

<p><b>Editors</b>  Davis Langdon LLP  MidCity Place  71 High Holborn  London WC1V 6QS  Tel: 0207 061 7000  Fax: 0207 061 7061  E-mail: <a href="mailto:data.enquiry@davislangdon.com">mailto:data.enquiry@davislangdon.com</a></p>	<p><b>Spon's  Price Book  Update  2005</b></p> <p><b>Nr. 3</b></p>
<p><b>Publishers</b>  Taylor &amp; Francis  2 Park Square  Milton Park, Abingdon  Oxon OX14 4RN  Tel: 0207 017 6001  Fax: 0207 017 6699  Web: <a href="http://www.pricebooks.co.uk/">http://www.pricebooks.co.uk/</a></p>	
<p style="text-align: center;"><b>INCORPORATING CHANGES UP TO 1<sup>st</sup> MAY 2005</b></p>	

The *Update* covers the *Architects' and Builders' Price Book*, the *Civil Engineering and Highway Works Price Book*, the *Landscape and External Works Price Book* and the *Mechanical and Electrical Services Price Book*. Details of changes in material prices, wage rates etc. are given and the various indices and adjustment factors presented in the books are brought up to date.

Each of the Price Books is dealt with separately in its own section of the *Update*. Information on changes to the *Architects' and Builders' Price Book* appear on pages 5 to 9, the *Civil Engineering and Highway Works Price Book* on pages 10 to 11, the *Landscape and External Works Price Book* on pages 12 to 13 and the *Mechanical and Electrical Services Price Book* on pages 14 to 19.

Corrections are headed '*Erratum*' and boxed to distinguish them from updated information.

Since the 2002 edition, each series of published updates throughout the year no longer includes a complete history of prior changes. Therefore, if, at any time, you have not previously obtained a copy of an earlier *Update*, please go on-line at [www.Pricebooks.co.uk](http://www.Pricebooks.co.uk) to download a version.

Year 2006 editions of Spon's Price Books will be available in August/September 2005.

**Unless otherwise stated, wages and prices within the four books are still current.**

## **Executive summary based on recent Building Market Forecast**

- Tender prices in London maintain upward momentum – 6% up over the year
- Steel prices dominated 2004 inflation trend

### *Forecast for 2005*

- Steel prices may fall
- Labour rates to rise by 9.5% in June 2005
- Building Cost Index up by 7.6% over next year
- Tender prices to rise by 4 to 5% in Greater London over next twelve months

## **Index trends**

Building tender prices in Greater London in the first quarter of 2005 continued the rise that began in the second half of last year. Analysis of tenders received shows a provisional rise of 1.5% in the first quarter, following a 4% increase in the previous six months. Over the year to the first quarter 2005, Davis Langdon's Tender Price Index shows a rise of just over 6%. This remains lower than most other regions where price rises of up to 9% have been experienced.

Over the last year steel prices have been the big story with structural steel rates increasing by about 50%. Other metals, particularly copper, have also seen further significant rises over the last year or so. Site labour rates have continued to rise as increased workload exerts further demands on an already pressured resource pool, particularly in the North of the country. Current levels of construction workload mean price rises have been passed on to clients wherever possible.

## **Forecast**

The outlook for the construction industry over the next twelve months continues to look rosy. Public sector procurement is set to continue to rise especially as the Labour party was re-elected last week, in accordance with their election manifesto. Private commercial work in the offices and entertainment sectors continues to pick up though the retail sector may be entering a period of retrenchment. The private housing market looks certain to constrict over the year ahead as house prices begin to fall and the buy to let market dries up.

Inflation last year was exacerbated by the unusual influence particularly of steel prices. Few commentators believe that this will be repeated in 2005. In fact, many now believe that prices will come down this year. There are also signs that other metal prices may have peaked though some of the effects of record copper and aluminum prices may still be working their way through the supply chain. The direction of oil prices remains very uncertain: the latest trend is down from the new peak in early April of \$55 a barrel but most believe that prices will remain above \$40 for the next two years. High oil prices will continue to impact on energy, manufacturing and transport costs.

