

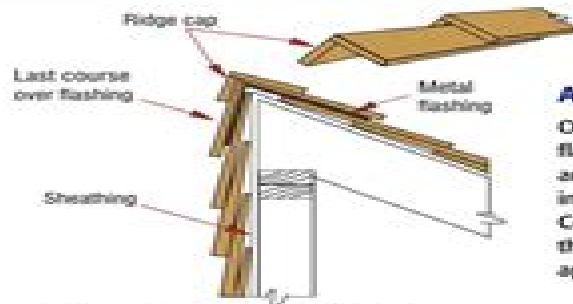


Figure 11: Apex Roof Junction

Apex Junction

On this roof junction (Figure 11) metal flashing should cover the top 8" of the roof and the top 4" of the wall. It should be installed before the final course of Certi-label® shakes or shingles is applied to the wall. The recommended sequence of application is to apply Certi-label® shakes or

shingles first to the wall then to the roof. The overhanging roof material is then trimmed flush with the wall. Finally, specially prepared ridge units are applied over the wall-roof junction so that in each matching pair the roof piece overlaps the wall piece each time.

Swept or Bell Eave

When Certi-label® shakes or shingles are to be applied to a swept or bell eave where the curvature is excessive, it may be necessary to soak them for a period (usually overnight) or steam them prior to installation. A double

starter course is employed in the usual manner. Exposure is determined by the slope of the roof and the type of Certi-label® shake or shingle selected. At lower pitches waterproof eave protection should be used.

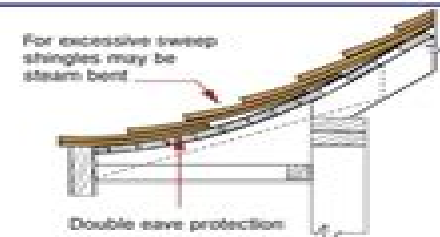


Figure 12: Swept or Bell Eave

ROOF VALLEY FLASHING DETAILS

Roof Valley Flashing Detail

Most roof leaks can occur where water is channelled off the roof or where the roof abuts a vertical wall or chimney. At these points, metal valleys and flashings are used to assist the Certi-label® shakes and shingles in keeping the structure sound and dry.

Structural members that join a roof should also be flashed at all intersecting angles to prevent leakage. Step flashing should extend under the Certi-label® shakes and shingles, up the vertical surface, (one flashing installed on each course concealed under the covering course) and should be covered by a second layer of flashing (counter-flashing).

Flashing should be pre-painted both sides using a good metal or bituminous paint (Figure 13a). Flashing strips which must be bent to sharp angles should be painted after bending. Metal flashing with baked-on enamel coating is available in some areas.

Different flashing metals are available in different areas depending on climatic variations. It is good practice to use metals that have proven their reliability under the specific conditions to be encountered. It is important that metal flashing have the same

longevity as Western Red Cedar. Check with your local building code official for their preference in your area. When using a pressure-impregnated treated product, contact the treatment company for metal specifications.

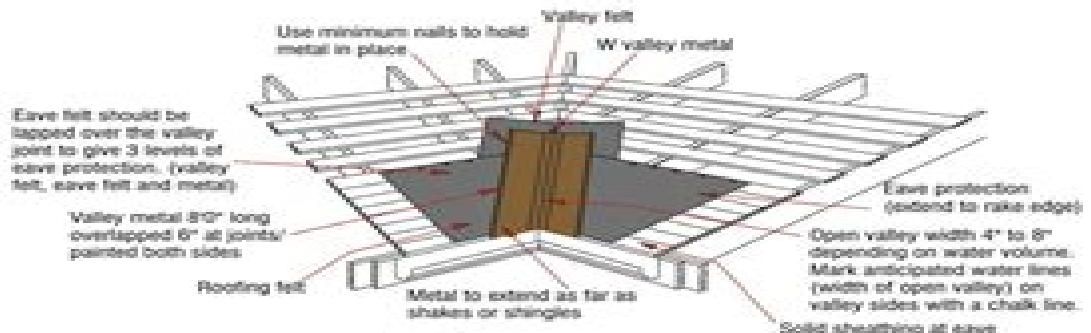
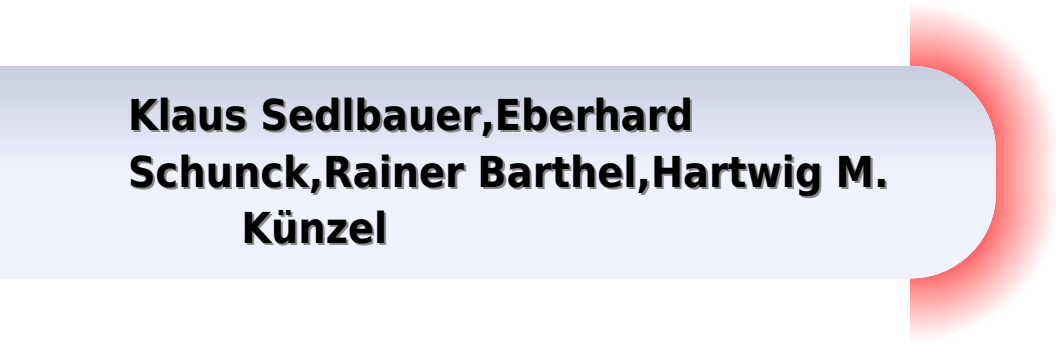


