ALUMAX
BATH ENCLOSURES

Mirror Mold Specifications

A. MATERIALS AND CONSTRUCTION

1. Alloy and Temper: Extruded aluminum shall be 6463-T6 alloy per ASTM B 221. This alloy is designed to accept a bright finish after anodizing. Used for decorative trim applications, machineable, polished, and anodized - also heat treatable.

MECHANICAL PROPERTIES OF 6463-T6 (b)					
Thickness in inches	Tensile Strength - ksi				Elongation percent
(b)	Ultimate		Yield		min. in 2 in.
	min.	max.	min.	max.	or 4D
Up thru 0.124	30	..	25.0	..	8
0.125 - 1.000	30	..	25.0	..	10

a. Hardness of 6463-T6 on Rockwell B scale: 20-50.

b. T6 temper designates a material that is thermally treated to produce stable tempers then solution heat treated and artificially aged. For complete temper designation consult technical publications ANSI 35.1 or the Aluminum Association publication, Aluminum Standards and Data.

c. The thickness of the cross-section from which the tension test specimen is taken determines the applicable mechanical properties. The data base and criteria upon which these mechanical property limits are established are outlined in the Aluminum Association publication Aluminum Standards and Data (ASD) Section 6, "Mechanical Properties".

2. Metal Gauge: The nominal wall thickness of individual aluminum extruded components for this unit varies with structural needs.

Component	Description	Nominal Wall Thickness
SC-500	J Mold	.050"
SC-501	J Mold	.050"
SC-502	Angle	.060”
SC-503	Division Mold	.050”

3. Component Size		
Component	**Width**	**Height**
SC-500	.450”	1.188”
SC-501	.450”	.937"
SC-502	.310”	.625”
SC-503	.450”	1.125”

4. Tolerances: Tolerances on all aluminum extruded components shall comply with Aluminum Association requirements unless otherwise specified.

5. Finish Specifications (Anodized): The finish on anodized aluminum components shall conform to the following Aluminum Association Specifications:

   a. Silver: AA-M21-C31-A21 for buffed, clear, bright anodized aluminum.

   b. Gold: AA-M21-C31-A23 for buffed, colored, bright anodized aluminum.

   c. Brushed Nickel: AA-M35-C31-A23 for brushed, colored, bright anodized aluminum.

   Anodized aluminum components are tested or inspected for thickness of anodic coating (.00015" min.\.00030" max.), color range variation, and integrity of the anodic seal.

   NOTE: The finished surface of anodized aluminum parts can be damaged by harsh cleansers. In particular, glass cleaners or other cleaning products with a PH of less than 7 or more than 9 can damage the anodized finish with prolonged exposure.