## National Wage Awards between editions

Below we include a schedule indicating revisions to national wage awards expected within this series of three *Updates* for the 2005 editions.

<b>Agreements in books</b>	<b>Next review: in 2005 editions</b>	<b>Notes:</b>
1. Building and Civil Engineering Industry wages (third part of a three-year agreement) <i>Spon's A&amp;B 2005 pp 77-78, 84-86</i> <i>Spon's CE 2005 pp 33-38</i>	27 June 2005  28 June 2004 28 June 2004	Planned for Spon's 2006 editions (basic rates will rise by 9.5%)
2. BATJIC wages <i>Spon's A&amp;B 2005 p 78</i>	13 June 2005 7 June 2004	Planned for Spon's 2006 editions (increase not yet determined)
3. The Joint Industry Board for Plumbing Mechanical Engineering Services in England and Wales (second part of a two-year agreement) <i>Spon's A&amp;B 2005 pp 79, 87</i> <i>Spon's M&amp;E 2005 pp 546-548</i>	3 January 2005  5 January 2004 5 January 2004	Details of the revised wage agreement were included in <i>Update 2005/2</i> (basic rates will rise by 6.0%)
4. Scottish and Northern Ireland joint Industry Board for the Plumbing Industry <i>Spon's A&amp;B 2005 p 80</i>	30 May 2005  22 March 2004	Details of the next wage agreement are included in this <i>Update</i> (basic rates will rise by 5.0 – 6.6%)
5. New wages for Agricultural workers as Order 2004 (Number 1) <i>Spon's Landscape 2005 p 8</i>	1 October 2004  1 October 2003	Details of the revised wage agreement were included in <i>Update 2005/1</i>
6. The Joint Conciliation Committee of the Heating, Ventilating and Domestic Engineering Industry (second part of a three-year agreement) <i>Spon's M&amp;E 2005 pp 51-55, 541-545</i>	3 October 2005  4 October 2004	Planned for Spon's 2006 editions (basic rates will rise by 5.1%)
7. The Joint Industry Board for the Electrical Contracting Industry (first part of a new three-year agreement) <i>Spon's M&amp;E 2005 pp 411-413, 549-554</i>	10 January 2005  5 January 2004	Details of the revised wage agreement were included in <i>Update 2005/2</i> (National rates will rise by 3.7% and London rates by 3.3 – 6.2%)

## **Hot Rates**

For the latest rates, please refer to the 2006 editions of *Spon's Price Books*, likely to be available in August/September 2005.

## **New Items**

Some of the new items expected to be included in the 2006 editions of *Spon's Price Books*.

- Additional stainless steel brick reinforcement items
- Buffalo fencing
- Containerised trees
- Higher efficiency boilers and chillers
- Internal fire walls
- Irrigation
- LG3 Light fittings
- Micro CHP units
- Movable partitioning
- Precast concrete walling units
- Stainless steel reinforcement type 316

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# Spon's Architects' and Builders' Price Book 2005

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## Summary of additional changes and corrections identified in *Update 2005/3*

- (i) Revised wages for the Plumbing Industry in Scotland and Northern Ireland
- (ii) Revisions to some material prices
- (iii) Revisions to indices and location factors

### Rates of wages

*p. 80*

#### PLUMBING AND MECHANICAL ENGINEERING SERVICES INDUSTRY

Authorised rates of wages agreed by the Joint Industry Board for the Plumbing Industry in Scotland and Northern Ireland.

