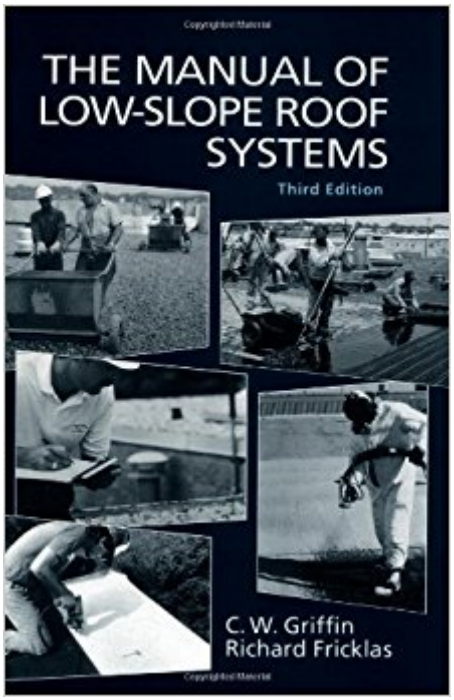
Manual Of Low-Slope Roof Systems



Synopsis

This edition has been updated to provide information on pertinent changes in applicable building codes, including recommendations stemming from Hurricane Andrew. It covers all major types of flat, multi-ply, built-up roofing systems that are typically used on commercial and industrial facilities.

Book Information

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Customer Reviews

THE PREMIER GUIDE TO COMMERCIAL AND INDUSTRIAL ROOFS For decades, this manual has been the most widely respected guide to designing and specifying low-slope roof systems. It remains unique -- the only working handbook that treats all topics in roof design, from fundamentals to roof systems and materials options. This fourth edition covers major advances in design and materials, as well as changes in building codes. It gets you up to speed on roof system performance, emerging materials, drainage, wind uplift, vapor control, fire resistance, thermal insulation, reroofing, and much more. You'll even find field-tested solutions for such problems as lap-seam failures, membrane shrinkage, and fastener backout. Covering all major types of flat, multi-ply, low-slope roofing systems for commercial and industrial facilities, this definitive text also updates you on new procedures in inspection and maintenance. For architects, roof designers, roof consultants, contractors, spec writers, attorneys, materials manufacturers -- anyone who needs authoritative, up-to-date information on all aspects of roof technology -- the Manual of Low-Slope Roof Systems dominates the field. Roof It Right Roof failure causes in depth (and specific methods

for avoiding them) Roof design fundamentals and flourishes, based on voluminous industry research and experience New technologies and materials -- using them safely and correctly Comprehensive coverage of all major roofing systems Specifications, inspection, and maintenance tools for roofing work THE MOST COMPREHENSIVE GUIDE TO COMMERCIAL ROOFS The Roof as a System * Draining the Roof * Structural Deck * Thermal Design * Vapor Control * Wind Uplift * Fire Resistance * Historical Background of Contemporary Roof Systems * Elements of Built-Up Membranes * Modified-Bitumen Membranes * Elastomeric Membranes * Weldable Thermoplastics * Flashings * Protected Membrane Roofs and Waterproofed Decks * Sprayed Polyurethane Foam * Metal Roof Systems * Field Inspections * Reroofing and Repair * Roof-System Specifications * Roofing Guarantees and Warranties * Glossary of Roofing-Related Terms --This text refers to an alternate Hardcover edition.

C.W. Griffin is a member of ASTM International and the American Arbitration Association. He is a consulting engineer specializing in roofing and energy conservation and a former Senior Editor for McGraw-Hill’s Engineering News-Record. His books include Energy Conservation in Buildings and The Systems Approach to School Construction. He lives in Phoenix, Arizona. Until his retirement in 1996, R.W. Fricklas was Technical Director of the Roofing Industry Educational Institute. He is a columnist for RSI magazine and writes a Web column on roofing for Buildings.com. He has been the recipient of the Voss Award from the American Society for Testing and Materials, the McCawley Award from the Midwest Roofing Contractors Association, and the Piper Award from the National Roofing Contractors Association. Mr. Fricklas has also been presented with Lifetime Achievement awards by the Colorado Roofing Contractors Association and the Institute of Roofing and Waterproofing Consultants, and is an honorary member of the Roofing Consultants Institute. He lives in Centennial, Colorado. --This text refers to an alternate Hardcover edition.

We already have the Third edition and wanted current information prior to making decisions relating to a project.We appreciated the detailed information included. For example, where existing metal coping over architectural foam at a shopping center had failed to withstand hundred mile per hour winds in Southern California over the last ten years, we were able to review the formulas and wind uplift factors to better gauge design requirements.We found the photograph in Chapter Seven on Wind Uplift showing a "fascia strip bent upward despite the use of a cleat designed to stabilize it" exceptionally useful. "The 24-gauge stainless steel fascia strip was stressed beyond its yield point because the continuous cleat fasteners were located near the top of the cleat. This faulty location

increased the unbraced, cantilevered depth of the fascia strip, exponentially multiplying the bending stress exerted by the wall deflected wind." It was helpful to have the metal gauge described, and critically useful to understand the mechanics of failure with the cleat design.This is the most important aspect of the book. It can help avoid problems.As the owner of Commercial Resource Management, this is our purpose, so we found the book very helpful.We were able to find the FM Global Loss Prevention Data Sheet 1-49 mentioned in the book online, and while we had only foam incapable receiving fasteners to permit face nailing the continuous cleat or hook strip, we were able to incorporate the design principles described to develop an alternate.We also used the Grouping Pipes Through Roof Membranes diagram in the Flashings section to correct a problem with defective icing refrigerant lines entering an existing "pitch pan."We were able to find design parameters for thermal movement in the metal roof chapter "annual temperature ranges of 200 deg. F . . . must be capable of accommodating movements up to 2 in. in 200 ft." Since my run was 140 ft., I adjusted to use a figure of 1.4 in..

