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BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 1

Trade F

BRICK AND FIRECLAY



*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

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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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* Not applicable to this trade

BRICK AND FIRECLAY

1/F/1

BRICK AND FIRECLAY TRADE

THIS REPORT on the Brick and Fireclay Trade relates to establishments engaged wholly or mainly in the manufacture of building bricks, clay flooring and roofing tiles, fireclay sanitary ware and other similar clay products, bath bricks, hearthstones, ground or flaked graphite, and refractory goods such as ganister, magnesite and silica bricks, crucibles, gas retorts and kiln linings.

This trade corresponds to minimum list heading 20 in the Standard Industrial Classification with the addition of plumbago crucibles, bath bricks, hearthstones and ground or flaked graphite from heading 29(3) relating to miscellaneous non-metalliferous mining manufactures.

The particulars given for the year 1948 are not exactly comparable with those given for 1937 and 1935. In each year the majority of firms which manufactured brick and fireclay products and which owned the quarries at which brickearth, clay etc., were raised made combined returns in this trade covering both their factories and their associated quarries instead of making separate returns in respect of their quarries in the Non-Metalliferous Mines and Quarries trade. The proportion of returns in this trade which included quarries was about 90 per cent. in 1935 and about 70 per cent. in 1937 and 1948. The number of quarry personnel included in the report for this trade in each year is unknown.

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

BRICK AND FIRECLAY TRADE

Summary

Larger establishments

TABLE 1

	1948 (a)	1937 (b)	1935 (b)
Gross output (production)	£'000 55,054	£'000 32,567	£'000 27,921
Cost of materials and fuel used	18,668	10,054	7,966
Payment for work done on materials given out	24	13	18
Brick levy payable to the Ministry of Works	82	-	-
Net output	36,281	22,500	19,937
Wages and salaries of persons employed	23,851	..	..
Average number of persons employed (c)	No. 71,977 (d)	No. 95,853	No. 91,573
Net output per person employed (c)	£ 504	£ 235	£ 218
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	5,657	..	..
Materials and fuel	2,939	..	..
Number of establishments	No. 1,011	No. ..	No. 1,420

(a) Great Britain only.

(b) United Kingdom.

(c) Excluding outworkers.

(d) For an estimate of the total number of persons employed in this trade see Table 3.

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

	1948	1937	1935
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	57,346	32,214	27,574
Other output (see Table 10)	579	353	347
Adjustment for changes in stocks and work in progress (see Table 14)	+ 1,351		
Less payment for transport by other firms	59,277 4,222	} 32,567	27,921
Gross output (production)	55,054	32,567	27,921
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	18,853	} 10,054	7,966
Adjustment for changes in stocks (see Table 14)	- 186		
Materials and fuel used	18,668	10,054	7,966

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	234
Average number of persons employed (a)	
Males	1,278
Females	50
Total	1,328

(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)	71,977
Employing on average ten persons or less (b)	1,328
	73,305
Estimated average employment in firms not making satisfactory returns	600
Estimated average employment in all firms	73,905

(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	238	2,852	1,852	4,419	1,193	158	1,351	419
25-49	356	8,870	5,921	12,803	3,615	453	4,068	462
50-99	233	11,874	7,887	15,968	4,589	594	5,182	494
100-199	129	13,823	9,203	17,363	5,096	763	5,858	530
200-299	28	5,773	3,701	6,753	1,974	351	2,326	548
300-399	11	2,841	1,845	3,910	1,110	198	1,308	472
400-499	7	2,389	1,550	3,083	865	172	1,037	503
500-749	4	2,429	1,298	2,432	690	126	816	534
750 and over	5	4,204	3,023	5,246	1,543	361	1,903	576
Total	1,011	55,054	36,281	71,977	20,674	3,176	23,851	504

Analysis by standard region, 1948

Larger establishment 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	103	4,685	2,734	7.5	5,564	1,571	211	1,782
East and West Ridings of Yorkshire	123	6,338	4,232	11.7	7,882	2,309	280	2,589
North Midland	123	7,158	4,653	12.8	8,723	2,621	442	3,062
Eastern	37	3,301	2,453	6.8	5,080	1,488	259	1,747
London and South Eastern	78	4,131	2,644	7.3	4,748	1,382	296	1,678
Southern	41	2,024	1,450	4.0	3,092	933	146	1,079
South Western	58	1,609	1,166	3.2	2,622	744	88	833
Midland	136	10,342	6,805	18.8	13,663	3,921	631	4,552
North Western	112	5,104	3,394	9.4	7,460	2,131	296	2,427
Total England	811	44,691	29,531	61.4	58,834	17,100	2,651	19,751
Wales	82	3,308	2,168	6.0	4,322	1,156	181	1,337
Scotland	118	7,056	4,583	12.6	8,821	2,418	345	2,763
Great Britain	1,011	55,054	36,281	100.0	71,977	20,674	3,176	23,851