New basic rates of pay apply from 30 May 2005

<b>Operatives Plumbers &amp; Gas Service Operatives</b>	<b>£</b>
Plumber and Gas Service Fitter	9.51
Advanced Plumber and Gas Service Engineer	10.82
Technician Plumber and Gas Service Technician	11.99
Plumbing Labourer	8.47

#### Apprentice Plumbers and Fitters

1 <sup>st</sup> Year Apprentice	2.75
2 <sup>nd</sup> Year Apprentice	4.05
3 <sup>rd</sup> Year Apprentice	4.94
4 <sup>th</sup> Year Apprentice	6.38

#### Adult Trainees (as from 31 January 2005)

Year 1	5.03
Year 2	5.81
Year 3	7.24

### Major and Minor Measured Works Prices

*pp. 83 to 696*

#### Plumbing Operatives all-in rate per hour

*p. 87*

The all-in rate for plumbing operatives rose by approximately +6% following a national increase to hourly rates on 3<sup>rd</sup> January 2005.

Together with 7.5% overheads and profit, this will have the effect of adding approximately +6.4% to the labour content of all above-ground plumbing items in sections R, S and T in both the Major and Minor Works sections of this book.

See *Update 2005/2* for a build-up to a new all-in rate of £14.80 per hour

*Erratum*

*pp. 157 to 158*

Six items of Class B Engineering brick walls, printed at the bottom of page 157, have been replicated at the top of page 158.

Please ignore/delete the items at the bottom of page 157.

The following table shows the main changes in materials and fuel costs as reflected in the Office for National Statistics Producer Price Indices:

<b>Industry generally</b>	<b>Percentage change over the last 11 months April 2004 to Mar 2005*</b>
Consumer Prices Index (CPI)	+ 1.5%
Materials and fuels purchased by manufacturing industry	+ 11.4%
Materials and fuel purchased by manufacturing industry excluding food, beverages, tobacco and petroleum industries	+ 7.5%

More specific figures from the DTI's Monthly Statistics of Building Materials and Components show that, since the spring of 2004, when the majority of Spon's prices were collected, overall construction material prices have risen as follows:

	<b>Percentage change over the last 10 months April 2004 to Feb 2005*</b>
Construction materials generally	+ 5.4%
Non-house building materials (other work)	+ 7.2%
House building materials	+ 3.0%
Repair and maintenance	+ 3.9%

\* Provisional figures

We have been advised of the following significant material price changes since the 2005 Price Books were compiled in the spring of 2004, and, more recently, some manufacturers have been adding energy surcharges to their invoices due to the current high price of oil.

<b>Key Materials</b>	<b>Percentage change</b>
Clay pipes and fittings	+ 7%
Common bricks	+ 15%
Concrete roof tiles	+ 5% to + 6%
Facing and other bricks	+ 10% to + 15%
Hardcore	+ 3% to + 5%
Plaster	+ 3.5%
Plasterboard partitions and linings	+ 5%
Plasterboard metalwork	+ 30% to + 35%
Ready-mixed concrete	+ 6% to + 8%
Reinforcement	+ 15%
Sand and gravel	+ 7%
Steel hollow sections	+ 17.5%
Structural steelwork	+ 15%
Thermalite blocks	+ 15%
Universal bearing piles	+ 30%
UPVC drains	+ 10% to + 15%

## **Approximate Estimating**

### **Building Costs and Tender Prices Index**

#### **Building Costs**

*p. 699*

The table of building cost indices may be updated as follows:

<i>Year</i>	<i>First quarter</i>	<i>Second quarter</i>	<i>Third quarter</i>	<i>Fourth quarter</i>	<i>Annual average</i>
2004	579	586	617	618	600
2005	621 (P)	624 (F)			

#### **Tender Prices**

*p. 700*

The table of tender price indices may be updated as follows:

<i>Year</i>	<i>First quarter</i>	<i>Second quarter</i>	<i>Third quarter</i>	<i>Fourth quarter</i>	<i>Annual average</i>
2004	434	436	442	454	442
2005	461 (P)	466 (F)			

Our May 2005 *Market Forecast* anticipates that tender prices could rise by 4% to 5% in Greater London over the year ahead.

## Regional Variations

pp. 701 to 703

The table below indicates how building prices vary around the country. The figures are averages and, inevitably, not all trades or items of work will vary exactly in line with the differences shown. However the figures provide general indications of what variations can be expected. The principal driving force behind the variations is differing labour rates between the regions.

