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STATISTICS
BACK-UP

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 12

Trade A

BUILDING AND CONTRACTING

*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

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THREE SHILLINGS NET

In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s.0d. NET

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BUILDING AND CONTRACTING TRADE

THIS REPORT on the Building and Contracting Trade relates to private firms engaged wholly or mainly on work of construction, alteration, repair and maintenance of buildings, highways, sewers, waterworks, harbours and canals; electric wiring, heating and other installation work; housing site preparation; opencast coal mining; and non-electrical work on telegraph and telephone and electrical lines and works and other civil engineering work; it covers work of these kinds carried out on their own account by firms engaged in other trades which maintained separate works departments (e.g., for erection, maintenance and repair of their own premises); it also covers work of these kinds carried out by Government Departments which employed direct labour.

This trade corresponds to minimum list headings 200(1), 200(3), 201, 202(1) and part of 202(2) in the Standard Industrial Classification.

Firms in 1948 that employed 25 or more persons on the average were required to give detailed information on employment, wages and salaries, the usage of materials and fuel and work carried out. Firms employing from 11 to 24 persons on the average supplied similar information, but in rather less detail, while those remaining, that employed ten or fewer persons, provided only basic figures on employment and work carried out.

Firms that employed 11 or more persons distinguished in their returns between work which they carried out as main contractors and as sub-contractors respectively. Main contract work was to be valued inclusive of any work sub-contracted. Consequently, there is duplication in the gross output figures to the extent that such sub-contract work was carried out for main contractors who made returns in this trade.

The output of Government Departments was in general valued at cost i.e., at sums calculated to cover materials used and wages and salaries paid, together with the establishment charges properly attributable to the work carried out. In some instances the basis used for estimating establishment charges in 1948 differed from that used in 1946. The aggregate figures for the two years are thus not strictly comparable. For this reason the figure of net output per head for Government Departments in 1946 should be treated with reserve.

The building and civil engineering establishments of Local Authorities, and constructional work carried out by establishments which were also engaged in the manufacture of structural iron and steelwork, tubular scaffolding or prefabricated houses of steel or aluminium, are the subject of separate reports (Local Authorities (Building and Civil Engineering), Volume 12, Trade B; and Constructional Engineering, Volume 4, Trade F).

Establishments in the Building and Contracting trade in Northern Ireland (which are excluded in 1948 and 1946) accounted in 1935 for about 1 per cent. of the net output for the United Kingdom.

Summary

(i) Larger private firms (a)

TABLE I

	1948(b)		1946(b)	1935(c)
	Firms employing		Total	Total
	25 or more persons	11-24 persons		
Gross output (production)	£'000 701,658	£'000 98,518	£'000 800,176	£'000 499,060
Cost of materials and fuel used and other charges	275,239(d)	38,553(d)	313,792(d)	197,641(d)
Amount paid for work sub-contracted	92,799	7,043	99,842	40,162
Net output	333,620	52,922	386,542	261,257
Wages and salaries of persons employed (e)	252,086	38,366	290,452	209,536
	No.	No.	No.	No.
Average number of persons employed (e)	772,221	140,371	912,592	807,362
	£	£	£	£
Net output per person employed (e)	432	377	424	324
	No.	No.	No.	No.
Number of returns (f)	8,006	8,137	16,143	15,381

(a) For small firms summary see Table 2.

(b) Great Britain only.

(c) United Kingdom.

(d) Including sums paid for hired haulage and for the hire of plant and machinery.

(e) The figures for wages and salaries, average number of persons employed and the net output per person employed take no account of prisoners of war. So far as was recorded by firms in this trade the estimated average number of prisoners employed during the year 1946 was 2,357 including 1,050 whose services were provided without payment. In 1948 the estimated average number was 540; the amount paid was approximately £93,000.

(f) While firms in this trade were not required to make returns on the basis of establishments, a few firms did so, and these figures for 1948 exceed the number of firms shown in Table 4.

The values of gross output are derived in the following way:-

	1948		1946	1935
	Firms employing		Total	Total
	25 or more persons	11-24 persons		
Output of establishments in this trade	£'000	£'000	£'000	£'000
Total value of output				
Building and civil engineering work done (see Table 8(11))	692,421	97,669	790,090	486,966
Other output (see Table 10)	9,237	849	10,086	12,094
Gross output (production)	701,658	98,518	800,176	499,060

(ii) Government Departments (a)

TABLE I (contd.)

	1948	1946	1935(b)
	£'000	£'000	£'000
Gross output (production) (see Table 8(1v))	15,560	11,680	1,198
Cost of materials and fuel used and other charges	4,626(c)	2,095(c)	277
Net output	10,935	9,585	921
Wages and salaries of persons employed	8,970	6,791	..
	No.	No.	No.
Average number of persons employed	28,531	23,527	6,801
	£	£	£
Net output per person employed	383	407	135
	No.	No.	No.
Number of returns	18	13(d)	8

(a) Excluding particulars in respect of H.M. prisons. Particulars recorded for 1948 were £545,000 for the value of production (gross output) and £283,000 for the cost of materials and fuel. The net output was £262,000. Details of wages and salaries and of persons employed are not available.

(b) Relates to Admiralty (Civil Engineering Department) and H.M. Office of Works establishments only.

(c) Including sums paid for hired haulage and for the hire of plant and machinery.

(d) In addition seven returns were received for 1946 in respect of establishments employing not more than ten persons on the average. These establishments employed a total number of 27 male operatives and the value of construction and repair work done was £7,000.

Summary, 1948

(i) Small private firms in Great Britain

TABLE 2

	£'000
Gross output	148,181
Amount paid for work sub-contracted	7,932
Average number of persons employed (a)	No. 296,596
Number of returns	92,666

(a) Including working proprietors.

