



# Guidelines To Assess Hail Damage To Shingle Roofs

**Sidney H. Greenfeld**



## **Guidelines To Assess Hail Damage To Shingle Roofs:**

*Forensic Engineering* Stephen E. Petty, 2021-09-23 Serving as a comprehensive resource that builds a bridge between engineering disciplines and the building sciences and trades *Forensic Engineering Damage Assessments for Residential and Commercial Structures* Second Edition provides an extensive look into the world of forensic engineering Focusing on investigations associated with insurance industry claims the book describes methodologies for performing insurance related investigations including the causation and origin of damage to residential and commercial structures and or unhealthy interior environments and adverse effects on the occupants of these structures Edited by an industry expert with more than 40 years of experience and contributors with more than 100 years of experience in the field the book takes the technical aspects of engineering and scientific principles and applies them to real world issues in a nontechnical manner The book provides readers with the experiences investigation methodologies and investigation protocols used in and derived from thousands of forensic engineering investigations **FEATURES** Covers 24 topics in forensic engineering based on thousands of actual field investigations Provides a proven methodology based on engineering and scientific principles experience and common sense to determine the causes of forensic failures pertaining to residential and commercial properties Includes references to many codes standards technical literature and industry best practices Illustrates detailed and informative examples utilizing color photographs and figures for industry best practices as well as to identify improper installations Combines information from a multitude of resources into one succinct easy to use guide This book details proven methodologies based on over 10 000 field investigations in which the related strategies can be practically applied and appreciated by both professionals and laymen alike *Insurance Advocate* ,1975 *Texas Forest News* ,1981 *Popular Science* ,1983-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **TF News** ,1980 **Hail Resistance of Roofing Products** Sidney H. Greenfeld,1969 A test was developed for evaluating the hail resistance of roofings in which synthetic hailstones ice spheres of various sizes were shot at roof assemblies at their free fall terminal velocities Indentations granule loss and roofing fracture were observed The principal conclusion is that All roofing materials have some resistance to hail damage but as the size of the hail increases a level of impact energy is reached at which damage occurs This level lies in the range of 1 1 2 to 2 inch 3 8 5 1 cm hailstones for most prepared roofings Author *Popular Mechanics* ,2003-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Popular Mechanics* ,1964-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology

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Better Homes and Gardens ,1990      *Developing a Test Method for a Very Severe Hail Rating for Low Slope Roofing Assemblies* Daniel E. Brown,Daniel A. Boardman,2015 Increased property damage from hail impact has become more common in recent years with a majority of the damage occurring to roofs To help address this concern a very severe hail VSH rating for low slope roofing is being developed This work is being done using a modified version of the existing test method described in ANSI FM 4473 American National Standard for Impact Resistance Testing of Rigid Roofing Materials by Impacting with Freezer Ice Balls During this first phase of development samples of single ply built up and modified bitumen low slope roof assemblies were subjected to impacts from 2 0 in 51 mm diameter freezer ice balls with impact energies between 23 75 and 26 13 ft lbf 32 2 and 35 5 J These impact energies are nearly double the 14 95 ft lbf 19 J kinetic energy delivered by the 2 0 in 51 mm diameter steel balls currently used in the severe hail rating test in FM Approvals Standard Number 4470 Of utmost importance to this study was evaluating the appropriateness of using freezer ice balls with the less rigid materials more commonly found in low slope roofing Following the procedures in ANSI FM 4473 each impact location was subjected to two ice ball impacts Samples were impacted at seam locations over metal plates where applicable and in the field of the roof sample in order to determine if any currently FM approved severe hail rated roofing assemblies could meet the pass criteria The samples were evaluated for surface cracking and damage as well as for damage to the substrate insulation or coverboard Although the validity of using ice balls for impacting roofing samples has previously been demonstrated the testing conducted in this study has shown the ability of ice balls to be used in granting a more severe hail rating than is currently available for low slope roofing      *Hail Resistance of Roofing Products* Sidney H. Greenfeld,1969 A test was developed for evaluating the hail resistance of roofings in which synthetic hail stones ice spheres of various sizes were shot at roof assemblies at their free fall terminal velocities Indentations granule loss and roofing fracture were observed The following conclusions have been made from these results All roofing materials have some resistance to hail damage but as the size of the hail increases a level of impact energy is reached at which damage occurs This level lies in the range of 1 1 2 to 2 inch 3 8 5 1 cm hailstones for most prepared roofings Because of the ways in which prepared roofings are applied most products have areas of different vulnerability The solidly supported areas of roofing tend to be the most resistant to hail damage Heavier shingles tend to be more hail resistant than Type 235 shingles Weathering tends to lower the hail resistance of asphalt shingles Built up roofs on dense substrates tend to resist hail better than those on soft substrates Built up roofs made with inorganic felts tend to be more hail resistant than those made with organic felts Coarse aggregate surfacing tends to increase the hail resistance of roofing      *Installation, Care, and Maintenance of Wood Shake and Shingle Roofs* ,2011 This article gives general guidelines for selection installation finishing and maintenance of wood shake and shingle roofs The authors have gathered information from a variety of sources research publications on wood

finishing technical data sheets from paint manufacturers installation instructions for shake and shingle roofs and interviews with experts having decades of experience in constructing and inspecting shake and shingle roofs Where possible recommendations are based on research results however some information is determined from practical experience installing shake and shingle roofs More detailed information is available from shake and shingle suppliers and the Cedar Shake and Shingle Bureau CSSB Note Installation instructions contained herein are not intended to supercede local building codes

**Hail Damage to Red Cedar Shingles** American Insurance Association. Property Claim Services,1975 **NRCA Guidelines for Asphalt Shingle Roof Systems** National Roofing Contractors Association,2014-01-01 A must have for anyone involved with asphalt shingles this new publication gives you NRCA s best practice guidelines for designing installing and repairing asphalt shingle roof systems Get your copy and make sure all your jobs involving asphalt shingles are problem free

**Good Application Makes a Good Roof Better: A Simplified Guide: Installing Laminated Asphalt Shingles for Maximum Life & Weather Protection** ARMA Asphalt Roofing Manufacturers Association,2016-03-29 This booklet is intended as a general guide for the installation of laminated asphalt roofing shingles Laminated shingles contain more than one layer of material to create extra thickness Laminated shingles may also be called architectural shingles or three dimensional shingles For more detailed information on the installation of asphalt shingles and other types of asphalt roofing products refer to the ARMA Residential Asphalt Roofing Manual which can be ordered on ARMA s website [www.asphaltroofing.org](http://www.asphaltroofing.org)

*Is Your Home Protected from Hail Damage?* Institute for Business & Home Safety,Institute for Business and Home Safety Staff,1999-04-01 *Wind and Hail Damage to Asphalt Shingles in Iowa ...* Roger Myron Cleveland,1948

**Composition Roofs Damage Assessment Field Guide** Haag Education Co.,2006-08 Haag s Composition Roofs Damage Assessment Field Guide has large detailed photos and informative explanations of damage and issues to tile roofs Discusses manufacture and installation weathering hail and wind damage and mechanical damage

**Asphalt/composite Shingle Roof System : Construction Guideline** Blue Sky Foundation of North Carolina,2000

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