The table indicates current variations in price level from outer London for the various regions of the UK. It also shows a forecast second quarter 2005 tender price index for each region, based upon an outer London forecast figure of 466 and the percentage adjustments advised to the Major Works measured rates section of *Spon's Architects' and Builders' Price Book 2005*, based on an index of 455 (1976=100).

	Forecast second quarter 2005 tender price index 466*	% adjustment to <i>Spon's Major Works</i> section 455
Outer London	466	+ 2.5
Inner London	502	+ 10.3
East Anglia	400	- 12
East Midlands	373	- 18
Northern	364	- 20
Northern Ireland	280	- 38.5
North West	377	- 17
Scotland	373	- 18
South East	430	- 5.5
South West	377	- 17
Wales	368	- 19
West Midlands	377	- 17
York/Humberside	354	- 22

\* Mid-point of forecast range from the *Market Forecast* published in May 2005

The figures represent broad averages for the regions. Differences will occur within regions and further adjustments will be needed for city centre or isolated locations.

## Building Prices per Functional Unit/Building Prices per Square Metre Approximate Estimates

pp. 705 to 837

### Erratum

p. 709

The tender price index for the Building Prices per Square Metre section, specified in paragraph one, is 455 (1976=100), and not 435, as indicated.



Building prices given under these headings are average prices on a 'fluctuating basis' for typical buildings based upon DL's tender price index level of 455. (1976=100). The forecast index for the second quarter of 2005 is 466. Therefore prices in these sections should be increased by approximately 2.4% to reflect current levels in the Outer London area.

## Cost Limits and Allowances

### HOSPITAL BUILDINGS

*p. 839*

These allowances can be updated in accordance with the latest MIPS indices. The latest figures and forecasts available from Quarterly Briefing are:

	<b>Firm price tenders</b>	<b>Variation of price tenders</b>
2003 Q1	397	387
2003 Q2	400	389
2003 Q3	400	391
2003 Q4	405	394
2004 Q1	411 (P)	398 (P)
2004 Q2*	419	412
2004 Q3*	425	416
2004 Q4*	430	421
2005 Q1*	436	427
2005 Q2*	441	433

\* Forecasts

### Property Insurance

*pp. 873 to 875*

The allowances for inflation should be updated in accordance with the latest cost and tender indices for pages 699-700. Longer term forecast figures for updating the PROPERTY INSURANCE EXAMPLE are as follows:

<b>Year</b>	<b>4Q Cost Index</b>	<b>4Q Tender Index</b>
2004	618	454
2005	666	477
2006	690	500
2007	715	528

### Landfill Tax

*p. 898*

From 1 April 2005, the Landfill Tax rate for "all other taxable wastes" increased from £15 to £18 per tonne.

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# Spon's Civil Engineering and Highway Works Price Book 2005

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## Summary of additional changes and corrections identified in *Update 2005/3*

- (i) Revisions to indices

### Resources

#### Basic Materials Prices

*pp. 39 to 116*

Concrete supply prices have risen by approximately £4 to £5 per m<sup>3</sup> or from 6% to 8%. Further information on other material price changes are provided in the *Spon's Architects' and Builders' Price Book* section of this *Update*.

#### Unit Costs

*pp. 149 to 480*

Published prices are still relevant.

### Cost and Tender Prices Indices

#### Price Adjustment Formula Indices

*pp. 549 to 550*

The table of Price Adjustment Formulae Indices may be supplemented as follows:

Year	Q	1	2	3	4	5	6	7	9	10	11a
2003	1	1319	959	1668	1699	1134	1758	2824	2639	879	351
	2	1325	965	1729	1715	1123	1758	2935	2113	901	360
	3	1405	989	1729	1706	1117	1738	2816	2142	915	361
	4	1405	994	1642	1720	1117	1738	2819	2250	926	361
2004	1	1406	999	1697	1787	1116	1769	2906	2268	999	437
	2	1415	1006	1882	1754	1122	1777	2927	2510	1068	551
	3	1506	1038	1667	1780	1133	1777	2929	2952	1033	546
	4	1506	1042	1650	1783	1133	1820	2853	2872	975	540
2005	1	1507	1055	1660	1861	1149	1826	3028	3209	979	529

