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SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2020 from AECOM gives costs for both general and civil engineering works and highway works. It provides a full breakdown of labour, plant and material elements, with labour rates updated. cost guidance is given at a number of levels, varying from the more general functional costs to detailed resource costing, and in conformity with CESMM4 and the Highways Method of Measurement. This 34th edition gives a strong development of prices for excavations and rail, and a general overhaul of prices through the book. Use the access code inside the front cover of the book to get set up with an ebook of this 2020 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2020. In a time when it is essential to gain 'competitive advantage' in a sometimes turbulent market, this price book provides instant-access cost information and forms a one-stop reference. ... along with the standard features you have come to expect from SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK: for budgeting: estimating principles, on-cost advice, method-related charges for resource costings: labour costs, plant costs, material prices for rapid cost information: approximate estimates, dayworks, cost indices for plant and labour allowances: production rates, outputs, man hour constants for detailed pricing: unit costs with full

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breakdown, or specialist prices, with advice on item coverage, waste allowances and comparative costs for incidental advice: tables and formulae, technical information, professional advice 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)

SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2020, 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 2020 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2020. As well as an overhaul of prices, several new items have been added, including: a mental health cost model a primary health care cost model expanded ranges of entrance matwells and of Forticrete blocks ... 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

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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)

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

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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.

Now in its 40th edition, Spon's External Works and Landscape Price Book 2021 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. 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. This NRM edition provides a revised and updated street furniture section. It also includes several new items: Kinley systems – Metal edgings and systems for landscapes and podiums New cost evaluations of water features Stainless steel landscape channel drainage 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

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- 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)

This new edition of Spon's Irish Construction Price Book, edited by Franklin + Andrews, is the only complete, tailored and up-to-date source of cost data for the Irish construction industry. This price book is an essential aid to profitable contracting for all those operating in Ireland's buoyant construction industry. All the materials costs,

A range of factors are all combining to propel input cost inflation. Higher international logistics costs, returning demand from industry workload, and higher global metals prices are some of the ingredients to quicker building cost inflation. Whilst some EU materials exporters to the UK are adjusting to Brexit, other EU exporters — initially smaller or specialist firms hit proportionally harder — are now deciding not to supply the UK at all, because the additional red tape involved makes it not commercially viable. If this trend replicates across the whole EU to UK supply chain, visible disruption and higher prices are likely until other sources of supply begin to increase in volume and step in to address these supply issues. Among other exporters continuing to supply the UK, significant price increases are being applied to cover the permanent Brexit non-tariff barriers and additional administrative processes.

**SPON'S ARCHITECTS' AND BUILDERS' PRICE**

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BOOK 2022, 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 2022 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2022. As well as an overhaul of prices, 145 new items have been added including: Two new Cost Models for school refurbishment Primary Healthcare Fit-Out Plus, expanded range of cast iron rainwater goods expanded range of matwells expanded range of vinyl floor finishes Ecotherm insulation 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)

In today's economic turmoil most materials costs are still rising but tender prices are falling sharply. So looking at

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price lists is not enough – you need Spon's Architects' and Builders' Price Book 2010 to find out what contractors are actually charging and to get for real price data. Compiled by Davis Langdon, Spon's Architects' and Builders' Price Book provides the most accurate, detailed and professionally relevant construction price information currently available for the UK. Its unique Tender Index, updated through the year, provides an ongoing reality check and adjustment for changing market conditions. This is the only price book which sets out a detailed cost base for Major Works contracts exceeding £3,500,000 in value. Major changes have been made to this 135th edition: Overheads and profits have been revised sharply downwards to 2.5% in line with actual levels. Preliminaries have also been dropped to 13%, on a lower cost base. And labour rates have been adjusted to reflect today's economic conditions. As well as updating all prices, Spon's Architects' and Builders' Price Book 2010 includes about 150 new Measured Works items, including: Additional ACO drainage systems such as Qmax – a large capacity drainage channel and Kerbdrain made from recycled and recyclable material An overhauled Kalzip roofing section Plus, over 900 key Approximate Estimate items with high & low rate ranges And 13 elemental building cost models Buyers of this 2010 edition can make a free internet download of Spon's Architects' and Builders' price data, which will run to the end of 2010 and: – Access Spon's new Approximate Estimates rate data, as well as the Measured Works data – Produce estimate and tender documents – Generate priced or unpriced

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schedules – Adjust rates and data and enter rogue items  
– Export schedules into Excel – Carry out an index search This year, for the first time, the download includes a versatile and powerful ebook. ...plus all 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 – 600 pages of Major and Minor Works items – Hundreds of alternative materials prices, easily substituted into the build-up calculations, 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 – Updated, free of charge, every four months – see insider for registration details.

Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk)  
Spon's Civil Engineering and Highway Works Price Book 2009 is more than just a price book. It provides a comprehensive work manual that many in the civil engineering, surveying and construction business will find it hard to work without. It gives costs for both general and civil engineering works and highway works, and shows a full breakdown of labour, plant and material elements, with labour rates updated in line with the latest CIJC wage agreement. This 23rd edition, in its easy to read format, incorporates a general review throughout, including updates to the Capital Allowances and VAT and Construction sections to reflect the latest government legislation. This year, for the first time, the download includes a versatile and powerful ebook.

Captures real material, plant and labour costs from the UK's major live rail, civils and highways projects. SPON'S CIVIL

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ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2021 from AECOM gives a full breakdown of labour, plant and material elements, with labour rates updated. Cost guidance is given at a number of levels, varying from the more general functional costs to detailed resource costing; and in conformity with CESMM4 and the Highways Method of Measurement, and updated to the CIJC wage agreement. This 35th edition gives more items on shafts, tunnelling, drainage and water proofing – covering some brand new materials and methods. Notes have been added to tunnelling, viaducts, D-walls and piling under the output section. The book partially reflects costs and new ways of working resulting from the Covid-19 pandemic. 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. ... along with the standard features you have come to expect from SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK: for budgeting: estimating principles, on-cost advice, method-related charges for resource costings: labour costs, plant costs, material prices for rapid cost information: approximate estimates, dayworks, cost indices for plant and labour allowances: production rates, outputs, man hour constants for detailed pricing: unit costs with full breakdown, or specialist prices, with advice on item coverage, waste allowances and comparative costs for incidental advice: tables and formulae, technical information, professional advice 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)

All the cost data you need to keep your estimating accurate, competitive and profitable.

Construction prices rose over the last year by 5%, according to AECOM's tender price index, with construction price

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inflation continuing to run above the long-run average. The main drivers are rising input costs. Producer price indices have moved up at a clip in recent quarters, with sharp increases in prices for materials and fuels consumed by UK manufacturers. Demand- and supply-side factors make the probability of short-term price falls very slim. SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2018, 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, 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 a VitalSource® ebook of this 2018 edition. This versatile and powerful online data viewing package is available for use until the end of December 2018. Major changes have been made to this 143rd edition: New Cost Models for a retail distribution unit, a palliative care unit, and a cinema As well as an overhaul of prices, several new items have been added, including: An expanded range of beam & block flooring Rainwater harvesting – with a precast concrete tank A precast concrete flow attenuation system Precast concrete communication boxes ... 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, two or

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three times a year – see inside for registration details. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk)

This is the most comprehensive and realistic guide to Windows Server 2012 planning, design, prototyping, implementation, migration, administration, and support. Extensively updated, it contains unsurpassed independent and objective coverage of Windows Server 2012's key innovations, including improved virtualization components, enhanced security tools, new web and management resources, and Windows 8 integration. Windows Server 2012 Unleashed reflects the authors' extraordinary experience implementing Windows Server 2012 in large-scale environments since its earliest alpha releases, reaching back more than two years prior to its official launch. Microsoft MVP Rand Morimoto and his colleagues fully address every aspect of deploying and operating Windows Server 2012, including Active Directory, networking and core application services, security, migration from Windows Server 2003/2008, administration, fault tolerance, optimization, troubleshooting, and much more. Valuable for Windows professionals at all skill levels, this book will be especially indispensable for intermediate-to-advanced level professionals seeking expert, in-depth solutions. Every chapter contains tips, tricks, best practices, and lessons learned from actual deployments: practical information for using Windows Server 2012 to solve real business problems. Plan and migrate from Windows Server 2003 and 2008 Leverage powerful capabilities that are truly new in Windows Server 2012 Install Windows Server 2012 and the GUI-less Windows Server Core Upgrade to Windows Server 2012 Active Directory Utilize advanced AD capabilities including federated forests and identity management Plan and deploy network services, from DNS and DHCP to IPv6, IPAM, and IIS Protect systems and data with server-level security, transport-level security, and

