



StikStall™ Specifications

A. UNIT FEATURES

1. Pivot jambs to have a continuous vinyl seal.
2. Handle hardware: See individual unit specifications, i.e. 338/390, 738, 790, 1038, 1090, etc.
3. All doors (except Intre-Hinge configurations) to have continuous drip rail and vinyl wiper blade at bottom of door panel. Drip rail will be sloped to drain water to the interior of the door when opened. Installation of the drip rail is by double-sided foam tape. Mechanical fasteners are permitted. Intre-Hinge configurations to have continuous water deflector and vinyl wiper blade at bottom of door panel.
4. Vinyl drip wiper is fully adjustable for precise fit to curb (except Intre-Hinge configurations).
5. Top pivot pin (pivot doors only) to have safety washer to prevent accidental dislodging of the door.
6. Latch to be permanently mounted magnetic strips (390, 790). 1090 units shall have a full length vinyl latch and strike seal.
7. All units to have continuous curb with weep slots to drain any infiltrated water to the interior of the unit.
8. Fixed glass panels to be flush-glazed and held in place with push-in vinyl seals.
9. Optional towel bar kits available (790, 1090).
10. Detailed instruction sheets and cross sections with custom unit fabrication formulas.
11. 24 hour product information and support via the **Alumax Bath Enclosures Website** (www.alumaxshowerdoor.com).

B. UNIT VALIDITY

1. Wet test: All joints, seams, and seals are tested and evaluated for leaks in a wet test module.
2. Mechanical test: Moving parts or components subject to wear are cycle tested to simulate 20 years of use.
3. Artificial aging: Plastic components are selectively tested by artificial aging. This process subjects the parts to ultraviolet light, heat, and humidity to test the resistance of the material to these conditions.

4. Quality is assured by various in house verification procedures.

C. MATERIALS AND CONSTRUCTION

1. Size Limitations:

091 StikStall – Max. width of unit = 72”, max. height = 84”

092 StikStall – Max. width of unit = 38” x 38”, max. height = 84”

093 StikStall – Max. width of unit = 48” x 48”, max. height = 84”

094 StikStall – Max. width of unit = 36” x 36” x 36”, max height = 84”

095 StikStall – Max. width of unit = 72”, max. height = 84”

390 Door Panel – Max. width = 30”

790 Door Panel – Max width = 36”

1090 Door Panel – Max width = 34”

Note: StikStall units in excess of 48” in width may require extra components to reinforce the header to prevent excessive deflection. See individual unit specifications (338/390, 738, 790, 1038, 1090, etc.) for further information on size limitations.

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

Component	Description	Nominal Wall Thickness
SC-505	Header	.062" - .094"
SC-505A	Curb	.062" - .094"
SC-508	Wall Jamb	.062"
SC-552	Pivot and Strike Jambs	.062"
SC-513	90° Post	.062"
SC-512	135° Post	.062"
SC-511	180° Door & Buttress Post	.062"
SC-506	790 Curb Fill	.062" - .093"
SC-507	390 Curb Fill	.062" - .093"
SC-610	1090 Curb Fill	.062" - .093"
SC-544	180° Heavy Door Post	.062" - .109" - .125"
SC-517	Adjustable Post (male)	.062"
SC-518	Adjustable Post (female)	.062"
SC-515	90° Buttress Return Post	.062"
SC-516	Butress Curb	.050" - .062"
SC-553	½" Wall Fill	.050"
SC-543	¾" Curb Fill	.062"
SC-590	1" Snap-in Filler	.062"
SC-574	2-pc Header (base)	.062" - .094"
SC-575	2-pc Header (face)	.062"
	Anchor Plates	.110"
SC-637	Inline Adapter	.055"
SC-635	90° Euro Post	.062"
SC-636	135° Euro Post	.062"
SC-645	135° Snap Adapter Post	.062"
Stall & Enclosure Posts		
SC-878	90° Post	.062"
SC-879	180° Post	.062"
SC-615	90° Deluxe Post	.075"
SC-616	180° Deluxe Post	.078"
Miscellaneous		
SC-839	1" x 1" Tube	.062"
SC-840	1" x 1 ½" Tube	.062"

4. Tolerances: Tolerances on all aluminum extruded components shall comply with Aluminum Association requirements unless otherwise specified.
5. Hardware: All hardware parts that are incorporated in the product shall be of aluminum, stainless steel, or other corrosion resistant material(s) compatible with aluminum. Cadmium or zinc-plated parts, where used, shall be in compliance with ASTM A 164-71 or 165-74. Nickel or chrome-plated parts, where used, shall be in compliance with ASTM B 456.71, SC2. Stainless material should have a preference of a 310 alloy with a 410 alternative.

