

**SPIDER® AVALANCHE prevention system**

THE EFFICIENT PROTECTION  
AGAINST AVALANCHES

# FOR THE MOST VALUABLE ASSET IN LIFE: OUR SAFETY.

Salvanel, Switzerland: Installation of the SPIDER® AVALANCHE system - 2016

It is no coincidence that we have always been pioneers when it comes to avalanche prevention: After all, Geobrugg is at home in alpine Switzerland. In collaboration with national and international institutions, we have developed our **SPIDER® AVALANCHE system**. It not only offers protection against avalanches, tests have proven that this solution also protects against rockfall.



# WE CAN PROVIDE YOU WITH THE COMPLETE SAFETY PACKAGE.

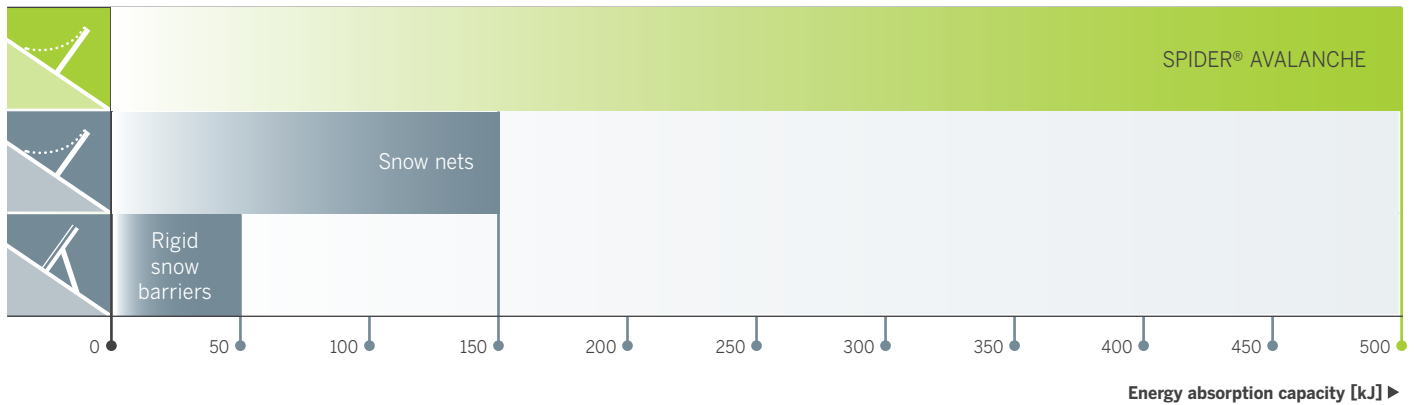
At your request we can take on the role of **consultant, planner** and even **project manager**. Both the solutions we offer and the quality of our service is valued by our customers. For us excellent service is an integral part of every single project. No matter which phase of the project you are in, we will provide you with the support and expertise required to achieve the best results – saving you both time and money.



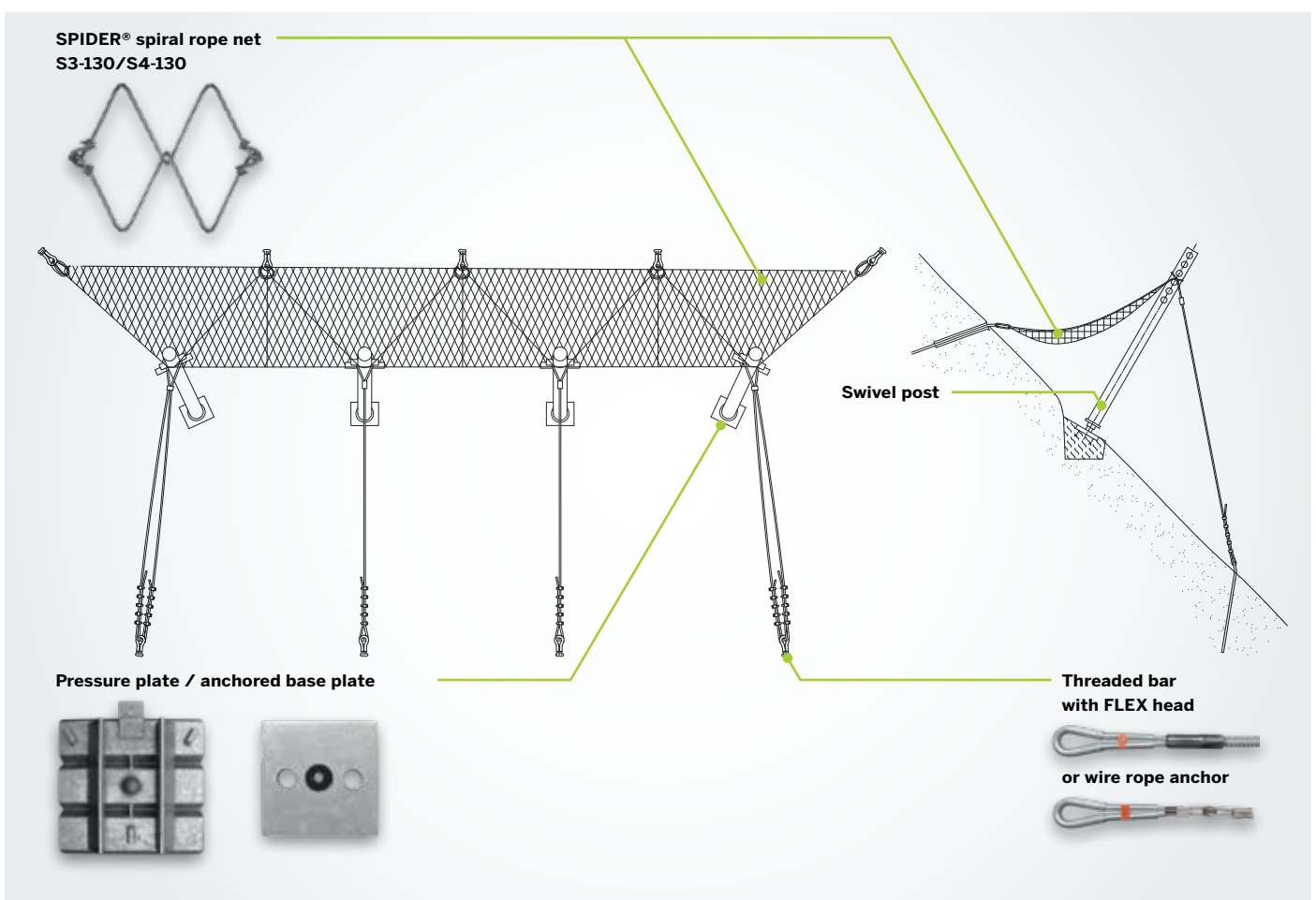
# SAFETY IN EVERY ELEMENT: COMBINED AVALANCHE AND ROCKFALL PROTECTION.