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security policies Deliver true end-to-end secured anytime/anywhere access to remote/mobile clients Efficiently configure and manage users, sites, OUs, domains, and forests through Server Manager console Create more fault-tolerant environments with DFS, clustering, and Network Load Balancing Leverage major Hyper-V virtualization improvements in availability, redundancy, and guest support Manage Active Directory more efficiently with Active Directory Administrative Center, Best Practice Analyzer, and PowerShell scripts Systematically tune, optimize, debug, and troubleshoot Windows Server 2012

The definitive M&E price book with additions to the measured works, updates to approximate estimating and new engineering features. Spon's Mechanical and Electrical Services Price Book 2022 continues to be the most comprehensive and best annual services engineering price book currently available, providing detailed pricing information across the full range of mechanical and electrical services, together with higher-level costs for a diverse range of systems and different building applications. Use the access code inside the front cover of the book to get set up with an ebook of this 2022 edition available for access and use until the end of December 2022. All the standard features you have come to expect from SPON'S are also included, considered essential for today's services cost professional: detailed materials prices, labour constants, labour costs and measured work prices for mechanical and electrical works, from above ground drainage to automatic transfer switches, and circuit breakers to sprinkler systems an extensive Approximate Estimating section for quick, rule-of-thumb pricing of mechanical or electrical installations, together with elemental services costs for different types and standard of buildings full details of wage rates, daywork and cost indices on a national and Central London basis. an overhauled index

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and guidance notes 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)

SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2019 from AECOM gives costs for both general and civil engineering works and highway works. It provides a full breakdown of labour, plant and material elements, with labour rates updated. cost guidance is given at a number of levels, varying from the more general functional costs to detailed resource costing, and in conformity with CESMM4 and the Highways Method of Measurement. In this 33rd edition: More emphasis has been given to sampling from major projects – of £20-£100m in value with no acute access or ground condition problems and run under NEC contracts. The rates, prices and outputs in the Resources and Unit Cost calculations include allowances for wastage, normal productivity and efficiency. Plus prices from specialists More research with contractors and suppliers allows for a more confident forecast in a volatile market – but outliers have been largely excluded. Prices are based more strongly on global structural steel grades and rates and extrapolated accordingly. Pipe lining is now included, as being more effective and economical than replacement of pipes in maintenance drainage works. Consideration is given to the possible scarcity of skilled labour. Use the access code inside the front cover of the book to get set up with an ebook of this 2019 edition on the VitalSource® Bookshelf platform. This versatile and powerful online data viewing package is available for use until the end of December 2019. ... along with the standard features you have come to expect from SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK: for budgeting: estimating principles, on-cost advice, method-related charges for resource costings: labour costs, plant costs, material prices for rapid cost information:

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approximate estimates, dayworks, cost indices for plant and labour allowances: production rates, outputs, man hour constants for detailed pricing: unit costs with full breakdown, or specialist prices, with advice on item coverage, waste allowances and comparative costs for incidental advice: tables and formulae, technical information, professional advice updates, free of charge, two or three times a year – see inside for registration details. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk)

Over £6 billion is scheduled for investment in the UK's railway infrastructure over the next few years, with £1.2 billion committed to enhancement projects, £1.3 billion to infrastructure maintenance and £1.2 billion on track renewals. Significant investment is also planned in signalling, telecommunications, electrification, stations and depot buildings. Bidding for, winning and completing this work requires an accurate knowledge of the costs, work and resources involved. Spon's Railways Construction Price Book provides that knowledge. Any company looking to participate in the regeneration of the UK's railway network, will find the guidance provided here an essential strategic asset.

Compiled from years of specialist experience, this book provides an understanding of the key drivers and components that affect the cost of railway projects. The first edition rapidly became essential reading for designers, engineers, surveyors, project managers, contractors and all those involved in the railway industry. This improved and extended second edition is destined to take its place.

