



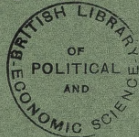
BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 4

Trade F

CONSTRUCTIONAL ENGINEERING



*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 Od. NET

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* Not applicable to this trade

CONSTRUCTIONAL ENGINEERING TRADE

THIS REPORT on the Constructional Engineering Trade relates to establishments engaged wholly or mainly in the manufacture of structural iron and steelwork, tubular scaffolding, prefabricated houses of steel or aluminium, and in carrying out constructional engineering work in Great Britain (1948) or in the United Kingdom (1946 and 1935).

This trade corresponds to minimum list heading 58 in the Standard Industrial Classification. Firms engaged in similar constructional work that did not themselves make any of the material used are included in the report on the Building and Contracting Trade.

Establishments in this trade in Northern Ireland are excluded in 1948; particulars of the very small production there in this trade in 1935 are included in the report on the Mechanical Engineering (General) Trade (Volume 4, Trade I).

ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS
CONSTRUCTIONAL ENGINEERING TRADE

Summary
Larger establishments

TABLE 1

	1948 (a)	1946 (b)	1935 (a)
Gross output (production)	£'000 87,031	£'000 64,542	£'000 19,587
Cost of materials and fuel used	43,001	33,666	10,511
Payment for work done on materials given out	9,219	2,313	335
Net output	34,811	28,563	8,741
Wages and salaries of persons employed	21,053	19,120	..
Average number of persons employed	No. 59,308 (c)	No. 64,079	No. 34,851
Net output per person employed	£ 587	£ 446	£ 251
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	16,326	13,462	2,387 (d)
Materials and fuel	7,704	8,020	..
Number of establishments	No. 366	No. ..	No. ..

- (a) Great Britain only.
(b) United Kingdom.
(c) For an estimate of the total number of persons employed in this trade see Table 3.
(d) Work in progress only.

The values of gross output and of materials and fuel used are derived in the following way:-

	1948	1946	1935
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (1948 and 1946) or production (1935) and work done			
Principal products (see Table 8)	80,639	61,344	17,230
Other output (see Table 10)	8,193		
Adjustment for changes in stocks and work in progress	- 36 (a)	+ 3,198	+ 389 (b)
Less payment for transport by other firms	88,795 1,765	64,542	19,587
Gross output (production)	87,031	64,542	19,587
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	42,618	36,937	10,511
Adjustment for changes in stocks	+ 383 (a)	-3,271	
Materials and fuel used	43,001	33,666	10,511

- (a) See Table 14.
(b) Work in progress only.

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	61
Average number of persons employed (a)	
Males	407
Females	25
Total	432

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	59,308
Employing on average ten persons or less (b)	432
	59,740
Estimated average employment in firms not making satisfactory returns	292
Estimated average employment in all firms	60,032

- (a) See Tables 1 and 15.
(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-24	59	1,042	554	1,025	240	76	316	540
25-49	87	3,509	1,795	3,042	773	245	1,018	590
50-99	92	7,907	4,012	6,746	1,714	574	2,288	595
100-199	57	10,722	4,727	8,090	2,155	664	2,819	584
200-299	22	6,125	2,692	5,313	1,317	489	1,807	507
300-399	12	4,935	2,270	4,135	1,005	433	1,438	549
400-499	9	4,935	2,484	4,129	1,054	428	1,482	602
500-749	17	13,948	6,073	10,490	2,891	974	3,865	579
750-999	3	3,811	1,651	2,642	740	225	965	625
1,000-1,499	4	6,893	2,959	4,820	1,386	440	1,825	614
1,500 and over	4	23,204	5,595	8,876	2,692	537	3,229	630
Total	366	87,031	34,811	59,308	15,968	5,085	21,053	587

Analysis by standard region, 1948

Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
England								
Northern	21	8,352	3,853	11.1	7,354	1,974	483	2,457
East and West Ridings of Yorkshire	33	5,097	2,458	7.1	4,292	1,115	385	1,499
North Midland	15	1,254	649	1.9	1,233	298	91	389
Eastern	11	2,034	964	2.8	1,564	376	148	523
London and South Eastern	78	8,944	4,608	13.2	7,757	2,129	785	2,914
Southern	12	1,169	541	1.6	1,016	253	101	353
South Western	17	14,236	3,211	9.2	5,502	1,626	364	1,990
Midland	60	9,538	4,674	13.4	7,967	2,182	675	2,857
North Western	61	10,427	4,535	13.0	7,859	1,980	879	2,859
Total England	308	61,051	25,493	73.2	44,544	11,932	3,910	15,842
Wales	11	4,194	1,782	5.1	2,703	774	243	1,016
Scotland	47	21,786	7,537	21.6	12,061	3,262	933	4,195
Great Britain	366	87,031	34,811	100.0	59,308	15,968	5,085	21,053

TABLE 6 - Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products; Larger establishments

This table is not applicable to the trade.