\* Provisional

**Note:** The figures published relate to the third month of each quarter.

## **A Constructed Cost Index based on the Price Adjustment Formula indices**

*pp. 551 to 552*

The table of the Constructed Civil Engineering Cost Index may be supplemented as follows:

<i>Year</i>	<i>First quarter</i>	<i>Second quarter</i>	<i>Third quarter</i>	<i>Fourth quarter</i>	<i>Annual average</i>
2003	1459	1477	1505	1495	1484
2004	1502	1559	1596	1597	1564
2005	1611*				

\* Provisional

## **The Road Construction Price Index**

*pp. 553 to 554*

Latest figures for civil engineering tender prices as measured by the DTI's 'Tender Price Index of Road Construction' are reproduced below:

Tender Price Index of Road Construction - Base 1995 =100

<i>Year</i>	<i>First quarter</i>	<i>Second quarter</i>	<i>Third quarter</i>	<i>Fourth quarter</i>	<i>Annual average</i>
2003	123	122	118	119	121
2004	120	120	119*	122*	120*

\* Provisional

Source : DTI

## **Approximate Estimates**

### **Industrial and Commercial Buildings and Civil Engineering Facilities**

*pp. 575 to 576*

Building prices per square metre given under this heading are average prices on a 'fluctuating basis' for typical buildings based upon DL's tender price index level of 450. (1976=100). The forecast index for the second quarter of 2005 is 466. Therefore prices in this section should be increased by approximately + 3.5 % to reflect current levels in the Outer London area.

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# Spon's Landscape and External Works Price Book 2005

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## Summary of additional changes and corrections identified in *Update 2005/3*

- (i) Revisions to indices

### Cost Information

#### Rates of Wages

##### 2.2.2 Agricultural Wages, England and Wales

*p. 8*

##### *Erratum*

*p. 8*

In the **Agricultural Wages, England and Wales** table, the Unit for the Overtime pay rates should be £/hour, and not £/week, as indicated.

As from 1 October 2004, minimum rates for Agricultural workers have increased by approximately 5% for standard workers and 5.8% for Craft and Appointment grades, from those effective 1 October 2003. A number of other minor technical and drafting amendments have also been made.

See *Update 2005/2* for further details.

### 3.6 COST INDICES

#### The Constructed Landscaping Cost Index

*p. 22*

The *Constructed Landscaping (Hard Surfacing and Planting) Cost Index* may be updated as follows:

<i>Year</i>	<i>First quarter</i>	<i>Second quarter</i>	<i>Third quarter</i>	<i>Fourth quarter</i>	<i>Annual average</i>
2003	577	582	603	602	591
2004	602	610	639	639	623
2005	640	644*			

\* Provisional

## **Prices for Measured Works**

*pp. 71 to 254*

### **Materials prices**

Reference should be made to the material prices changes notified in the *Spon's Architects' and Builders' Price Book* section of this *Update*. As a general indication, landscaping material prices have risen by an average of 3% over the past year.

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# Spon's Mechanical and Electrical Services Price Book 2005

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## Summary of additional changes and corrections identified in *Update 2005/3*

- (i) Revisions to indices

### Approximate Estimating

#### DIRECTIONS

*Erratum*  
p. 3

The prices shown in this section of the book relate to the second quarter of 2004, and not the second quarter of 2003, as indicated.

