

Rockfall protection system - 100 kJ Energy oA

1. General Information

Energy level [kJ]:	100
Nominal height [m]:	e.g. 2.0
Total length [m]:	e.g. 250
Number of rows:	e.g. 5
Average distance between posts [m]:	e.g. 10

The fitness for use of the offered rockfall protection system must be tested successfully in a 1:1 field test for a minimum energy impact of **100 kJ**, supervised by an independent authorized technical institute. As part of the certification, no breakage may occur in key structures (e.g. break in wire/rope of primary net, in the bearing rope, seam ropes or other system specific ropes; no fracture of posts, etc.) Test report, as well as test summary and the list of monitored anchor forces must be added to the tender.

2. 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).

2.1 Interception structure

- Principal net: Type: **High Performance netting 50/50/4.6**
Corrosion prevention: **galvanisation class A (EN 10244-2)**
Maximum mesh size: **50 mm**
Connection to bearing ropes: **sewed**

2.2 Support structure

- Post: Corrosion prevention: **hot dip galvanised**
Design: **fixed rotation at the base plate**
- Base plate: Corrosion prevention: **hot dip galvanised**
Connection to underground: **anchored**

2.3 Connection components

- Bearing ropes: Type: **according to EN 12385-4**
Corrosion prevention: **galvanised**

2.4 Anchoring

- ropes: **Wire Pack Anchor or mono bar anchor**
- posts: **Mono bar anchor**