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Test Report

Material: Model no. 501-113S196 200L B, electrically operated lift table.
Lab. no. 040411.
Length 2,000 mm. Width 800/1,200 mm. Height 650/1,200 mm.
22 mm tabletop. 2 two-piece telescopic columns, out of which one is equipped with an actuator and the other is operated via a connecting rod and gear wheel.
The model has been selected by the client as being the most critical one (largest tabletop, largest overhang etc.) from the furniture series; the testing thus covers the entire series.

Sampling: The test material was sampled by the client and received at the Danish Technological Institute week 46, 2004.

Method: EN 527-2:2002 Office furniture - Worktables and desks. Mechanical safety requirements clause 3.
EN 527-3:2003 Office furniture - Work tables and desks - Part 3: Methods of test for the determination of the stability and the mechanical strength of the structure
The testing included the following clauses:
5.1.2.1 – 5.2.2 – 5.3.2 – 5.4.2 – 5.5.2 – 5.6.2

Period: The testing was carried out from week 46 to week 48, 2004.

Result: Model no. 501-113S196 200L B has been subjected to the above testing. According to the results stated in Appendix 1, the table satisfies the requirements of EN 527-2:2002 and EN 527-3:2003. Part results appear from Appendix 1.

Storage: The sample will be destroyed after 2 months, if nothing else has been agreed in writing.

Terms: The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

2004-11-22, Danish Technological Institute, Timber, Taastrup

Poul Køhl

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EN 527-2:2002

3. General Construction Requirements

Edges and corners have been rounded or chamfered.
The tabletop front edge has been rounded with minimum 2 mm radius.
Minimum risk of damages and erroneous handling at moveable or adjustable parts.
Safety distance between moveable or adjustable parts is ≤ 8 mm or ≥ 25 mm.
Control lever is so designed that fingers cannot be caught.
The ends of hollow components are closed.

Test result: Satisfy the requirements

EN 527-3:2002

5.1.2.1. Stability under Vertical Loading

Height adjustable tables are positioned in highest position, max. 800 mm. Adjusting screws are positioned at 0 mm. The vertical load is applied 50 mm from the outer edge of the tabletop, where the loading most probably will make the table tilt. Loading 750 N.

Test result: Satisfies the requirements

5.2.2 Vertical Static Loading

The tabletop is loaded vertically with a flat load plate Ø 100 mm, edge radius 12 mm anywhere on the top that is likely to cause a failure, at the table edge 50 mm from the edge, with 1,000 N, 10 times of 10 sec.

Test result: Satisfies the requirements

5.3.2 Horizontal Static Loading

Height adjustable tables are placed in highest position, max. 800 mm. Adjusting screws are positioned at 10 mm. The set of legs of the short side of the table is restrained by stops. The table is loaded centrally in turns on both short sides with 450 N, 10 times of 10 seconds. The above is repeated on the long sides of the table, but with one set of legs of the long side restrained by stops. If the table during loading tends to tilt, the loading is reduced until the table is stable and the loading applied is recorded.

Test result: Satisfies the requirements

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5.4.2 Horizontal Durability Testing

Height adjustable tables are placed in highest position, max. 800 mm. Adjusting screws are positioned at 10 mm. The legs of the table are restrained by stops. The tabletop is loaded cyclically with 300 N horizontally in turns in the two directions (a-b), 50 mm from the corners, totally 5,000 cycles and in two directions (c-d), totally 5,000 cycles. The tabletop is loaded vertically (max. 100 kg), until the table no longer rise when loaded horizontally. If the table still tends to tilt, the horizontal loading is reduced, and the loading applied is recorded.

Test result: Satisfies the requirements

5.5.2 Vertical Durability Testing

Height adjustable tables are placed in highest position, max. 800 mm. Adjusting screws are positioned at 10 mm. Load the table with a flat load plate Ø 100 mm, edge radius 12 mm anywhere on the top that is likely to cause a failure with 400 N, 10,000 cycles with a frequency of max. 10 cycles per minute.

Test result: Satisfies the requirements

5.6.2 Drop Testing

Height adjustable tables are placed in lowest position. Adjusting screws are positioned at 10 mm. Drop height according to table 7. The set of legs of the long side of the table is raised to the actual drop height and dropped, totally 5 cycles. The test is repeated to the other end of the table.

Test result: Satisfies the requirements

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