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output	Sales of characteristic products (a)	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of Building bricks (including flooring and wall partition blocks)									
Fletton type	72	6,249	7,150	4,711	9,427	2,816	462	3,278	500
Others	524	15,374	14,778	10,436	23,403	6,711	766	7,477	446
Roofing tiles of clay	71	3,045	2,508	2,253	4,835	1,418	164	1,582	466
Refractory goods (other than plumbago crucibles)	166	15,583	16,052	9,179	15,627	4,446	826	5,272	587
Sanitary ware (other than cement, concrete or earthenware)	89	8,711	7,982	5,674	11,309	3,234	544	3,777	502
Remainder of the trade	89	6,093		4,028	7,371	2,049	415	2,464	546
Total	1,011	55,054		36,281	71,977	20,674	3,176	23,851	504

(a) Including cost of transport outwards (excluded from gross output).

Total quantity of clays, etc., raised by firms classified to the trade (a)

Larger establishments

TABLE 7

Kind of clay, etc., raised	1948 (b)		1935 (c)
	Quantity	Entries	Quantity
	Th. tons	No.	Th. tons
Fireclay	1,106	88	1,262
Other clays			
Brick-earth and clay	14,009	490	21,086
Sand and marl	426	41	1,131
Shale	1,649	77	3,759
Other kinds	330	36	763
Silica stone	78	12	121
Total	17,597	..	28,122

(a) Including clays returned in this trade which were used in making bricks, etc., in the firms' own works but excluding output returned in the Non-Metalliferous Mines and Quarries Trade (Volume 1, Trade B).

(b) Great Britain only.

(c) United Kingdom.

DS 22558/1

Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades (a)

Larger establishments

TABLE 8

	1948 (b) Sales			1937 (c) Production		1935 (c) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Millions	£'000	No.	Millions	£'000	Millions	£'000
Bricks, building							
Glazed or enamelled bricks	3.3	154	10	22.2	427	16.7	301
Sand-lime bricks	82.0	373	17	166.6	312	114.9	218
Of brick-earth, clay or shale							
Fletton type							
Common	1,360.5	5,607	63	7,602.6	16,446	7,178.7	15,390(d)
Facing	305.8	1,668	24				
Non-Fletton type							
Common	1,859.1	9,085	481				
Facing	486.6	3,805	292				
Engineering	148.5	1,291	98				
Bricks of diatomaceous earth (including Kieselguhr and infusorial earth)	..	38	..				
All other building bricks	{ 113.5	{ 681	{ 98				
	{ ..	{ 133	{ ..				
Total building bricks	{ 4,359.3	{ 22,664	{ ..	7,791.4	17,185	7,310.3	15,909
	{ ..	{ 171	{ ..				
Clay and terra-cotta flooring and wall partition blocks							
Hollow	128.9	501	27	137.8	235	137.7	196(e)
Solid	-	-	(f)	..	(f)

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TABLE 8 (contd.)

	1948(b) Sales				1937(c) Production		1935(c) Production	
	Quantity		Value	Entries	Quantity	Value	Quantity	Value
	Millions	Th. tons	£'000	No.	Millions	£'000	Millions	£'000
Roofing tiles of clay								
Plain	255.0 33.5	276.7 ..	1,800 261	86				
Single lap	15.8 5.8	48.3 ..	410 73	36	715.6 Th. tons	2,275	735.6 Th. tons	2,326
Ridges, hips, valleys, etc.	8.0 1.2	20.9 ..	277 43	98	805.0		833.7	
Other	0.5	1.1	18	11				
Quarries and street paving tiles								
Ordinary pressed flooring quarries of clay	72.5 16.9	63.4 ..	631 176	33				
Ordinary pressed flooring quarries of other materials and street paving tiles of clay	8.2 0.5	2.3 ..	10 11	11	Millions 78.1 Th. tons	315	Millions 66.5 Th. tons	270
Street paving tiles of other materials	-	-	-	-				
Bacteria bed tiles	..	3.1	26	7	4.0	16		
Other sorts of tiles (g)	1.2 11.0	3.3 .. 2.6 ..	13 93 69 5	35	75.8	217	79.3	214
Total tiles	361.2 68.9	416.2 .. 5.7 ..	3,159 657 95 5	..	977.7	2,823	1,003.5	2,810
		Th. tons						
Flower pots, unglazed	15.4 ..	267 64	29	24.0	167	21.8 ..	141(h) 128	
Chimney pots	11.4 ..	216 41	54	17.4	131			
Agricultural drain-pipes of clay, unglazed	99.8 ..	457 103	106	80.9	223	52.0	111	
Sanitary ware (excluding sanitary earthenware)								
Drainpipes, angles, bends, elbows and traps								
Of clay, stoneware or fireclay, salt-glazed	414.3	5,099	97	561.4	3,127	549.3	2,197	
Of other materials (except pre- cast concrete)	0.1	2	..					

TABLE 8 (contd.)