(ii) Government Departments

There were no returns received from Government Departments employing ten or fewer persons in 1948 on building and contracting work.

Estimated average employment, 1948

(i) All private firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	912,592
Employing on average ten persons or less (b)	296,596
	1,209,188
Estimated average employment in firms not making satisfactory returns	69,900
Estimated average employment in all firms	1,279,088

(a) See Tables 1 (i) and 15 (i).

(b) See Table 2.

(ii) Government Departments

The average number of persons employed in all Government establishments in this trade was 28,531. See Tables 1 (ii) and 15 (iii).

Analysis by size, 1948

(i) Larger private firms in Great Britain

TABLE 4

Average number employed	Firms	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£.
11-24	8,136	98,499	52,910	140,355	34,631	3,728	38,359	377
25-49	4,247	115,728	59,744	148,982	40,196	4,568	44,765	401
50-99	2,198	122,327	61,073	150,747	42,000	4,811	46,810	405
100-199	936	111,252	53,888	129,166	37,121	4,236	41,357	417
200-299	255	56,431	26,172	61,884	18,314	2,134	20,449	423
300-399	123	41,261	19,269	42,412	12,601	1,721	14,322	454
400-499	82	35,347	16,439	36,714	10,911	1,694	12,605	448
500-749	64	41,108	18,298	38,652	11,563	1,895	13,458	473
750-999	23	18,639	8,200	19,767	5,669	831	6,500	415
1,000-1,499	26	33,379	15,202	31,310	9,690	1,461	11,151	486
1,500 and over	37	126,205	55,349	112,603	34,606	6,071	40,676	492
Total	16,127	800,176	386,542	912,592	257,302	33,150	290,452	424

(ii) Government Departments

TABLE 4 (contd.)

Average number employed	Returns	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£.
100-199	5	498	290	720	194	35	228	403
200-499	3	629	383	1,170	288	37	325	327
500-749	5	1,606	1,132	3,062	827	134	961	370
1,000 and over	5	12,827	9,130	23,579	6,533	923	7,456	387
Total	18	15,560	10,935	28,531	7,841	1,128	8,970	383

Analysis by industrial areas, 1948 (a)

(i) Larger private firms in Great Britain

TABLE 5

Industrial area	Gross output	Net output		Persons employed	Wages and salaries paid
		Value	Percentage of total		
	£'000	£'000		No.	£'000
England					
Greater London	213,595	106,687	27.6	244,884	83,827
Lancashire, Cheshire and the High Peak District of Derbyshire	85,628	40,884	10.6	97,300	30,350
West Riding of Yorkshire	45,125	21,160	5.5	49,144	15,555
Northumberland, Durham and the North Riding of Yorkshire	47,196	21,904	5.7	48,085	15,125
Warwickshire, Worcestershire and Staffordshire	58,974	27,669	7.2	62,782	20,043
East Midland District	40,661	18,828	4.9	42,858	13,851
West Midland District	5,617	2,613	0.7	6,353	1,938
South Eastern District (excluding Greater London)	77,352	38,770	10.0	97,156	29,315
South Western District	44,012	21,838	5.6	55,946	16,424
Eastern District	47,848	22,660	5.9	55,786	16,841
Cumberland and Westmorland	5,276	2,371	0.6	5,813	1,798
Total England	671,284	325,384	84.2	766,107	245,067
Wales					
South Wales (including Monmouthshire)	34,243	16,056	4.2	34,958	11,446
Rest of Wales	8,635	4,012	1.0	10,674	3,122
Total Wales	42,878	20,068	5.2	45,632	14,568
Scotland					
West Central District	38,712	18,791	4.9	45,192	13,959
East Central District	24,613	11,441	3.0	27,992	8,590
Southern Counties	7,043	3,281	0.8	8,835	2,509
Northern Counties	15,646	7,577	2.0	18,834	5,759
Total Scotland	86,014	41,090	10.6	100,853	30,817
Great Britain	800,176	386,542	100.0	912,592	290,452

(ii) Government Departments

TABLE 5 (contd.)

Industrial area	Gross output	Net output		Persons employed	Wages and salaries paid
		Value	Percentage of total		
	£'000	£'000		No.	£'000
England					
Greater London	4,701	3,527	32.3	8,457	2,900
Lancashire, Cheshire and the High Peak District of Derbyshire	1,137	766	7.0	1,765	575
West Riding of Yorkshire	389	265	2.4	790	225
Northumberland, Durham and the North Riding of Yorkshire	158	102	0.9	356	92
Warwickshire, Worcestershire and Staffordshire	809	579	5.3	1,336	481
East Midland District	139	76	0.7	195	61
West Midland District	19	15	0.1	51	14
South Eastern District (excluding Greater London)	2,703	1,841	16.8	5,456	1,578
South Western District	1,634	1,126	10.3	2,998	932
Eastern District	710	435	4.0	1,089	328
Cumberland and Westmorland	1,149	698	6.4	1,487	452
Total England	13,548	9,428	86.2	23,980	7,638
Wales					
South Wales (including Monmouthshire)	485	364	3.3	1,008	301
Rest of Wales	135	114	1.0	355	102
Total Wales	621	478	4.4	1,363	403
Scotland					
West Central District	272	214	2.0	709	200
East Central District	552	413	3.8	1,217	377
Southern Counties	45	37	0.3	117	32
Northern Counties	523	365	3.3	1,145	320
Total Scotland	1,392	1,028	9.4	3,188	929
Great Britain	15,560	10,935	100.0	28,531	8,970

(a) In this trade, the larger private firms and Government Departments were allowed to make one return for all work done, irrespective of where the work was carried out, but they were required to furnish details, which are summarised in this table, in respect of work done in each industrial area. This table replaces the analysis by standard region included in the reports on other trades.

