





<b>• Preliminary energy test (50%)</b>	500 kJ
– Penetration of test body	yes <input type="checkbox"/> / no <input checked="" type="checkbox"/>
– Braking time $t_s$	0.26 s
– Braking distance $b_s$	4.20 m
– Sum of the tensile forces in the 3 upper cables	325 kN
– Sum of the tensile forces in the 2 lower cables	198 kN
– Maximum of the tensile forces in a stay cable	96 kN
– List of damaged elements	
No damage to load-bearing parts of the structure. 13 out of 16 braking components were deformed.	
– Assessment of repairs	
Six braking components were replaced. This work took 5.5 man-hours.	
<b>• Main energy test (100%)</b>	1000 kJ
– Penetration of test body	yes <input type="checkbox"/> / no <input checked="" type="checkbox"/>
– Braking time $t_s$	0.30 s
– <i>Maximum permissible braking distance <math>b_s</math></i>	8.0 m
– Measured braking distance $b_s$	4.60 m
– <i>Minimum permissible residual braking height <math>h_n</math></i>	2.0 m
– Measured residual braking height $h_n$	2.64 m
– Sum of the tensile forces in the 3 upper cables	350 kN
– Sum of the tensile forces in the 2 lower cables	220 kN
– Maximum of the tensile forces in a stay cable	135 kN
– List of damaged elements	
No damage to load-bearing parts of the structure. All 16 braking components were deformed.	
<b>• Assessment of special criteria</b>	
– Comments on assembly and on the assembly instructions	
No particular difficulties were encountered with assembly.	
– Comments on adaptability to the terrain	
Adaptability to the terrain is normal.	
– Comments on design complexity	
The documentation enables safe, simple assembly.	
– Comments on anticipated life cycle	
The parts of the installation are supplied with corrosion resistance corresponding to the service life requirements. The net has an aluminium-zinc coating (150 g/m <sup>2</sup> ).	
The anticipated service life is ascertained to be adequate.	



## Overall assessment

Test passed

Test passed with reservations

Examined based on the following guidelines: GERBER, W. 2001: Guideline for the approval of rockfall protection kits. Environment in practice. Swiss Agency for the Environment, Forests and Landscape (SAEFL), Swiss Federal Research Institute WSL. Berne, 39 pages. Revised June 2006.

**RESERVATION:** Should deficiencies arise following certification of the safety net, FOEN may revoke product release and delete it from the type approval list.

Date

19.05.2006

Name, position

Andreas Götz, Vice Director

Signatures

Replaces the Certificate No. S 04-8 of 16 December 2004

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