Sales (or production) and work done ("principal products" of the trade), including sales (or production) and similar work done by establishments classified to other trades

Larger establishments

Note - The values shown for the different classes of constructional engineering work done are, for 1948, inclusive of all goods or materials used, but for 1935 goods made or fabricated by the firms and used by them in the work are excluded. The goods made or fabricated and so used are, however, recorded as output (sales or production) against the respective goods headings for both years. The total value of such goods in relation to the total value of constructional engineering work done (inclusive of all materials used) is as follows:-

	Establishments classified to the Constructional Engineering Trade		All establishments	
	1948 £'000	1935 £'000	1948 £'000	1935 £'000
Goods made or fabricated by the firms	38,722	5,668	47,575	8,999
Constructional engineering work (inclusive of all materials used)	59,140	15,446	73,420	21,749

TABLE 8

	1948			1935	
	Sales (a)			Production (a)	
	Quantity	Value	Entries	Quantity	Value
	Tons	£'000	No.	Tons	£'000
Iron and steel fabricated					
Bridge components	35,947	1,954	50		
Mast and tower components	21,658	1,211	42		
Steel shuttering, including road forms	5,469 ..	317 154	31	544,194	8,273(b)
Other descriptions, not elsewhere specified	579,624 ..	26,110 4,695	442		
Unclassified	31,867 ..	1,881 1,278	82		
Staircases of iron and steel (c)	5,121 ..	391 282	82	1,761 ..	45 32
Tubular scaffolding, including fittings (c)					
Of steel	3,392 ..	326 122	19	-	-
Of aluminium	200	140	..	-	-
Steel rolling shutters (c)	3,157 ..	427 261	16	-	-

TABLE 8 (contd.)

	1948			1935	
	Sales (a)			Production (a)	
	Quantity	Value	Entries	Quantity	Value
	Tons	£'000	No.	Tons	£'000
Temporary or prefabricated house framework and frame sections (c)					
Of steel	33,113 ..	2,024 2,293	62	-	-
Of aluminium	..	898	13	-	-
Permanent prefabricated buildings (houses, bungalows, etc.) of aluminium (c)	No. 17,569 Tons 147,429 ..	21,079 69	5	-	-
Portable buildings (garages, poultry houses, etc.) (c)					
Of iron and steel	..	474	11	-	-
Of aluminium	..	361	10	-	-
Glazing bars (c)					
Lead or lead clothed	3,125 ..	334 85	7	-	-
Aluminium	1,163 ..	342 43	6	-	-
Other	108 ..	21 37	6	-	-
Total goods		67,609	..		8,350
	Value of work done			Value of work done	
	£'000			£'000	
Constructional engineering, etc. work carried out in Great Britain (1948) or the United Kingdom (1935)					
Work done as main contractors (d)					
New building construction (1948) or work on buildings (1935)					
Permanent prefabricated houses	19,431		15	-	
Other purely residential houses, including temporary houses	69		13		
Purely residential flats or tenements	245		14		149(e)

TABLE 8 (contd.)

	1948		1935
	Value of work done	Entries	Value of work done
Constructional engineering, etc. work carried out in Great Britain (1948) or the United Kingdom (1935) (contd.)	£'000	No.	£'000
Work done as main contractors (d) (contd.)			
New building construction (1948) or work on buildings (1935) (contd.)			
Residential dwellings attached to business premises (other than department stores)	8	..	(f)
Department stores and shops not combined with dwellings	46	20	580(g)
Office buildings	529	44	
Warehouses and storage premises	1,086	78	
Factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages, etc.)	15,695	200	2,347(h)
Public buildings (buildings owned by Government, Local and other Public Authorities) except dwellings, schools, hospitals, offices and factories	439	51	239(i)
Schools and college buildings	510	48	130
Buildings on airfields	459	9	163
Buildings for Service Departments	74	15	955
Other new buildings	1,859	77	
Work on buildings other than new construction	1,284	100	(f)
Unclassified new building construction and other work on buildings	1,009	17	-
Other constructional work			
On railways and light railways (permanent way, tunnels, bridges, etc.)	508	23	164
On highways (roads, bridges, drains, etc.)	40	14	157
On harbours, wharves, docks and piers	354	21	167
On waterworks (reservoirs, aqueducts, wells, mains, hydraulic works, etc.)	430	21	186
On gas mains and works	3,308	40	969
On electric lines and works	148	14	190
Other constructional work	7,123	113	2,174

TABLE 8 (contd.)

	1948		1935
	Value of work done	Entries	Value of work done
Constructional engineering, etc. work carried out in Great Britain (1948) or the United Kingdom (1935) (contd.)	£'000	No.	£'000
Work done as main contractors (d) (contd.)			
Housing site preparation	3,201	..	(f)
Work done as sub-contractors			
Work done on buildings			
Structural steelwork	7,906	158	2,991
Patent glazing	1,224	44	
Reinforced concrete	48	11	
Other, except heating and ventilating (j)	503	53	
Other constructional work	709	69	360
Unclassified constructional engineering work	5,176	81	807
Total constructional engineering work	73,420	..	12,750
Less total value of goods made or fabricated in firms' own works and used in the work	47,575	424	
Total constructional engineering work, exclusive of goods made and used by firms	25,845	..	12,750
Total principal products of this trade	93,454	..	21,100
Less sales (or production) and work done in other trades (see Table 9)	12,815	..	3,870
Total sales or production and work done (principal products of this trade) by establishments in the trade	80,639	337	17,230

(a) Including goods made or fabricated by the firms and used by them in constructional engineering work.

