	CO-ORDINATION OF NOTIFIED BODIES PPE Regulation 2016/425 **RECOMMENDATION FOR USE**	PPE-R/11.063 Version 2 *Update : in red*

Number of pages: 2	Approval stage :	Approved on :
Origin : Vertical Group 11 'Protection against Falls from a Height'	☒ Vertical Group ☒ Horizontal Committee ☒ EU PPE Expert Group	23/11/2022 31/05/2023 31/01/2024

Question related to ☒ PPE Regulation ☒ EN/prEN: EN355:2002 ☐ Other:

Article: Annex: Clause:

Key words:

Energy absorber - static test – dynamic test

Question:

What test method should be used to carry out test on energy absorber including an integral lanyard?

Solution:

Energy absorber including an integral (incorporated/ inseparable) lanyard shall be tested according to following methods:

Note 1 : Each test shall be performed using a new sample

Note 2: requirements apply to both fixed and adjustable lanyard

1. **Static-Test for incorporated lanyard/s energy absorbers**

If the energy absorber is incorporated in a lanyard, the lanyard part shall be tested according to EN 354:2010. art 4.5 (including all applicable conditionings)

Note 3: twin tail energy absorbers shall be 'c-c' tested according to 4.5 and 5.7.2.3 of EN 354:2010 (e.g. 22kN for textile lanyards) whatever the design (independent or linked tail)

2. **Static-Test – 3-points loading test for twin tail energy absorbers**

A 3-point test shall be performed starting with a situation as given in figure on the right. The legs shall be adjusted initially in line with no slack. For adjustable lanyards, legs shall be fully extended before the test. The energy absorbing element shall be positioned perpendicular to the line of the legs. A static load of 9 kN shall be applied for 3 minutes at the attachment point of the energy absorbing element while the attachment points of the twin tail lanyards are fixed. The energy absorbing element/twin tail lanyards-system shall sustain the static load.

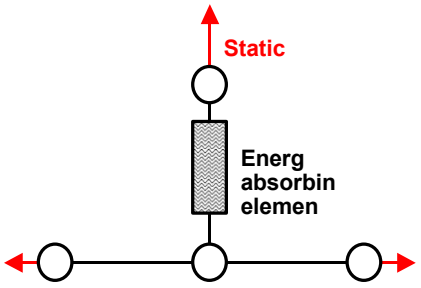

Figure: 3-point test with legs at start in line, perpendicular energy absorbing element

Note 4: The 9 kN test force is based on a safety factor of 1.5 on the 6 kN maximum force likely to be applied in use. Due to the force amplification effect in the legs, a 15 kN force is not considered necessary

3- Dynamic performance test on twin tail energy absorber with an energy absorbing element on each leg
In case of energy dissipating element in both legs, repeat the dynamic performance test (EN 355 article 5.2) by testing both legs together.
Requirement: same as EN 355:2002