Overview

Tactile Zinc™ is comprised of cast, hot-rolled and cold-rolled plate and sheet material in various thicknesses, girths, and lengths depending on the project application.

Composition

Tactile Zinc™ consists of Special High Grade Zinc (SHG Z13004) 99.995% pure zinc with a small amount of copper 0.7 to 0.9% by weight that increases hardness, ASTM B69-16. This alloy formulation allows for formability, enhanced ductility, and good strength.

Mechanical Properties

Coefficient of Thermal Expansion
Lineal Direction of rolled material 13.8 - 6 in./degrees Fahrenheit

Ultimate Tensile Strength
22 to 29 ksi

Hardness (Rockwell 15T)
59 to 69

Percentage Elongation (in 2”)
33-70

Visual Characteristics

Surface Textures:	Directional as a result of production process or non-directional post production.
Natural Color:	Bright, with blue/silver tonality
Oxidized Color:	Dull, with blue/gray tonality
Weathered:	Variable depending on exposure, dull with dark gray/medium gray/blue
Patina:	Range of patinas (see Textures | Patterns | Colors .pdf) must have a clear coating applied to maintain the color. Over time as the clear coating degrades, the underlying patina will degrade and the zinc will turn to a dark gray to medium gray/blue depending on exposure to the elements.

Fabrication

Processes:	Shear, milling, laser-cutting, brake forming and drilling. Temperature during fabrication shall be above 55 degrees Fahrenheit.
Welding:	Welding will be limited to concealed stud welding.
Assembly Components:	Stainless steel and/or polymer-coated fasteners, stainless steel anchor clips and VHB (Very High Bond) tape at selected locations. Aluminum extrusions with alodined or anodized finish may be utilized.