

Contents	Page
1 Introduction.....	1
1.1 United States.....	1
1.2 Canada.....	1
1.3 Testing conditions.....	1
2 Scope.....	1
3 Definitions.....	2
3.1 Normally charged.....	2
3.2 Cylinder orientation.....	2
3.3 Full exposure to the fire.....	2
3.4 Equipped as it would be for transportation and use.....	2
3.5 Rupture.....	2
4 When fire testing is required.....	2
5 Selection of systems and methods for testing.....	2
6 Preparation of systems for testing.....	3
7 Chimney test method.....	4
7.1 Equipment capabilities.....	4
7.2 Typical apparatus.....	4
7.3 Recording of design and performance characteristics.....	4
7.4 Burn rates.....	4
7.5 Insulation of exterior wall.....	4
7.6 Design of apparatus.....	4
7.7 Calibration of apparatus.....	5
7.8 Monitoring temperatures.....	5
8 Wood bonfire test method.....	5
8.1 Securing the cylinder.....	5
8.2 Bonfire design.....	5
8.3 Kerosene.....	5
8.4 Wind shield.....	5
8.5 Fire capabilities.....	5
9 Test procedure.....	6
10 Acceptance criteria for chimney and bonfire tests.....	6
11 References.....	6

Appendices

Appendix A—Burner and ignition system for chimney fire test (Normative).....	8
Appendix B—Method B (Normative).....	19

Appendices figures

Figure A1—Isometric view of fire test apparatus assembly.....	9
Figure A2—Chimney assembly.....	9
Figure A3—Top assembly for 8-in (20.3-cm) diameter cylinders.....	10
Figure A4—Top assembly for 12-in (30.5-cm) diameter cylinders.....	10
Figure A5—Draft deflector for 12-in (30.5-cm) diameter cylinders.....	11
Figure A6—Draft deflector for 8-in (20.3-cm) diameter cylinders.....	11
Figure A7—Center assembly.....	12
Figure A8—Cylinder stand.....	12

Figure A9—Bottom wind deflector.....	13
Figure A10—Base.....	13
Figure A11—Secondary wind deflector.....	14
Figure A12—Gas flow deflector.....	14
Figure A13—Gas flow deflection.....	15
Figure A14—Wheel-type burner unit with base and fire brick cylinder support installed.....	15
Figure A15—Burner unit with secondary wind deflector installed.....	16
Figure A16—Spark igniter installed through base assembly.....	16
Figure A17—Center chimney assembly installed.....	17
Figure A18—Top chimney section and downdraft deflector installed.....	17
Figure A19—Lower insulation, two flue gas and two cylinder surface thermocouples, spark igniter, and propane fuel line installed.....	18
Figure B1—Wood bonfire test method A.....	19
Figure B2—Wood bonfire test method B.....	20