

# TECHNICAL REPORT



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For the attention of Mr Michael Braithwaite

### SAMPLES FOR TEST

Samples for test:  
Laminate HPL Whiteboard  
White laminate faced fibreboard , aluminium extrusion frame, plastic insert corners.

### TEST REQUIREMENT AND SUMMARY OF RESULTS

BS EN 14434: "Writing boards for educational institutions – Ergonomic, technical and safety requirements and their test methods".  
Incorporating revision changes in prEN 14434:2008 (2008-09) (Revised and update edition of the current published 2004 standard).

Clause	Test	Result
Clause 7	Surface tests and requirements for whiteboards	
7.2	Ability to write and erase	PASS
7.3	Scratch	PASS
7.4	Staining	PASS
7.5	Colour degradation (xenon arc light)	PASS
6	General Safety Requirements	PASS

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## PART A- SURFACE TESTS FOR WHITEBOARDS RESULTS: LAMINATE HPL WHITEBOARD

METHOD 7.2: ABILITY TO WRITE AND ERASE			
Revs	After Dry Cleaning	After Wet Cleaning	STATUS
500	No visible pen marks (5)	No visible pen marks (5)	PASS levels 1,2 and 3
1000	No visible pen marks (5)	No visible pen marks (5)	PASS levels 1,2 and 3
2000	No visible pen marks (5)	No visible pen marks (5)	PASS levels 1,2 and 3
<b>COMMENTS</b>			
Revs- indicate the number of revolutions that the test panel surface was abraded with a CS10 taber abrasion wheel. No visible red pen marking was evident over the wear tested areas after dry and wet cleaning and hence the test areas were rated 5 – no visible change. The sample therefore meets all test 'levels 1, 2 and 3' as defined in BSEN 14434.			
Note: the marker pen defined in prEN14434:2008 is 'red alcohol, acrylic tipped dry marker'. The pen used in test was that supplied by 'Teacherboards' reference - White Board Marker Centropen art number 8569, dry wipe non-toxic (approximately 5mm wide bevel tip).			

CLAUSE 7.3: SCRATCH TEST		
Minimum Load (Newtons)	Rating	STATUS
4N continuous scratch	3	PASS levels 1 & 2

CLAUSE 7.4: STAINING					
Staining Agent	Group	Procedure	Uncovered Rating	Covered Rating	STATUS
Acetone	1	A	5	5	PASS levels 1,2 & 3
Ethanol (96%)	1	A	5	5	PASS levels 1,2 & 3
Grease Remover	1	A	5	5	PASS levels 1,2 & 3
Ball Pen Ink	2	A	5	5	PASS levels 1,2 & 3
Fountain Pen Ink	2	A	5	5	PASS levels 1,2 & 3
Cleaning Agent	1	A	5	5	PASS levels 1,2 & 3
Permanent Marker Ink	2	A	5	5	PASS levels 1,2 & 3
No visible staining of the surface finish occurred and hence rated 5 – no visible change. The sample therefore meets level 1, 2 and 3.					
EN 14338 does not define some of the agents /solutions precisely- FIRA used the following:					
Grease Remover – window cleaner.					
Cleaning agent – 'cleaning solution' defined in BSEN 438:2005 clause 26.2 23% dodecylbenzene sulfonate, 10% alkyl aryl polyglycol ether, 67%water. However to comply with detergent regulations the following nearest equivalent solution was used - : Hostapur SAS-60- 38%, Genapol X080- 10%, Water to 100%. This formulation is considered to give similar detergency.					

CLAUSE 7.5: COLOUR CHANGE - XENON ARC LIGHT		
Specimen Contrast	Rating	STATUS
Greyscale rating	5 no visible change	PASS levels 1,2 & 3
Blue scale	Better than blue wool 6	PASS levels 1,2 & 3

CLAUSE 6: GENERAL SAFETY REQUIREMENTS	
The submitted board was a simple frame and panel construction. No sharp edges around frame , aluminium and plastics satisfactorily rounded, no pinching points	PASS

REPORT BY: L PRICE & V TAYLOR

*V. Taylor*

APPROVED BY: V TAYLOR (SECTION HEAD- MATERIALS TECHNOLOGY)