

ISO 24473:2008-04 (E)

Fire tests - Open calorimetry - Measurement of the rate of production of heat and combustion products for fires of up to 40 MW

Contents		Page
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Principle	2
5	Hood and exhaust duct	3
5.1	Requirements of the hood/duct and extraction system	3
5.2	Laboratory requirements	3
6	Instrumentation of the exhaust duct	3
6.1	General	3
6.2	Volume flow rate	3
6.3	Gas temperature	4
6.4	Gas analysis	4
6.5	Optical density	5
7	Additional equipment and procedures	5
7.1	Weigh platform	5
7.2	Heat flux measurements	5
7.3	Data recorder	6
7.4	Timing device	6
8	Heat and smoke release measurement	6
9	Experimental arrangements	6
10	Ignition sources	6
10.1	General	6
10.2	Calibration of gas burners	7
11	System performance	7
11.1	HRR measurement confirmation	7
11.2	System response	8
11.3	Precision	8
12	Reliability of data	8
13	Preparation of test specimens	8
14	Testing	9
14.1	Initial conditions	9
14.2	Procedure	9
15	Test report	10
Annex A (informative) Design of the hood and exhaust system		11
Annex B (informative) Instrumentation of the exhaust duct		16
Annex C (informative) Procedure for checking the stability of the oxygen analyser		18
Annex D (informative) Light measuring systems		19

Annex E (informative) Calculations	21
Annex F (informative) Ignition sources	25
Annex G (normative) Specific procedure for testing upholstered furniture	27
Annex H (informative) Repeatability and reproducibility	29
Bibliography	30