	CO-ORDINATION OF NOTIFIED BODIES **PPE Regulation 2016/425** **RECOMMENDATION FOR USE**	PPE-R/11.150 Version 1

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Origin : Vertical Group 11 'Protection against Falls from a Height'	☒ Vertical Group 13/09/2023 ☒ Horizontal Committee 07/12/2023 ☒ EU PPE Expert Group 26/05/2024

Question related to ☒ PPE Regulation ☐ PPE Guidelines ☒ EN/prEN: : EN 17520:2021 ☐ Other:

Article: 5.2.5.2 Annex: Clause:

Key words:

EN 17520, Dynamic, adjustable personal belay lanyard

Question:

Context: article 5.2.5.2 (dynamic strength test on personal belay lanyard) of EN 17520:2021 (Self-belaying lanyards) could lead to different interpretations of the test methods for the 2nd and 3rd fall.

Question: which test method should be considered for these tests?

Solution:

Reference documents: TC136/WG5/N1374 (presentation of the question) and TC136/WG5/N1383 (unanimous approval by WG5 members of the interpretation 1 of N1374 during the 11-12 May 2023 meeting)
Note: text in italic: extract of EN 17520.

EN 17520 :2021 Art. 5.2.5.2

Attach the end termination intended for connection to the harness to the falling mass as described in the manufacturer's instructions and information (e.g. lark's foot) and the opposite end termination to the anchor point. Adjust it to the length L as measured in 5.2.3.
Load the test sample with the falling mass as a static load for a period of (60 ± 5) s.
VG11' note: applicable for the 1st fall only

1) 1st drop: Within (120 ± 15) s, raise the mass to a height of 2 × L. Release the mass. Record the peak force.
VG11's note: due to the preloading the lanyard is longer than L. So, the mass is raised of 2xL but will be released less than L from the anchor

2) 2nd drop: Within (5 ± 0,25) min, adjust the personal belay lanyard to (80 ± 2) % of its maximum length L as measured in 5.2.3 and raise the mass to a height of 1,6 × L. Release the mass. Record the peak force only for the 1st drop.
VG11: the position of the mass after the 1st fall does not need to be considered for the 2nd fall.
Process to follow:

1. after the 1st fall, lift the mass to unload the lanyard (enough to adjust to 0,8xL)
2. Adjust the length to 0,8xL (by passing the lanyard through the adjuster). (reminder: L is measured in 5.2.3 so under 10kg not 80kg)
3. Raise the mass to a height of 1,6xL (defined as 2 times the length of the adjusted lanyard)
4. Release the mass

Note: by this the extension under 80kg after the 1st fall is not considered in the 2x0,8xL as this is only required for 1st fall (see the EN text before the 1st fall).

*3) 3rd drop: Within (5 ± 0,25) min, raise the mass to a height of 2 × **L** with adjustable personal belay lanyard adjusted to the maximum length **L** as measured in 5.2.3. Release the mass.*
VG11: same principle as for the 2nd fall:
Process to follow:

1. after the 2nd fall lift the mass to unload the lanyard
2. Adjust the length to L (by passing the lanyard through the adjuster). (reminder: L is measured in 5.2.3 so under 10kg not 80kg)
3. Raise the mass to a height of 2xL (defined as 2 times the adjusted lanyard)
4. Release the mass