RESIDENTIAL FIRE SPRINKLER SYSTEMS

Design, Installation and Code Administration
Preface

Beginning with the 2009 edition, the *International Residential Code*® (IRC®) requires one- and two-family dwellings and townhouses to be protected with residential fire sprinkler systems. This book was written to assist code officials, contractors and designers in complying with these requirements.

IRC Section R313 contains the general requirements and exceptions to fire sprinklers, and Section P2904 contains the specific design and installation requirements for residential fire sprinkler systems. Section P2904 also provides readers with a way to manually verify that water supplies are adequate. Residential fire sprinkler systems that are installed in accordance with those requirements are considered to be equivalent to systems installed in accordance with Standard 13D of the National Fire Protection Association (NFPA®).

The IRC also accepts residential fire sprinkler systems that are installed in accordance with NFPA 13D; therefore this book covers those requirements as well. All of the references to NFPA 13D are for the 2007 edition titled, *Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes*.

This publication is unique in that it provides specific design, installation, application and enforcement information on residential fire sprinkler systems using numerous graphics, photos, examples and real world applications. The result is an easy to comprehend though in-depth coverage of the subject. The full-color format adds great value to the outstanding technical content.

The citations of requirements in IRC Section P2904, NFPA 13D or other documents are for descriptive and illustrative purposes only. Consequently, this book should be used as an adjunct to those documents. Likewise, the drawings and photographs in this book are for illustrative purposes only. They are not necessarily to scale and may not represent local requirements that jurisdictions enforce in addition to IRC Chapter 29 or NFPA 13D. Readers are cautioned to check with local code officials and water purveyors for specific design and installation requirements.
Acknowledgments

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Pat Coughlin
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