	1948 (b) (Sales)			1937 (c) Production		1935 (c) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.	Th. tons	£'000	Th. tons	£'000
Sanitary ware (excluding sanitary earthenware) (contd.)							
Other sanitary ware							
Of fireclay, glazed or enamelled							
Baths	-	-	-				
Lavatory basins	Thous. 7 ..	Th. tons 0.2 3.3	21 411	15			
Sinks	33 ..	2.1 23.5	121 1,103	21			
Urinals	Th. 4 .. Thous.	0.5 2.9	42 210	14	75.0	1,641	77.6 1,403
W.C. Pans	24 ..	0.5 3.9	49 489	18			
Other	Th. tons 4.5	385	15				
Unclassified	14.4 ..	726 426	12				
Other descriptions, except slate urinals	1.7	19	..	4.3	30	4.0	31
Pipes and tubes of stone- ware or fireclay for electrical and other purposes, not sanitary ware	76.4	888	36	179.6	940	96.5	460
Refractory goods							
Fireclay							
Ground	265.7	618	139	283.0	268	248.2	216
Unground	86.7	128	41	146.0	74	122.9	64
Silica stone							
Ground	87.4	304	16	133.8	172	76.8	105
Unground	7.7	5	..	38.0	19	20.2	10

TABLE 8 (contd.)

	1948 (b) Sales			1937 (c) Production		1935 (c) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Refractory goods (contd.)							
Firebricks up to and including bricks of 9 in. x 4½ in. x 3 in.	835.9	4,172	155	804.2	1,407	839.6	1,002
Firebricks or lumps, including tiles and bricks exceeding 9 in. x 4½ in. x 3 in.	286.6	3,189	118	332.8	1,313	297.1	1,045
Silica bricks up to and including bricks of 9 in. x 4½ in. x 3 in.	188.5	1,360	28	182.4	646	132.1	452
Silica bricks or lumps, including tiles and bricks exceeding 9 in. x 4½ in. x 3 in.	115.9	1,368	27	98.4	534	72.6	396
Magnesite bricks	23.0	628	10	10.7	172	7.7	124
Siliceous bricks and shapes (75-92 per cent. silica)	34.7	270	12				
Insulating bricks for furnace construction	20.7	539	19				
Chrome bricks	5.8	109	8				
Dolomite bricks	9.3	186	..	15.5	202	8.8	106
Bauxite and other bricks, shapes and tiles containing over 50 per cent. alumina	8.6	276	10				
Sillimanite bricks	5.2	193	18				
Other refractory bricks	59.5	1,252	17				
Total refractory bricks	1,578.7	13,539	..	1,444.0	4,274	1,157.9	3,125
	Th. feet			Th. feet		Th. feet	
Retorts, fireclay	44.1 ..	70 21	11	65.6	39	69.3	37
Retorts, silica	32.3 ..	50 7	6				
Other sorts of refractory goods, including refractory cement and plumbago and other crucibles	..	4,758	116	..	999(1)	..	838(1)
Unclassified	-	-	-	..	60	..	83
Total refractory goods		19,498	..		5,905		4,478
				Th. cu. ft.		Th. cu. ft.	
Architectural terra-cotta and faience, glazed and unglazed, excluding charges for fixing	..	87	12	507.6 ..	192 45	480.1 ..	177 21
Bath bricks, hearth stones and the like	Th. tons 1.5 ..	21 29	5	Th. tons 3.0 ..	11(e) 10	Th. tons 4.2 ..	26(e) 11
Graphite, ground, flaked, etc. (e)	2.2	130	..	-	-	-	-

TABLE 8 (contd.)

	1948 (b) Sales			1937 (c) Production		1935 (c) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Clays, etc., sold (other than fireclay and silica stone)	134.7 ..	207 111	112	300.7 ..	113 30	228.3	81
Waste products	..	96	264	..	(j)	..	(j)
Work done for the trade, including fixing architectural terra-cotta and faience (k)		101	32		41 (l)		22(1)
Total		58,673	..		32,849		28,202
Less sales (or production) in other trades (see Table 9)		1,327	..		635		628
Total principal products of this trade sold or made by establishments in the trade		57,346	939		32,214		27,574

(a) For bricks, tiles, etc., of cement or concrete see the Building Materials Trade (Volume 1, Trade L). The quarry products included in this table are limited to those included in returns for this trade. They will not be included in the report on the Non-Metalliferous Mines and Quarries Trade (Volume 1, Trade B).

(b) Great Britain only.

(c) United Kingdom.

(d) Including 18.0 million bricks valued at £49,000 returned on schedules for the Building and Contracting Trade which was not covered by the 1937 Inquiry.

(e) So far as recorded separately.

(f) Not recorded separately.

(g) Excluding glazed wall and hearth tiles and tiles for tessellated pavements, for which see the China and Earthenware Trade (Volume 1, Trade G).

(h) Including some other red pottery and terra-cotta ware.

(i) Including some cement other than refractory.

(j) Not recorded.

(k) Amount charged in 1948 and amount received in 1937 and 1935.

