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### KEY=GUIDES - BEST CONOR

### MODEL COMMISSIONING PLAN

### BUILDING SERVICES JOB BOOK

### A PROJECT FRAMEWORK FOR ENGINEERING SERVICES

### UTILITY CONNECTIONS AND DIVERSIONS

### PLANNING, DESIGN AND INSTALLATION

*This guide provides comprehensive guidance and practical tools (including templates and checklists) to assist with planning, design and installation of utility services from the preparation stage to post-occupancy aftercare.*

### VALUE MANAGEMENT

### THE VALUE MANAGEMENT BENCHMARK : RESEARCH RESULTS OF AN INTERNATIONAL BENCHMARKING STUDY

**Thomas Telford** Value management (VM) is a structured, team-oriented approach to problem solving that can be applied to the concept, design, construction and on-going management phases of a project. The primary reasons for any client or consultant to commission a VM study is to achieve value improvements and/or monetary savings. The Research documentThis document presents the findings of the three year research programme that formed the basis for the Framework results. It compares and contrasts the various methodologies, tools, and techniques of VM.

### NEWNES BUILDING SERVICES POCKET BOOK

**Routledge** Newnes Building Services Pocket Book is a unique compendium of essential data, techniques and procedures, best practice, and underpinning knowledge. This makes it an essential tool for engineers involved in the design and day-to-day running of mechanical services in buildings, and a valuable reference for managers, students and engineers in related fields. This pocket reference gives the reader access to the knowledge and knowhow of the team of professional engineers who wrote the sixteen chapters that cover all aspects of mechanical building services. Topic coverage includes heating systems, ventilation, air conditioning, refrigeration, fans, ductwork, pipework and plumbing, drainage, and fire protection. The result is a comprehensive guide covering the selection of HVAC systems, and the design process from initial drafts through to implementation. The second edition builds on the success of this popular guide with references to UK and EU legislation fully updated throughout, and coverage fully in line with the latest CIBSE guides.

### SOFT LANDINGS FRAMEWORK 2018

### SIX PHASES FOR BETTER BUILDINGS

### RULES OF THUMB

### GUIDELINES FOR BUILDING SERVICES

Rules of Thumb are general principles derived from practice and experience rather than precise theory. The 5th edition of Rules of Thumb has been created by referencing various contemporary sources in the building services industry and can reasonably be held to reflect current design practices.

### SPON'S EXTERNAL WORKS AND LANDSCAPE PRICE BOOK 2022

**CRC Press** Now in its 41st edition, Spon's External Works and Landscape Price Book 2022 offers the only comprehensive source of information for detailed external works and landscape costs. It covers all the items to be found in hard and soft landscape contracts, and forms an indispensable reference book for quantity surveyors, landscape architects, contractors and local authority managers - essential for compiling estimates, specifications, bills of quantities and works schedules - no matter what the size of the project being undertaken. The 2022 edition includes new stainless-steel products including: ventilation grilles; handrails; LED handrails; in ground power units; stainless steel bollards; stainless steel warning strips and studs and access covers. Also, an extended range of inspection chambers, new podium specialist soils and a new formwork system, as well as two new Cost Models, one for podiums and another for landscape maintenance. All the standard features that you expect from SPON'S EXTERNAL WORKS AND LANDSCAPE PRICE BOOK remain: • material and measured work prices covering contract items from preliminaries and site clearance and encompassing the core external works activities with full breakdowns into labour, materials and other components • detailed guidance on wage rates, landscape consultants' fee scales • an extensive Approximate Estimates section for rapid spot estimating • updates, free of charge, twice a year - see inside for registration details. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk) Use the access code inside the front cover of the book to get set up with an ebook of this 2022 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2022.

### BOILERS

### CIBSE COMMISSIONING CODE B

### DOMESTIC BUILDING SERVICES COMPLIANCE GUIDE (FOR PART L 2013 EDITION)

**Riba Publications Limited** This guide is referred to in the 2013 edition of Approved Document L1A and the 2010 edition of Approved Document L1B (as amended in 2013) for dwellings as a source of guidance on complying with Building Regulations requirements for space heating and hot water systems, mechanical ventilation, comfort cooling, fixed internal and external lighting and renewable energy systems.

