

ABSTRACT

HOT-DIP Al-Zn-Si-Mg COATED STEEL SHEET, SURFACE-TREATED
STEEL SHEET, AND PRE-PAINTED STEEL SHEET

To provide a hot-dip Al-Zn-Si-Mg coated steel sheet that stably
exhibits excellent corrosion resistance. Disclosed is a hot-dip Al-Zn-Si-Mg
5 coated steel sheet including a coating layer, in which the coating layer has a
composition containing Al: 45 mass% to 65 mass%, Si: 1.0 mass % to 4.0
mass%, and Mg: 1.0 mass% to 10.0 mass%, with the balance being Zn and
inevitable impurities, and diffraction intensities of Si and Mg₂Si in the coating
layer as measured by an X-ray diffraction method satisfy the following relation
10 (1):
$$\text{Si}(111)/\text{Mg}_2\text{Si}(111) \leq 0.8 \quad (1).$$

No Suitable Figure