(l) Amount received for fixing architectural terra-cotta and faience only; the amount received for other work done for the trade was not recorded.

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

Larger establishments

TABLE 9

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Millions	£'000	No.	Millions	£'000	Millions	£'000
Bricks, building							
Of brick-earth, clay or shale							
Fletton type, common or facing	5.1	24	12	4.1	5	19.6	56
Non-Fletton type							
Common	10.1	50	13				
Engineering	-	-	-				
All other building bricks except glazed, enamelled or sandlime bricks, including non-Fletton type facing bricks of brick-earth, clay or shale and bricks of diatomaceous earth	0.7 ..	6 17	..				
Total building bricks	15.8 ..	80 17	..	4.1	5	19.6	56
Roofing tiles of clay, other than plain	-	-	-				
Other sorts of tiles (except street paving tiles of materials other than clay and bacteria bed tiles) including plain roofing tiles of clay, ordinary pressed flooring quarries of clay and other materials, and street paving tiles of clay	7.2 ..	6.9 ..	59 5	4.6	47	3.3	36
Bacteria bed tiles	-	-	-				
Total tiles	Th. tons 6.9 ..	59 5	..	4.6	47	3.3	36

TABLE 9 (contd)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Flower pots, unglazed	1.0	24	..	1.4	10	2.8 ..	19 1
Chimney pots; and agricultural drainpipes of clay, unglazed	0.1	1	..	2.9	19		
Sanitary ware (excluding sanitary earthenware)							
Drainpipes, angles, bends, elbows and traps of materials other than clay, stoneware or fireclay, salt-glazed (except pre-cast concrete)	-	-	-				
Of fireclay, glazed or enamelled							
Baths	-	-	-				
W.C. Pans	Thous. 23 Th. tons 0.5	47	..				
Other descriptions (except slate urinals) including drainpipes, angles, bends, elbows and traps of clay stoneware or fireclay, salt-glazed, and other and unclassified sanitary ware of fireclay, glazed or enamelled, including lavatory basins sinks and urinals	11.5	280	..	38.3	409	28.7	317
Firebricks up to and including bricks of 9 in. x 4½ in. x 3 in.	19.2	94	10	-	-	0.5	1
Firebricks or lumps, including tiles and bricks exceeding 9 in. x 4½ in. x 3 in.	5.2	58	8	0.9	2	0.5	2
Total refractory bricks	24.4	153	..	0.9	2	1.0	3
Retorts, fireclay; and graphite, ground, flaked, etc.	..	80	5	-	-	-	-

TABLE 9 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.		£'000		£'000
Retorts, silica	-	-	-				
Refractory goods not elsewhere specified, other than refractory bricks, shapes, etc., including refractory cement and plumbago and other crucibles	..	570	20	..	26	..	96
Unclassified refractory goods	-	-	-	..	60	..	53
Architectural terra-cotta and faience, glazed and unglazed, excluding charges for fixing	..	9	..	..	45	Th. cu. ft. 26.9	23
Bath bricks, hearth stones and the like	-	-	-	..	5	..	3
Work done for the trade, including fixing architectural terra-cotta and faience (c)		2	..		7		-
Total		1,327	..		635		628

(a) Great Britain only.

(b) United Kingdom.

(c) Amount charged in 1948 and amount received in 1937.

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

Larger establishments

TABLE 10

	1948 (a) Sales		1937 (b) Production	1935 (b) Production
	Quantity	Value	Value	Value
	Th. sq. yds.	£'000	£'000	£'000
Glazed tiles (including tiles for tessellated pavements)	75.3 Th. cwts. 31.0	80	114	110
Slabbed work and other tile and mosaic work	..	170	61	67
Stoneware, brown and yellow ware	10.8	45	33	24
Red pottery and terra-cotta ware, glazed and unglazed (other than architectural, chimney pots and unglazed flower pots)	59.0 Th. tons ..	45 36	28	(c)
Pre-cast concrete goods	16.5 Th. cwts.	99	32(d)	55(d)
Porcelain, earthenware or stoneware for industrial purposes (including electrical ware)	9.9	36	-	-
Other goods	..	69	74	91
Work done		-	11(e)	-
Total		579	353	347

(a) Great Britain only.

(b) United Kingdom.

(c) Included with flower pots, unglazed, and chimney pots, see Table 8.

(d) Including some cement goods.

(e) Amount received.

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	1,700	2.9
Export sales organisations (including branches abroad)	221	0.4
Other wholesale or selling organisations	2,234	3.9
Retail shops, etc.	-	-
Total sales (or transfers) to other organisations under the same control	4,155	7.2
Sales to independent buyers		
Exports invoiced directly overseas	1,546	2.7
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	612	1.1
His Majesty's Government and Local Authorities (other than productive establishments)	2,753	4.8
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	29,907	51.7
Wholesalers, merchants and other agents for resale	18,032(a)	31.2
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	170	0.3
Other businesses (including farmers) and institutions of all kinds	574	1.0
Members of the public, including employees	77	0.1
Total sales to independent buyers	53,671	92.8
Total	57,826	100.0

(a) Of this total £14,108,000 was recorded as divided between £928,000 for export and £13,180,000 for other sales.