Figure 13a: Valley Metal

Roof Construction Manual

**Klaus Sedlbauer, Eberhard
Schunck, Rainer Barthel, Hartwig M.
Künzel**



Roof Construction Manual:

Roof Construction Manual Eberhard Schunck, Hans Jochen Oster, Rainer Barthel, Kurt Kießl, 2013-01-21 the Roof Construction Manual is a comprehensive reference work on the construction of pitched roofs containing over 1800 plans and 220 photographs Thirteen fundamental roof types and the relevant materials including thatch wood slate tile concrete fibrous cement bitumen glass metal membranes and synthetic materials are documented in detail Essential topics such as ventilation vapour and wind seals insulation and drainage renovation and energy conservation are examined As with all the Construction Manuals some 38 built examples illustrate the theoretical details paying particular attention to important features such as the ridge hip eaves roof valley verge and penetration A compact presentation of the load bearing physics and structures as well as current norms and standards make this volume an indispensable standard work for all architects and engineers

Flat Roof Construction Manual Klaus Sedlbauer, Eberhard Schunck, Rainer Barthel, Hartwig M. Künzel, 2012-12-17 often described as the fifth facade the flat roof is extremely popular with architects Its essential task is to shelter the space beneath it from the elements Beyond this the use of flat roofs may be optimized by integrating them as green roofs roof terraces circulation areas and even productive solar roofs In practice however their correct and professional realization is a highly exacting task in addition to providing the planner with basic rules of construction and design the Flat Roof Manual also supplies an overview of the use and construction types as well as the standard assemblies for flat roofs Together with the most important standards and bodies of regulations construction drawings of the principal connection points round out the volume

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Basics Roof Construction Tanja Brotrück, 2017-05-22

Dachkonstruktionen werden in den ersten Studiumsentwürfen oft in Verbindung mit dem Mauerwerksbau thematisiert. Welche Formen und Möglichkeiten der Konstruktion von schützenden Überdachungen eines Gebäudes gibt es? Themen: Arten und Funktion von Dachern, Tragwerk, Konstruktionsprinzipien, Deckungen, Bauphysikalische Grundlagen.

Basics Roof Construction Ann-Christin Siegemund, 2020-09-21. A roof over one's head is a basic need; it provides shelter from rain, wind, and the cold. In addition to these requirements, the structure must be load bearing and stable. Out of traditional craftsmanship, roof shapes and typologies have developed that fulfill these tasks and endure to this day. Basics Roof Construction describes the different kinds of roofs and which advantages and disadvantages each of them has. It explains which tasks are performed by the structural elements and layers and how to account for these in planning construction. The objective is to provide students with the principles, properties, and technical terms of construction so that they can implement this knowledge in concrete design plans from building to insulation and sealing all the way to the basics of drainage.

The Roof Building Manual Lloyd Hiddle, Allan Staines, 2007. This step-by-step guide is full of easy-to-follow instructions. An indispensable aid for teaching apprentices, plus quick and easy-to-use tables and bevels for all roof pitches from 5 degrees to 75 degrees. Bevels are drawn on the page ready to transfer directly to the bevel tool inside back page.

Roof Construction and Loft Conversion C. N. Mindham, 2008-04-15. Full of detailed construction drawings, this book covers cut roofs, bolted truss roofs, trussed rafter roofs, trimmed openings, and ventilation. A major section deals with loft-to-attic room conversions, giving guidance on planning procedures as well as dealing with structural matters and specifying conversion work. The Fourth Edition features a new chapter covering the growing number of engineered timber components available in the housebuilding industry. The use of I-beams and roof cassettes is detailed for roof and room in the roof construction. The text has been fully updated to current standards and features additional detailed construction drawings. The chapters on attic conversion and construction have been expanded, and a new attic conversion decision flow chart added. The book will prove invaluable to architects, house builders, roof carpenters, building control officers, trussed rafter manufacturers, and students of building technology. The Author, C. N. Mindham BSc, has had a wide experience in the construction industry. After three years with TRADA as Eastern Regional Officer, he spent 11 years developing a timber engineering business to become one of the country's largest producers of trussed rafters. He became Managing Director of a company designing and manufacturing trussed rafters, joinery, and prefabricated timber buildings, a post he held for eight years. Subsequently, he started his own consultancy for the timber industry, which has led him to his current position as Managing Director for a joinery and engineering company. Also of interest: Loft Conversions. John Coutts. 1 4051 3043 1 9781 4051 3043 1. The Building Regulations Explained and Illustrated Twelfth Edition. M. J. Billington, M. W. Simons, and J. R. Waters. 0 6320 5837 4 9780 6320 5837 4. Cover design by Garth Stewart. Cover illustrations courtesy of VELUX and Mr C. Lovell, Wellingborough, Northamptonshire.

Architectural Detailing Edward Allen, Patrick Rand, 2016-02-29. The industry standard guide to designing well-performing buildings. Architectural Detailing

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Architectural Details 2003 Detail Magazine, 2016-01-08 This is a compilation of the full year's information including the Discussion section where well known architects and critics as well as specialist authors and architectural historians articulate their views the Documentation section containing an analysis of selected projects in which buildings from around the world are covered in depth and the Technology section where the specific theme of each issue of the magazine is treated in greater depth Along with these are illustrations of the high standards that Detail is known for where all plan drawings are true to scale and have been approved by the architects planners and engineers responsible for the original design This annual sourcebook is a beautiful record not only of the year's Detail publication but of some of the best and most innovative contemporary architecture

Roof Construction Manual Book Review: Unveiling the Magic of Language

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