

ABSTRACT

HOT-DIP Al-Zn-Mg-Si COATED STEEL SHEET AND METHOD OF PRODUCING SAME

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Provided is a hot-dip Al-Zn-Mg-Si coated steel sheet having good corrosion resistance in flat parts and edge parts, and also having excellent worked part corrosion resistance. The hot-dip Al-Zn-Mg-Si coated steel sheet includes a base steel sheet and a hot-dip coating on a surface of the base steel
10 sheet. The hot-dip coating includes an interfacial alloy layer present at an interface with the base steel sheet and a main layer present on the interfacial alloy layer, and contains from 25 mass% to 80 mass% of Al, from greater than 0.6 mass% to 15 mass% of Si, and from greater than 0.1 mass% to 25 mass% of Mg. The Mg content and Si content in the hot-dip coating satisfy formula
15 (1):

$$M_{\text{Mg}}/(M_{\text{Si}} - 0.6) > 1.7 \quad (1)$$

where M_{Mg} represents the Mg content (mass%) and M_{Si} represents the Si content (mass%).

20 (FIG. 1)