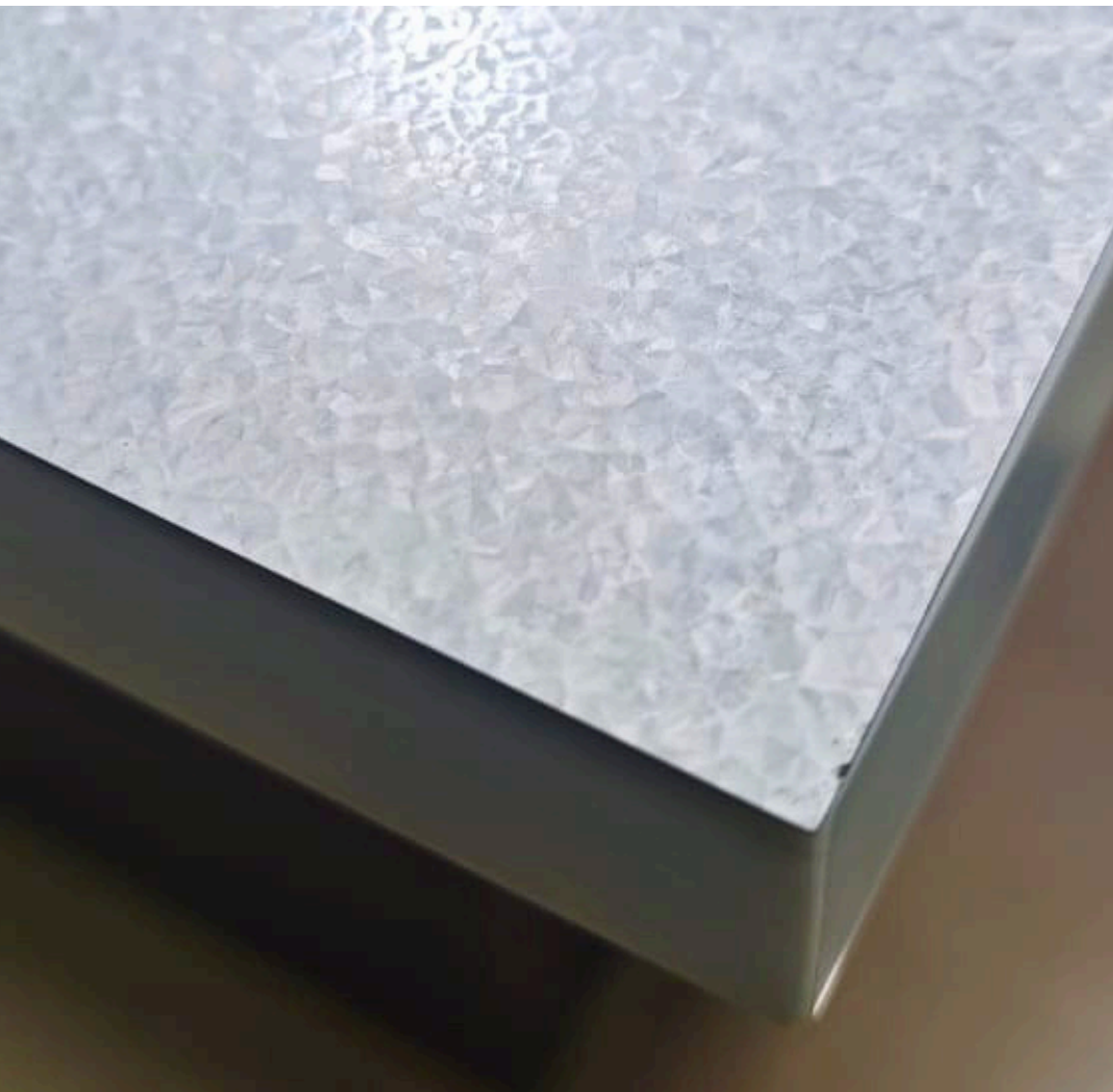


ADVANCED ALUMINUM- ZINC COATED STEEL

High Corrosion Resistance Steel



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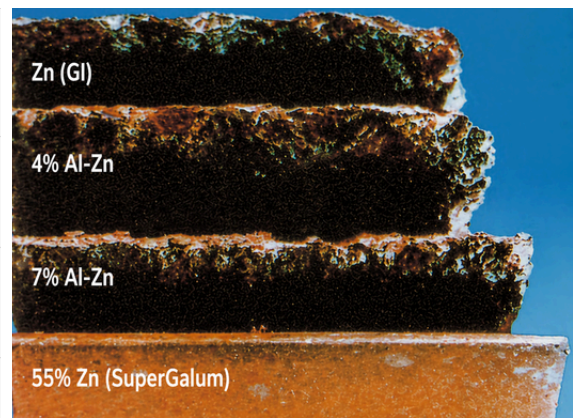
ADVANCED ALUMINUM-ZINC COATED STEEL

Advanced Aluminum-Zinc Coated Steel is a premium 55% aluminum-zinc coated steel sheet engineered for superior performance. By combining the strengths of aluminum and zinc, it delivers exceptional corrosion resistance, heat reflectivity, durability, and formability. With 3 to 6 times higher corrosion resistance than conventional galvanized steel, It ensures long-lasting performance. Backed by a 20-year warranty for residential applications, it has been manufactured under global standards since 1998.



COATING COMPOSITION

Element	Weight Ratio (%)	Capacity Ratio (%)
Aluminum	55	80
Zinc	43.4	19
Silicon	1.6	1



17-Year Exposure Test Results

DURABILITY

Advanced Aluminum-Zinc Coated Steel has three to six times superior corrosion resistance compared to zinc coated (galvanized) steel sheet of the same coating thickness. Sheared or cut spot of Advanced Aluminum-Zinc Coated Steel has better corrosion and stretch resistance compared to aluminum coated steel sheet.

HEAT REFLECTIVITY