- a. Fasteners to follow International Fasteners Institute standard B18.6.3 for Slotted and Recessed Head Machine Screws and Metallic Drive Screws or B18.6.4 for Slotted and Recessed Head Tapping Screws and Metallic Drive Screws.
- b. Pivot Block – Cast Metal Alloy VN5-Z33522 (also Alloy #7) ASTM-A-640A or equivalent.
- c. Pivot Pin – Stainless Steel ASTM A276 TY 302 Passivated.

d. MECHANICAL PROPERTIES OF StikStall DUAL DUROMETER VERTICAL SEAL (Flexible Component) & DRIP VINYL Plasticized, filled with Shore A Durometer Hardness of 65	
Tensile Break Strength	1100 psi
Ultimate Elongation	360%
Specific Gravity 23/23 C	1.39
Shore "A" Hardness Initial @ 10 sec.	65 61
Brittleness Point, F 50% Failure @	-33

e. StikStall DUAL DUROMETER VINYLs AND SEALS Mechanical Properties of Rigid Component			
Property	ASTM Method	Units	
Specific Gravity	D792	---	1.34
Hardness Durometer D	D2240	---	85
Rockwell R	D785	---	107
Tensile Strength	D638	psi	6,350
Flexural Strength	D790	psi	12,400
Izod Impact, 1/8" Notched	D256	ft lb/in	15
Optical Clarity – Transmittance Haze (.65 mil)	D1003	% %	74 5
All data obtained at 73 deg. F from injection molded Test specimens prepared per ASTM D647 and D1897			

6. Glazing Vinyls: Vinyls and other glazing seal materials shall be of material compatible with aluminum, be resistant to water and common household chemicals and shall create a water-tight seal between the glass and its surrounding frame.

a. MECHANICAL PROPERTIES OF StikStall GLAZING VINYL Plasticized, filled with Shore A Durometer Hardness of 60	
Tensile Break Strength	1324 psi
Ultimate Elongation	470%
Specific Gravity 23/23 C	1.27
Shore "A" Hardness Initial @ 10 sec.	57 55
Brittleness Point, F 50% Failure @	-99

7. Glazing Materials: All glazing materials to be safety tempered glass with a nominal thickness of .156”/.188" on obscure or clear framed panels, .250” optional on clear, or other safety glazing materials to conform to Federal Standard CPSC 16 CFR 1201 Category 1 and 2, Safety Standard for Architectural Glazing Materials. Dimensional tolerances shall conform to ASTM C 1036-85 and ASTM C 1048-85.

8. 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.
- d. Satin: AA-M10-C22-A21 for etched, clear, 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.

9. Finish Specifications (Painted)

Painted components shall conform to AAMA 603.8, Voluntary Performance Requirements and Test Procedures For Pigmented Organic Coatings On Extruded Aluminum.

- a. Powder coating shall conform to Aluminum Association standard AA-M10-C40-R1X.

Material used is polyurethane powder coating.

TYPICAL PROPERTIES OF StikStall POWDER COATING		
Property	ASTM Method	
Specific Gravity, PCI #4	---	1.2 – 1.9
Gloss	D523	5 – 95+
Pencil Hardness	---	H – 2H
Impact	D2794	To 160 Inch lbs
Mandrel Bend	D522	1/8 Inch
Cross Hatch Adhesion	D5339	Excellent
MFK resistance, PCI #8	---	50 Double Rubs
Abrasion resistance	D1044	Good
Salt Spray	D8117	500 Hrs. Min
Film Thickness	D1186	1.0 – 4.0 Mils