### A GUIDE TO ENERGY EFFICIENT VENTILATION

### SITE MANAGEMENT OF BUILDING SERVICES CONTRACTORS

**Routledge** Managing building services contractors can prove to be a minefield. The most successful jobs will always be those where building site managers have first built teams focused on tackling issues that might cause adversarial attitudes later on and jeopardize the project. The author shows how a simple common management approach can improve site managers' competency in overseeing building services contractors, sub traders and specialists, and maximize the effectiveness of time spent on building services.

### SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2021

**CRC Press** UK construction supply chain firms face an array of risks going into 2021 as fallout from the COVID-19 crisis - not least the effect of social distancing rules on site productivity. But underlying construction demand remains broadly in place for the expected medium-term. SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2021, compiled by AECOM, still provides the most accurate, detailed and professionally relevant construction price information for the UK. Its unique Tender Index, updated through the year (2015 = 100), gives an ongoing reality check and allows you to adjust for changing market conditions. Although it suits a wide range of project sizes, this is the only price book which sets out a detailed cost base for contracts exceeding £4,000,000 in value. Use the access code inside the front cover of the book to get set up with an ebook of this 2021 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2021. As well as an overhaul of prices, several new items have been added, including: a London fringe office cost model a higher education refurbishment cost model Pecafil® permanent formwork and an expanded range of cast iron rainwater products along with the standard features you have come to expect from SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK: 20,000 prices for the most frequently specified items, the majority with labour constants and detailed build-ups Hundreds of alternative materials prices for the more unusual items Detailed guidance on wage rates, daywork, cost limits and allowances, property insurance and professional fees, plus useful formulae, design criteria and trade association addresses Updates, free of charge, twice a year - see inside for registration details. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk)

### ARCHITECTURAL REGENERATION

**John Wiley & Sons** Architectural Regeneration will address the different perspectives, scales and tools of architectural regeneration by means of detailed overviews of the current state of thinking and practice, with case studies from around the world used as examples to support the theoretical arguments.

### TESTING AND BALANCING HVAC AIR AND WATER SYSTEMS, FOURTH EDITION

**Fairmont Press** This fully revised and updated edition of this classic bestselling reference provides all the information needed to evaluate and balance the air and water sides of any HVAC system. The

third edition adds new chapters on testing and balancing clean rooms and HVAC system commissioning. The book addresses every aspect of testing, adjusting and balancing, including all types of instruments required and specific methods to adjust constant volume, single zone, dual duct, induction, and variable air volume systems. The author provides complete details for the full scope of system components, including fans, pumps, motors, drives, and electricity, as well as for balancing devices and instrument usage. The book also includes all necessary equations and a variety of useful conversion tables.

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## HEATING, VENTILATING, AIR CONDITIONING AND REFRIGERATION

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### CIBSE GUIDE B

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### FABER & KELL'S HEATING AND AIR-CONDITIONING OF BUILDINGS

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**Routledge** For over 70 years, Faber & Kell's has been the definitive reference text in its field. It provides an understanding of the principles of heating and air-conditioning of buildings in a concise manner, illustrating practical information with simple, easy-to-use diagrams, now in full-colour. This new-look 11th edition has been re-organised for ease of use and includes fully updated chapters on sustainability and renewable energy sources, as well as information on the new Building Regulations Parts F and L. As well as extensive updates to regulations and codes, it now includes an introduction that explains the role of the building services engineer in the construction process. Its coverage of design calculations, advice on using the latest technologies, building management systems, operation and maintenance makes this an essential reference for all building services professionals.

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### CIVIL ENGINEERING PROCEDURE

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**Thomas Telford Services Limited** Presents an introduction to the key project stages from conception through to completion of construction and then beyond to handing over the resulting structures and services for use. This book covers: project promotion, strategy and design; latest forms of contracts for construction; and partnering, alliancing and programme management.

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### APPROVED DOCUMENT F: VENTILATION (2010 EDITION INCORPORATING 2010 AND 2013 AMENDMENTS)

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Approved Document F of the Building regulations is concerned with the requirements with respect to ventilation. This document is the 2013 edition, based on the original 2010 edition and incorporating amendments made in 2010 and 2013. Changes made by the 2013 Amendments. The changes, which apply only to England, were to guidance on materials and workmanship. Contracts and Management Publications Update Service: To ensure that you have the most up-to-date Approved Document or Amendment to an Approved Document to hand, you can now join our CAMPUS service. RIBA Bookshops will automatically send you copies of new releases as and when they are published. Visit our CAMPUS page for further details.

