

Test Report

Full body harness "PTK-34" Prototype test	
Work order	
Test method	ÖNORM EN 358:2000, EN 361:2002, EN 813:2008
Client	Vericert Belgelendirme A.S
Address of client	Acibadem Caddesi Tekin Sokak Darga Apartmani No: 24/13 Acibadem, Kadikoy Istanbul - Turkiye
Date of order / reference	05.02.2013
Date of receipt of the test material	01.02.2013
Report No. – Order No.	PB 2013-3741 – STP 3217
Technical expert	DI Stefan Krähan; Ing. Norbert Metzner
Date of measurement	11.03.2013
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The company Vericert Belgelendirme A.S, Acibadem Caddesi Tekin Sokak Darga Apartmani No: 24/13, Acibadem, Kadikoy Istanbul - Turkiye, contacted the Safety Testing Centre (Notified Body for PPE) of the Austrian Social Insurance for Occupational Risks (Sicherheitstechnische Prüfstelle der Allgemeinen Unfallversicherungsanstalt) to make a prototype test of the full body harness PTK-34 to the CE-directive 89/686/CEE. The full body harness was produced according to EN 361, EN 358 and EN 813 and tested according to EN 361:2002, EN 358:2000 and EN 813:2008.

The manufacturer of the harness is Knot Yapi ve Is Güvenligi Sanayi Ticaret Ltd. Sti. Cumhuriyet Mah. Cetin Sk. No: 4 Kat: 1-2 Kartal – Istanbul – Türkiye.

The company Vericert Belgelendirme A.S sent 3 full body harnesses PTK-34 to the Safety Testing Centre of the Austrian Social Insurance for Occupational Risks.

The tests were made in the dynamic testing laboratory.

Description:

The full body harness PTK-34 consists of a polyester belt 45 mm width and 1.5 mm thickness and has buckles which are continuous adjustable and has also a back waist holder. The full body harness has a fall arrest attachment element in the back and in the front of the full body harness.

One suspension eye (D-ring) on the back and in the front according to EN 361 and two side plates with integrated attachment elements (D-rings) at the waistbelt according to EN 358.

In the front of the waistbelt there is a D-ring according to EN 813.

The waist holder is approx. 700 mm long and approx. 130 mm wide (in the middle). The attachment elements on the restraint belt are in the area of the waist holder. On the restraint belt are adjustable leg loops of belt webbing material 45 mm wide.

The attachment elements on the restraint belt are in the area of the back padding. On the restraint belt are adjustable leg loops of belt webbing material 45 mm wide. The padding of the leg loops is 445 mm long and 80 mm wide.

The leg loops are stitched up with a black belt and they are combined with a D-ring according to EN 813 as an additional low-lying attachment point.



The numbers in the parenthesis identify sections according to the test standard EN 361 and EN 813.

Requirements (4)

Conception and ergonomics (4.1)

The general requirements of design and ergonomics are fulfilled according to EN 363, section 5.1.

Design and construction (4.2.1 according to EN 813)

The webbing and the sewing threads are made of Polyester and the colour of the sewing threads is black and clearly visible.

The webbing is 45 mm wide and has rounded edges.

By a correct locked of the buckles it is not possible to open the buckles unintended.

A visual test all of the full body harness is unimpeded possible.

Static strength test (5.1 according to EN 361)

The static strength test was made according to EN 364, section 5.1.4., with a test force of 15 kN on the under most eye of the torso dummy and with a test force of 10 kN on the highest eye of the torso dummy. The torso dummy was held safely.

The static strength test of the attachment elements was made according to EN 358, section 5.2.1.1. The test weight was held with a test force of 15 kN on the full body harness safely.

Dynamic strength test (5.2 according to EN 361)

The torso dummy was untainted held from each fall arrest attachment elements in both fall directions. The position of the torso was according to the requirements to 4.4. The dynamic strength test of the attachment elements was made according to EN 358, section 5.3.

The full body harness was tested with an adjustable lanyard euroline 15-2V. The torso dummy was untainted held in both fall directions.

Static strength test (5.2 according to EN 813)

The static strength test was made with a test force of 15 kN. The torso dummy was held safely in the sit harness. The strap buckles of the leg loops are slipped to 10 mm.

Dynamic strength test (5.3 according to EN 813)

For the execution of the dynamic strength test the sit harness was completed with a mountaineering rope. The mountaineering rope is according to EN 892. The test was made with the lateral fastening eye, with the additional fastening eye and with the fastening eye at the end of the abdominal belt. The torso dummy was untainted held in all cases from each fastening eye.

Information supplied by the manufacturer, Marking and Packaging (6 and 7)

The Information supplied by the manufacturer is made in the national language and is according to the requirements of EN 365.

The Marking of the product consists of:

- name of product
- type of product
- the EN standard
- the number of Notified Body
- the CE sign
- the year of production
- name of materials
- serial number
- reference to Information supplied by the manufacturer
- a trademark
- a test sheet for periodic inspections

The Packaging of the full body harness is made of a reusable coated synthetic fabric carrier-bag.

Summary:

The full body harness PTK-34 fulfils all the requirements according to EN 361:2002, EN 358:2000 and EN 813:2008 and the CE-directive 89/686/CEE.

Place and date of issue:
Vienna, 13.03.2013

The technical Experts:



DI Stefan Krähan



Head of Safety Technical Testing
Laboratory:



DI Klaus Wittig



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The statements in this test report refer to the sample submitted for examination.
With prototype tests the client has to inform the STP about all safety-relevant changes with the product, which are to be made.