

### **Specifications and requirements Original Patented Product Since 1981**

The Matched Staple Component System (MSCS) is based on the original patented Milliken aluminum extrusion and awning products. This system incorporates the use of stretching and stapling fabric onto a specially designed aluminum extruded awning frame.

There has been some confusion in the awning industry as to what items from which manufacturer may be compatible. Based on the original patented staple-in system, this article outlines a few standards that may eliminate much of the confusion. When used together with the proper components the Matched Staple Component System results in the highest possible quality awning.

#### **MSCS Highlights**

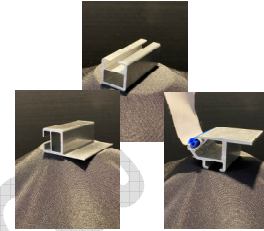
- 1) Profiles with Radius Corners - Prevent excessive wear and tear of fabric as the aluminum extrusion expands and contracts due to environment.
- 2) Extruded Aluminum - Specifically designed with open staple groove and a staple ledge allowing fabric to be stretched and stapled into the frame.
- 3) Fabric becomes tightly stretch around the extrusion, with no ropes or grommets, to be stapled into the staple groove of the extruded aluminum.
- 4) Twist 'N Lock Staples – MSCS staples have been designed for the staple legs to twist as it travels through the staple ledge and lock and draw the fabric to a tight fit onto the staple ledge. Custom internal radius corners to help prevent fabric from “bunching up” as it staples into the staple groove.
- 5) Fabric – Up to 30 ounces of awning fabric can be attached to the MSCS extrusion and staple channel using MSCS staples.
- 6) PVC Insert – Low profile colored key product provides finished appearance and covers the staple groove channel with a dual water/air chambers and adds to the overall strength against blow out.
- 7) The MSCS extrusions, tools, components, and parts have been engineered to work perfectly together.

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#### MSCS Extrusion Requirements:

- 1) All extruded measurements stated as outside dimension (OD).
- 2) All extruded measurements are true measurements.  
i.e., 1x1 tube has exact measurements of 1.00" x 1.00" OD
- 3) MSCS exterior wall thickness may be...
  - a. .060 or .063 – light wall thickness.
  - b. .090 or .100 – medium (standard) wall thickness.
  - c. .125 – heavy wall thickness.
- 4) Staple channel thickness 0.040"
- 5) Staple groove opening – .395" (+/-.05)
- 6) Aluminum Alloy – 6063-T5



#### MSCS Staple Requirement:

- 1) Crown dimension - 5/16"
- 2) Leg dimension – 3/8"
- 3) Custom radius corners.
- 4) Metal construction – 18 gauge galvanized medium wire.



#### MSCS PVC Insert Requirements:

- 1) Overall top dimension – 0.42"
- 2) Overall bottom dimension – 0.37"
- 3) Overall height dimension – 0.34"
- 4) Dual air/water chambers.



#### MSCS Staple Gun Requirements:

- 1) Modified tip designed to fit fully into MSCS staple groove channel.
- 2) Operate from 50 psi to 125 psi (100 psi recommended).



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**MSCS Air Hammer Requirements:**

- 1) Automatic hammer
  - a. Single hammer blow
  - b. Multiple hammer blow
- 2) Triggerless operation.
- 2) Operate from 50 psi to 125 psi (100 psi recommended).



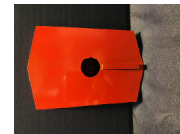
**MSCS Tension Clamp Requirements:**

- 1) Autolocking
- 2) Lock release lever
- 3) Dual clamp teeth
- 4) Custom design to fit into staple groove
- 5) Blunt teeth to prevent fabric tears



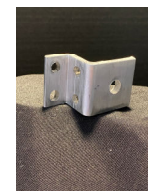
**MSCS Router Plate Requirements:**

- 1) Base plate thickness – 0.125”
- 2) Overall width – 5.75”
- 3) Overall length – 4.00”
- 4) Router hole – 1” x 1”
- 5) Guide bar – 2.35”x .125”
- 6) 6063-T5 aluminum



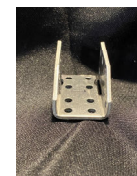
**MSCS Z-Clip Mounting Bracket:**

- 1) Overall dimension 2 ½” x 1 ¼”
- 2) Interior radius to match MSCS .125 radius corner
- 3) 4 predrilled holes to secure extrusion
- 4) 1 predrilled hole for surface mounting
- 5) 6061-T6 aluminum alloy
- 6) .375 w all thickness



**MSCS Fast Clip Requirement:**

- 1) 6063-T5 aluminum alloy
- 2) Multiple predrilled attachment holes
- 3) Available for repair or final assembly



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We have some of the most knowledgeable people on staff to assist you with your awning projects and which extrusions, tools or supplies you may need.

To contact Supply Bright...

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**Phone:** 941-460-1600 (USA)

**Web Site:** [www.SupplyBright.Net](http://www.SupplyBright.Net)

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