



TEST REPORT 39-15969/B/JP

Product: Aluminum figure eight, black colour, with cleats

Type designation Alpen Pass Öffner

Customer: Alpen Pass

Manufacturer: Alpen Pass

Production facility Sister Maquinas e Acessorios Ltda
Rua Julio Conceicao, 449
01126-001 São Paulo / SP, Brazil

Responsible employee: Petr Hájek

Report date issue: 2021-11-23

Distribution list: 1 copy to the Engineering Test Institute (SZU)
1 copy to the Applicant



The tests were performed based on these documents:

- Order of 2021-10-11 (Order reg. no. J-74522 delivered on 2021-10-12)

I. Description of tested product

The submitted product braking device aluminum figure eight, black color, with cleats, model Alpen Pass Öffner is mechanical device which generates forces on the rope, to oppose movement of the rope through the device. It is used like a manual braking device which is controlled by hand force applied to the free end of the rope, that produces a magnified force in the active rope in a continuous and reversible manner, such that when the force in the free end of the rope is reduced to zero, the braking effect becomes negligibly small. The device body looks like a number eight and it has two holes with 27,7 mm diameter and 42,8 mm diameter.

Material: Aluminum

Weight: 186,9 g

Dimensions: (139,7 x 139,4 x 14,1 mm)

Model name: Alpen Pass Öffner

Product code: APOFFNER

Trademark: Alpen Pass

II. Sample tested

- Number of samples: 12
- Date of submission or collection: 2021-11-10
- Reg. number: 2260.21.35512.001-012

The visual inspection, testing and verification were carried out by Petr Hájek at the test station of SZU.

The testing was conducted using measurement and testing equipment with valid calibration.

III. Methods, results of tests and verifications

- The methods of the tests, the results of the tests and verifications are provided in the following partial report forming an integral part of this Test Report:
- Partial Report 39-15969/B/1/JD
- Annex / not

IV. List of additional documents used

- ČSN ISO 80000-1:2011 Quantities and units - Part 1: General
- ČSN EN 15151-2:2013 Mountaineering equipment – Braking devices – Part 2: Manual braking devices, safety requirements and test methods

Test Report compiled by: Petr Hájek

Test Report approved by:

Petr Hájek
Head of Test Station No. 2260



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Partial Report 39-15969/B/1/JD

Tested characteristic(s): General, static strength, static strength when used as belay anchor

Sample identification Aluminum figure eight, black colour, with cleats, model Alpen Pass Öffner

Reg. number: 2260.21.35512.001-012

Responsible testing engineer: Petr Hájek

Date of testing: 2021-11-12 to 2021-11-18

Place of testing: SZU Laboratory

Measuring and testing equipment:

Description	Inventory number	Note
Tensile testing machine with built-in strength sensor	01-0748	--
Calliper	213575	
Test bar Ø 13 mm	--	--

Requirement: ČSN EN 15151-2:2013, art. 5.1, 5.2, 5.3

Exact title of the test procedure: The test of construction and of strength

Testing method: ČSN EN 15151-2:2013, art. 6.4, 6.5, 6.6

Accredited test number: S 037

Test results:

1) General

Art.	Requirement	Results	Evaluation
5.1.2	Diameter of attachment points Ø min (13 ₀ ^{+0.1}) mm Edges of all openings	27,9 mm Edges are rounded (RO.2 min.)	+
5.1.3	Sharp or rough edges	without	+
5.1.4	Two consecutive deliberate manual actions for rope detaching	corresponds	+
5.1.5	Designed to operate with ropes (diameter) as specified in the information supplied by the manufacturer	Device: (8 – 13) mm Information: (8 – 13) mm	+

2) Static strength

Rope type	Required load (kN)/60 (+5/-0) s	Result	Evaluation
Single rope (one strand) Min. diam. 8 mm	7 (+0,5/-0,0)	Without releasing of loaded rope	+
Single rope (one strand) Max. diam. 13 mm	7 (+0,5/-0,0)	Without releasing of loaded rope	+

The product was tested with ropes of maximum diameters exactly according to information supplied by the manufacturer.

The product was tested in the position for belaying and abseiling.

3) Static strength when used as belay anchor

Rope type	Required load (kN)/60 (+5/-0) s	Result	Evaluation
Single rope 8 mm (one strand)	8 (+0,5/0,0)	without releasing of the loop of rope	+
Single rope 13 mm (one strand)	8 (+0,5/0,0)	without releasing of the loop of rope	+

Expert opinion: The requirements were fulfilled.

Testing engineer: Petr Hájek
name

signature

Reviewed and approved by: Petra Vykypělová
name

signature

..... 2021-11-18
date

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