Analysis according to specialisation within the trade, 1948

(i) Larger private firms in Great Britain

TABLE 6

Kinds of Work done	No. of returns	Gross output	Value of characteristic output	Net output	Persons employed	Remuneration			Net output per person employed	
						Wages	Salaries	Total		
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£	
Construction of new residential buildings	(a)	2,001	190,727	143,804	77,488	194,531	55,163	5,392	60,555	398
	(b)	1,330	21,899	17,943	8,946	23,801	5,928	459	6,387	376
Other new building construction	(a)	860	163,132	107,990	73,010	166,781	48,836	6,384	55,220	438
	(b)	257	3,212	2,001	1,583	4,505	1,121	87	1,208	351
Total new building construction		4,448	378,970	271,738	161,026	389,618	111,047	12,323	123,370	413
Repair, maintenance and conversion of residential buildings	(a)	1,168	33,443	23,808	20,050	52,866	14,235	1,493	15,727	379
	(b)	2,244	22,223	17,831	13,763	38,151	9,542	908	10,456	361
Repair and maintenance of other premises	(a)	1,403	71,280	46,355	38,885	99,714	22,080	3,079	31,160	388
	(b)	1,106	12,204	8,579	7,035	19,530	4,861	469	5,330	360
Total repair, maintenance and conversion		5,921	139,131	96,573	79,533	210,261	56,723	5,949	62,673	378
Work on highways and sewers (a)(c)		96	9,983	6,939	4,634	9,966	2,913	454	3,366	465
Opencast coal mining (a)(c)		24	6,083	5,123	2,489	4,205	1,497	323	1,820	592
Specialist work										
Electrical contracting (a)		352	23,178	23,081	11,345	27,586	6,485	1,695	8,180	411
Heating and ventilating contracting (a)		161	24,037	23,881	9,871	20,510	5,483	1,774	7,257	481
Other specialist work (a)		1,233	82,625	81,706	45,550	89,656	27,508	4,122	31,636	508
Specialist work (b)		2,529	30,280	29,853	16,692	42,407	10,050	1,439	11,490	394
Total specialist work		4,275	160,120	158,522	83,458	180,159	49,527	9,037	58,563	463
Remainder of work done	(a)	708	97,190		50,499	106,406	32,467	4,898	37,165	475
	(b)	671	8,700		4,904	11,977	3,126	366	3,495	409
Total remainder of work done		1,379	105,890		55,403	118,383	35,596	5,064	40,660	468
Total		16,143	800,176		386,542	912,592	257,302	33,150	290,452	424

(a) Relates to firms employing 25 or more persons.

(b) Relates to firms employing 11-24 persons.

(c) Separate particulars for work on highways and sewers, and for opencast coal mining by firms employing 11-24 persons were not ascertained.

(ii) Government Departments

TABLE 6 (contd.)

Kind of work done	No. of returns	Gross output	Value of characteristic output	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
New building construction (other than residential)	1	5,722	3,664	3,587	7,202	2,063	365	2,428	498
Repairs and maintenance (other than residential)	14	8,771	7,495	6,596	19,022	5,227	667	5,893	347
Highways and sewers	3	1,067	963	752	2,307	552	96	648	326
Total	18	15,560		10,935	28,531	7,841	1,128	8,970	383

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

New building construction - details for 1948

Larger private firms in Great Britain

This table relates to work done by main contractors for building owners on construction of new residential premises (brick or stone walls) by all firms employing more than 10 persons on the average, and on certain other new building construction by firms employing 25 or more persons.

TABLE 8 (i)

Work done by main contractors for building owners	Buildings completed in the year (a)				Work done by specialist main contractors (b)	Value of work in progress				Total value of work done in the year
	Quantity		Value (a)	Entries	Value of work done	At end of year	Entries	At beginning of year	Entries	£'000
	No. of dwellings	Th. cu. ft. (c)	£'000	No.	£'000	£'000	No.	£'000	No.	£'000
Firms employing 11-24 persons on the average										
Construction of new residential premises (brick or stone walls)	10,840 7,600	117,624 ..	13,117 6,392	2,723	(d)	8,153	2,097	5,578	1,486	22,083
Firms employing 25 or more persons on the average										
Construction of new private residential premises (brick or stone walls)										
Purely residential houses										
Built for Government Departments or Local Authorities	82,420 9,876	988,745 ..	104,556 11,816	2,573	3,052	54,335	2,088	53,204	2,178	120,556
Other	9,890 1,728	134,123 ..	15,013 2,530	1,991	445	5,834	1,112	6,507	1,130	17,314
Purely residential flats and tenements										
Built for Government Departments or Local Authorities	8,171 1,850	71,125 ..	8,891 1,607	250	978	13,403	232	8,749	206	16,129
Other	1,110 220 ..	12,726	1,477 216 208	198	100	1,113	117	732	105	2,382
Residential dwellings attached to business premises (other than department stores)										
Built for Government Departments or Local Authorities	147 67 ..	2,564	291 101 102	54	66	422	38	148	26	835
Other	167 110 ..	2,428	299 132 76	144	152	190	62	74	44	775

TABLE 8 (i) (contd.)