#### COST INDICES

p. 4

The tables of cost indices for Mechanical Services and Electrical Services should be revised as follows:

##### Mechanical Services

<i>Year</i>	<i>First quarter</i>	<i>Second quarter</i>	<i>Third quarter</i>	<i>Fourth quarter</i>
2002	410	411	410	442
2003	443	446	447	453
2004	458	463	467	483
2005	486 (P)	488 (F)	490 (F)	503 (F)

##### Electrical Services

<i>Year</i>	<i>First quarter</i>	<i>Second quarter</i>	<i>Third quarter</i>	<i>Fourth quarter</i>
2002	508	508	508	513
2003	530	533	533	541
2004	571	574	576	588
2005	607 (P)	609 (F)	610 (F)	619 (F)

## **Mechanical Installations**

### **DIRECTIONS**

#### **MECHANICAL AND DUCTWORK INSTALLATIONS**

*pp. 51 to 55*

*Erratum*

*p. 51*

#### **MECHANICAL INSTALLATIONS**

The addition to labour rates to cover site and head office overheads should be 21.98%, and not 20%, as indicated.

#### **Material Costs/Measured Work Prices – Mechanical Installations**

*pp. 57 to 410*

According to national statistics, the average inflation in mechanical engineering materials prices over the past ten months, from Apr 2004 to Feb 2005, is + 6.1%.

### **DIRECTIONS**

#### **ELECTRICAL INSTALLATIONS**

*pp. 412 to 413*

*Erratum*

*p. 412*

#### **LABOUR RATE – ELECTRICAL**

In the annual cost of a notional eleven man gang table, the hourly rates displayed apply to an operative date of 5 January 2004, and not 6 January 2003, as indicated.

#### **LABOUR RATE - ELECTRICAL**

*pp. 412 to 413*

The inclusive man-hour cost for electrical operatives rose by approximately +5.0% following a national increase to hourly rates on 10<sup>th</sup> January 2005.

See *Update 2005/2* for a build-up to a new all-in rate of £23.65 per hour.

## Material Costs/Measured Work Prices – Electrical Installations

pp. 415 to 539

According to national statistics, the average inflation in electrical materials prices over the past ten months, from Apr 2004 to Feb 2005, is + 9.4%.

## Rates of Wages

### Mechanical Installations

#### PLUMBING MECHANICAL ENGINEERING SERVICES INDUSTRY

pp. 546 to 548

New basic rates of pay apply from 3 January 2005. See *Update 2005/2* for further details.

### Electrical Installations

#### ELECTRICAL CONTRACTING INDUSTRY

pp. 549 to 554

The Joint Industry Board for the Electrical Contracting Industry has agreed a three-year wage agreement for 2005 – 2007 with effect from 26<sup>th</sup> July 2004.

From and including 10<sup>th</sup> January 2005, the JIB hourly rates of wages shall be as set out below:

#### (i) National Standard Rate:

Grade	Transport Provided	Own Transport
<b>Technician</b> (or equivalent specialist grade)	£ 12.29	£ 12.91
<b>Approved Electrician</b> (or equivalent specialist grade)	£ 10.84	£ 11.46
<b>Electrician</b> (or equivalent specialist grade)	£ 9.94	£ 10.57
<b>Senior Graded Electrical Trainee</b>	£ 8.95	£ 9.51
<b>Electrical Improver</b>	£ 8.95	£ 9.51
<b>Labourer</b>	£ 7.89	£ 8.48
<b>Adult Trainee</b>	£ 7.89	£ 8.48
<b>Adult Trainee</b> (under 21)	£ 5.92	£ 6.36

#### (ii) London Rate:

Grade	Transport Provided	Own Transport
<b>Technician</b> (or equivalent specialist grade)	£ 13.76	£ 14.46
<b>Approved Electrician</b> (or equivalent specialist grade)	£ 12.14	£ 12.84
<b>Electrician</b> (or equivalent specialist grade)	£ 11.13	£ 11.84
<b>Senior Graded Electrical Trainee</b>	£ 10.02	£ 10.65
<b>Electrical Improver</b>	£ 10.02	£ 10.65
<b>Labourer</b>	£ 8.84	£ 9.50
<b>Adult Trainee</b>	£ 8.84	£ 9.50
<b>Adult Trainee</b> (under 21)	£ 6.63	£ 7.12

See *Update 2005/2* for further details



## Daywork

### HEATING AND VENTILATING INDUSTRY

pp. 556 to 558

#### *Erratum*

p. 558

A second copy of page 568 accidentally replaced Page 558.