(b) Recorded as:-

Fabricated iron and steel	Tons	£'000
Girders, beams, joists and pillars	418,124	6,007
Other	126,070	2,266

(c) So far as recorded separately.

(d) Including any work done for firms that do not make a Census of Production return.

(e) Described as "Dwellings and other residential houses".

(f) Not recorded separately.

(g) Including garages and all shops.

(h) Excluding garages.

(i) Described as "Public buildings, except schools".

(j) Particulars of heating and ventilating work carried out on sub-contract by firms in this trade are included in the report on the Building and Contracting Trade (Volume 12, Trade A).

Sales (or production) and work done ("principal products" of the trade)
by establishments classified to other trades

Larger establishments

TABLE 9

	1948			1935	
	Sales(a)			Production(a)	
	Quantity	Value	Entries	Quantity	Value
	Tons	£'000	No.	Tons	£'000
Iron and steel fabricated					
Bridge, mast and tower components	3,176	190	22	40,482	832(b)
Steel shuttering, including road forms	468	41	12		
..	..	54	..		
Other descriptions, not elsewhere specified	22,129	1,506	165		
..	..	979	..		
Unclassified	12,780	791	71		
..	..	810	..		
Staircases of iron and steel	1,512	121	48	1,341	35
..	..	69	31
Tubular scaffolding of steel (including fittings)	1,911	172	9	-	-
..	..	33	..		
Steel rolling shutters	2,526	324	7	-	-
..	..	32	..		
Temporary or prefabricated house framework and frame sections					
Of steel	7,074	479	27	-	-
..	..	843	..		
Of aluminium	..	434	9	-	-
..		
Portable buildings (garages, poultry houses, etc.)	..	76	5	-	-
..		
Glazing bars	1,139	291	14	-	-
..	..	144	..		
Total goods		7,388	..		898
		Value of work done		Value of work done	
		£'000		£'000	
Constructional engineering, etc. work carried out in Great Britain (1948) or the United Kingdom (1935)					
Work done as main contractors					
New building construction (1948) or work on buildings (1935)					
Purely residential houses, flats or tenements, including permanent pre-fabricated and temporary houses	48		8	26	

TABLE 9 (contd.)

	1948		1935
	Value of work done	Entries	Value of work done
	£'000	No.	£'000
Constructional engineering, etc. work carried out in Great Britain (1948) or the United Kingdom (1935) (contd.)			
Work done as main contractors (contd.)			
New building construction (1948) or work on buildings (1935) (contd.)			
Department stores, shops not combined with dwellings, warehouses, and storage premises	13	7	80
Office buildings	4	5	
Factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages, etc.)	2,044	50	384
Schools and college buildings	8	7	1
Buildings for Service Departments	-	-	165
Other new buildings, including buildings on airfields and public buildings (buildings owned by Government, Local and other Public Authorities) except dwellings, schools, offices and factories	179	26	
Work on buildings other than new construction	152	32	-
Unclassified new building construction and other work on buildings	17	..	-
Other constructional work			
On railways and light railways (permanent way, tunnels, bridges, etc.)	193	6	52
On waterworks (reservoirs, aqueducts, wells, mains, hydraulic works, etc.)	160	9	51
On gas mains and works	1,976	18	223
On electric lines and works	48	5	110
Other, including constructional work on highways (roads, bridges, drains, etc.) harbours, wharves, docks and piers	3,414	47	1,077

TABLE 9 (contd.)

	1948		1935
	Value of work done £'000	Entries No.	Value of work done £'000
Constructional engineering, etc. work carried out in Great Britain (1948) or the United Kingdom (1935) (contd.)			
Work done as sub-contractors			
Work on buildings			
Structural steelwork	642	37	523
Other, including patent glazing and reinforced concrete but excluding heating and ventilating	49	12	
Other constructional work	157	28	165
Unclassified constructional engineering work	5,176	81	115
Total constructional engineering work	14,280	..	2,972
Less total value of goods made or fabricated in firms' own works and used in the work	8,853	181	
Total constructional engineering work, exclusive of goods made and used by firms	5,427	..	2,972
Total	12,815	..	3,870

(a) Including goods made or fabricated by the firms and used by them in constructional engineering work.