Work done by main contractors for building owners	Buildings completed in the year (a)				Work done by specialist main contractors (b)	Value of work in progress				Total value of work done in the year
	Quantity		Value (a)	Entries	Value of work done	At end of year	Entries	At beginning of year	Entries	£'000
	No.	Th. sq. ft. (c)	£'000	No.	£'000	£'000	No.	£'000	No.	£'000
Firms employing 25 or more persons on the average (contd.)										
Other new building construction										
Factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages, etc.)										
Built for Government Departments or Local Authorities	417 167 ..	3,776	4,779 890 1,774	400	3,224	33,626	248	18,338	207	25,954
Other	2,035 571 ..	14,862	17,852 2,683 4,645	1,193	5,541	46,283	741	25,227	687	51,777
Warehouses and storage premises										
Built for Government Departments or Local Authorities	63 ..	202 ..	113 44	42	76	522	30	211	20	544
Other	368 125 ..	2,064	1,372 206 459	397	249	1,265	173	782	139	2,769
Department stores and shops not combined with dwellings	129 51 ..	260	295 47 89	138	138	361	42	194	34	737
Hotels	26 12 ..	50	63 25 62	60	97	96	15	33	19	309
Public buildings (buildings owned by Government, Local or other Public Authorities) except dwellings, schools, hospitals, offices and factories	262 101 ..	794	922 308 532	250	181	2,936	164	1,632	111	3,248
Public office buildings (excluding town halls)	142 ..	1,305 ..	1,521 308	110	64	2,126	80	1,394	51	2,625
Private office buildings	174 ..	694 ..	1,037 506	249	121	2,135	134	788	85	3,011

TABLE 8 (I) (contd.)

Work done by main contractors for building owners	Buildings completed in the year (a)			Work done by specialist main contractors (b)	Value of work in progress				Total value of work done in the year	
	Quantity	Value (a)	Entries	Value of work done	At end of year	Entries	At beginning of year	Entries	£'000	
	No.	Th. sq. ft. (c)	£'000	No.	£'000	£'000	No.	£'000	No.	£'000
Firms employing 25 or more persons on the average (contd.)										
Other new building construction (contd.)										
Hospitals, clinics, nursing homes etc.	-	861	1,276	239	271	1,980	206	1,155	161	2,939
Schools and college buildings owned by Government, Local and other Public Authorities	-	4,850	4,633	688	576	11,046	645	3,817	478	14,419
Other schools or college buildings	-	526	658	169	62	1,466	115	498	82	2,200
Places of public worship	25	57	92	63	29	111	33	39	17	274
Buildings connected with places of public worship	-	37	49	50	19	75	33	26	12	160
Places of indoor entertainment (theatres, cinemas etc.)	14	34	33	45	76	184	16	34	13	316
Private and lock-up garages	378	177	98	441	13	51	81	14	22	270
Pithead baths	10	-	114	12	38	453	33	138	16	496
Unclassified specialist work on residential and other new buildings (f)	-	-	-	-	2,017	-	-	-	-	2,017
Total (g)		198,192	..	17,585	180,013	..	123,734	..	272,057	

(a) Relates to work done on completed buildings by main contractors responsible for the superstructure. Extensions to existing buildings, for which quantitative details were not normally given, are included. The values are net selling values, or for buildings erected under contract the net amounts payable including extras.

(b) Relates to work done in the year for building owners by specialist main contractors responsible for work other than the superstructure, and by nominated sub-contractors who carry out work directly for building owners. Table 8(11) gives details available of the work done by these specialists.

(c) Estimated cubic capacity of dwellings represented by the area enclosed by the perimeter of the base multiplied by the mean height of the building, with a due allowance for bay windows etc.

(d) Not recorded separately.

(e) Superficial floor area.

(f) May include some specialist work on temporary and prefabricated houses and other buildings not included above but shown in Table 8(11).

(g) Work done by firms employing 25 or more persons on the average.

Building and contracting work done (a)

Larger private firms (b)

This table gives particulars of all work done by building and contracting firms employing more than 10 persons on the average, including the value of work of new building construction of which quantitative details for 1948 are given in Table 8(11).

TABLE 8(11)

Kind of work done	1948 (c)				1946 (c)	1935 (d)
	Firms employing 25 or more persons		Firms employing 11-24 persons		Total value	Total value
	Value of work done in the year	Entries	Value of work done in the year	Entries	£'000	£'000
Main contract work (e)	£'000	No.	£'000	No.	£'000	£'000
Work done for building owners						
New building construction						
Temporary houses	6,314	303	470	182	6,784	25,652
Permanent prefabricated houses	46,042	514	1,993	268	48,034	11,632
New residential dwellings	157,991(f)	..	22,083(f)	..	180,074	
Factories, ware-houses and other buildings (including unclassified specialist work on residential and other new buildings)	114,065(f)	..			147,858	
Buildings for Service Departments	1,862	240				128,160
Buildings on airfields	1,268	69				
Farm buildings, etc. (excluding dwellings)	3,268	1,078	4,489	1,755	125,845	
Horticultural buildings (excluding dwellings and green-houses)	372	256				
Exhibition stands and similar temporary structures	520	166				
Other new building construction	912	169	-	-	912	820
Total value of work done for building owners on new building construction	332,615	..	29,035	..	361,650	185,962

TABLE 8(ii) (contd.)

Kind of work done	1948 (c)				1946 (c)	1935 (d)
	Firms employing 25 or more persons		Firms employing 11-24 persons		Total Value	Total value
	Value of work done in the year	Entries	Value of work done in the year	Entries		
	£'000	No.	£'000	No.	£'000	£'000
Main contract work (e) (contd.)						
Work done for building owners (contd.)						
Work on buildings, other than new construction						
Conversion and adaptation of dwellings (e.g., buildings to flats, variation of flats, etc.)	8,471(g)	2,091	(h)	..	8,471	4,984 (g) (1) 74(j)
Repair and maintenance work of all kinds on existing buildings (e.g., painting, decorating, plumbing, heating, lighting, (natural and artificial), carpentry work)						
Private residential premises	55,566	5,866	32,032	6,702	87,598	92,899(k)
Other premises	90,094	5,689	16,713	5,310	106,807	70,643(1)
Shop and office fitting	3,174	1,972			3,174	910(1)
Electrical work (wiring, fitting, etc.) not included above	7,321	670	(h)	..	7,321	4,930(1)
Demolition work not included above	3,203	770			3,203	5,519(1)
New work and repair work unclassified	-	-	-	-	-	1,677
Other work						3,989
Opencast coal mining						
Coal raised	17,772 Tons (11,682,000)	63			17,772	12,097(1) Tons (8,988,000)
Prospecting, removal of overburden, reinstatement, etc. (j)	£'000 1,348	33	(h)	..	1,348	£'000 771(1)
Housing site preparation	15,569	689			15,569	17,460(1)

TABLE 8(ii) (contd.)

