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## Testing of writing boards for educational institutions according to EN 14434:2010

(3 appendices)

<b>Customer:</b>	Abstracta AB
<b>Test object/ID:</b>	Whiteboard/Uniti
<b>Test method:</b>	EN 14434:2010 Writing boards for educational institutions – Ergonomic, technical and safety requirements and their test methods
<b>Test environment:</b>	23 ± 2°C and 50 ± 5% relative humidity
<b>Scope:</b>	Not included in test: Clause 7. Surface tests and requirements for whiteboards Clause 8. Surface tests and requirements for chalkboards
<b>Date of test:</b>	2021-02-02 – 2021-02-10
<b>Test result:</b>	The tested object passed the test
<b>Reservation:</b>	The test results in this report apply solely to the specimen tested

### RISE Research Institutes of Sweden AB Building Technology - Wood Technological Assessment

Performed by

Examined by

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### Appendices

1. Test result (2 pages)
2. Description of test object (1 page)
3. Pictures (1 page)

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Appendix 1

**Test result**

Abbreviations: N/A = Not applicable  
N/T = Not tested

Table 1

1.	General requirements	EN 14434	Req. fulfilled
1.1	No part of the board shall constitute a risk of injury to the user during normal use. The board shall be such that damages to clothing and soiling are avoided during normal use	6.1	Pass
1.2	All accessible edges and corners shall be rounded or chamfered and shall have no burrs. Hollow ends shall be capped or otherwise closed	6.1	Pass
1.3	Safety distance between parts moving relative to each other shall always be less than 8 mm or more than 25 mm in any position during movement a) Shear and pinching points, which are held apart by rubber or plastic buffers are exempt from this requirement provided that the gap produced by the buffer is at least 25 mm. b) For winged boards, the gap between two parts of the board is exempt from this requirement. c) For vertically sliding boards (sash boards, to and fro boards), where there is a risk of entrapment, the requirement is applicable except between the boards. The gap between the boards shall be at least 25 mm	6.1	N/A
1.4	For vertically sliding boards (sash boards, to and fro boards), there shall be at least 120 mm from the floor to the board if no front protection is provided	6.1	N/A
1.5	It shall not be possible to remove detachable parts inclusive end caps without the use of a tool	6.1	N/A
1.6	No part attached to the rail system shall be detached unintentionally	6.1	N/A
1.7	Counterweight mechanisms shall not be accessible during normal use	6.1	N/A
1.8	It shall not be possible to operate controls inadvertently or accidentally	6.1	N/A
1.9	If castors are provided as means of mobility, at least half of them shall be lockable	6.1	Pass

Table 2

2.	Stability (This requirement is only applicable to mobile boards)	EN 1023-3	Req. fulfilled
2.1	Forwards overbalancing	6.1	Pass

Appendix 1

Table 3

3.	General requirements	EN 14434	Req. fulfilled
3.1	Vertical downwards static load for rail based systems and horizontally sliding boards , 750 N/ 1h	9.1.1	N/A
3.2	Vertical downwards static load for winged boards and pivoting boards, 750 N/1h	9.1.2	N/A
3.3	Vertical downwards static load for all prominent parts e.g. hooks, trays and map holders of all types of boards, 250 N/1h	9.1.3	N/A
3.4	Vertical upwards static load, 200 N (this test is only applicable to rail based systems)	9.1.4	N/A
3.5	Durability: Rail based systems, 15000 cycles	9.2.1	N/A
3.6	Durability: Boards with rotating parts, 15000 cycles	9.2.2	N/A
3.7	Durability: Sliding boards with transmission elements, 25000 cycles	9.2.3	N/A
3.8	Durability: Power operated sliding boards, 25000 cycles	9.2.4	N/A
3.9	Test of rigidity, 300 N/ 1000 cycles (this test is only applicable to mobile boards)	9.3	Pass
3.10	Test of stops on manually operating sliding boards	9.4	N/A
3.11	Surface deflection 50 N	9.5	Pass
3.12	Ergonomic requirements, position of controls and handles Switches: Between 750 mm and 1 200 mm from the floor Handles: Between 900 mm and 1 200 mm from the floor Handles or similar devices, which are to be used to pull or push vertically: Between 600 mm and 2 000 mm from the floor	10.1	N/A
3.13	Ergonomic requirements, operating forces Operating by using a finger: 5 N Operating by using a hand: 105 N Operating by using a foot: 300 N Operating by turning a knob: 1.9 Nm.	10.2	N/A
3.14	Requirements for moving forces: Starting force, max 160 N Force required to keep the board moving, max 85 N	10.3	Pass <sup>1</sup>
3.15	Installation instructions	12	Pass
3.16	Product information	13	Pass

<sup>1</sup> Starting force <25 N, Moving force < 12 N

## Appendix 2

**Description of test object**

Test object ID: Whiteboard/Uniti

**Dimensions**

Width: 3018 mm  
Thickness/depth: 15/710 mm  
Height: 1980 mm  
Mass: 49.5 kg

**Components**

Type of board: Mobile writing board  
Frame: 40x20 mm metal tube  
Legs: 40x20 mm metal tube  
Castors: Ø 100 mm

Sampling: The test object was selected by the customer  
Date of arrival at RISE test laboratory: 2020-12-18  
Observed defects before testing: No defects

## Appendix 3

## Pictures



Figure 1



Figure 2

Appendix 3



Figure 3



Figure 4