



• Preliminary energy test (50%)	500 kJ
– Penetration of test body	yes <input type="checkbox"/> / no <input checked="" type="checkbox"/>
– Braking time t_s	0.23 s
– Braking distance b_s	3.7 m
– Sum of the tensile forces in the 4 upper cables	330 kN
– Sum of the tensile forces in the 3 lower cables	230 kN
– Maximum of the tensile forces in a stay cable	85 kN
– List of damaged elements	-
– Assessment of repairs	The net was completely replaced. The work took 90 man hours.
• Main energy test (100%)	1000 kJ
– Penetration of test body	yes <input type="checkbox"/> / no <input checked="" type="checkbox"/>
– Braking time t_s	0.31 s
– <i>Maximum permissible braking distance b_s</i>	8.0 m
– Measured braking distance b_s	5.3 m
– <i>Minimum permissible residual braking height h_n</i>	2.0 m
– Measured residual braking height h_n	2.35 m
– Sum of the tensile forces in the upper cables	330 kN
– Sum of the tensile forces in the lower cables	210 kN
– Maximum of the tensile forces in a stay cable	150 kN
– List of damaged elements	
• Assessment of special criteria	
– Comments on assembly and on the assembly instructions	The assembly cost is standard for a system of this energy class.
– Comments on adaptability to the terrain	Adaptability to the terrain is normal.
– Comments on design complexity	The system has two stop ropes in addition to the support ropes. An intermediate retaining rope is required every 60 m in accordance with the regulations. 7 ropes must be anchored there.
– Comments on anticipated service life	The anticipated service life is ascertained as adequate.



Overall assessment

Test passed

Test passed with reservations

Tested according to 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

22.10.2013

Name, position

Dr. Josef Hess, Vice-Director

Signatures

Federal Office for the Environment FOEN
Risk Prevention Division
3003 BERNE
[http:// www.bafu.admin.ch/typenpruefung](http://www.bafu.admin.ch/typenpruefung)