Kind of work done	1948 (c)				1946 (c)	1935 (d)
	Firms employing 25 or more persons		Firms employing 11-24 persons		Total value	Total value
	Value of work done in the year	Entries	Value of work done in the year	Entries		
	£'000	No.	£'000	No.	£'000	£'000
Main contract work (e) (contd.)						
Other work (contd.)						
Other civil engineering work, etc.						
Construction, alteration, repair or maintenance of						
Railways and light railways (permanent way, tunnels, bridges, etc.)	3,596	221				732
Highways (roads, bridges, footpaths, surface drains, etc.)	13,060	741				8,411
Tunnelling (other than railway tunnelling)	1,913	27				225(j)
Recreation or sports grounds (tennis courts, bowling greens, etc.)	2,170	375				806
Sewers and sewage disposal works	7,363	661				4,427
Harbours, wharves, docks and piers	3,530	161				1,221
Canals and waterways	2,012	100				181
Sea walls and embankments	974	83				326
Waterworks (reservoirs, aqueducts, wells, mains, hydraulic works)	6,795	440				2,283
Gas mains and works	5,560	289				595
Telegraph and telephone lines and works	1,983	126				719
Electric power and lighting lines and works	7,345	241				758
Tramways and trackless trolley systems (permanent way, overhead wires, etc.)	53	15			10,965	2,047
Swimming pools	70	58			100,269	46,628
						3
						189(j)

TABLE 8(ii) (contd.)

Kind of work done	1946 (c)				1946 (c)	1935 (d)
	Firms employing 25 or more persons		Firms employing 11-24 persons		Total value	Total value
	Value of work done in the year	Entries	Value of work done in the year	Entries		
	£'000	No.	£'000	No.	£'000	£'000
Main contract work (e) (contd.)						
Other work (contd.)						
Other civil engineering work, etc. (contd.)						
Construction, alteration, repair or maintenance of (contd.)						
Airfields	5,674	153				
Plant and machinery foundations (j)	885	79				
Mining development work (boring, sinking shafts, etc.) (j)	819	14				
Work for Government Departments unclassified (j)	590	37				
Site clearance for factories (j)	2,511	53				
Other and unclassified work	11,236	357				1,090
Design and installation of plant and machinery	3,453	27				
Furnace building and repair and maintenance	2,388	24				
Installation, repair and maintenance of other industrial plant and equipment	2,693	132				
Plant hire	2,631	97				
Total value of work done by main contractors	624,437	..	88,745	..	713,182	444,481 190,013

TABLE 8(ii) (contd.)

Kind of work done	1946 (c)				1946 (c)	1935 (d)
	Firms employing 25 or more persons		Firms employing 11-24 persons		Total value	Total value
	Value of work done in the year	Entries	Value of work done in the year	Entries		
	£'000	No.	£'000	No.	£'000	£'000
Sub-contract work						
Work of all kinds done for other contractors						
Work on buildings done by specialist sub-contractors						
Plumbing	8,915	385				
Patent glazing	1,290	81				
Heating and ventilating	9,391	264				
Electrical installation	6,682	417				
Flooring and roofing	12,776	309				
Reinforced concrete	3,100	90	8,924	2,025	76,908	42,485
Structural steelwork	1,042	81				
Scaffolding	2,019	106				
Asphalting and tar spraying	2,108	134				
Other sub-contract work on buildings	14,477	769				
Other work done	6,185	259				567
Total value of building and civil engineering work carried out	692,421	8,006	97,669	8,137	890,090	486,966 210,148

(a) The figures in this table do not include work of construction, repair and maintenance recorded on schedules for other trades, Local Authorities and Public Utility Undertakings. These particulars will be aggregated and shown in a later summary volume. For details of work done by Government Departments, see Tables 8(iii) and 8(iv).

(b) For output of small firms see Table 23 (ii).

(c) Great Britain only.

(d) United Kingdom.

(e) The figures for main contract work include the value of work sub-let to other contractors; there is, therefore, duplication in the total value of work carried out for that work sub-contracted by firms included in this table which was performed by sub-contractors also included in this table.

(f) For details see Table 8 (i).

(g) The numbers of dwellings involved were as follows:-

	1946	1946
Before alteration	5,743	5,126
After alteration	16,319	13,277

(h) Not recorded separately.

(i) So far as recorded separately by firms employing 50 or more persons on the average during 1946.

(j) So far as recorded separately.

(k) Of which £55,131,000 represented war damage repairs, other than complete rebuilding.

(l) Of which £16,228,000 represented war damage repairs, other than complete rebuilding.

New building construction - details for 1948

Government Departments

TABLE 8 (iii)

	Buildings completed in the year		Value of work in progress		Total value of work done in the year
	Quantity		At end of year	At beginning of year	
	No.	Th. cu. ft. (b)	£'000	£'000	
Construction of new private residential premises (brick or stone walls)					
Purely residential houses	349	3,857	725	457	625
Purely residential flats and tenements	55	386	82	325	123
	3		287
Other new building construction					
Factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages etc.)		Th. sq. ft. (c)			
	2	4	33	3,125	1,074
Warehouses and storage premises	1	2	5	-	4
Public office buildings (excluding town halls)	1	28	21	1,613	393
Hospitals, clinics, nursing homes, etc.	-	-	-	13	4
Schools and college buildings	-	1,260	240	113	184
Total			1,109	5,646	2,408
					4,348

(a) Valued at cost, see introductory notes.