The **SPIDER® AVALANCHE system** has been developed for snow thicknesses of  $D_k$  2.5 to  $D_k$  4.5. It has a modular design and consists of **swivel posts, anchor-free pressure plates, guy ropes, anchors** and **SPIDER® spiral rope nets** as a flexible supporting surface. Thanks to the lightweight high-tensile steel spiral rope nets, up to three posts and three nets can be flown to the installation area at one time.

## Our SPIDER® AVALANCHE system in comparison: Significantly better rockfall protection



## Components of our SPIDER® AVALANCHE system



# QUALITY YOU CAN RELY ON.

**SPIDER® AVALANCHE** with the spiral rope net **made of high-tensile steel wire** offers a robust, easy to install solution with a long service life. This tried-and-tested solution offers a decisive advantage: During snow-free periods, **it also offers protection against rockfall with impact energies up to 500 kJ.**

This flexible system is particularly lightweight and unobtrusive in any sensitive environment. The use of nets also makes installation possible in **difficult topographies**. The **anchor-free pressure plate** transfers the forces from the posts directly into the ground. This provides the significant advantage of less drilling and easy positioning on any surface including **creeping slopes and in permafrost areas**. The ground plate location can easily be corrected if required.

## Our SPIDER® AVALANCHE provides the following features:



### **Suitable for rockfall protection**

SPIDER® AVALANCHE safeguards against multiple hazards: Tests have proven that during snow-free periods, our avalanche prevention structures also offer protection against rockfall with energies up to 500 kJ.



### **Light and easy to install**

The low weight is extremely advantageous for installing avalanche protection systems and makes cost-effective logistics operations possible. If being installed by helicopter, up to three posts and three main nets can be transported at the same time.



### **Gap-free structure**

Uncompromising safety: SPIDER® AVALANCHE forms a uniform protective surface without gaps or openings which reaches to the ground and retains both, rockfalls and large quantities of snow.



### **Pressure plates without anchoring**

Ultra simple installation and low anchoring costs are what makes SPIDER® AVALANCHE so unique. The pressure plates approved in accordance with the SLF (Swiss Institute for Snow and Avalanche Research) are suitable particularly for soft soil and creeping slopes.



### **First-class corrosion protection**

The corrosion protection of our systems will last for generations. This means that our customers benefit from particularly low maintenance costs.

# WE DON'T LEAVE SAFETY TO CHANCE.

DTC Dynamic Test Center Vautsaun, Switzerland, 17 test SPIDER® AVALANCHE

**SPIDER® AVALANCHE** is based on the globally recognized „Technical guideline for defense structures in avalanche starting zones“ published by the Swiss Institute for Snow and Avalanche Research (SLF). At the request of our customers we have also successfully proven the protective function of this system against rockfall.

# PROVEN RELIABILITY WORLDWIDE.



More information is available on our website:  
[www.geobrugg.com/avalanche-prevention](http://www.geobrugg.com/avalanche-prevention)

