

### **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.