## **Nrca Architectural Metal Roofing Manual**

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to understand construction estimating one must also understand plan reading and construction techniques this book is designed to teach the construction student these three core skills in equal measure using hundreds of plans sketches and photos the book builds case studies of the major construction divisions including concrete masonry carpentry and more over forty cases are divided into sections following a specially designed format plans scale drawings of floor plans sections or elevations plan interpretation the drawings are explained with comments scope of the work a written description of the boundaries of the work is given for each section construction techniques the construction processes and their sequence are explained the takeoff a takeoff is shown at the end of each section this approach helps foster confidence in plan reading building methods arithmetic takeoffs and estimates the various products and terms used in the industries of structural steel doors and hardware and roofing are defined the shop drawing process is explained which is so important in many industries as well as the role of and difference between manufacturers fabricators and suppliers distributors the book ends with a study of front end documents including division 00 general conditions aia 201 and division 01 general requirements and a chapter on ethics this textbook can be used to teach a variety of classes including plan reading construction techniques and estimating 1 and 2 takeoffs and pricing

architectural metal roofing systems amrs are considered to be a very durable type of steep slope roofing system architectural metal roofing systems are commonly used in compact or unvented roofing assemblies over moisture susceptible nailable wood based substrates placed directly over or laminated to rigid insulation or over nailable roof decks with spray applied air and vapor impermeable polyurethane foam spuf insulation applied directly to the underside of the deck use of amrs without ventilation to relieve trapped moisture within the compact roofing assembly is commonplace but under certain conditions this practice can be risky as is the case with most roofing systems water trapped within roofing systems can lead to problems such as corrosion of fasteners and degradation of the substrate and supporting structural elements potential sources of water or moisture intrusion are many and can include intrusion of warm humidified indoor air into the roofing system and condensation on cold surfaces water leakage through the roofing system or water entry during construction without adequate ventilation to relieve moisture water trapped in the system can quickly cause damage to the underlying materials in the roof system ventilation of roofs over uninsulated decks and attic space is straightforward and commonly practiced particularly when asphalt shingles are used however compact roof assemblies and assemblies with insulation above the deck require more sophisticated solutions that consider airflow continuity placement of air and vapor retarders and an understanding of the hygroscopic performance of the roofing system this paper examines what makes architectural metal panel roof systems different from other systems in terms of construction techniques and moisture management and it presents case studies and computer based modeling of moisture flow to illustrate the

need for ventilation the authors discuss factors that increase the risk of moisture problems in amrs and present effective design methods for ventilating and mitigating moisture in these roofing systems adequate protection of these systems from the effects of internal moisture using proper ventilation can help provide a robust durable and resilient amrs

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

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