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### RETHINKING CONSTRUCTION

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### THE REPORT OF THE CONSTRUCTION TASK FORCE TO THE DEPUTY PRIME MINISTER, JOHN PRESCOTT, ON THE SCOPE FOR IMPROVING THE QUALITY AND EFFICIENCY OF UK CONSTRUCTION ; FOREWORD BY SIR JOHN EGAN

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### HVAC TESTING, ADJUSTING, AND BALANCING FIELD MANUAL

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**McGraw Hill Professional** The easy way to keep your HVAC systems humming. Meet the demand for better quality and efficiency in air systems by mastering the latest TAB (testing, adjusting, and balancing) techniques in the Third Edition of HVAC Testing, Adjusting, and Balancing Manual, by John Gladstone and W. David Bevirt. This time-saving productivity tool puts at your fingertips proven TAB methodologies, equations, and calculations for system balancing, controls, clean rooms, sound vibration and more. It's the only resource you need to: balance air and water distribution systems; adjust the total system to provide specified quantities; perform accurate electrical measurements; establish quantitative performance of all equipment; verify automatic controls; measure sound and vibration with complete confidence; and much more.

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### THE SLL LIGHTING HANDBOOK

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#### Young Writers

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### SPECIFICATION FOR SHEET METAL DUCTWORK

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### LOW, MEDIUM AND HIGH PRESSURE/VELOCITY AIR SYSTEMS

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### STANDARD SPECIFICATIONS FOR BMS

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This title presents a full set of standard specification clauses for building management systems (BMS). The clauses are grouped into three parts - system standard specification, comprising specification clauses relating to equipment and component requirements, for example operator facilities and field controllers; design and installation standard specification, comprising specification clauses relating to how the system should be designed/structured, configured and installed; implementation standard specification clauses relating to how the system should be commissioned, handed over and maintained.

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### WATER SAFETY IN BUILDINGS

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Extensive experience shows that poor design and management of water systems in buildings can cause outbreaks of disease. The types of building, water uses, disease outcomes and individuals affected are diverse. The health risks are preventable and can be readily controlled. However, evidence from outbreak detection suggests that the overall trend is increasing. With increasing global urbanization, the overall exposure of the human population to poorly designed or managed water systems in buildings is increasing rapidly. Consequently, the risk of disease outbreaks is also increasing. Actions to reduce the risk of disease should be considered a public health priority. This document provides guidance for managing water supplies in buildings where people may drink water; use water for food preparation; wash, shower, swim or use water for other recreational activities; or be exposed to aerosols produced by water-using devices, such as cooling towers. These uses occur in a variety of buildings, such as hospitals, schools, child and aged care, medical and dental facilities, hotels, apartment blocks, sport centres, commercial buildings and transport terminals. The target audience for this document includes the full range of "actors" who influence the overall safe management of building water supplies. In particular, it is directed at those who design, construct, manage, operate, maintain and regulate building water systems.

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### PROJECT MANAGEMENT HANDBOOK FOR BUILDING SERVICES

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Written for individual engineers who are responsible for managing their own activities and engineers in an overall management role who have responsibility for managing the activities of others, this title describes both established project management techniques and techniques tailored to the specific situations confronted by building services engineer with the aim of providing practical guidance on the planning and management of building services design; planning and management of building services installation; and the integration of building services design and installation within an overall construction project management framework.

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### NATURAL VENTILATION IN NON-DOMESTIC BUILDINGS

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### MINIMISING THE RISK OF LEGIONNAIRES' DISEASE

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**Anchor Books** It has been ten years since TM13 was last reviewed. Over this time we have seen technology advances and environmental concerns lead to changes in the design and operation of water system to manage the risks of Legionella. The last ten years have also seen England, Scotland and Wales experience their worst outbreaks of Legionnaires' disease to date, thus showing why Legionella control remains such a high profile public health issue. While many of the basics of good Legionella control and building services management remain largely the same, our understanding of the risks, processes and schemes by which we can maintain control and demonstrate compliance with regulatory requirements have developed. With this in mind TM13 has been updated and revised to provide the information needed to support the effective management of the risks and demonstrate pro-active compliance.