With tender prices rising slightly, looking at price lists is not enough – you need SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2011 to get a competitive edge. SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK, compiled by Davis Langdon, provides the most accurate, detailed and professionally relevant construction price

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information currently available for the UK. Its unique Tender Index, updated through the year, provides an ongoing reality check and adjustment for changing market conditions. This is the only price book which sets out a detailed cost base for major works contracts exceeding £3,500,000 in value, as well as minor works. Major changes have been made to this 136th edition: Overheads and profits have been kept low and in line with actual levels. Preliminaries have also been dropped to 11%, on a lower cost base. And labour rates have been adjusted to reflect today's fragile market. As well as an overhaul of prices, Spon's Architects' and Builders' Price Book 2011 includes: new Measured Works items including bio diverse roofs; Clayboard void formers; fire resisting glass blocks; UPVC window options (coloured, Secured by Design); glazing (curve cutting, drill holes); insulating panels (Kooltherm, Thermafloor, Thermaline); more internal door options; blister tactile paving; Metsec SFS framing; Ecosil paint new Approximate Estimating items: lift pits; Corium brick tiles; solar hot water; photovoltaic cells; and polished plaster extra elemental building cost models on land remediation; school refurbishment; and office refurbishment. Buyers of this 2011 edition can make a free internet download of SPON'S ARCHITECTS' AND BUILDERS' price data, which will run to the end of 2011 and: Access Spon's new Approximate Estimates rate data, as well as the Measured Works data Produce estimate and tender documents Generate priced or unpriced schedules Adjust rates and data and enter rogue items Export schedules into Excel Carry out an index search. This year, for the first time, the resources include a versatile and powerful ebook.

In this book, leading experts provide timely and comprehensive information on methods for conditional mutagenesis in the mouse and their application to model human physiology and pathophysiology. The book illustrates

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how sophisticated genetic manipulations of the mouse genome are employed to model human diseases and to identify underlying molecular mechanisms. In addition, it considers the development of new drugs to treat human diseases.

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 Pecalif® 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

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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)

Have you ever had to provide accurate costs for a new supermarket or a pub "just an idea...a ballpark figure..." ? The earlier a pricing decision has to be made, the more difficult it is to estimate the cost and the more likely the design and the specs are to change. And yet a rough-and-ready estimate is more likely to get set in stone. Spon's First Stage Estimating Handbook is the only comprehensive and reliable source of first stage estimating costs. Covering the whole spectrum of building costs and a wide range of related M&E work and landscaping work, vital cost data is presented as: costs per square metre elemental cost analyses principal rates composite rates. Compact and clear, Spon's First Stage Estimating Handbook is ideal for those key early meetings with clients. And with additional sections on whole life costing and general information, this is an essential reference for all construction professionals and clients making early judgements on the viability of new projects.

Recovery in construction is still on track. Business confidence is increasing – but still not yet secure. Following the 18% fall in tender prices between 2008 and 2013, price levels are beginning to recover some lost ground, particularly in the residential sector and with London based projects. It is important to make sure tenders are competitive, whilst minimising your risk as input material prices and labour rates continue to rise and tender prices are forecast to increase an average of 4.5% over the next 3 years, reaching the pre 2008 recession levels in 2017. Spon's Architect's and Builders' Price Book, 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, gives an ongoing reality check and

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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 £3,500,000 in value. Use the access code inside the front cover of the book to get set up with internet access to this 2015 edition until the end of December 2015. We now provide SPON'S Online, a versatile and powerful online data viewing package. Major changes have been made to this 140th edition: As well as an overhaul of prices, over new items have been added. These include: New cost models for Business Parks and Data Centres An expanded range of Kingspan roof and wall claddings New ASSA ABBLOY sectional overhead doors, including rapid opening and fabric New ASSA ABBLOY industrial dock levellers and shelters An increased range of Altro safety flooring and resin flooring systems New Altro Whiterock hygiene doorsets

Construction projects involve a complex set of relationships, between parties with different professional backgrounds trying to achieve a very complex goal. Under these difficult circumstances, the quality of information on which projects are based should be of the highest possible standard. The line-based, two dimensional drawings on which conventional construction is based render this all but impossible. This is the source of some major shortcomings in the construction industry, and this book focuses on the two most fundamental of these: the failure to deliver projects predictably: to the required quality, on time and within budget; and the failure of most firms in the industry to make a survivable level of profit. By transforming the quality of information used in building, BIM aims to transform construction completely. After describing and explaining these problems, the way in which BIM promises to provide solutions is examined in detail. A discussion of the theory and practice of BIM is also provided, followed by a review of various recent surveys of BIM usage

