

- I. Introduction and Learning Objectives**
- II. Structural Steel: Reliable, Resilient, and Recyclable**
 - a. Conquering Corrosion
 - b. Zinc: The Healthy Metal
- III. Hot-Dip Galvanizing & Other Zinc Coatings**
 - a. Differentiating Zinc Coatings
 - i. Structural
 - ii. Sheet/Small Parts
 - iii. Thickness & Density
 - b. Hot-Dip Galvanizing Process
- IV. Why Specifiers Use Hot-Dip Galvanizing**
 - a. Long Lasting Corrosion Protection
 - b. Durability
 - c. Longevity
 - d. Availability & Versatility
 - e. Aesthetics
- V. Understanding Hot- Dip Galvanized Steel's Sustainability**
 - a. Environmental Advantages
 - b. Economic Advantages
- VI. Design & Specification**
- VII. Summary**

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- I. HDG Specifications**
 - a. ASTM & Other Standards
 - b. Pre- and Post-Galv Supporting Specs
- II. Design & Fabrication**
 - a. Steel Chemistry & Surface Condition
 - b. Size & Shape
 - c. Process Temperature/Heat
 - d. Venting & Drainage
 - e. Welding
 - f. Threaded Parts/Connections
 - g. Post Galvanizing Design/Use
 - h. Architecturally Exposed Structural Steel (AESS)
- III. Inspection, Touch-Up & Repair, and Storage**
 - a. Coating Thickness, Finish, & Appearance
 - b. Appearance & Weathering
 - c. Touch-Up & Repair
 - d. Proper Storage & Handling
- IV. Duplex Systems**
 - a. Why Duplex
 - b. Proper Preparation
 - c. Roles & Responsibilities
- V. Summary**