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Product Information Bulletin

PRODUCT: **BANNER UPS** *PowerTabs*[®] and *PowerTape*[®]

Banner Ups PowerTabs and PowerTape can increase the strength of banners as much as 400% over traditional grommet methods.

Test results show that using Banner Ups *PowerTabs* in combination with *PowerTape* produces a significantly stronger banner than can grommets. Naturally, no banner can be guaranteed to withstand all possible environmental conditions, but consider the following strength data. Sample banners were fabricated of typical outdoor banner media with ropes fastened as described below. Tension was applied using an Instron laboratory tensile test apparatus to determine breaking strength. Results are compared to grommets on the chart below.

Banner Construction

Strength

Sewn Hem with grommet - rope through grommet	49 lbs
PowerTabs only - rope through loop	80 lbs
PowerTabs only - rope through center hole	160 lbs
PowerTabs and PowerTape - rope through center hole	209 lbs

There are several degrees of strength that can be achieved with the Banner Ups *PowerTabs*[®]/*PowerTape*[®] system. We recommend either Mini Banner Ups or Mini *PowerTabs*[®] for indoor or light duty outdoor use. Similarly, the large Banner Ups *PowerTabs*[®] with the rope attached through the corner loop are recommended for indoor or light duty outdoor use.

For even greater strength, use the large tabs with the rope through the center hole. This can be used for most outdoor applications with banners up to 6-8 foot length.

For maximum strength, use both *PowerTabs*[®] and *PowerTape*[®] with rope attached through tab center hole, as well as through the *PowerTape* and banner fabric. This is recommended for banners over eight feet in length especially where maximum wind exposure is expected.

Conclusion: *PowerTabs* provide a stronger fastening point for banners than grommets because the force of wind load is spread over the much larger surface area of the *PowerTab*. Grommets fail because they cut through the banner fabric when stressed. *PowerTape* provides a strong reinforcement for banner edge.

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