Advanced Aluminum-Zinc Coated Steel sheet boasts superior heat reflectivity, which produces increased energy efficiency, making it an excellent material for the interior of electronic home appliances. Used as a roofing material, Advanced Aluminum-Zinc Coated Steel inhibits the rise of temperature in buildings, thereby lowering the cost of air conditioning. Food storage buildings covered with Advanced Aluminum-Zinc Coated Steel also enjoy the additional benefit of stored grains protected from quality changes.

COMPARISON OF HEAT REFLECTIVITY BY PRODUCT

Product	Heat Reflectivity Ratio (%)
Advanced Aluminum-Zinc Coated Steel Sheet	70-75
Galvanized Steel Sheet	30-40
Prepainted Steel Sheet (Silver)	50-60
Prepainted Steel Sheet (Gray)	45-50
Prepainted Steel Sheet (Blue)	10-15
Prepainted Steel Sheet (Brown)	10-15
Tile, Slate	10-20

COMPARISON OF HEAT TRANSFER BY PRODUCT

Product	Heat Transfer (W/m ²)
ALCOT Steel (Type 2, 300g/m ²)	40
Advanced Aluminum-Zinc Coated	65
Galvanized Steel (275g/m ²)	120
Asbestos Cement	150
Clay Tile	150

PAINTABILITY

Advanced Aluminum-Zinc Coated Steel has better adhesiveness of paints to its coated layer compared to galvanized steel sheet. Advanced Aluminum-Zinc Coated Steel used for general purposes does not require any pre-treatment before painting.