(b) Recorded as:-

	£'000	
Fabricated iron and steel		
Girders, beams, joists and pillars	23,120	427
Other	17,362	405

Sales (or production) in the trade of other
than principal products

Larger establishments

TABLE 10

	1948 Sales(a)		1935 Production(a)
	Quantity	Value £'000	Value £'000
Machinery and plant, including parts			
Chemical and gas making machinery and plant	..	226	24
Air conditioning, heating and ventilating plant and appliances	..	34	249
Boilers and boiler-house plant (excluding boilers for ships or locomotives)	..	108	
Mechanical handling equipment	..	571	249
Mining machinery	..	121	
Agricultural machinery and appliances	..	132	379
Other machinery and plant	..	379	
Iron and steel	Tons		
Castings	3,559	187	195
Forgings, stampings and pressings	{ 2,290 ..	{ 148 19	{ 39
Fencing materials of cast or wrought iron (other than fencing wire)	{ 2,232 ..	{ 151 81	{ 157
Hollow-ware of wrought iron or steel	..	36	146
Door and window frames and casements of metal	{ 1,975 ..	{ 209 97	{ 49
Metal doors	{ 592 ..	{ 67 28	
Heavy plate work, not included elsewhere			
Storage tanks, vats and cisterns	{ 6,346 ..	{ 471 49	
Bunkers, bins and silos	{ 894 ..	{ 51 20	
Pipes and chimneys	{ 5,219 ..	{ 287 27	
Welded or riveted built-up plate work	{ 2,318 ..	{ 145 67	{ 560
Pressure and sundry vessels	{ 532 ..	{ 49 18	

TABLE 10 (contd.)

	1948 Sales (a)		1935 Production(a)
	Quantity	Value	Value
	Tons	£'000	£'000
Products of the Shipbuilding and Ship Repairing Trade	..	643	
Railway and tramway equipment	25,596 ..	1,218 72	
Parts and accessories of motor vehicles	..	113	
Machine tools (other than portable power tools)	..	241	
Other goods	..	992	
Total goods		7,057	1,419
Scrap metal sold	Th. tons		
Iron and steel	50.4	172	90
Other metals	1.3 ..	60 57	
Work done other than constructional engineering (b)			
Sub-contract installation of heating and ventilating plant		113	(c)
Repair work		428	308
Other		306	151
Total work done other than constructional engineering		847	459
Total		8,193	1,968

- (a) Including goods made or fabricated by firms and used by them in constructional engineering work.
 (b) Amount charged in 1948 and amount received in 1935.
 (c) Not recorded separately.

Analysis of sales, 1948
 Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Productive works	883	3.1
Export sales organisations (including branches abroad)	21	0.1
Other wholesale or selling organisations	168	0.6
Retail shops, etc.	18	0.1
Total sales (or transfers) to other organisations under the same control	1,090	3.8
Sales to independent buyers		
Exports invoiced directly overseas	1,177	4.1
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	1,852	6.4
His Majesty's Government and Local Authorities (other than productive establishments)	9,678	33.5
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	12,419	43.1
Wholesalers, merchants and other agents for resale	1,957(a)	6.8
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	31	0.1
Other businesses (including farmers) and institutions of all kinds	355	1.2
Members of the public, including employees	286	1.0
Total sales to independent buyers	27,755	96.2
Total	28,845(b)	100.0

- (a) Of this total £1,326,000 was recorded as divided between £458,000 for export and £868,000 for other sales.
 (b) This total represents the total shown in Table 23 (£88,832,000) less the aggregate value of constructional engineering work carried out in Great Britain (£59,140,000) and other work done (£847,000).

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

This table is not applicable to the trade.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Materials				
Iron and steel				
Pig iron	5.1	51	12.6	45
Castings, in the rough				
Iron	5.7	274	14.9	271(a)
Non-alloy steel	..	32		
Alloy steel	0.4	32		
Machined castings, iron and steel	1.2	79		
	..	103		
Bars and rods				
Of alloy steel	0.3	13	42.0	357
Of iron and non-alloy steel	57.3	1,259		
Sheets and strip of alloy steel	1.0	27		
Plates and sheets of iron and non-alloy steel	183.8	3,989	123.6	1,079
Hoop and strip (including tape) of iron and non-alloy steel	3.8	94		
Angles, shapes and sections of iron and non-alloy steel	316.3	5,941	208.0	1,741(b)
Forgings, in the rough, of iron and non-alloy steel				
Drop	0.8	60	1.3	27
Other	0.1	11		
	..	9		(b) (c)
Tubes and fittings of iron and non-alloy steel	6.0	326	10.8	230(d)
	..	68		
Girders, beams, joists and pillars of iron and non-alloy steel	227.8	4,151	379.5	3,139(b)

TABLE 13 (contd.)

	1948		1935	
	Materials and fuel purchased		Usage of purchased Materials and fuel	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. cwts.	£'000
Materials (contd.)				
Iron and steel (contd.)				
Blooms, billets and slabs of iron and non-alloy steel	3.5	65	..	(e)
Wire of iron and non-alloy steel	0.1	11		
Cable and rope	..	11		
Other	0.5	26		
Other descriptions, except finished parts or scrap	1.1	35		
Scrap iron and steel	3.0	15		
	..	3		
Aluminium and aluminium alloys				
Plates, sheets, strip and circles	247.0	2,111(f)	0.3	2(g)
Extruded tubes, bars, sections and wires	373.2	3,566(f)		
Other descriptions, except finished parts	18.2	229(f)		
	..	24		
Brass (including all alloys of copper, other than nickel alloys) in all forms, except finished parts	3.3	29	23.3	27(h)
	..	5		
Paint, enamel and varnish	Th. galls. 1,038.6	846		
Machinery belting (including conveyor and elevator bands)	Th. cwts. 1.7	24		
	..	6		
Chains, iron and steel				
Transmission	0.5	6		
	..	6		
Other	1.2	15		
	..	6		
Ball and roller bearings	0.6	9	..	(e)
	..	19		
Nuts, bolts and washers, etc. (f)	..	926		
Fabricated bridge and structural steelwork	..	1,810		
Timber (excluding timber used for making into cases, etc., or for repairing returnable cases)				
Hardwood	Th. cu. ft. 44	23		
	..	12		
Softwood (j)	Standards 18,848	1,375		

TABLE 13 (contd.)

