



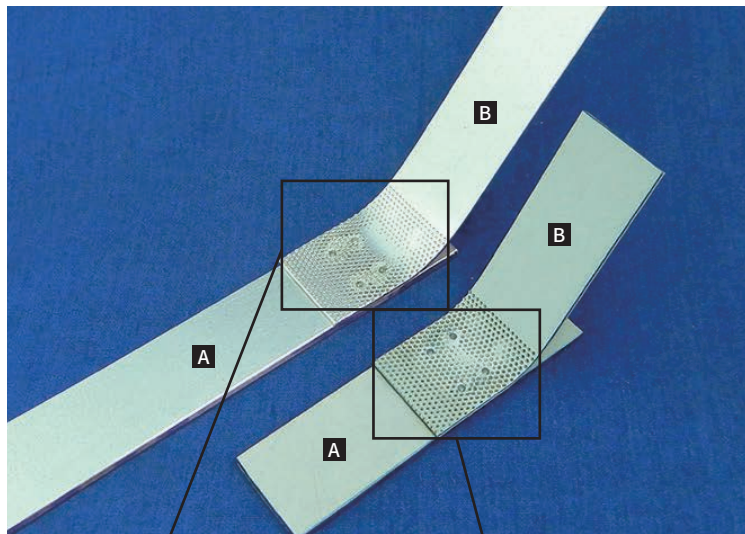
Patented

Application

Bonding

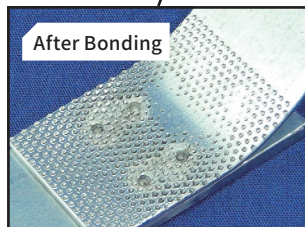
Zinc-Plated Steel Plates

Energy Concentration Bonding (ECB) of Similar Metals

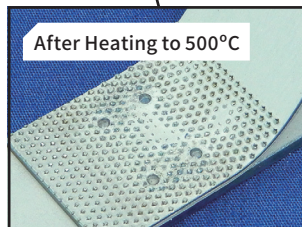


A SGCC (t=2.3 mm)

B SGCC (t=1.2 mm)



After Bonding



After Heating to 500°C

First successful direct SoundBonding of zinc-plated steel sheets.
Right sample heated to 500°C after bonding.

Key Points

- ✓ Clean metal-to-metal bonding
- ✓ No adhesives required
- ✓ Bonding at room-temperature and under atmospheric conditions
- ✓ Ingot/Alloy Bonding
- ✓ Process time approx. 1~3 s
- ✓ Minimal anvil and tool heating

System Used

- ✓ 15MZs



AP-E-0075A4-2026070601