

**5S**

5S is an ongoing system involving implementing strict guidelines to maintain a clean, organized, and efficient work space. The 5S's refer to: SORT, SET IN ORDER, SHINE, STANDARDIZE, and SUSTAIN, and relate to the actions that should be taken to achieve success.

**5S + 2S**

5S+2S is the 5S system, including 2 more S's; SAFETY and SECURITY. Safety is adherence to regulatory compliance standards to minimize hazardous situations in the work space and security is taking steps to ensure a safe and productive work environment.

**Acrylic-based Adhesive**

Refer to Adhesive Guide.

**Adhesive Bond**

The force of attraction between two unlike surfaces (similar to a magnetic force). The strength of the bond is determined by the surface's energy. The higher the energy, the higher the bond.

**Anodized**

A material such as aluminum, has been subjected to an electrolytic process, where natural oxidation has been controlled. This involves immersing the aluminum in a chemical bath and applying an electrical current to it, causing oxide to be produced from the resulting rust on the aluminum. This layer of oxide hardens the aluminum and makes it resistant to corrosion.

**Back-to-Back**

Comprises two woven products where hook bonded to hook or hook bonded to loop or loop bonded to loop using a permanent adhesive.

**Bulk-Packaged**

Refers to product packaging (for straps, cut pieces, mated cut pieces, etc.) where the finished items are shipped all together in one master package/box.

**Bullet-tip**

Tip or end of a custom fabricated strap that has a rounded appearance.

**Coated Direct Foam Tape**

These foam tapes are manufactured with an acrylic adhesive coating on both sides of the foam tape which gives it more versatility in bonding different substrates. These foam tapes have a high initial tack, and are suitable to bond high, medium, and low energy surfaces. The 64-series, which are coated direct foam tapes, are specially designed to bond powder-coated substrates and low energy surfaces (plastics, ceramics, teflon, etc.).

**Custom Packaged**

Refers to product packaging (for straps, cut pieces, mated cut pieces, etc.) where the finished items are custom packaged (individually, in lots, etc.) to meet customer's specification.

**Cut & Mated**

This term refers to a product that is cut into individual pieces with both hook and loop engaged/mated.

**Cut Piece**

This term refers to a product that has been cut to length into individual pieces.

**Cycle-Life**

The number of times reclosable fasteners can be engaged and disengaged before the closure strength is reduced to 50% of its original values.

**Direct Foam Tape**

These foam tapes are 100% acrylic adhesive throughout. They are designed for high performance and high temperature applications and are suitable for high to medium energy surfaces. All clear foam tapes are direct foam tapes.

**Double-Face Strap**

Custom fabricated strap comprises one loop and two hook sections (all sections face same direction) at either end of the strap.

**EZ-Peel Tab**

Tip or end of a custom fabricated strap that offers a pull tab for disengaging hook from loop.

**Face Strap**

Custom fabricated strap comprises loop and hook sections (both facing same direction).

**FASTEN<sup>w</sup>rite<sup>®</sup>**

This is a patent pending technology that offers a wet/dry erase writing surface. It is laminated to a VELCRO<sup>®</sup> Brand hook that engages into nearly any loop surface for easy labeling, identification, and management of bundled materials. It can be die-cut into custom shapes or added to the end of a strap as a labeling tab. The wet/dry erase system makes it easy to quickly change the writing on a label with the wipe of a cloth.

**FASTEN<sup>f</sup>oam<sup>®</sup>**

A double sided pressure sensitive foam tape. This tape is available with permanent adhesive on both sides, permanent one side, and removable on other as well as removable adhesive on both sides. These high density polyethylene foam tapes offer superior tensile strength and is available in 1/16" or 1/32" thicknesses. Fastenfoam<sup>®</sup> is perfect for P.O.P. displays, signage, and many other applications.

**Foot (measurement)**

A unit of length that is 12 inches and equals approximately of a 0.3048 meter.

**Galvanized**

Iron or steel coated with rust resistant zinc.

**Gross**

A unit of measure used in the textile industry equal to a group of 12 dozen or 144.

**Heat Transfer Printing**

Process to place a logo (one, two, or four color) on a strap utilizing a label that is bonded with a heat activated adhesive.

**High Energy Surfaces**

These are surfaces that bond well to pressure sensitive adhesives (Examples: Stainless Steel, Aluminum, Tile, Epoxy Paints, Urethane Paints, Enamel, Etc.).

**Hook**

The Hook side is the rough or hard side, it is often referred to as the "male", "hard" or "rough" side.

**Kiss-Cut**

This term refers to a pressure sensitive product that has been cut to length but remains on carrier/release paper.

**LEED<sup>®</sup> Credits**

A rating system developed by the US Green Building Council (USGBC). LEED, or Leadership in Energy and Environmental Design is an internationally recognized green building certification system.

**Loop**

The Loop side is the soft or fuzzy side and is often referred to as the "female", "plush" or "pile" side.

**Low Energy Surfaces**

These are surfaces that do not bond well to pressure sensitive adhesives (Examples: Polyethylene, Polypropylene, Silicone, Teflon, etc.).

**LSE**

Low surface energy  
See Low Energy Surfaces above.

**Meter (measurement)**

A unit of length that is a little more than three feet, or about 39.37 inches.

