

[Abstract]

A surface-treated metal sheet includes a steel sheet, a coating layer containing zinc formed on the steel sheet and a conversion coating formed on the coating layer, wherein the conversion coating contains an organosilicon compound, a phosphate
5 compound and a fluorine compound, and when the surface roughness in a rectangular area with a side of 1 μm on the surface of the conversion coating is represented by an arithmetic mean height of the scale limited surface S_a , a maximum height of the scale limited surface S_z , and a root mean square height of the scale limited surface S_q , one or
10 more conditions of an arithmetic mean height of the scale limited surface S_a being 0.1 to 10 nm, a maximum height of the scale limited surface S_z being 1 to 1,000 nm, and a root mean square height of the scale limited surface S_q being 0.1 to 100 nm are satisfied.

FIG. 1