

## 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. |