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in the US, UK and selected European economies. The way in which other industries, including retail and manufacturing, have been transformed by information are explored and compared with current developments in the deployment of BIM in construction. Five case studies from the UK show how BIM is being implemented, and the effects it is having on architects and contractors. This book is perfect for any construction professional interested in improving the efficiency of their business, as well as undergraduate and postgraduate students wishing to understand the importance of BIM.

The beginnings of recovery? Some materials costs are rising, and so are direct labour costs. Spon's Architects' and Builders' Price Book 2014 gives you the total picture. Spon's Architects' and Builders' Price Book 2014, compiled by Davis Langdon, still provides the most accurate, detailed and professionally relevant construction price information for the UK. Its unique Tender Index, updated through the year, 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 £3,500,000 in value. NRM1 and NRM2 are used instead of SMM7R as the measurement standards throughout. As well as an overhaul of prices, over 300 new items have been added to Spon's Architects' and Builders' Price Book 2014. These include: New cost models for out of town retail, office to residential conversion, and a

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museum fit out New cost models for out of town retail, office to residential conversion, and a museum fit-out A re-formatted Preliminaries example, and typical hire rates for common preliminaries items Automated car parking systems - (simple stack systems to fully automatic) Plasmor concrete blocks Diamond drilling, now completely overhauled ETFE roofing Extended range of underground drainage Flowing screeds ... 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. Updated, free of charge, two or three times a year – see inside for registration details. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk) Other titles in the Spon's Price Book Series: SPON'S MECHANICAL AND ELECTRICAL SERVICES PRICE BOOK 2014 SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2014 SPON'S EXTERNAL WORKS AND LANDSCAPE PRICE BOOK 2014 An essential reference for everybody concerned with the calculation of costs of mechanical and electrical works. Cost Engineer The construction sector is

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improving. Will skills shortages derail the upturn?  
Spon's Mechanical and Electrical Services Price Book 2016

Spon's Construction Resource Handbook is the first book to present critical information about materials, labour and plant constants required for the estimating process under one cover. It covers all areas of the construction industry and will provide all those involved in the preparation of tenders, cost estimates and first-stage estimates with the information they need to work with greater confidence and prepare more accurate estimates and tenders. With a unique style of presentation, it includes thousands of item descriptions and a comprehensive collection of data, including labour and plant outputs, materials, elemental breakdowns and lists of relevant organizations. Up-to-date and comprehensive, Spon's Construction Resource Handbook will be an indispensable reference for estimators, quantity surveyors, engineers and architects working in local government and professional practices, government agencies, and contractors in all fields of construction. It will provide an invaluable reference base for negotiation of new rates where variations occur on a contract.

This pocket book includes everyday information which the architect/designer has to find from a wide variety of sources. The book includes data about planning, structure, services, building elements,

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materials and useful addresses.

Especially written for contractors and small businesses carrying out small works, Spon's House Improvement Price Guide contains accurate information on thousands of rates, each broken down to labour, material overheads and profit.

Now in its 39th edition, Spon's External Works and Landscape Price Book 2020 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. Use the access code inside the front cover of the book to get set up with an ebook of this 2020 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2020.

This NRM edition provides a detailed breakdown of preliminaries in a series of cost models for different projects. It also includes several new items: Recycled versions of a number of landscape materials and systems – especially retaining walls, fencing and barriers, ground protection grids, and street furniture; New equipment for playgrounds; Aggregates; Haddonstone balustrades, and New flag and block

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product ranges of Marshalls paving, especially permeable formats 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)

Spon's European Construction Costs Handbook is the only book of its kind - a unique compilation of cost data on the single most important construction market in the world. This updated edition expands its coverage of countries and once again gives details of select difficult-to-research markets in Eastern Europe as well as Western Europe, North and South. The book includes: \* key data on the main economic and construction indicators as well as on geography and population \* an outline of the national construction industry covering structure, tendering and contract procedures, liability and insurance and regulation and standards. \* labour and materials cost data \* measured rates (in local currency) for up to 60 or so construction work items \* approximate

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estimating costs for a range of building types \* regional variation percentages, tax details, construction cost and retail price indices. Exchange rates with £ sterling, euro and US\$ \* addresses of authorities, professional institutions, trade associations etc. To facilitate country to country comparisons the book also includes a Comparative Data section, where figures from the individual country chapters are grouped in tables on economy, geography, construction output, input costs per square metre for offices, warehouses and housing. Figures here are given in national currency, sterling, US dollars and Euros.

