

The life of a roof depends on local weather conditions, building and design, material quality, and adequate maintenance. Hot climates drastically reduce asphalt shingle life. Roofs in areas that experience severe weather, such as hail, tornadoes and/or hurricanes, may also experience a shorter-than-normal lifespan overall or may incur isolated damage that requires repair in order to ensure the service life of the surrounding roofing materials.

Roofing	Life Expectancy in Years
Aluminum Coating	3 to 7
Asphalt (architectural)	30
Asphalt Shingles (3-tab)	20
BUR (built-up roofing)	30
Clay/Concrete	100+
Coal and Tar	30
Copper	70+
EPDM (ethylene propylene diene monomer) Rubber	15 to 25
Fiber Cement	25
Green (vegetation-covered)	5 to 40
Metal	40 to 80
Modified Bitumen	20
Simulated Slate	10 to 35
Slate	60 to 150
TPO	7 to 20
Wood	25

# Life Expectancy Building Components

**Christian Drosten**



## **Life Expectancy Building Components:**

**Life Expectancy of Building Components** Migel Harvey, Royal Institution of Chartered Surveyors, 2001      **The Green Guide to Specification** Jane Anderson, David Shiers, 2009-03-09 Like its predecessors this fourth edition of The Green Guide to Specification provides designers and specifiers with easy to use guidance on how to make the best environmental choices when selecting construction materials and components It is more comprehensive than its predecessors it contains more than 1200 specifications used in six types of building Commercial buildings such as offices Educational buildings such as schools and universities Healthcare buildings such as hospitals Retail Residential Industrial The principal building elements covered in this edition of The Green Guide to Specification include Floors Roofs Walls Windows Insulation Landscaping The performance of each specification is measured against a range of environmental impacts including climate change toxicity fossil fuel and ozone depletion levels of emissions and pollutants mineral and water extraction The Green Guide to Specification provides robust information to assist decision making by translating numerical life cycle assessment data into a simple A to E scale of environmental ratings enabling specifiers to make meaningful comparisons between materials and components The Green Guide to Specification is an essential tool for architects surveyors building managers and property owners seeking to reduce the environmental impact of their buildings by informed and responsible selection of construction materials and components      *PCM-Enhanced Building Components* Jan Košny, 2015-05-07 Presenting an overview of the use of Phase Change Materials PCMs within buildings this book discusses the performance of PCM enhanced building envelopes It reviews the most common PCMs suitable for building applications and discusses PCM encapsulation and packaging methods In addition to this it examines a range of PCM enhanced building products in the process of development as well as examples of whole building scale field demonstrations Further chapters discuss experimental and theoretical analyses including available software to determine dynamic thermal and energy performance characteristics of building enclosure components containing PCMs and present different laboratory and field testing methods Finally a wide range of PCM building products are presented which are commercially available worldwide This book is intended for students and researchers of mechanical architectural and civil engineering and postgraduate students of energy analysis dynamic design of building structures and dynamic testing procedures It also provides a useful resource for professionals involved in architectural and mechanical civil engineering design thermal testing and PCM manufacturing      *Cost Studies of Buildings* Allan Ashworth, Srinath Perera, 2015-07-16 This practical guide to cost studies of buildings has been updated and revised throughout for the 6th edition New developments in RICS New Rules of Measurement NRM are incorporated throughout the book in addition to new material on e business the internet social media building information modelling sustainability building resilience and carbon estimating This trusted and easy to use guide to the cost management role Focuses on the importance of costs of constructing projects during the different phases of the construction process Features learning

outcomes and self assessment questions for each chapter Addresses the requirements of international readers From introductory data on the construction industry and the history of construction economics to recommended methods for cost analysis and post contract cost control *Cost Studies of Buildings* is an ideal companion for anyone learning about cost management

**Added Value in Design and Construction** Allan Ashworth, Keith Hogg, 2014-07-30 *Added Value in Design and Construction* takes a holistic student centred approach to offering public and private sector clients the ultimate reward doing more for less The Latham Report was a call to action and this book provides students of construction with the theoretical and practical knowledge to deliver the recommendations of the report It describes the principles and techniques crucial to adding value and reducing costs in design and construction in the twenty first century This book examines in detail a wide range of strategies that can be applied during the design and construction process to add value and bring the best interests of the client sharply into focus

**Hazardous Building Materials** Steve Curwell, Bob Fox, Morris Greenberg, Chris March, 2002-09-11 Following the highly successful format of the first edition this book s main purpose is to guide construction industry professionals on how to select healthy and environmentally friendly construction materials

*Durability of Building Materials and Components 8: Information technology in construction* Michael A. Lacasse, Dana J. Vanier, 1999 This set of conference proceedings focusses on topics related to integrating existing knowledge together with more recent contributions on service life computer integrated construction information technology decision support systems design systems life cycle models product modelling process modelling and virtual reality human computer interaction Includes indexes

*Components of a Landscape Education Model* Sally Schauman, 1972

**Preassembled Building Components** National Research Council (U.S.). Building Research Institute, 1961

*Prefinishing of Exterior Building Components*, 1962

**The Whispering Roots** Cecil Day Lewis, 1970

*Handbook of Building Maintenance Management* Mel A. Shear, 1983

**Modeling and Simulation**, 1990

**New York State Appellate Division Second Department , The Massachusetts register**, 1988

**State Building Maintenance** Minnesota. Legislature. Office of the Legislative Auditor. Program Evaluation Division, 1998

**Buildings and Building Management**, 1922 Vols for 1933 42 include an annual directory number for 1959 an annual roster of realtors

*Journal of the American Water Works Association*

American Water Works Association, 1928 Vols for 2012 contain only executive summaries of articles

**Architectural Materials for Construction** Harold J. Rosen, Tom Heineman, 1996 Organized in accordance with the CSI MASTER FORMAT this one stop guide provides specifications for all common major architectural building materials It makes it easier to fully investigate the details of conjoining assemblies and the pitfalls of new designs Color photos showcase some of the best recent examples of how materials are being Applied in architectural practice

**Caring for the Campus Physical Plant**, 1982

Contending that the physical plants of colleges and universities are deteriorating and inadequately fit existing institutional programs this report diagnoses causes underlying this neglect and recommends strategies for upgrading campus care and

management Pointed out as fundamental problems are lack of integration of physical plant concerns with the institution s broader mission the low priority given physical plant needs the isolation of the physical plant director from institutional decisionmaking lack of awareness of requisite funding ineffective management of physical plant staff and inefficient use of institutional facilities When these issues have been addressed facility requirements can be integrated into academic planning It is recommended that a facilities planning group be established to break down the isolation of the plant department and that the support of top administrators and trustees be enlisted A thorough physical plant audit on which budgeting can be based is prescribed Proposed methods of improving plant department management include setting work objectives establishing training programs and advancement incentives and considering contracting out services Analyzing the fit between programs and facilities and allocating space accordingly are advised A comprehensive energy management program comprising an energy audit and conservation measures is recommended and some computer based models for financial planning are described MJL

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