**Magnet**

An object made from a material that is magnetized and creates its own persistent magnetic field. An everyday example is a refrigerator magnet used to hold notes on a refrigerator door.



### **MIL-SPEC**

Refers to Military Specification - which are a set of standardized tests and rules (depending on product) that must be met for product to qualify.

### **Molded vs. Woven**

Molded materials can be produced in widths up to 12" wide, manufactured in various hook heights (for increased engagement with low profile loops) and from numerous resins (Nylon, Polyester, PVC, Polypropylene, and Polyethylene) to vary their performance and/or cost. Woven materials can only be produced from Nylon or Polyester yarns and are typically narrow in width, offer less stretch, and have greater cycle-life.

### **Multiple Across**

Defines when more than one finished coins/parts is placed side-by-side on a release paper.

### **Nylon vs. Polyester**

Nylon materials are the dominant type used in manufacturing hook & loop. They offer the best cycle-life, color selection, and are best for most applications. Polyester materials are best for outdoor applications. They provide higher moisture and U.V. resistance.

### **Pad Printing**

Printing process for placing a logo (one color or two) on a strap via ink transfer and a pad.

### **Painted Metal**

Raw metal painted with latex or oil based paint.

### **Peel**

The amount of force needed to disengage a hook and loop closure system by peeling the tapes 180 degrees apart.

### **Perforated**

This term refers to a non-pressure sensitive product that is cut mostly through allowing the pieces to remain connected.

### **Powder Coated**

A type of coating that is applied as a free-flowing, dry powder. The main difference between a conventional liquid paint and a powder coating is that the powder coating does not require a solvent to keep the binder and filler parts in a liquid suspension form. The coating is typically applied electrostatically and is then cured under heat to allow it to flow and form a "skin".

### **Put-Up**

A term used to define the size of roll (in inches, feet, yards or meters).

### **Removable**

Capable of being removed or taken away. Detachable or demountable.

### **Reusable**

Able to be used again; especially after salvaging or special treatment or processing.

### **Reverse/Back Strap**

Custom fabricated strap with hook and loop sections facing in opposite directions. Typically used in a wrapping application.

### **Release Liners**

Is the covering placed on pressure sensitive products to protect the adhesive and stop it from sticking to the product as the material is rolled up. They are available in both mylar (a plastic film) and paper depending on the product chosen.

### **Rubber-based Adhesive**

Refer to Adhesive Guide.

### **Selvedge**

Is an edge of woven material that is created to minimize fray. It is also an edge on non-adhesive backed Hook or Loop that has no engagable surface.

### **Shear**

The amount of force needed to disengage a hook and loop closure system by pulling the tapes in opposite directions.

### **Stainless Steel**

A form of steel containing chromium that is resistant to tarnishing & rust.

### **Substrate**

Is the surface/material pressure sensitive adhesives are adhered too (I.E. Polypropylene, paper, etc.).

### **Surface Energy**

Refers to how an adhesive is able to bond with a surface. Low energy surfaces are more difficult to bond with and may require higher tack adhesives to achieve an acceptable bond. Whereas, high energy surfaces are more versatile and easier for most (low/high tack) adhesives to bond with.

### **Table Cloth Clip**

Table Cloth Clips do not have VELCRO® Brand hook attached and are placed onto the outside of a tablecloth to hold them in place

### **Table Skirting Clip**

Table Skirting Clips have VELCRO® Brand hook attached to the clip's front face and are used to attach a table skirt onto the side of a table.

### **Tack**

This is the initial stickiness or bond of an adhesive. It helps hold the adhesive in place while the adhesive cures but has no relationship to the end strength of the adhesive after curing.

### **Tensile Strength**

Is the maximum load a material can support without fracture when being stretched, commonly expressed in units of pounds per square inch (PSI).

### **Tension**

The amount of force required to separate hook and loop tapes in a pulling or lifting motion perpendicular to the tape's length.

### **Three-Up**

Defines when three finished coins/parts are placed side-by-side on a release paper.

### **Two-Up**

Defines when two finished coins/parts are placed side-by-side on a release paper.

### **Ultrasonic Welding vs. Sewing**

Ultrasonic welding is a process used in fabricating straps or assemblies that melts like materials together via heat and pressure. Nylon and Polyester materials that are narrow (4" or less) in width are able to be bonded through ultrasonic welding. Sewing is another process utilized when manufacturing straps or assemblies. It is typically stronger than ultrasonic welding and can be used to attach both like and unlike materials.

### **VELCRO® Brand VELSTRAP® Strap**

Custom fabricated strap comprised mainly of loop with small hook section on one end (facing same direction as loop) and buckle on opposite end - strap can be used for wrapping or cinching.

### **Volatile Organic Compounds (VOCs)**

VOC refers to organic chemical compounds which have significant vapor pressures and which can affect the environment and human health. Although VOCs include both man-made and naturally occurring chemical compounds, it is the anthropogenic VOCs that are regulated, especially for indoors where concentrations can be highest.

### **Woven vs. Knitted**

Woven materials are typically narrow in width, offer less stretch and have greater cycle-life. Knitted materials typically can be produced up to 60" wide, have less stability and more likely to stretch when stressed, less cycle-life, and are more cost effective.

### **Yard (measurement)**

A unit of length that is equal to 3 feet or 36 inches, and equivalent to 0.9144 of a meter.