

## ***Text for Invitation of Tender Rock and slope retention system using High Performance Netting 50/50/4.6***

Rock and slope stabilisation using High Performance Netting consists essentially of High Performance Netting, ropes and a combination of mono bar anchor and spike plates with or without rope connection. The anchoring method and the rectangular grid for the anchors (offset) are dependent on geotechnical conditions on-site and must be defined together with the client at the beginning of the project. The transmission of the resulting forces into the ground must be provided. A detailed report must be written on the design of the anchoring.

### **General Information**

Area to cover [m<sup>2</sup>]:            e.g. 1.000

Ultimate load state and serviceability has to be verified for the chosen anchor grid. The non-positive connection of the bearing ropes with the spike plates prevents the global collapse of the system after a disruption of the rope due to local overloading.

### **Design of the Main Structure and Individual Components**

The design of main structures and of single components must be such as described below (or equal / better). Individual components not cited herein must correspond to the appropriate technical standards (e.g. DIN).

#### **Net:**

Type: High Performance netting 50/50/4.6  
Corrosion protection: [Zinc-Aluminium coated class A according to EN 10244-2](#)  
Maximum mesh size: [50 mm](#)  
Connection between rolls: [using sewing rope \(d = 4 mm\)](#)

#### **Ropes (optionally):**

Type: [according to EN 12385-4](#)  
Corrosion protection: [hot dip galvanized](#)

### Spike plates

- Standard: Type standard: **Standard-Spike-Plate**  
Type corner: **Corner-Spike-Plate**  
Corrosion protection: **hot dip galvanized according to EN ISO 1461**
- non-positive connection: (optionally) Type border: **Spike plate for 1 rope connection**  
Type support: **Spike plate for 2 rope connections**  
Corrosion protection: **hot dip galvanized according to EN ISO 1461**

### Anchoring

- of rope-ends:: mono bar anchors and **Corner-Spike-Plates**
- of spike plates: mono bar anchors

### Schematic sketch:

