

Contents

1	Background and Introduction	1
1.1	Problem Statement, Project Objectives and Tasks	1
1.1.1	Problem Statement	1
1.1.2	Project Objectives	2
1.1.3	Tasks	2
1.2	Additional Tasks	2
1.3	Research Direction and Observations	3
2	Information Search	5
2.1	Representative Fire Incidents	5
2.2	Selected Resources Related to Fire and Green Building Concerns	8
2.3	International Survey and Responses	11
2.4	Review of Representative Green Building Rating Schemes for Fire Considerations	11
3	Green Building/Site Elements and Attributes	15
4	Attributes of Green Building or Site Which Could Impact Fire, Life Safety, Building or Fire Service Performance	17
5	Hazard/Risk Assessment and Ranking	19
5.1	Detailed Matrices of Green Building Elements/Features and Hazard/Risk Factors	21
5.2	Tabular Representation of Potential Fire Hazards with Green Building Elements	23
5.3	Fire Hazards Associated with Green Rating Schemes and Codes	23
6	Summary and Conclusions	29
	Appendix A: Informational Resources	33
	Appendix B: Representative Fire Issues and Mitigation Approaches	43

Appendix C: International Survey and Responses 57

**Appendix D: Detailed Matrices of Green Elements
and Potential Fire Hazards 63**

**Appendix E: Illustration of Relative Hazard Ranking
with Detailed Matrix 67**

**Appendix F: Tabular Representation of Fire Hazards
with Green Building Elements. 71**

**Appendix G: Assessment of LEED, BREEAM, GREENMARK
and the IgCC for Fire Safety Objectives 81**

References 83

<http://www.springer.com/978-1-4614-8141-6>

Fire Safety Challenges of Green Buildings

Meacham, B.; Poole, B.; Echeverria, J.; Cheng, R.

2012, XII, 83 p. 27 illus., Softcover

ISBN: 978-1-4614-8141-6