Production, exports and imports of certain principal products (a)

TABLE 12

		Production (b)(c)	Exports (d)	Retained imports (e)
		Millions	Millions	Millions
Bricks, building	{1948 1937	4,383.7(f) 7,791.4	2.7 1.7	6.3 193.3
		Th. tons	Th. tons	Th. tons
Roofing tiles of clay	{1948 1937	399.0(f) 805.0	2.7 1.4	8.9 27.4
Quarries and street paving tiles, other than of pre-cast concrete	{1948 1937	84.6(f) 92.9	1.6 1.0	0.4 0.3
Other tiles (except glazed wall and hearth tiles and tiles for tessellated pavements) (g)	{1948 1937	£'000 206 233	£'000 70 22	£'000 8 13
Agricultural drainpipes of clay, unglazed, and sanitary drainpipes, angles, bends, elbows and traps other than of precast concrete	{1948 1937	Th. tons 536.7(f) 642.3	Th. tons 26.9 10.2	Th. tons - 1.3
		£'000	£'000	£'000
Other sanitary ware	{1948 1937	3,984 1,641	574 138	- 55
Of fireclay, glazed or enamelled		Th. tons	Th. tons	Th. tons
Other descriptions, except slate urinals and sanitary earthenware	{1948 1937	1.7 4.3	- -	- (h)
Refractory goods				
Bricks, lumps and tiles				
Firebricks	{1948 1937	1,122.5 1,137.0	90.9 119.3	1.7 0.7
Other	{1948 1937	451.2 307.0	13.6 7.0	0.3 13.8
Other sorts of refractory goods (except fireclay and silica stone), including fireclay and silica retorts, refractory cement and plumbago and other crucibles (i)	{1948 1937	£'000 4,905 1,038	£'000 684 273	£'000 21 11

(a) Figures of sales or production refer only to larger establishments in Great Britain (1948) or the United Kingdom (1937). All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.

(b) Sales in 1948 and production for sale in 1937.

(c) Including sales (or production) by establishments classified to other trades.

(d) Valued f.o.b.

(e) Valued c.i.f.

(f) Partly estimated.

(g) The overseas trade figures include tiles for tessellated pavements.

(h) Re-exports in excess of imports.

(i) The overseas trade figures do not include refractory cement.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948 (a)		1937 (b)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Brick-earth, clay or shale	2,611.0	541	4,710.6	354		
Fireclay	1,168.3	1,390	1,777.1	702		
Silica stone	370.3	446	286.4	195		
Magnesite	40.5	624				
Chrome	60.8	561				
Dolomite	97.1	47	1,851.1	591(d)	..	3,732(c)
	..	52				
Bauxite	2.3	25				
Sillimanite, kyanite and andalusite	10.8	128				
Glaze or materials for glaze	8.5	102	7.1	54		
	..	67	..	21		
All other purchased materials	..	4,924	..	2,641		
Fuel and electricity						
Coal	3,105.7	7,854	4,979.7	4,505	4,645.1	3,627
Coke	100.0	343	..	(e)	92.7	88
Electricity purchased (f)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	202,352	953	220,893	609	164,246	458
From other sources	15,271	67				
Electricity obtained from other works under the same ownership	15,565	63				
Motor spirit (petrol) and derv. fuel	Th. galls.					
Used for road vehicles	2,867	255	..	(e)	..	(e)
Used for other power purposes	1,418	96				
Other oil fuel (including creosote/pitch mixtures)	3,589	152	Th. galls.		Th. galls.	
	..	21	3,717	83(g)	2,930	61(g)

TABLE 13 (contd.)

	1948 (a)		1937 (b)		1935 (b)	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. therms	£'000		£'000		£'000
Fuel and electricity (contd.)						
Gas purchased	2,985	69	..	299	..	(e)
Gas obtained from other works under the same ownership	-	-				
All other purchased fuel	..	75				
Total		18,853		10,054		7,966

(a) Great Britain only.

(b) United Kingdom.

(c) Including fuel not specified separately.

(d) Described as "Other raw materials".

(e) Not recorded separately.

(f) The total quantity of electricity consumed in 1948 was 315,240,000 B. T. units including 82,053,000 generated in the same works.

