

Abstract

ARC WELDING METHOD FOR HOT-DIP GALVANIZED STEEL
PLATE HAVING EXCELLENT APPEARANCE OF WELDED PART
5 AND HIGH WELDING STRENGTH, METHOD FOR
MANUFACTURING WELDING MEMBER, AND WELDING
MEMBER

Hot dip Zn-based alloy coated steel sheets (1, 1') are
10 arc-weld in such a way that (a) a current waveform is a pulsed
current waveform in which (i) a peak current and a base
current alternate with each other at a pulse period of 1 ms to
50 ms and (ii) an average welding current is 100 A to 350 A
and (b) an average welding voltage is 20 V to 35 V. Each of the
15 hot dip Zn-based alloy coated steel sheets (1, 1') includes a
coating layer that contains Zn as a main component and that
contains Al at a concentration of 1.0% by mass to 22.0% by
mass, and has a coating weight W of 15 g/m² to 250 g/m².

20 FIG. 4