



• Preliminary energy test (50%)	750 kJ
– Penetration of test body	yes <input type="checkbox"/> / no <input checked="" type="checkbox"/>
– Braking time t_s	0.28 s
– Braking distance b_s	4.7 m
– Sum of the tensile forces in the 2 upper cables and the guy rope	322 kN
– Sum of the tensile forces in the 2 lower cables	175 kN
– Maximum of the tensile forces in a stay cable	123 kN
– List of damaged elements	No damage to the load-bearing parts of the structure. All 16 breaking elements were deformed.
– Assessment of repairs	16 breaking elements and the middle part of the net were replaced. The work took 24 man-hours. The repairs necessary after the test were considered to be normal.
• Main energy test (100%)	1500 kJ
– Penetration of test body	yes <input type="checkbox"/> / no <input checked="" type="checkbox"/>
– Braking time t_s	0.37 s
– <i>Maximum permissible braking distance b_s</i>	9.0 m
– Measured braking distance b_s	6.30 m
– <i>Minimum permissible residual braking height h_n</i>	2.0 m
– Measured residual braking height h_n	2.4 m
– Sum of the tensile forces in the 2 upper cables and the guy rope	375 kN
– Sum of the tensile forces in the 2 lower cables	227 kN
– Maximum of the tensile forces in a stay cable	211 kN
– List of damaged elements	No damage to the load-bearing parts of the structure. In the middle part of the net one ring broke. All 16 breaking elements were deformed.
• Assessment of special criteria	
– Comments on assembly and on assembly instructions	The assembly presents no particular difficulties.
– Comments on adaptability to the terrain	The adaptability to the terrain is normal.
– Comments on design complexity	Using the documentation supplied, safe and simple assembly is possible.
– Comments on anticipated service life	Depending on the service life required of the installation, parts with different levels of corrosion protection are supplied. The net has an aluminium-zinc coating (150 g/m ²). The anticipated service life is ascertained to be 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

8. 11. 2007

Name, position

Andreas Götz, Vice Director

Signatures

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