **Zinc in Construction**
- V. **The Study: LCI and LCA of Hot-Dip Galvanized Steel**
 - a. Study Group
 - b. Defining the Criteria
 - c. LCI
 - d. LCA Overview
- VI. **LCA Production Phase**
 - a. Steel
 - b. Zinc
 - c. Galvanizing Process
- VII. **LCA Use**
 - a. How galvanizing works
 - b. HDG vs. Paint in LCA Use Phase
- VIII. **LCA End-of-Life Phase**
 - a. End-of-life recycling
 - b. Energy credit
- IX. **LCA Complete**
 - a. Full galvanized steel LCA results
 - b. Galvanizing vs. paint overview
- X. **Galvanizing vs. Paint in LCA: Case Studies**
 - a. Balcony structures
 - b. Parking garage
- XI. **Hot-Dip Galvanizing Costs Less, Lasts Longer**
 - a. Initial cost
 - b. Life-cycle cost (LCC)
- XII. **Summary: Merge LCA & LCC to Measure Sustainability**