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### MODULAR CONSTRUCTION USING LIGHT STEEL FRAMING

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### AN ARCHITECT'S GUIDE

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### AUTOMATIC CONTROLS

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### CIBSE COMMISSIONING CODE C: 2001

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### PLUMBING ENGINEERING SERVICES DESIGN GUIDE

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### ARCHITECT'S APPOINTMENT

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### ENVIRONMENTAL HANDBOOK FOR BUILDING AND CIVIL ENGINEERING PROJECTS

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### CONSTRUCTION PHASE

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**Thomas Telford** This handbook contains information and practical guidance on the environmental issues likely to be encountered at each stage in the tendering and construction phases of a building or civil engineering project. It is aimed at informing construction managers, clients, designers and other consultants, engineers and scientists on their obligations and the opportunities open to them to improve the industry's environmental performance.

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## HVAC COMMISSIONING GUIDEBOOK

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**CRC Press** Green buildings have become common in India and other countries in Asia. However, there is a concern regarding the performance of green buildings failing to meet the expectations of clients during the operation. One of the key reasons for this is poorly commissioned HVAC systems. In this publication we provide tools and knowhow for more efficient HVAC commissioning. It gives answers for four major questions: why commissioning is needed, how to perform proper commissioning, which key performance issues of common HVAC equipment need to be considered, and what kind of checklists are used during commissioning? It covers the entire commissioning process beginning with the owner's project requirements and commissioning design reviews. Then, it explains procedures during installation and start-up of equipment followed by the functional performance testing, seasonal commissioning and 10 months' operation review. This publication is developed by Indian Society of Heating, Refrigeration and Air Conditioning Engineers ISHRAE for Indian and Asian requirements in conjunction with the Federation of European HVAC Associations REHVA. The process steps described in this publication are in line with all major international building standards and green building certification schemes. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

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## SPECIFICATION FOR INFORMATION MANAGEMENT FOR THE CAPITAL/DELIVERY PHASE OF CONSTRUCTION PROJECTS USING BUILDING INFORMATION MODELLING

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Construction Construction works Construction engineering works Data organization Information Management Project management Databases Information exchange Information retrieval

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## INTEGRATED SUSTAINABLE DESIGN OF BUILDINGS

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**Routledge** *Integrated Sustainable Design of Buildings* aims to provide a guide to members of design and masterplanning teams on how to deliver sustainable development and buildings cost effectively, meeting current and emerging UK and international statutory and planning requirements. Using a series of case histories and examples from the author's ten years of providing sustainability advisory services the book sets out a clear and understandable strategy that deals with all aspects of sustainable design and construction and the implications for delivery, costs, saleability and long term operation. The extensive scope includes all aspects of environmental, social and economic sustainability, including strategies to reduce carbon emissions and the impact of climate change. *Integrated Sustainable Design of Buildings* appeared in the Cambridge Top 40 Sustainability Books of 2010.

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## CIBSE GUIDE H: BUILDING CONTROL SYSTEMS

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**Routledge** *'Building Control Systems'* provides the building services engineer with a comprehensive understanding of modern control systems and relevant information technology. This will ensure that the best form of control systems for the building is specified and that proper provision is made for its installation, commissioning, operation and maintenance. Beginning with an overview of the benefits of the modern building control system, the authors describe the different controls and their applications, and include advice on their set-up and tuning for stable operation. There are chapters on the practical design of control systems, how to work from the hardware components and their inclusion in networks, through to control strategies in Heating, Ventilation and Air Conditioning (HVAC) systems and whole buildings. The relationship between Building, Management Systems (BMS) and information technology systems is discussed, and the building procurement process and the importance of considering control requirements at an early stage in the design process

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## BUILDING SERVICES

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## THE CIBSE JOURNAL

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## FABER & KELL'S HEATING & AIR-CONDITIONING OF BUILDINGS

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**Routledge** First Published in 2008. Routledge is an imprint of Taylor & Francis, an informa company.

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## WHITAKER'S BOOKS IN PRINT

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