	1948		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
		£'000		£'000
Materials (contd.)				
Purchased components, not elsewhere specified	..	7,726		
Packing materials	..	61		
Replacement parts for firms' machinery, other than machined castings	..	249	..	3,377(1)
Consumable tools bought as replacement	..	416		
All other purchased materials	..	4,271		
Unclassified materials	..	1,109	-	-
	Th. tons		Th. tons	
Fuel and electricity				
Coal	53.4	170	35.8	38
Coke	40.3	155	31.2	41
Electricity purchased (k)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	74,570	368		
From other sources	1,270	6	34,472	126
Electricity obtained from other works under the same ownership	6,959	26		
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.	
Used for road vehicles	890	90		
Used for other power purposes	206 ..	17 3	..	(e)
Other oil fuel (including creosote/pitch mixtures)	884 Th. therms	37	634	11(1)
Gas purchased and gas obtained from other works under the same ownership	2,228 Th. cu. ft.	86		
	105,266	13	..	(e)
All other purchased fuel	..	74		
Total		42,618		10,511

- (a) Described as "Iron and steel castings".
 (b) Including alloy steel.
 (c) Not described as in the rough.
 (d) Described as "Wrought tubes of iron and steel".
 (e) Not recorded separately.
 (f) So far as recorded separately.
 (g) Described as "Aluminium, in all forms".
 (h) Non-ferrous alloys in all forms.
 (i) Including fuel not specified separately.
 (j) Standards of 165 cubic feet.
 (k) The total quantity of electricity consumed in 1948 was 83,870,000 B.T. units including 1,071,000 generated in the same works.
 (l) Described as "Heavy fuel oil".

Stocks of finished products and work in progress and stocks of materials and fuel, 1948
Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
		£'000		£'000
Finished products	..	1,095	..	1,142
Work in progress		15,267		15,184
Total finished products and work in progress		16,362		16,326
	Th. tons		Th. tons	
Materials and fuel				
Iron and steel in all forms (except finished parts and scrap)	163.3 ..	2,906 931	181.5 ..	3,349 1,060
Other descriptions of materials and fuel	..	4,250	..	3,296
Total materials and fuel		8,087		7,704

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives		Administrative, technical and clerical employees (b)		Total	
	1948	1935	1948	1935	1948	1935
Males						
Under 18	1,966	3,059	736	567	2,702	3,626
All ages	45,593	28,015	9,391	5,668	54,984	33,683
Females						
Under 18	59	11	423	159	482	170
All ages	1,629	112	2,657	1,056	4,286	1,168
Total						
Under 18	2,025	3,070	1,159	726	3,184	3,796
All ages	47,222(c)	28,127	12,048(d)	6,724	59,270 (d) (e) (f)	34,851
Total remuneration	£'000	..	£'000	..	£'000	..
	15,968	..	5,085	..	21,053	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers	14 males	411 females
Other workers	470 males	154 females

(b) Number at September 25, 1948, and October 12, 1935.

(c) Including 10,567 operatives employed in outside work of erection, fitting, etc.

(d) There were, in addition, 38 working proprietors (37 males and 1 female) in 1948. Working proprietors are included in the 1935 figures.

(e) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £490,000.

(f) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	185	
Maintenance and repair of firms' buildings, but not plant	210	
Research work not directly connected with current production however charged	1	10

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	15,968	7,394	28.4	24.0	22.8	24.8	100.0
Administrative, technical and clerical employees	5,085	2,474	25.2	24.6	23.9	26.3	100.0
Total	21,053	9,867	27.6	24.1	23.1	25.2	100.0

(a) Including bonus and commission payments.

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

Larger establishments in Great Britain

The total amount paid for work done on materials given out was £9,219,000.

Payments for certain services, 1948
Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	134
Of plant, machinery and vehicles	236
Unclassified	193
Hire of plant, machinery and vehicles	245
Advertising and market research	
Advertising in newspapers, magazines and periodicals	73
Other advertising services (poster display, despatch of circulars, etc.) and market research	15
Unclassified	70
Payments made for research work	
To research associations	5
To universities, institutions, academic bodies and similar agencies	3
To other commercial concerns	5
Postage, telephone, telegrams and cables	179
Commercial insurance premiums	343
Rates (excluding water rates) payable in the year	88

Plant, machinery and vehicles acquired and disposed of, 1948
Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	638	192	71
Vehicles	130	57	22
Total	768	249	94

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

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		417
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	52	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	355	
(111) Leasehold buildings and land newly occupied in the year	137	
Total of heading 2		544
Total of headings 1 and 2		961
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	38	
(11) Estimated value of other properties relinquished	642	
Total of heading 3		680
4. Headings 1 and 2 less heading 3		281

(a) Excluding site value which, where appropriate, is included in heading 2(1).