(b) Estimated cubic capacity of dwellings represented by the area enclosed by the perimeter of the base multiplied by the mean height of the building, with allowance for bay windows, etc.

(c) Superficial floor area.

Building and contracting work done

Government Departments

This table gives particulars of work done, including the value of work of new building construction of which quantitative details are given in Table 8 (iii)

TABLE 8 (iv)

	1948	1946	1935
	Value of work done in the year (a)	Value of work done in the year (a)	Value of work done in the year (a)
	£'000	£'000	£'000
New building construction			
Temporary houses	-	11	
Permanent prefabricated houses	213	134	
New residential houses	844(b)		
Factories and workshops, warehouses and storage premises	2,084(b)	453	178(c)
Public office and other buildings	1,419(b)		
Buildings for Service Departments	392		
Buildings on airfields	13	824	
Farm buildings, etc. (excluding dwellings)	45		
Other new building construction	115		
Total value of work done on new building construction	5,126	1,422	178
Work on buildings, other than new construction			
Conversion and adaptation of dwellings (i.e., buildings to flats, variation of flats, etc.)	55(d)	63	
Repair and maintenance work of all kinds on existing buildings (e.g., painting, decorating, plumbing, heating, lighting (natural and artificial), carpentry work)			
Private residential premises	185	472(f)	661(e)
Other premises	8,216	2,716(g)	
Shop and office fitting	-	13	
Electrical work (wiring, fitting, etc.) not included above	5	2,344	
Demolition work not included above	13	46	
Other work			
Housing site preparation	152	3,739	(h)
Other civil engineering work			
Construction, alteration, repair and maintenance of			
Highways (roads, bridges, footpaths, surface drains, etc.)	1,105	312	35
Sewers and sewage works	41	55	18
Harbours, wharves, docks and piers	76	48	100

TABLE 8 (iv) (contd.)

	1948	1946	1935
	Value of work done in the year (a)	Value of work done in the year (a)	Value of work done in the year (a)
	£'000	£'000	£'000
Other work (contd.)			
Other civil engineering work (contd.)			
Construction, alteration, repair and maintenance of (contd.)			
Recreation or sports grounds	5	4	5
Airfields	72	33	-
Railways and light railways	111		
Tramways and trackless trolley systems	1		
Tunnelling	1		
Swimming pools	1		
Canals and waterways	192		
Seawalls and embankments	59	413	201
Waterworks	67		
Gas mains and works	7		
Telegraph and telephone lines and works	3		
Electric power and lighting lines and works	28		
Other	40		
Total value of all work done in the year	15,560	11,680	1,198

(a) Valued at cost, see introductory notes.

(b) For details see Table 8 (iii).

(c) Described as work on:-

	£'000
Factories and workshops	73
Residential premises, offices, etc.	10
Other and unclassified work	95

(d) Number of dwellings before alteration 34, number of dwellings after alteration 156.

(e) Repair and maintenance work of all kinds on existing buildings.

(f) Of which £421,000 represented war damage repairs, other than complete rebuilding.

(g) Of which £264,000 represented war damage repairs, other than complete rebuilding.

(h) Not recorded separately.

TABLE 9 - Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments

Particulars of building and civil engineering work returned by establishments classified to other trades will be shown in a later summary volume.

Sales (or production) in the trade other than that shown in Table 8(ii) (a)

Larger private firms (b)

TABLE 10

	1948(c) Sales		1935(d) (e) Production
	Quantity	Value	Value
	Thous.	£'000	£'000
Firms employing 25 or more persons			
Manufactured joinery			
Doors of a height and width not less than 6 feet and 2 feet respectively	198	361	89
Other doors	52	56	24
Fittings for shops, offices, churches, etc.	..	230	111
Builders' woodwork	..	535	562
Window frames	..	81	
Other	..	513	
Wood paving blocks	..	6	88
Coffins	32	295	125
Wooden crates, boxes, etc.	..	661	60
Sawmill products (including staves, barrel ends and other parts of barrels, casks, etc.)	..	150	55
Portable garages, portable poultry houses and other portable buildings	..	147	71
Furniture and cabinetware	..	346	84
Beadings and mouldings	..	101	48
Manufactures of timber not specified above	..	208	
Bricks of brick-earth or clay	Million 10.5	57	49
Mortar	..	37	71
Precast concrete goods	Th. tons 20	236	116
Floor and roof units	..	43	
Walling blocks	129	153	
Pipes and tubes	83	238	
Other	79	330	
Roadmaking materials	324	259	218
Monumental and architectural masonry	..	123	68
Heating and ventilating apparatus	..	13	4

TABLE 10 (contd.)

	1948 (c) Sales		1935 (d) (e) Production
	Quantity	Value	Value
	£'000	£'000	£'000
Firms employing 25 or more persons (contd.)			
Electrical goods	..	55	6
Machinery, vehicles, and parts thereof	..	212	86
Other manufactures of metal	..	460	
Signs and signwriting	..	149	
Electricity sold	-	-	21
Other manufactures and waste products sold	..	304	61
Work done			73
Repair and maintenance work on machinery		71	22
New and repair work on ships		2,470	401
On monuments		101	79
Other work		98	
Total		9,237	..
Firms employing 11-24 persons			
Goods made and sold	..	849	..
Total		10,086	2,592

(a) For 1948 firms were not asked for details appropriate to this table of goods made and sold and work done. The value of other output was returned as:-

	£'000
Goods made and sold	10,026
Work on ships	2,068
Total	12,094

(b) No output other than that shown in Table 8(iv) was recorded for Government establishments in this trade.

(c) Great Britain only.

(d) United Kingdom.

(e) 1935 figures are in respect of all larger firms.

TABLE 11 - Analysis of sales 1948: Larger establishments in Great Britain

TABLE 12 - Production, exports and imports of certain principal products

These tables are not applicable to the trade.

