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EN 12841 type A, dynamic strength, test method

Question:

During the dynamic strength test on type A rope adjustment devices, art. 5.6.3, shall we let the rope adjustment device slips when lifting the test mass (see figure 8)?

Note the solution follows the proposal from TC160/WG3 sent to the VG11 convenor

No.

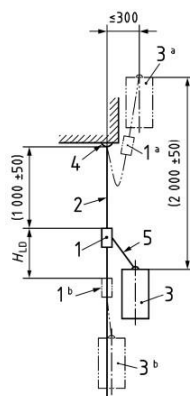
The following procedure shall be followed for all types A of rope adjustment devices:

1. The rope adjustment device shall be blocked at the level of the initial mark to achieve a 2 m free-fall.
2. The blocking shall be achieved by using a figure of eight knot, tightened with a load of $(100 \pm 1/-0)$ kg for $(60 \pm 0/-0)$ s.
3. The lowest point of this knot shall be (1000 ± 50) mm below the anchor point.

All other requirements of article 5.6.3 apply

Copy of Figure 8:

Dimensions in millimetres



Key

- | | | | |
|----|---|----------|---|
| 1 | rope adjustment device | 3a | raised position of the rigid steel mass |
| 1a | raised position of the rope adjustment device | 3b | final position of the rigid steel mass |
| 1b | final position of the rope adjustment device | 4 | anchor point |
| 2 | pre-tensioned anchor line | 5 | connecting element |
| 3 | rigid steel mass | H_{LD} | locking distance |

Figure 8 — Dynamic strength test for Type A rope adjustment devices