(b) The figures do not reflect changes in ownership of previously occupied land and buildings.

(c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.

(d) Including property destroyed or abandoned.

CONSTRUCTIONAL ENGINEERING TRADE

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	61,051	4,194	21,786	87,031
Cost of materials and fuel used	30,542	2,373	10,086	43,001
Payment for work done on materials given out	5,015	40	4,163	9,219
Net output	25,493	1,782	7,537	34,811
Wages and salaries of persons employed	15,842	1,016	4,195	21,053
Average number of persons employed	No. 44,544	No. 2,703	No. 12,061	No. 59,308
Net output per person employed	£ 572	£ 659	£ 625	£ 587
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	11,902	563	3,861	16,326
Materials and fuel	5,809	376	1,520	7,704
Number of establishments	No. 308	No. 11	No. 47	No. 366

The values of gross output and of materials and fuel used are derived in the following way:-

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales and work done (see Table 23)	61,776	4,636	22,420	88,832
Adjustment for changes in stocks and work in progress	+ 391	- 418	- 9	- 36
	62,167	4,218	22,411	88,795
Less payment for transport by other firms	1,116	24	625	1,765
Gross output (production)	61,051	4,194	21,786	87,031
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	30,720	1,837	10,061	42,618
Adjustment for changes in stocks	- 177	+ 536	+ 25	+ 383
Materials and fuel used	30,542	2,373	10,086	43,001

Summary
Small firms

TABLE 22

	England and Wales (a)	Scotland	Great Britain
Number of returns	58	3	61
Average number of persons employed (b)			
Males	384	23	407
Females	24	1	25
Total	408	24	432

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars for Wales cannot be given.

(b) Including working proprietors.

ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS COUNTRY TABLES
Sales (including goods made or fabricated by the firms and used in
constructional engineering work) and work done in the trade

Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000	Tons	£'000
Principal products						
Iron and steel fabricated						
Bridge, mast and tower components	47,970	2,658	6,459	317	54,429	2,976
Steel shuttering, including road forms	..	(a)	..	(a)	5,001	276
Other descriptions, not elsewhere specified	469,837	20,406	87,658	4,198	557,495	24,604
Unclassified	1,077	54	18,010	1,035	19,087	1,089
Staircases of iron and steel	..	(a)	..	(a)	3,609	270
Tubular scaffolding, including fittings						
Of steel	1,481	155	-	-	1,481	155
Of aluminium	200	140	-	-	200	140
Steel rolling shutters	631	103	-	-	631	103
Temporary or prefabricated house framework and frame sections						
Of steel	19,770	1,187	6,269	359	26,039	1,546
Of aluminium	..	219	..	1,231	..	1,450
Permanent prefabricated buildings (houses, bungalows, etc.) of aluminium	..	(a)	..	(a)	No. 17,569	21,079
Portable buildings (garages, poultry houses, etc.)	..	759	-	-	Tons 147,429	69
Glazing bars	3,257	406	-	-	..	759
Total goods (principal products)	..	20	20
		45,117		15,104		60,221

CONSTRUCTIONAL ENGINEERING COUNTRY TABLES

TABLE 23 (contd.)

	England and Wales	Scotland	Great Britain
	Value of work done	Value of work done	Value of work done
	£'000	£'000	£'000
Principal products (contd.)			
Constructional engineering, etc. work carried out in Great Britain			
Work done as main contractors			
New building construction			
Purely residential houses, flats or tenements, including permanent prefabricated and temporary houses	(a)	(a)	19,697
Residential dwellings attached to business premises (other than department stores)	8	-	8
Department stores, shops not combined with dwellings, warehouses, and storage premises	1,048	71	1,119
Office buildings	512	13	525
Factories and workshops (including electric power stations, gas works, petrol filling stations, repair garages, etc.)	9,198	4,453	13,651
Schools and college buildings	443	58	502
Buildings for Service Departments	(a)	(a)	74
Other new buildings, including buildings on airfields and public buildings (buildings owned by Government, Local and other Public Authorities) except dwellings, schools, offices and factories	1,695	883	2,578
Work on buildings other than new construction	977	155	1,132
Unclassified new building construction and other work on buildings	827	165	992

TABLE 23 (contd.)