WORKABILITY

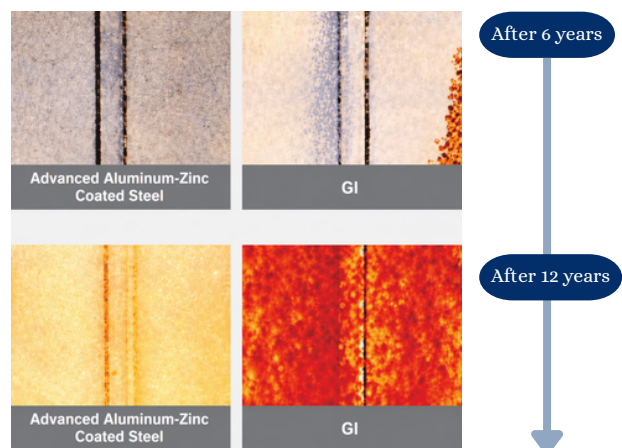
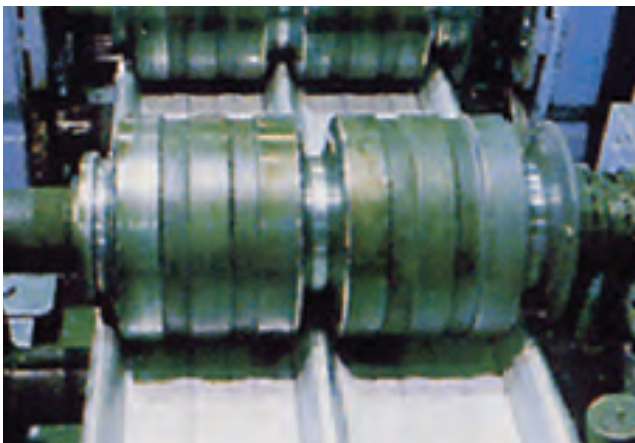
The workability of Advanced Aluminum-Zinc Coated Steel is similar to that of galvanized steel sheet. Its ability to suppress fine cracks on the coating layer enhances the durability of the processed area.

Superior Roll Forming Property

Advanced Aluminum-Zinc Coated Steel offers excellent performance during roll forming, ensuring smooth shaping and consistent quality without surface damage.

Treatment Area: Excellent Durability

Test results from exposure in coastal areas show that Advanced Aluminum-Zinc Coated Steel maintains superior corrosion resistance compared to GI, even after long-term exposure (6 to 12 years).



TYPE

Designation Type	JIS (GI)	JIS (SGL)	ASTM	EN
Commercial Quality	SGCC	SGLCC	CS	DX51D, DX52D
Lock Forming Quality	SGCD1	—	FS	DX53D
Drawing Quality	SGCD2	SGLCD	DDS	DX54D
	SGCD3	SGLCD	EDDS	DX56D, DX57D
Structural Quality	SGC340	Grade 230	S220GD	—
	SGC400	SGLC400	Grade 255	S280GD
	SGC440	SGLC440	Grade 275	S320GD
	SGC490	SGLC490	Grade 340	S350GD
	SGC570	SGLC570	Grade 550	S550GD

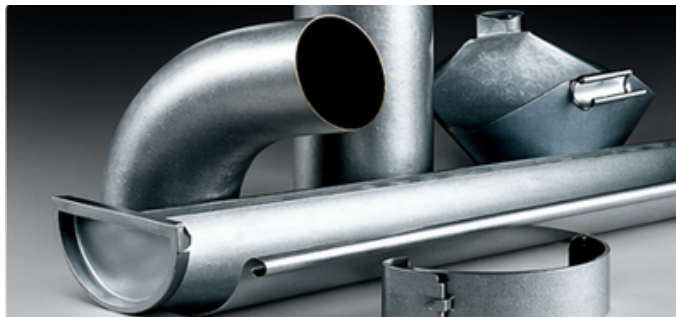
SIZE

- Thickness: 0.25 – 3.0 mm
- Width: Up to 1600 mm
- Coating: AZ70 to AZ220

CORROSION RESISTANCE

Corrosion resistance of Advanced Aluminum-Zinc Coated Steel is 3 times higher than 550 GSM Hot-Dip Galvanized Steel.

Advanced Aluminum-Zinc Coated Steel provides long-term protection in harsh environments, making it ideal for industrial, coastal, and outdoor applications.





JK Steel Strips LLP

GET IN TOUCH



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