(g) 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
Finished products	Millions	£'000	Millions	£'000
Building bricks of brick-earth, clay or shale	418.8	1,169	519.5	1,622
Roofing tiles of clay	25.4 Th. tons	153	72.7 Th. tons	396
	34.9 Millions		94.4 Millions	
	17.1 ..		42.6 ..	
Sanitary ware	Th. tons		Th. tons	
	Drainpipes, angles, bends, elbows and traps	54.7 360 .. 51	82.8 ..	538 80
Other sanitary ware of fireclay, glazed or enamelled	4.7	126	6.0	149
	..	122	..	136
Firebricks, lumps and tiles	102.7	391	100.9	396
Other finished products	..	655	..	847
Work in progress		1,172		1,327
Total finished products and work in progress		4,306		5,657
Materials and fuel	Th. tons		Th. tons	
Brick-earth, clay or shale	585.0	160	661.6	193
Fireclay	569.9	327	650.5	422
Coal	275.0	656	193.4	481
Other descriptions of materials and fuel	..	1,612	..	1,843
Total materials and fuel		2,754		2,939

(a) Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948 (c)	1937 (d)	1935 (d)	1948 (c)	1937 (d)	1935 (d)	1948 (c)	1937 (d)	1935 (d)
Males									
Under 18	3,813	12,513	11,089	214	450	297	4,027	12,963	11,386
All ages	60,448	85,326	81,801	5,381	5,167	4,776	65,829	90,493	86,577
Females									
Under 18	427	888	708	300	177	99	727	1,065	807
All ages	4,479	4,376	4,145	1,612	984	851	6,091	5,360	4,996
Total									
Under 18	4,240	13,401	11,797	514	627	396	4,754	14,028	12,193
All ages	64,927	89,702	85,946	6,993 (e)	6,151	5,627	71,920 (e) (f) (g)	95,853	91,573
Total remuneration	£'000			£'000			£'000		
	20,674	..	..	3,176	..	..	23,851	..	..

(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 84 males 426 females

Other workers 355 males 67 females

(b) Number at September 25 1948, October 16, 1937, and October 12, 1935.

(c) Great Britain only.

(d) United Kingdom.

(e) There were, in addition, 57 working proprietors (54 males and 3 females) in 1948. Working proprietors are included in the 1937 and 1935 figures.

(f) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £600,000.

(g) 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	1,040	
Maintenance and repair of firms' buildings, but not plant	423	
Research work not directly connected with current production however charged	2	39

In addition to the employees in the above table the firms in this trade employed 5 male and 1 female outworkers in 1948, the amount paid to them being £1,000. Similar information is not available for 1937 and 1935.

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
	£'000	£'000					
Wages and salaries of							
Operatives	20,674	12,742	24.1	24.7	25.1	26.0	100.0
Administrative, technical and clerical employees	3,176	1,932	23.6	24.0	24.8	27.5	100.0
Total	23,851	14,674	24.0	24.7	25.1	26.2	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 £24,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
/ Of buildings	184
/ Of plant, machinery and vehicles	572
/ Unclassified	778
Hire of plant, machinery and vehicles	452
Advertising and market research	
/ Advertising in newspapers, magazines and periodicals	23
/ Other advertising services (poster display, despatch of circulars, etc.) and market research	8
/ Unclassified	55
Payments made for research work	
/ To research associations	22
/ To universities, institutions, academic bodies and similar agencies	4
/ To other commercial concerns	13
Postage, telephone, telegrams and cables	149
Commercial insurance premiums	286
Rates (excluding water rates) payable in the year	152

TREATMENT OF NON-METALLIFEROUS MINING PRODUCTS OTHER THAN COAL
 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	1,646	124	90
Vehicles	200	81	48
Total	1,847	206	139

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)		649
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	56	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	13	
(111) Leasehold buildings and land newly occupied in the year	62	
Total of heading 2		131
Total of headings 1 and 2		780
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	47	
(11) Estimated value of other properties relinquished	226	
Total of heading 3		273
4. Headings 1 and 2 less heading 3		508

- (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.

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
Gross output (production)	£'000 44,691	£'000 3,308	£'000 7,056	£'000 55,054
Cost of materials and fuel used	15,073	1,131	2,463	18,668
Payment for work done on materials given out	18	5	1	24
Brick levy payable to the Ministry of Works	69	4	9	82
Net output	29,531	2,168	4,583	36,281
Wages and salaries of persons employed	19,751	1,337	2,763	23,851
Average number of persons employed (a)	No. 58,834	No. 4,322	No. 8,821	No. 71,977
Net output per person employed (a)	£ 502	£ 502	£ 520	£ 504
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	4,882	244	531	5,657
Materials and fuel	2,451	129	359	2,939
Number of establishments	No. 811	No. 82	No. 118	No. 1,011

(a) Excluding outworkers.

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

	England	Wales	Scotland	Great Britain
Output of firms in this trade	£'000	£'000	£'000	£'000
Total value of sales (see Table 23)	46,863	3,473	7,590	57,925
Adjustment for changes in stocks and work in progress	+ 1,237	+ 63	+ 51	+ 1,351
Less payment for transport by other firms	48,100	3,536	7,640	59,277
Gross output (production)	3,409	228	585	4,222
Gross output (production)	44,691	3,308	7,056	55,054
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	15,187	1,126	2,540	18,853
Adjustment for changes in stocks	- 114	+ 5	- 77	- 186
Materials and fuel used	15,073	1,131	2,463	18,668

Summary
Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	211	8	15	234
Average number of persons employed (a)				
Males	1,183	18	77	1,278
Females	43	2	5	50
Total	1,226	20	82	1,328

(a) Including working proprietors.