The correct page 558 is replicated hereafter:

### HEATING AND VENTILATING INDUSTRY

#### MECHANICAL INSTALLATIONS

Calculation of Hourly Base Rate of Labour for Typical Main Grades applicable from 4<sup>th</sup> October 2004.

	FOREMAN	SENIOR CRAFTSMAN plus 2 <sup>d</sup> Welding Skill	SENIOR CRAFTSMAN	CRAFTSMAN	INSTALLER	MATE OVER 18
Hourly Rate from 4 October 2004	12.56	10.81	10.38	9.52	8.63	7.27
Annual standard earnings excluding all holidays, 45.8 weeks x 38 hours	21,859.42	18,813.72	18,065.35	16,568.61	15,019.65	12,652.71
Employers national insurance contributions from 6 April 2004	2,238.90	1,849.05	1,753.26	1,561.68	1,363.41	1,060.44
Weekly holiday credit and welfare contributions (52 weeks) from 6 October 2003	3,247.92	2,832.96	2,730.00	2,524.08	2,312.96	1,988.48
Annual prime cost of labour	27,346.25	23,495.74	22,548.61	20,654.37	18,696.02	15,701.63
<b>Hourly base rate</b>	<b>15.71</b>	<b>13.50</b>	<b>12.96</b>	<b>11.87</b>	<b>10.74</b>	<b>9.02</b>

## Daywork

### ELECTRICAL INDUSTRY

*p. 561*

Calculation of Hourly Base Rate of Labour for Typical Main Grades applicable from 10th January 2005.

	TECHNICIAN	APPROVED ELECTRICIAN	ELECTRICIAN	LABOURER
Hourly Rate from 10 January 2005 (London Rates)	14.46	12.84	11.84	9.50
Annual standard earnings excluding all holidays, 46 weeks x 37.5 hours	24,943.50	22,149.00	20,424.00	16,387.50
Employers national insurance contributions from 6 April 2004	2,633.66	2,275.97	2,055.17	1,538.50
JIB Combined benefits from 10 September 2004	2,626.00	2,385.24	2,238.08	1,900.08
Holiday top up funding	1,225.64	1,101.88	1,023.88	835.64
Annual prime cost of labour	31,428.00	27,912.09	25,741.13	20,661.72
<b>Hourly base rate</b>	<b>18.22</b>	<b>16.18</b>	<b>14.92</b>	<b>11.98</b>

## Index

*pp. 599 to 602*

### *Erratum*

*p. 599*

The last four page numbers in the left hand column have slipped, and need to be moved down one line, as follows:

#### Boilers

forced draft	
cast iron sectional	173
shell steel	175
atmospheric	176
condensing	176

*Erratum*  
p. 601

The majority of page numbers in the left hand column have slipped. Corrected page numbers are given in the following table:

Lighting Track	497	cast iron	
Lightning Protection Equipment	534	soil nitrite rubber joints	90
Luminaires	493	soil EPDM rubber joints	93
LV Switchboards	482	rainwater dry joints	72
LV Switchgear		copper	118
all-in-rates	24	galvanised steel	109
		mechanical grooved	198
Midel-Filled Transformers	420	MDPE	
Mineral Insulated Cables	454	blue	99
Miniature Circuit Breakers	487	yellow	157
Minimum Distance between		MUPVC Waste	
Supports	593	solvent joints	76
Modular Wiring	461	Polypropylene for LTHW	
Moulded Case Circuit Breakers	483	thermally fused joints	207
		Polypropylene Waste	
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Offices	6, 11, 34	Pressfit	
Oil-Filled Transformers	420	copper	133
		stainless steel	137
Pipe Fixings	211	carbon steel	197
Pipe Freezing	241	PVC-C	107
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water	102	joints	
black steel		waste, solvent joints	83
screwed	187	waste, ring-seal joints	87
welded	199	water	105
carbon steel	205	overflow	76
		Stainless Steel	135
		Pipe in Pipe	159