	England and Wales	Scotland	Great Britain
	Value of work done	Value of work done	Value of work done
Principal products (contd.)	£'000	£'000	£'000
Constructional engineering, etc. work carried out in Great Britain (contd.)			
Work done as main contractors (contd.)			
Other constructional work			
On railways and light railways (permanent way, tunnels, bridges, etc.)	302	14	315
On waterworks (reservoirs, aqueducts, wells, mains, hydraulic works, etc.)	(a)	(a)	269
On gas mains and works	1,332	-	1,332
On electric lines and works	100	-	100
Other, including constructional work on highways (roads, bridges, drains, etc.), harbours, wharves, docks, and piers	3,604	499	4,104
Housing site preparation	1,688	1,513	3,201
Work done as sub-contractors			
Work on buildings			
Structural steelwork	6,998	266	7,264
Other, including patent glazing and reinforced concrete but excluding heating and ventilating	(a)	(a)	1,726
Other constructional work	(a)	(a)	552
Total constructional engineering work	40,563	18,577	59,140
Less total value of goods made or fabricated in firms' own works and used in the work	26,777	11,945	38,722
Total constructional engineering work, exclusive of the value of goods made and used by the firms	13,786	6,632	20,417
Total principal products	58,903	21,736	80,639

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000		£'000
Other output						
Machinery and plant, including parts						
Chemical and gas making machinery and plant	..	(a)	..	(a)	..	226
Air conditioning, heating and ventilating plant and appliances	..	(a)	..	(a)	..	34
Boilers and boiler-house plant (excluding boilers for ships or locomotives)	..	108	-	-	..	108
Mechanical handling equipment	..	531	..	40	..	571
Mining machinery	..	(a)	..	(a)	..	121
Agricultural machinery and appliances	..	(a)	..	(a)	..	132
Other machinery and plant	..	314	..	65	..	379
Iron and steel						
Castings	Tons 3,559	187	-	-	Tons 3,559	187
Forgings, stampings and pressings	..	(a)	..	(a)	2,290 ..	148 19
Fencing materials of cast or wrought iron (other than fencing wire)	..	(a)	..	(a)	2,232 ..	151 81
Hollow-ware of wrought iron or steel	..	36	-	-	..	36
Door and window frames and casements of metal	1,975 ..	209 79	..	18	1,975 ..	209 97
Metal doors	592 ..	67 28	-	-	592 ..	67 28
Heavy plate work, not included elsewhere						
Storage tanks, vats and cisterns	..	(a)	..	(a)	6,346 ..	471 49
Bunkers, bins and silos	894 ..	51 20	-	-	894 ..	51 20
Pipes and chimneys	5,219 ..	287 27	-	-	5,219 ..	287 27
Welded or riveted built-up platework	2,318 ..	145 67	-	-	2,318 ..	145 67
Pressure and sundry vessels	532 ..	49 18	-	-	532 ..	49 18

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Other output (contd.)		£'000		£'000		£'000
Projects of the Shipbuilding and Ship Repairing Trade	..	(a)	..	(a)	..	643
Railway and tramway equipment	Tons 24,607	1,174	Tons 989	44	Tons 25,596	1,218
	..	72			..	72
Parts and accessories of motor vehicles	..	113	-	-	..	113
Machine tools (other than portable power tools)	..	(a)	..	(a)	..	241
Other goods	..	802	..	191	..	992
Total goods (other output)		6,490		568		7,057
Scrap metal sold	Tn. tons		Tn. tons		Tn. tons	
Iron and steel	41.5	141	8.9	32	50.4	172
Other metals	1.1	48	0.2	12	1.3	60
	..	53	..	3	..	57
Work done other than constructional engineering (b)						
Sub-contract installation of heating and ventilating plant		113		-		113
Repair work		364		64		428
Other		301		5		306
Total work done other than constructional engineering		778		70		847
Total		66,412		22,420		88,832

(a) Owing to the risk of disclosure of information relating to individual firms separate figures cannot be given.

(b) Amount charged.

Purchased materials and fuel

Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Iron and steel						
Pig iron	..	(a)	..	(a)	5.1	51
Castings, in the rough						
Iron	..	(a)	..	(a)	5.7	274
					..	32
Non-alloy steel	..	(a)	..	(a)	0.4	32
Alloy steel	..	(a)	..	(a)	0.1	8
Machined castings, iron and steel	..	(a)	..	(a)	1.2	79
					..	103
Bars and rods						
Of alloy steel	..	(a)	..	(a)	0.3	13
Of iron and non-alloy steel	42.0	934	15.3	325	57.3	1,259
Sheets and strip of alloy steel	1.0	27	-	-	1.0	27
Plates and sheets of iron and non-alloy steel	142.9	2,884	40.9	1,105	183.8	3,989
Hoop and strip (including tape) of iron and non-alloy steel	3.7	92	-	1	3.8	94
Angles, shapes and sections of iron and non-alloy steel	254.5	4,811	61.7	1,130	316.3	5,941
Forgings, in the rough, of iron and non-alloy steel						
Drop	0.8	60	-	-	0.8	60
Other	..	(a)	..	(a)	0.1	11
					..	9
Tubes and fittings of iron and non-alloy steel	5.9	321	0.1	6	6.0	326
	..	57	..	11	..	68
Girders, beams, joists and pillars of iron and non-alloy steel	179.3	3,265	48.6	866	227.8	4,151
Blooms, billets and slabs of iron and non-alloy steel	1.7	34	1.7	31	3.5	65
Wire of iron and non-alloy steel						
Cable and roper	0.1	8	-	3	0.1	11
	..	10	..	1	..	11
Other	0.4	24	-	2	0.5	26
Other descriptions, except finished parts or scrap	..	(a)	..	(a)	1.1	35

