

Asbestos Control: Surveys, Removal, and Management—Second Edition

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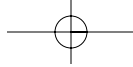
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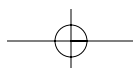
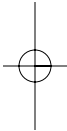
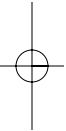
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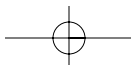
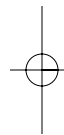
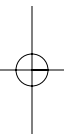
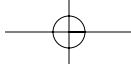


Foreword

THIS PUBLICATION, *Asbestos Control: Surveys, Removal, and Management-Second Edition*, was sponsored by ASTM Committee E06 on Performance of Buildings. The author is

Andrew F. Oberta, The Environmental Consultancy, Austin, TX. This is the second edition of Manual 23 in ASTM's manual series.





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Preface to the Second Edition

THE FIRST EDITION OF this book, titled “*Manual on Asbestos Control—Removal, Management and the Visual Inspection Process*” was published in November 1995 and as the title indicates, the emphasis was on the use of ASTM Standard Practice for Visual Inspection of Asbestos Abatement Projects (E 1368). The book reflected asbestos regulations then in effect and current practices and problems in the asbestos control industry. It contained examples and illustrations from my own then-recent experiences.

That was then and this is now. While the first edition of the *Manual* was in preparation the U.S. Environmental Protection Agency (EPA) revised the Model Accreditation Plan [1] and the Occupational Safety and Health Administration (OSHA) issued completely new asbestos regulations for the construction industry and for general industry [2]. EPA revised the Asbestos Worker Protection Rule [3] that brings government agency employees in certain states under the OSHA asbestos regulations. However, the EPA AHERA regulations have not been updated since they were published in 1987 [4], nor has the NESHAP been revised since 1990 [5]. Since that time, various states have issued or revised their own asbestos regulations. Although these efforts are too numerous to document, they are extremely important nonetheless. Over 30 countries throughout the world have existing or pending bans on the use of asbestos [6]; unfortunately, no such a ban exists yet in the United States.

The preface to the first edition noted that the asbestos control industry of the early 1990s had “matured” in the sense that techniques had become fairly standardized, a regulatory framework was in place and the revolving door of contractors, consultants, training providers and laboratories had slowed down. That remains the situation ten years later. Building owners are, for the most part, knowledgeable about asbestos control, they know their budgetary limitations, and they have established relationships with the suppliers of services on whom they depend to do the work. The technology of asbestos control has stabilized as well. Air and bulk sample analysis by Transmission Electron Microscopy (TEM) is now routine and affordable, as is dust sampling and analysis. But asbestos-containing material (ACM) is still removed the same way it has been for over 20 years in a labor-intensive process with strict controls on fiber release and contamination.

ASTM International has remained active in the development of standards for the asbestos control field. Task Group E06.24.03 on Asbestos Management remains responsible for ASTM E 1368, which has been revised seven times since its original publication in 1990. ASTM Standard Practice for Comprehensive Building Asbestos Surveys (E 2356) and ASTM Standard Practice for Maintenance, Renovation and

Repair of Installed Asbestos Cement Products (E 2394) have recently been published and are discussed in this edition of the *Manual*. Subcommittee D22.07 on Asbestos Sampling and Analysis has published three test methods for settled dust: D 5755 [7] and D 5756 [8] on the microvacuum method and D 6480 on wipe sampling [9].

These ASTM standards represent the efforts of many people over the past 25 years, not only the ASTM members and others who participated in the development of the standards but also those in the greater community of the asbestos control field whose activities influenced the standards. This collective experience thus provides the technical foundation for this *Manual*, whose primary purpose is to facilitate the use of the standards.

Although this *Manual* draws on this broad foundation embodied in the standards, the examples and illustrations herein are almost entirely from my own experience. This book is not the result of a literature search, nor is it a collection of anecdotes from my colleagues. Consequently, any errors or inaccuracies are my responsibility and mine alone.

I would like to express my gratitude to the people who participated in the original development of ASTM E 1368 and to its subsequent revisions as well as to those, in particular, Bill Cavness and Tod Dawson—who contributed to the development of ASTM E 2356. Appreciation is also due to Alan Winterfeldt, Chairman of Subcommittee E06.24, for his continued support, and to Steve Mawn, ASTM Staff Manager for Committee E06 on Performance of Buildings. Finally, I would like to recognize my co-instructors in the *Standards for Asbestos Control* courses: Mike Beard, Steve Hays, Bill Ewing and Jim Millette, as well as Scott Murphy, manager of the ASTM Technical and Professional Training, for his support.

I also wish to thank Mary McKnight, who chaired the Peer Review Committee, and those reviewers (who must remain anonymous by ASTM policy) who took their valuable time to read the draft of this revision and offer their detailed and insightful comments. Finally, I wish to thank Kathy Dernoga and the other ASTM staff members for all of their hard work for this publication to come to fruition.

Probably the most gratifying comment about the first edition of the *Manual* came from a lawyer, of all people. She told me that, in addition to learning a lot about the subject, she enjoyed reading the book. If you have the same reaction to this edition, then my efforts have been rewarded.

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- [9] D 6480 Standard Test Method for Wipe Sampling of Surfaces, Indirect Preparation, and Analysis for Asbestos Structure Number Concentration by Transmission Electron Microscopy.