I gave this book 4 stars and not 5 because it was not large enough. It should have been the next size format, so that the drawings would render better. That said, however, I must recommend this for several reasons: 1, there is a paucity of books on roofing, a mundane subject at best and of interest to few people. However, for those people, not much to choose from. "Low slope roof" is industry parlance for a commercial/industrial roof which will have layers of hot tar and roofing felt, then gravel, placed on a generally flat roof. This book explains it all, from a history of this type of roof, to various materials used, what to watch for, how to write specifications, and problems that might occur in the design or construction phases. 2, for those architects that design or specify roofs, it explains roofing in depth, and helps avoid expensive mistakes that experience alone woould teach.Although the book is expensive, the information given is worth every penny. Those who will buy this book will know that.

If you are a practitioner or student of low slope roofing systems, then you need this book! More than just a stiff reference material, it explores the various systems you will confront if you do any Division 7 related work. Written in an easy to understand format (I’m a reformed knuckle-dragger).

Technical but still readable. Even a do-it-yourselfer (if spending plenty of time rereading) can figure it out. Only book of it’s kind letting you know the possible pitfalls from all the flat roof systems out there. Lacks some details I would have liked to have since I am not a professional. Very good for

someone who wants to tell a contractor what style of flat roof to build, less than perfect if you want a how-to book.

The best book on low slope roofing there is. Standard Training and reference book for Tremco Representatives, other manufacturers and roofing consultants for decades

great information!

awesome book

Logical presentation of various systems. Ease read.

Low Carb: 365 Days of Low Carb Recipes (Low Carb, Low Carb Cookbook, Low Carb Diet, Low Carb Recipes, Low Carb Slow Cooker, Low Carb Slow Cooker Recipes, Low Carb Living, Low Carb Diet For Beginners) Low Carb Diet: Introduction To Low Carb Diet And Recipes Of Low Carb Soups And Casseroles: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Low Carb Cookbook: Delicious Snack Recipes for Weight Loss. (low carbohydrate foods, low carb cooking, low carb diet, low carb recipes, low carb, low carb ... dinner recipes, low carb diets Book 1) Manual of Low-Slope Roof Systems: Fourth Edition (P/L Custom Scoring Survey) Manual of Low-Slope Roof Systems Low Carb Candy Bars: 25 Low Carb Recipes To Satisfy Your Sweet Tooth: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) The Slate Roof Bible: Understanding, Installing and Restoring the World's Finest Roof (The Slate Roof Bible, 2nd Edition) Low Carb Cookbook: 500 BEST LOW CARB RECIPES (low carb diet for beginners, lose weight, Atkins diet, low carb foods, low carb diet weight loss, low carb food list) Keto Bread Cookbook: Real Low Carb Recipes: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) The Ketogenic Diet Cookbook: Lose 15 Lbs In Two-Weeks With 66 Perfect Low Carb Keto Recipes: (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Low Carb: The Ultimate Beginnerâ ™s Low Carb Guide to Lose Weight Quick without Starving With over 20 Easy Recipes To Follow. (Low Carb, Low Carb Cookbook, ... Diet, Low Carb Recipies, Low Carb Cookbook) a perspective...ONE FOOT ON A BANANA PEEL: the slippery slope of lung cancer: a perspective...ONE FOOT ON A BANANA PEEL: the slippery slope of lung cancer Low Carb: Low Calorie Cookbook: 200 High Protein Recipes for Weight Loss, Muscle Building, Healthy

Eating and Increased Energy Levels (Low Carb High Protein ... Low Carb Cookbook, Low Carb Diet Book 1) Low Carb: Low Calorie Cookbook: 50 High Protein Recipes Under 500 Calories for Weight Loss, Muscle Building, Healthy Eating & To Increase Energy (Low Carb ... Low Carb Cookbook, Low Carb Diet Book 1) Keto Bread Cookbook : (low carbohydrate, high protein, low carbohydrate foods, low carb, low carb cookbook, low carb recipes) Low Sodium Cookbook: Enjoy The Low Sodium Diet With 35 Tasty Low Sodium Recipes (Low Salt Diet) (Low Salt Cooking Book 1) LOW CARB DIET: KETOGENIC DIET: 1000 BEST LOW CARB AND KETOGENIC DIET RECIPES (BOX SET): low carb cookbook, ketogenic diet for beginners, low carb diet for beginners, low carbohydrate diet, ketogenic Low Carb: Don’t starve! How to fit into your old jeans in 7 days without starving with a Low Carb & High Protein Diet (low carb cookbook, low carb recipes, low carb cooking) Low Carb: Low Carb, High Fat Diet. The Winning Formula To Lose Weight (Healthy Cooking, Low Carb Diet, Low Carb Recipes, Low Carb Cookbook, Eat Fat, Ketogenic Diet) The Slate Roof Bible: Everything You Need to Know About the Worldâ ™s Finest Roof, 3rd Edition