



Moisture Control Guidance for Building Design, Construction and Maintenance



Moisture Control In Buildings

Washington State Energy Office

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Washington State Energy Office text.

Moisture Control In Buildings:

Moisture control in buildings Heinz R. Trechsel, 1994 **Moisture Control in Buildings** Heinz R. Trechsel, Mark Bomberg, 2009 **Moisture Control in Buildings** Heinz R. Trechsel, 1994-01-01 Fundamentals of transport and storage of moisture in building materials and components Modeling heat air and moisture transport through building materials and components Relevant moisture properties of building construction materials Effects of moisture on the thermal performance of insulating materials Moisture related properties of wood and the effect of moisture on wood and wood products Moisture organisms and health effects Climate Moisture sources Effect of air infiltration and ventilation Heating and cooling equipment Design tools Measurement techniques and instrumentation Troubleshooting Case studies of moisture problems in residences General construction principles General considerations for roofs Moisture control for new residential buildings New high rise commercial and residential buildings Recommendations for remedial and preventive actions for existing residential buildings Recommendations for remedial and preventive actions for existing commercial institutional and high rise buildings Manufactured housing Moisture in historic buildings and preservation guidance Contract documents and moisture control Applicable guidelines standards and codes Legal considerations and dispute resolution the water related construction failure A conceptual system of moisture performance analysis Metric conversion table Moisture Control Handbook Joseph Lstiburek, John Carmody, 1996-01-15 In the climate controlled buildings of today moisture problems affect not only the useable life expectancy of the structure but the comfort and health of the occupants This reference is the first to apply up to date moisture control and treatment techniques in a problem solution format Opening with an introductory explanation of the nature and causes of mold mildew and condensation the book gives specific advice on heated cooled and combination environments plus a short course in the dynamics of moisture movement within buildings Other invaluable coverage includes clear detailed recommended practices for all United States climates practices for cooling as well as heating climates often heating climate solutions are applied in cooling climates where problems and solutions are completely different an overall systematic view of moisture problems including how mechanical systems and occupant lifestyles can create and also resolve moisture problems actual case studies of buildings with moisture problems that illustrate the principles and practices presented in the book This detailed no nonsense exploration of moisture cause and effect as well as its protection and remediation will expand readers knowledge on this crucial subject *Moisture Control Handbook* will be welcomed by building contractors architects mechanical engineers building science researchers building product manufacturers homeowners and small commercial building owners Moisture Control in Buildings Heinz R. Trechsel, Mark Bomberg, 2009 Moisture Control for Residential Buildings Joseph Lstiburek, 2020-09-30 *Moisture Control in Buildings - The Key Factor in Mold Prevention (2nd Edition), (MNL18-2nd)* Heinz R. Trechsel, Moisture Control in Buildings, 1976 **Moisture Control Guidance for Building Design, Construction and Maintenance** American Society of Heating,

Refrigerating and Air-Conditioning Engineers,ASHrae,United States Enviornmental Protection Agency,2016-06-21 Moisture control is fundamental to the proper functioning of any building Controlling moisture is important to protect occupants from adverse health effects and to protect the building its mechanical systems and its contents from physical or chemical damage Yet moisture problems are so common in buildings many people consider them inevitable Excessive moisture accumulation plagues buildings throughout the United States from tropical Hawaii to arctic Alaska and from the hot humid Gulf Coast to the hot dry Sonoran Desert Between 1994 and 1998 the U S Environmental Protection Agency EPA Building Assessment Survey and Evaluation BASE study collected information about the indoor air quality of 100 randomly selected public and private office buildings in the 10 U S climatic regions **Moisture Control in Buildings** Washington State Energy Office,1987 Moisture Control in Buildings: The Key Factor in Mold Prevention2nd Edition ,2019 Moisture Control in Buildings Trechsel Heinz,2009 *Moisture Control and Insulation Systems in Buildings, Chilled Water Pipes and Underground Pipes* William A. Lotz,2021-03-15 This book shows you one thing How to deal with moisture problems in buildings and their components Roofs walls attics heating ventilation air conditioning systems etc as well as how to deal with moisture problems in insulated chilled water pipes and underground pipes You ll discover the basics of moisture control in an easy to understand manner through real life moisture problems that the author himself has been through and managed to solve Not only does Mr William A Lotz P E write about his extensive moisture control experience with 2000 buildings and projects but also conveys the moisture control facts in a forthright solution oriented jargon free language This language can be grasped by all building professionals Architects engineers builders facility managers contractors inspectors specifiers etc Even homeowners will find solutions to their moisture problems here If you ve ever struggled with moisture control despite the supreme advances in the building techniques stop struggling please Following reading this book or the specific chapter in this book pertaining to your problem you ll be able to solve any awkward moisture problem life throws at you Moisture Control Guidance for Building Design, Construction and Maintenance United States. Environmental Protection Agency,2014-10-09 This document was developed by the U S Environmental Protection Agency Indoor Environments Division It provides practical guidance on how to control moisture in buildings 1 It is not a textbook code or standard **Indoor Air Quality and Moisture Control in Buildings** R. E. Gronseth,Minnesota. Department of Energy and Economic Development,University of Minnesota. Building Energy Resource Center,1984 Moisture Control in Buildings Erv L. Bales,Heinz R. Trechsel,Building Thermal Envelope Coordinating Council,Building Thermal Envelope Coordinating Council. Research Coordinating Committee on Moisture Control in Buildings,1984 **Air Leakage, Ventilation and Moisture Control in Buildings** Handegord, G. O. (Gustav O.),National Research Council Canada. Division of Building Research,1982* **Building Energy Research** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications,1982 *Moisture Control Handbook* ,1991 Moisture problems are prevalent all over

North America almost independent of climate They are viewed as one of the single largest factors limiting the useful service life of a building Elevated levels of moisture in buildings also can lead to serious health effects for occupants Until recently very little consensus on moisture control existed in the building community The information available was typically incomplete contradictory usually limited to specific regions and in many cases misleading A need to develop a document which presented the issues relating to moisture from a building science or systems approach existed This handbook attempts to fill that need and illustrates that energy efficient tight envelope design is clearly part of the solution to healthy buildings when interior relative humidity temperature and pressure are controlled simultaneously The first three chapters of the handbook present the basic principles of moisture problems and solutions in buildings Chapter 1 Mold Mildew and Condensation examines surface moisture problems Chapter 2 Moisture Movement examines how building assemblies get wet from both the exterior and interior Chapter 3 Wetting and Drying of Building Assemblies introduces the concepts of acceptable performance moisture balance and the redistribution of moisture within building assemblies Chapters 4 through 6 apply the concepts outlined in the previous chapters and present specific moisture control practices for three basic US climate zones The advantages and disadvantages of several wall foundation and roof assemblies are discussed for each climate zone

Coordination of Performance Standards on Moisture Control in Buildings Gunard E. Hans, Forest Products Laboratory (U.S.), 1981

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