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost £'000	Quantity	Cost £'000	Quantity Th. tons	Cost £'000
Materials (contd.)						
Iron and steel (contd.)						
Scrap iron and steel	..	(a)	..	(a)	3.0 ..	15 3
Aluminium and aluminium alloys					Th. cwts.	
Plates, sheets, strip and circles	..	(a)	..	(a)	247.0	2,111
Extruded tubes, bars, sections and wires	..	(a)	..	(a)	373.2	3,566
Other descriptions, except finished parts	..	(a)	..	(a)	18.2 ..	229 24
Brass (including all alloys of copper, other than nickel alloys) in all forms, except finished parts	..	(a)	..	(a)	3.3 ..	29 5
Paint, enamel and varnish	Th. galls. 797.0	634	Th. galls. 239.6	212	1,036.6	846
Machinery belting (including conveyor and elevator bands)	Th. cwts. 1.7 ..	24 4	Th. cwts. ..	2	1.7 ..	24 8
Chains, iron and steel						
Transmission	..	(a)	..	(a)	0.5 ..	6 6
Other	1.2 ..	15 6	-	-	1.2 ..	15 6
Ball and roller bearings	0.5 ..	7 18	-	2 1	0.6 ..	9 19
Nuts, bolts and washers, etc.	..	733	..	193	..	926
Fabricated bridge and structural steelwork	..	1,322	..	487	..	1,810
Timber (excluding timber used for making into cases, etc., or for repairing returnable cases)	Th. cu. ft.		Th. cu. ft.		Th. cu. ft.	
Hardwood	35 ..	19 11	9 ..	4 1	44 ..	23 12
Softwood	..	(a)	..	(a)	Standards 18,848	1,375
Purchased components, not elsewhere specified	..	5,617	..	2,109	..	7,726
Packing materials	..	49	..	11	..	61

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost £'000	Quantity	Cost £'000	Quantity	Cost £'000
Materials (contd.)						
Replacement parts for firms' machinery, other than machined castings	..	221	..	29	..	249
Consumable tools bought as replacement	..	341	..	75	..	416
All other purchased materials	..	3,503	..	769	..	4,271
Unclassified materials	..	961	..	148	..	1,109
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	40.7	135	12.8	35	53.4	170
Coke	34.8	137	5.5	18	40.3	155
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	58,012	287	16,558	81	74,570	368
From other sources	..	(a)	..	(a)	1,270	6
Electricity obtained from other works under the same ownership	..	(a)	..	(a)	6,959	26
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	701	72	189	18	890	90
Used for other power purposes	187 ..	16 3	19	1	208 ..	17 3
Other oil fuel (including creosote/pitch mixtures)	753	32	131	5	884	37
Gas purchased and gas obtained from other works under the same ownership	Th. therms 2,151 Th. cu. ft. 11,075	83	Th. therms 77 Th. cu. ft. 94,191	3	Th. therms 2,228 Th. cu. ft. 105,288	86 13
All other purchased fuel	..	67	..	7	..	74
Total		32,556		10,061		42,618

(a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.

(b) The total quantity of electricity consumed in Great Britain was 83,870,000 B. T. units, including 1,071,000 generated in the same works. Owing to the risk of disclosure of information relating to individual firms separate figures for England and Wales and for Scotland cannot be given.

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total
Males									
Under 18	1,578	617	2,195	388	119	507	1,966	736	2,702
All ages	36,303	7,674	43,977	9,290	1,717	11,007	45,593	9,391	54,984
Females									
Under 18	44	329	373	15	94	109	59	423	482
All ages	1,154	2,085	3,239	475	572	1,047	1,629	2,657	4,286
Total									
Under 18	1,622	946	2,568	403	213	616	2,025	1,159	3,184
All ages	37,457(b)	9,759(c)	47,216(c)(d)	9,765(b)	2,289(c)	12,054(c)(d)	47,222(b)	12,048(c)	59,270(c)(d)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	12,706	4,152	16,858	3,262	933	4,195	15,968	5,085	21,053

(a) Number at September 25, 1948.

(b) Including operatives employed in outside work of erection, fitting, etc., the numbers so included being 10,567 in Great Britain; 8,160 in England and Wales, and 2,407 in Scotland.

(c) There were, in addition, 38 working proprietors (37 males and 1 female) in Great Britain; 30 males and 1 female in England and Wales, and 7 males in Scotland.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £490,000; £392,000 for England and Wales, and £98,000 for Scotland.

Monthly Index of employment of operatives: Larger establishments

(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	131.2	94.6	122.4	August	92.6	101.4	94.7
February	126.6	94.6	118.9	September	93.2	104.9	96.0
March	105.8	95.6	103.4	October	92.7	105.1	95.7
April	98.7	96.6	98.2	November	93.5	105.3	96.4
May	92.1	99.1	93.8	December	91.3	104.6	94.5
June	91.9	100.4	93.9	Percentage employment in this trade covered by the index			
July	90.3	97.5	92.1		44.7	54.6	46.7

(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. The question of man-hours worked in this trade will be dealt with in a later summary volume.

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