Materials and fuel purchased and used and other charges

(i) Larger private firms

TABLE 13

	1948(a)			1946(a)	1935(b)		
	Firms employing			Firms employing 11 or more persons			
	25 or more persons		11 - 24 persons	Cost	Cost	Quantity	Cost
	Quantity	Cost	Cost	£'000	£'000	Million	£'000
Materials	Million	£'000	£'000	£'000	£'000	Million	£'000
Bricks	2,884.6	16,481				3,325.2	7,443
Cement	Th. tons 3,327.5	12,660				Th. tons 1,771.5	3,679
Steel used for reinforcement	206.3	4,462				93.3	854
						..	161
Other structural iron and steel (including steel, etc. piling)	188.9	6,136				179.7	1,926
	..	876				..	578
Timber, not fabricated (including wood piling)	..	23,141				..	7,937
Electrical material (wires, switches, etc.)	..	13,520				..	65,886
All other purchased materials	..	165,668				..	(c)
Unclassified	..	3,970	38,553	313,792	197,641	..	7,344
Fuel (including coal, coke, gas, petrol and other oil fuel) and electricity used for all purposes (heating, lighting and transport)	..	7,748				..	612
							(d)
Unclassified materials and fuel	..	5,850				..	17,903
Total amount paid to other firms for transport charges or for hired haulage (including the hire of vehicles operated by firms' own staff)		7,370					..
Total amount paid to other firms for the hire of plant and machinery		7,357					..

TABLE 13 (contd.)

	1948(a)			1946(a)	1935(b)		
	Firms employing 25 or more persons		11 - 24 persons	Cost	Cost	Quantity	Cost
	Quantity	Cost	Cost				
		£'000	£'000	£'000	£'000		£'000
Total cost of materials and fuel purchased and used and other charges		275,239	38,553	313,792	197,641		
Payments made to other firms for work done during the year on contracts sub-let to them		92,799	7,043	99,842	40,162	114,323 (e)	
Total cost of materials and fuel purchased and used, other charges, and amount paid to sub-contractors		368,038	45,596	413,634	237,803	114,323 (e)	

- (a) Great Britain only.
 (b) United Kingdom.
 (c) Including fuel not specified separately, and amounts paid for work sub-contracted.
 (d) Amount recorded for coal, coke, heavy fuel oil and electricity.
 (e) Cost of materials, fuel and electricity used, including payment for transport and amounts paid for work sub-contracted. Payments to other firms for hire of vehicles, for haulage and for hire of plant and machinery were not ascertained for 1935.

(ii) Government Departments

TABLE 13 (contd.)

	1948		1946	1935
	Quantity	Cost	Cost	Cost
	Million	£'000	£'000	£'000
Materials				
Bricks	41.0	201		
	Th. tons			
Cement	45.7	164		
Steel used for reinforcement	1.4	19		
	..	7		
Other structural iron and steel (including steel, etc. piling)	1.4	47		
	..	6	1,962	277 (a)
Timber, not fabricated (including wood piling)	..	225		
Electrical material (wires, switches, etc.)	..	422		
All other purchased materials	..	2,512		
Fuel (including coal, coke, gas, petrol and other oil fuel) and electricity used for all purposes (heating, lighting and transport)	..	287		
Total amount paid to other firms for transport charges or for hired haulage (including the hire of vehicles operated by departments' own staff)			355	71
Total amount paid to other firms for the hire of plant and machinery			381	62
Total cost of materials and fuel purchased and used and other charges		4,626	2,095	277 (a)

- (a) Cost of material, fuel and electricity used, including payment for transport. Payments to other firms for hire of vehicles, for haulage and for hire of plant and machinery were not ascertained for 1935.

TABLE 14 - Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

This table is not applicable to the trade.

BUILDING AND CONTRACTING
Employment and remuneration (a)
(i) Larger private firms (b)

TABLE 15

	Average number of operatives		Administrative, technical and clerical employees (c)		Total	
	1948(d)	1935(e)	1948(d)	1935(e)	1948(d)	1935(e)
Males						
Under 18	57,903	29,843	3,441	2,011	61,344	31,854
All ages	813,756	454,883	62,259	31,597	876,015	486,480
Females						
Under 18	137	113	4,033	1,026	4,170	1,139
All ages	1,837	643	23,856	7,816	25,693	8,459
Total						
Under 18	58,040	29,956	7,474	3,037	65,514	32,993
All ages	815,593	455,526	86,115(f)	39,413	901,708(f)(g)	494,939
Total remuneration	£'000	..	£'000	..	£'000	..
	257,302	..	33,150	..	290,452	..

- (a) Excluding prisoner of war labour. Such employment and remuneration figures as are available are shown in footnote (e) to Table 1(1).
 (b) For division between size of firms in 1948 see Table 15(11).
 (c) Number at September 25, 1948 (average number in the case of firms employing 11 - 24 persons), and October 12, 1935.
 (d) Great Britain only.
 (e) United Kingdom.
 (f) There were in addition 10,884 working proprietors (10,522 males and 362 females) in 1948. Working proprietors are included in the 1935 figures.
 (g) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £7,722,000.

(ii) Division by size of firms, 1948

TABLE 15 (contd.)

	Firms employing 25 or more persons			Firms employing 11 - 24 persons		
	Average number of operatives(a)	Administrative technical and clerical employees(a)	Total	Average number of operatives	Average number of administrative, technical and clerical employees	Total
Males						
Under 18	44,211	3,016	47,227	13,692	425	14,117
All ages	693,433	54,364	747,797	120,323	7,895	128,218
Females						
Under 18	94	3,299	3,393	43	734	777
All ages	1,546	19,087	20,633	291	4,769	5,060
Total						
Under 18	44,305	6,315	50,620	13,735	1,159	14,894
All ages	694,979	73,451(b)	768,430(b)	120,614	12,664(c)	133,278(c)
Total Remuneration	£'000	£'000	£'000	£'000	£'000	£'000
	222,666	29,420	252,086	34,637	3,730	38,366

- (a) Number at 25th September, 1948.
 (b) There were in addition 3,791 working proprietors (3,669 males and 122 females).
 (c) There were in addition 7,093 working proprietors (6,853 males and 240 females).