Sales in the trade
Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products	Millions	£'000	Millions	£'000	Millions	£'000
Bricks, building						
Glazed or enamelled bricks	..	(a)	..	(a)	3.3	154
Sand-lime bricks	76.5	340	5.5	33	82.0	373
Of brick-earth, clay or shale						
Fletton type, common or facing	1,579.4	6,871	81.8	380	1,661.2	7,251
Non-Fletton type						
Common	1,575.0	7,764	274.0	1,271	1,849.1	9,034
Engineering	141.1	1,242	7.4	49	148.5	1,291
All other building bricks, including non-Fletton type facing bricks of brick-earth, clay or shale and bricks of diatomaceous earth	530.1	4,115	69.4	365	599.4	4,480
	..	42	..	112	..	154
Total building bricks		(a)		(a)	4,343.5	22,583
					..	154
Hollow clay and terra-cotta flooring and wall partition blocks	..	(a)	..	(a)	Th. tons	501
					128.9	
Roofing tiles of clay	Millions	Th. tons			Millions	Th. tons
Single lap	15.8	48.3	410		15.8	48.3
	5.8	..	73		5.8	..
Ridges, hips, valleys, etc.	8.0	20.9	277		8.0	20.9
	1.2	..	43		1.2	..
Other, except plain	0.5	1.1	18		0.5	1.1
Bacteria bed tiles	..	3.1	26		..	3.1
Other sorts of tiles (except street paving tiles of materials other than clay) including plain roofing tiles of clay, ordinary pressed flooring quarries of clay and other materials, and street paving tiles of clay	..	..	(a)	..	322.2	338.9
					61.8	..
					..	2.6
Total tiles			(a)	(a)	..	415.0
					..	657
Flower pots, unglazed	..	(a)	..	(a)	14.3	243
					..	64
Chimney pots; and agricultural drainpipes of clay, unglazed	89.9	535	21.3	137	111.2	672
	..	133	..	6	..	144

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Sanitary ware (excluding sanitary earthenware)						
Drainpipes, angles, bends, elbows and traps of materials other than clay, stoneware or fireclay, salt-glazed (except pre-cast concrete)	-	-	0.1	2	0.1	2
	Thous.	Th. tons	Thous.	Th. tons	Thous.	Th. tons
W.C. Pans of fireclay, glazed or enamelled	1 ..	- 3.8	1 ..	0.1	13 ..	1 3.9
Unclassified sanitary ware of fireclay glazed or enamelled, other than drainpipes, angles, bends, elbows and traps	Th. tons		Th. tons		Th. tons	
	..	(a)	..	(a)	14.4 ..	726 426
Other descriptions (except slate urinals), including drainpipes, angles, bends, elbows and traps of clay, stoneware or fireclay, salt-glazed, and other sanitary ware of fireclay, glazed or enamelled, including lavatory basins, sinks and urinals	379.2	6,275	62.3	857	441.5	7,132
Pipes and tubes of stoneware or fireclay for electrical and other purposes, not sanitary ware	76.4	888	-	-	76.4	888
Fireclay						
Ground	170.7	428	94.9	190	265.7	618
Unground	37.6	80	49.2	68	86.7	128
Silica stone						
Ground	74.4	285	13.0	18	87.4	304
Unground	..	(a)	..	(a)	7.7	5
Firebricks up to and including bricks of 9 in. x 4½ in. x 3 in.	482.2	2,299	334.5	1,779	816.7	4,077
Firebricks or lumps, including tiles and bricks exceeding 9 in. x 4½ in. x 3 in.	205.5	2,267	75.9	864	281.4	3,130
Silica bricks up to and including bricks of 9 in. x 4½ in. x 3 in.	..	(a)	..	(a)	168.5	1,360
Silica bricks or lumps, including tiles and bricks exceeding 9 in. x 4½ in. x 3 in.	..	(a)	..	(a)	115.9	1,366
Magnesite bricks	..	(a)	..	(a)	23.0	628
Siliceous bricks and shapes (75-92 per cent. silica)	34.7	270	-	-	34.7	270
Insulating bricks for furnace construction	..	(a)	..	(a)	20.7	539