The definitive M&E price book with additions to the measured works, updates to approximate estimating and new engineering features. Spon's Mechanical and Electrical Services Price Book 2021 continues to be the most comprehensive and best annual services engineering price book currently available, providing detailed pricing information across the full range of mechanical and electrical services, together with higher-level costs for a diverse range of systems and different building applications. 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. In this year's book:

- An overhaul of the uninterruptible power supply section, and revised costs for air source heat pumps
- new items including: – HDPE pipe for above ground drainage systems – fire protection

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**SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2019**, 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, gives an ongoing reality check and allows you to adjust for changing market conditions. Although it suits a wide

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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 2019 edition on the VitalSource® Bookshelf platform. This versatile and powerful online data viewing package is available for use until the end of December 2019. As well as an overhaul of prices, several new items have been added, including: Semi and automatic pedestrian doors -- revolving, sliding, and swing An expanded range of industrial shutter doors Industrial docks and shelters An expanded range of aluminium gutters ... 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, two or three times a year – see inside for registration details. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk)

Strong output demand over the last year has stretched the industry. The issues are being felt by all firms across the delivery chain – from clients to subcontractors. Capacity constraints almost always manifest themselves in prices. Increased tender prices have become the primary symptom of these supply-side issues. The main driver of new work output growth over the last 18 months

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is slowing. Both the public and private housing sectors are quickly reversing all of their recent upward trends when looked at on a yearly growth basis. The counterpoint to this is that the yearly growth figures are still positive, meaning that new work continues to flow. SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2016, 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, 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 £3,500,000 in value. Use the access code inside the front cover of the book to get set up with internet access to this 2016 edition until the end of December 2016. We now provide SPON'S Online, a versatile and powerful online data viewing package -- online or offline on your PC/Mac, smartphone or tablet. You can browse and search the content across all the price books you own, make notes and highlights and share these notes with other users. Major changes have been made to this 141st edition: For the first time, plant prices have been separated out in the measured works section. As well as an overhaul of prices, several new items have been added, including: Two new cost models for a stand-alone private patient ward within a larger hospital complex, and an extra care home An expanded range of ACO drainage channels Precast concrete 'Perfect Manholes' by CPM Shower-wall laminated panelling walling An

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expanded range of architectural pre-finished blockwork ... 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. Updated, free of charge, two or three times a year – see inside for registration details. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk) Other titles in the Spon's Price Book Series: SPON'S MECHANICAL AND ELECTRICAL SERVICES PRICE BOOK 2016 SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2016 SPON'S EXTERNAL WORKS AND LANDSCAPE PRICE BOOK 2016 Spon's Architects' and Builders' Price Book 2004 is the most detailed, professionally relevant source of construction price information currently available anywhere. With competition growing fiercer throughout the industry and with increasing pressure to obtain a 'competitive advantage', the A and B's unique tender index will be more valuable than ever before. This is the only price book that publishes details of its cost base in such a way that it can be adjusted to allow for market conditions that affect building prices. A separate minor works section on coloured paper covers contracts of around £65,000 in value. The A and B comes with a 'free' CDROM that enables the reader to view the entire

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Captures real material, plant and labour costs from the UK's major live rail, civils and highways projects. SPON'S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2022 from AECOM gives a full breakdown of labour, plant and material elements, with labour rates updated. Cost guidance is given at a number of levels, varying from the more general functional costs to detailed resource costing; and in conformity with CESMM4 and the Highways Method of Measurement, and updated to the CIJC wage agreement. 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(R) Bookshelf platform, available for access and use until the end of December 2022. ... along with

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This unique handbook collects together a comprehensive and up-to-date range of indices measuring construction costs and price movements. The authors give guidance on the use of the data making this an essential aid to accurate estimating.

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