

# VEL-LOC® Quadrilobal Wide

**Technical Data Sheet**  
April 2018

## PRODUCT DESCRIPTION



The **VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE** product is a mushroom hook tape that is easy to use. Its quadrilobal (arrow-shaped) mushroom hooks provide firm, reliable fastening. The tape is designed to be used with **VELCRO® Brand Loop Tapes**, while its 1500+ mm width allows it to be used in applications where widths in excess of 150 mm or parts with larger dimensions are necessary.

It features a mushroom hook density that is sufficient to ensure aggressive fastening and a low/medium life cycle.

The **VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE** product can be used in the construction, medical, automotive and other sectors, wherever the required product width exceeds that provided by the other fasteners in the mushroom family of products.

## COUNTRY OF ORIGIN

Spain

## PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE
Construction	Woven fabric
Composition	Polyester and Polypropylene
Thickness	Average 1.20 mm
Weight	Average 300 g/m <sup>2</sup>
Widths available	Up to 1580 mm

\*Average based on recorded values. The specifications are for reference.

## PERFORMANCE CHARACTERISTICS



Fastening system	VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE vs VELCRO® Brand VELOUR STANDARD 250 PA 3165 REGULAR
Initial peel strength	Average 5 N/cm
Initial shear	Average 30 N/cm <sup>2</sup>
Peel after 100 cycles	Average ** N/cm



**Shear after 100 cycles**

Average \*\* N/cm<sup>2</sup>

\*Average based on the values tested with VELCRO® Brand VELOUR STANDARD 250 PA 3165 REGULAR. The specifications are for reference.

## PRODUCT COMBINATIONS

**VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE** has been designed to be used with **VELCRO® Brand knitted and woven loops**.

## SPECIAL CHARACTERISTICS



### Outdoor use

Polyester is a material that offers good resistance to UV rays, while polypropylene has a low resistance to UV rays. As a result, the **VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE** product is not specifically designed for outdoor use.



### Resistance to solvents

The polyester in this fastening system is resistant to cleaning with some solvents and to accidental exposure to common solvents, but any such exposure must not be prolonged (except for alkalines, which hydrolyse it).

The polypropylene in this fastening system is resistant to cleaning with some solvents and to accidental exposure to common solvents, except for halogenated solvents, which dissolve it.

Its resistance to fluids used in transport, such as gasoline, motor oil or transmission fluids, has not been tested. We recommend testing the product for its specific application.



### Fire resistance

**VELCRO® Brand SUPER VEL-LOC® QUADRILOBAL WIDE** products do not have a flame-retardant treatment, so their use in applications that require limited flame propagation is not recommended.



### Water/Moisture resistance

The polyester and polypropylene self-fastening system absorbs small amounts of water. As a result, its performance should be stable when the product is exposed to water or a high relative humidity (>80% RH) over long periods of time.

Due to the high fastening strength, we do not recommend washing **VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE**.



### Sterilisation

These products have not been tested for physical sterilisation (autoclave, steam, gamma rays, etc.) or chemical sterilisation (ethylene oxide, hydrogen peroxide, etc.).



### Colour fastness

**VELCRO® Brand SUPER VEL-LOC® QUADRILOBAL WIDE** guarantees the following colour fastness:

Colour fastness to washing (ISO 105 C-10) -> Min. 3/4

Colour fastness to rubbing (ISO 105 X-12) -> Min. 4

Colour fastness to perspiration (ISO 105 E-04) -> Min. 4



### Biocompatibility

**VELCRO® Brand SUPER VEL-LOC® QUADRILOBAL WIDE** has not been tested for biocompatibility.



### Electrostatic discharge

**VELCRO® Brand SUPER VEL-LOC® QUADRILOBAL WIDE** has not been tested for electrostatic discharge after opening and closing the fastener. These products must first

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be tested in applications where electrostatic discharge is a concern.

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#### Seam strength

The **VELCRO® Brand SUPER VEL-LOC® QUADRILOBAL WIDE** product can be applied to several substrates by sewing, ultrasonic welding and adhesives. Users must test each method to see which best suits their application.

Sewing: The **VELCRO® Brand SUPER VEL-LOC® QUADRILOBAL WIDE** product can be sewn using similar methods for other polyesters. A square stitch should be used when possible, but all common stitches also offer adequate strength. The choice of thread will depend on the application and substrate, but it should offer similar strength to stitching.

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#### SUGGESTED APPLICATIONS

Below is a brief description of typical applications where **VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE** may be used.

We recommend testing the product before use since the conditions specific to each application may cause differences in performance.



#### CONSTRUCTION

##### Polishing discs

Thanks to its wide range of widths, the **VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE** product can be used in floor buffers to attach the polishing discs.



#### AUTOMOTIVE

##### Seats and covers

Laminated in foam and thanks to the range of possible widths and shapes, the **VELCRO® Brand VEL-LOC® QUADRILOBAL WIDE** product can be used to attach seat covers.

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#### REGULATORY ELEMENTS

For product declarations of conformity on regulatory elements and additional information, contact [productcompliance\\_emea@velcro.com](mailto:productcompliance_emea@velcro.com).

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#### PRODUCT USE

The information, statements and comments contained within this document are based on our experience and testing and are believed to be accurate. However, because there are many factors involved in specific applications that can impact end use and performance, product users should always test the product for its ability to meet the requirements of their specific use and method of application.

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#### LIMITED WARRANTY

Velcro Companies<sup>(\*)</sup> warrants that all of its products will substantially comply with its written specifications at the time of shipment. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. The product user is responsible for determining whether the product is fit and suitable for the intended application. If the product does not meet specifications as warranted, we will, at our option, repair or replace the product, or credit or refund the purchase price. The foregoing constitutes the user's sole remedy and our sole obligation hereunder.

<sup>(\*)</sup> Velcro Companies includes all the partner companies involved in the development, manufacture or sale of the products.



## LIMITATION OF LIABILITY

To the maximum extent permitted under applicable law, our liability for any losses or damages relating to use of the product shall not exceed the purchase price for such product, regardless of whether such losses or damages are direct, indirect, special, incidental or consequential, and regardless of the legal theory asserted, including, but not limited to, warranty, contract, negligence or strict liability.

Given the diversity of our products, we recommend that our customers verify that the product satisfies the requirements of their application. The customer is responsible for the application and use of the product.

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