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TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Chrome bricks	..	(a)	..	(a)	5.8	109
Dolomite bricks	9.3	186	-	-	9.3	186
Bauxite and other bricks, shapes and tiles containing over 50 per cent. alumina	..	(a)	..	(a)	8.6	276
Sillimanite bricks	..	(a)	..	(a)	5.2	193
Other refractory bricks	..	(a)	..	(a)	59.5	1,252
Total refractory bricks		(a)		(a)		13,386
Retorts, fireclay; and graphite, ground, flaked, etc.	..	(a)	..	(a)	.. Th. feet 32.3 ..	141 50 7
Retorts, silica	..	(a)	..	(a)		
Refractory goods not elsewhere specified, including refractory cement and plumbago and other crucibles	..	4,039	..	149	..	4,188
Architectural terra-cotta and faience, glazed and unglazed, excluding charges for fixing	..	(a)	..	(a)	..	78
Bath bricks, hearth stones and the like	..	(a)	..	(a)	1.5 ..	21 29
Clays, etc., sold (other than fireclay and silica stone)	90.0 ..	152 111	44.8	55	134.7 ..	207 111
Waste products	..	90	..	6	..	96
Work done for the trade, including fixing architectural terra-cotta and faience		(a)		(a)		100(b)
Total principal products.		(a)		(a)		57,346
Other output	Th. sq. yds.				Th. sq. yds.	
Glazed tiles (including tiles for tessellated pavements)	75.3 Th. cwts. 31.0	80	-	-	75.3 Th. cwts. 31.0	80
Slabbed work and other tile and mosaic work	..	(a)	..	(a)	..	170
Stoneware, brown and yellow ware	10.8	45	-	-	10.8	45
Red pottery and terra-cotta ware, glazed and unglazed (other than architectural, chimney pots and unglazed flower pots)	59.0 .. Th. tons	45 36	-	-	59.0 .. Th. tons	45 36
Pre-cast concrete goods	16.5	99	-	-	16.5	99
Porcelain, earthenware or stoneware for industrial purposes (including electrical ware)	9.9	36	-	-	9.9	36
Other goods	..	68	..	2	..	69
Total		50,335		7,590		57,925

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

(b) Amount charged.

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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
Brick-earth, clay or shale	1,429.2	387	1,181.8	154	2,611.0	541
Fireclay	972.5	1,171	195.7	219	1,168.3	1,390
Silica stone	..	(a)	..	(a)	370.3	446
Magnesite	..	(a)	..	(a)	40.5	624
Chrome	..	(a)	..	(a)	60.8	561
Dolomite	97.1	47	-	-	97.1	47
	..	52			..	52
Bauxite	..	(a)	..	(a)	2.3	25
Sillimanite, kyanite and andalusite	..	(a)	..	(a)	10.8	128
Glaze or materials for glaze	5.4	76	3.2	26	8.5	102
	..	64	..	3	..	67
All other purchased materials	..	4,373	..	551	..	4,924
Fuel and electricity						
Coal	2,754.1	6,966	351.6	887	3,105.7	7,854
Coke	92.2	321	7.9	22	100.0	343
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	167,350	793	35,002	159	202,352	953
From other sources	13,241	58	2,030	10	15,271	67
Electricity obtained from other works under the same ownership	10,649	41	4,916	22	15,565	63
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	2,793	248	74	7	2,867	255
Used for other power purposes	1,288	87	131	10	1,418	96
Other oil fuel (including creosote/pitch mixtures)	2,993	124	596	28	3,589	152
	..	21	..	..	..	21
Gas purchased	Th. therms		Th. therms		Th. therms	
	2,684	62	301	7	2,985	69
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	..	72	..	3	..	75
Total		16,313		2,540		18,853

(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 315,240,000 B.T. units, including 82,053,000 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	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	3,227	195	3,422	586	19	605	3,813	214	4,027
All ages	53,379	4,793	58,172	7,069	588	7,657	60,448	5,381	65,829
Females									
Under 18	312	258	570	115	42	157	427	300	727
All ages	3,507	1,424	4,931	972	188	1,160	4,479	1,612	6,091
Total									
Under 18	3,539	453	3,992	701	61	762	4,240	514	4,754
All ages	58,886	6,217 (b)	65,103 (b) (c)	8,041	776 (b)	8,817 (b) (c)	64,927	6,993 (b)	71,920 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	12,257	2,831	21,088	2,418	345	2,763	20,674	3,176	23,851

(a) Number at September 25, 1948.
 (b) There were, in addition, 57 working proprietors (54 males and 3 females) in Great Britain; 50 males and 3 females in England and Wales, and 4 males in Scotland.
 (c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £600,000; £529,000 for England and Wales, and £72,000 for Scotland.

In addition to the employees in the above table the firms in this trade employed outworkers whose numbers and remuneration are set out below.

	Average number of outworkers employed			Total amount paid to outworkers
	Males	Females	Total	
				£'000
England and Wales	5	1	6	1
Scotland	-	-	-	-
Great Britain	5	1	6	1

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	100.8	95.1	100.0	August	100.5	102.8	100.8
February	100.9	96.9	100.3	September	100.5	102.6	100.8
March	98.8	98.5	98.8	October	100.0	102.1	100.3
April	99.1	100.1	99.2	November	100.4	101.1	100.5
May	99.5	100.1	99.6	December	99.9	100.4	100.0
June	99.8	100.4	99.9	Percentage employment in this trade covered by the index	59.9	72.7	61.5
July	99.7	99.8	99.7				

(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.

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