(iii) Government Departments

TABLE 15 (contd.)

	Average number of operatives		Administrative, technical and clerical employees (a)		Total	
	1948	1935	1948	1935	1948	1935
Males						
Under 18	164	45	4	3	165	48
All ages	25,716	6,435	2,427	342	28,143	6,777
Females						
Under 18	7	-	4	-	11	-
All ages	105	10	283	14	388	24
Total						
Under 18	171	45	5	3	176	48
All ages	25,821	6,445	2,710	356	28,531(b)	6,801
Total remuneration	£'000	..	£'000	..	£'000	..
	7,841	..	1,128	..	8,970	..

- (a) Number at September 25, 1948, and October 12, 1935.
 (b) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £249,000.

Wages and salaries paid, 1948 (a)

(i) Private firms in Great Britain employing 25 or more persons

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					Year
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	
Wages and salaries of	£'000	£'000					
Operatives	222,666	133,408	23.6	25.3	25.4	25.6	100.0
Administrative, technical and clerical employees	29,420	17,296	23.8	24.7	25.1	26.5	100.0
Total	252,086	150,704	23.6	25.3	25.4	25.7	100.0

(ii) Government Departments

TABLE 16 (contd.)

	Amount paid by all establishments	Establishments making returns for the calendar year					Year
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	
Wages and salaries of	£'000	£'000					
Operatives	7,841	3,384	25.1	26.1	24.8	24.1	100.0
Administrative, technical and clerical employees	1,128	553	23.5	25.0	25.8	25.7	100.0
Total	8,970	3,937	24.9	25.9	24.9	24.3	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

TABLE 18 - Payments for certain services, 1948

TABLE 19 - Plant, machinery and vehicles acquired and disposed of, 1948

TABLE 20 - Capital expenditure on building work and changes in occupation of buildings and land, 1948

These tables are not applicable to the trade.

1948

Note - The larger private firms and Government Departments in this trade were not required to make separate returns for their establishments in the different countries of Great Britain, so that no country tables can be shown for them. Main particulars in respect of work done in each industrial area were obtained, and these are summarised in Table 5 ((1) and (11)).

In the case of small private firms, it has been assumed that the building and contracting work done has been carried out in the same country as that in which the firm is located.

TABLE 21 - Summary: Larger private firms and Government Departments

Information for this table is not available, see note above.

Summary

Small private firms

TABLE 22

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (see Table 23 (11))	129,518	5,458	13,205	148,181
Amount paid for work sub-contracted	7,324	204	404	7,932
	No.	No.	No.	No.
Average number of persons employed (a)	257,120	12,061	27,415	296,596
Number of returns	81,817	4,300	6,549	92,666

(a) Including working proprietors.

TABLE 23 (i) - Output in the trade: Larger private firms and Government Departments

Information for this table is not available, see note above.

Output in the trade

Small private firms

TABLE 23 (ii)

	England and Wales	Scotland	Great Britain
	£'000	£'000	£'000
Construction of new buildings			
Residential premises	21,845	1,983	23,828
Other new building construction	6,243	1,091	7,334
Repair and maintenance work to buildings, (e.g., decorating, plumbing, heating, lighting, carpentry work)	95,386	8,851	104,237
All other work done, including civil engineering work	10,566	1,159	11,725
Goods made and sold and not used in the work shown above	936	120	1,056
Total	134,976	13,205	148,181

BUILDING AND CONTRACTING COUNTRY TABLES

**TABLE 24 - Materials and fuel purchased and used and other charges
Larger private firms and Government Departments**

Information for this table is not available, see note on page 12/A/29.

Particulars of materials and fuel purchased and used and other charges were not ascertained from small private firms.

**TABLE 25 (i) - Employment and remuneration: Larger private firms
and Government Departments**

Information for this table is not available, see note on page 12/A/29.

Employment (a) (b)

Small private firms

TABLE 25 (ii)

	England and Wales	Scotland	Great Britain
Males			
Under 18	28,383	4,195	32,578
All ages	262,273	25,830	288,103
Females			
Under 18	661	325	986
All ages	6,908	1,585	8,493
Total			
Under 18	29,044	4,520	33,564
All ages	269,181	27,415	296,596

(a) Particulars of remuneration were not ascertained from small private firms in this trade.

(b) The figures for total employment in small firms in Great Britain in 1935, to correspond with the figures in this table, are estimated from the 1935 census report to be:-
males 228,100; females 7,700; total 235,800.

BUILDING AND CONTRACTING COUNTRY TABLES

Monthly index of employment of operatives

(average employment in 1948 = 100)

(i) Private firms employing 25 or more persons

TABLE 26

Month	Monthly Index (a)	Month	Monthly Index (a)
	Great Britain		Great Britain
1948		1948	
January	98.1	August	101.5
February	98.2	September	101.4
March	99.7	October	100.1
April	101.0	November	99.5
May	102.2	December	96.2
June	101.4	Percentage employment in this trade covered by the index	59.8
July	100.7		

(ii) Government Departments

TABLE 26 (contd.)

Month	Monthly Index (a)	Month	Monthly Index (a)
	Great Britain		Great Britain
1948		1948	
January	100.4	August	97.7
February	100.3	September	96.8
March	103.2	October	95.7
April	103.7	November	96.2
May	105.1	December	96.7
June	102.9	Percentage employment in this trade covered by the index	41.2
July	101.3		

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948.

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