

ISO 16000-23:2009-12 (E)

Indoor air - Part 23: Performance test for evaluating the reduction of formaldehyde concentrations by sorptive building materials

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	4
5	Principle	5
6	Apparatus and materials	5
7	Test conditions	6
7.1	General	6
7.2	Test conditions for concentration reduction performance determination	7
7.3	Factors affecting the concentration reduction performance	8
8	Verification of test conditions	8
8.1	Monitoring of test conditions	8
8.2	Air tightness of test chamber	8
8.3	Air change rate in test chamber	8
8.4	Efficiency of the internal test chamber air mixing	9
8.5	Recovery	9
9	Preparation of test chamber	9
10	Preparation of test specimens	9
11	Test methods	9
11.1	Background concentration and spiked supply air	9
11.2	Placing the test specimen in the test chamber	9
11.3	Time intervals for measurement of test chamber concentration	10
11.4	Air sampling	10
12	Determination of formaldehyde	10
13	Expression of results	11
13.1	Calculation of sorption flux	11
13.2	Calculation of equivalent ventilation rate per area	11
13.3	Calculation of total mass per area of sorption and saturation mass per area	11
14	Test report	11
Annex A (normative) Sample tube test for long-term reduction performance		14
Annex B (normative) System for quality assurance and quality control		18
Annex C (informative) Example measurements of construction materials		20
Annex D (informative) Long-term reduction performance (example procedure)		25
Bibliography		28