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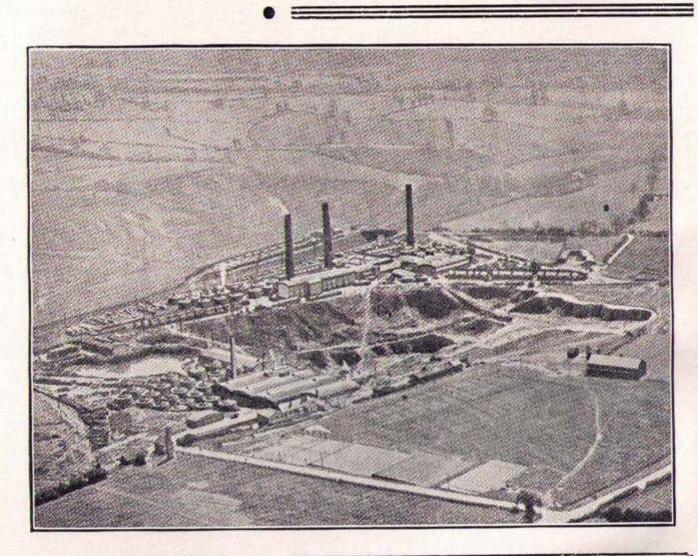
STONEWARE LE

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STONEWARE PIPES
AND • BLUE BRICKS





Aerial view of Works



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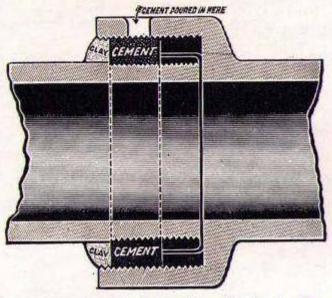
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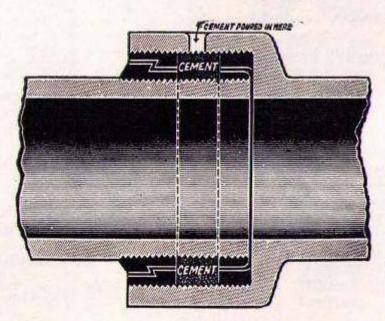
HASSALL'S SINGLE-LINED JOINT

with deep socket



Pour holes are provided in the Socket, through which grouted cement is poured.

HASSALL'S DOUBLE-LINED JOINT



A treble seal is obtained with this joint.
TESTED PIPES CAN BE SUPPLIED TO ORDER.

BRITISH STANDARD 65: 1963

GLAZED VITRIFIED CLAY DRAIN AND SEWER PIPES

FOREWORD

This British Standard supersedes but incorporates the former British Standard specification for salt glazed ware pipes last revised in 1952. A new specification has been rendered necessary by changes in the techniques of drainage design, and the development of new methods of glazing and manufacture.

With a completely new title and many alterations to the requirements, the specification is designed, along with related specifications, not only to bring clay drainage goods into line with the needs of modern practice, but also to bring into prominence qualities hitherto accepted without precise definition. The greatest change is to be found in the introduction of defined safe crushing test strengths for design purposes.

The scope clause has been widened to include pipes with or without sockets in order to permit the introduction of new types of joint and jointing materials

into the industry without hindrance.

NOTE 1. Metric equivalents are given in Appendix D. The figures in British units are to be regarded as the standard. The metric conversions are approximate. More accurate conversions should be based on the tables in B.S.350, 'Conversion factors and tables'.

SPECIFICATION

Scope

1. This British Standard specifies the requirements for the following glazed vitrified clay pipes and fittings with or without sockets.

Pipes. Straight pipes.

Fittings. Taper pipes, concentric and level invert (eccentric)

Bends

Taper bends

Junctions

Channels, straight and taper, half-section

Channel bends, half-section

Channel junctions, half-section.

Description and Marking

2. Every article manufactured and supplied in accordance with this specification shall be described as 'British Standard' and shall be marked:

(i) With the name or trade mark of the manufacturer legibly impressed

upon it before firing.

(ii) With the licence number of the manufacturer and the British

Standard Number, B.S. 65/1963.

(iii) With the certification mark of the Institution as shown below, which mark shall have been indelibly stencilled or stamped in black thereon before despatch.

In addition to the above marking every article complying with the higher crushing strength requirements of Clause 10 shall be marked with the word EXTRA. If, at the request of the purchaser, any article shall have been hydraulically tested in accordance with Clause 12 the word TESTED shall be stencilled or stamped thereon.

NOTE. The mark B.S. 65/1963 on the product is a claim by the manufacturer that it complies with the requirements of the standard.

The British Standards Institution is the owner of the registered certification trade mark shown below. This mark can be used only by manufacturers licensed under the certification mark scheme operated by the B.S.I. The presence of this mark on a product is an assurance that the goods have been produced to comply with the requirements of the British Standard under a system of supervision, control and testing operated during manufacture and including periodical inspections at the manufacturer's works in accordance with the certification mark scheme of the B.S.I.

Further particulars of the terms of licence may be obtained from the Director, British Standards Institution, 2 Park Street, London, W.1.



Materials and Manufacture

- 3. The clay and glaze used in the manufacture of British Standard glazed vitrifired clay pipes and fittings shall be such that when shaped, glazed and fired the product shall have the following characteristics:
 - (i) Adequate structural strength—Clauses 10 and 12.
 - (ii) High resistance to chemical attack—Clause 13.
 - (iii) Permanently low water absorption-Clause 11.
 - (iv) A uniformly smooth glazed inner surface-Clause 4.
 - (v) High resistance to abrasion.

General Quality and Glazing

4. All pipes and fittings shall be sound and free from visible defects such as would impair their efficiency, and shall give a sharp clear note when tapped with a light weight hammer.

The interior surface of the pipes and fittings shall be glazed. Glaze shall not be required on the outside surface of the barrel, nor on the inside or outside of the socket, but if present, it shall not effect compliance with this standard.

The glaze shall be either:

a. salt glaze, obtained by the action of common salt, compounds of sodium, borax, boric acid or a combination of these during the firing process or b. ceramic glaze consisting of suitable glazing material applied prior to firing.

8

Dimensions and Tolerances

5. a. Barrels. (See Table 1.)

- (i) The internal diameter of the barrel of a pipe or fitting shall deviate nowhere from the nominal internal diameter given in Column 1 by more than the tolerance given in Column 2.
- (ii) The mean thickness of the barrel shall be not less than the mean thickness shown in Column 3, such mean thickness of any individual barrel being ascertained by adding the measured least thickness (not in a groove) to the greatest thickness and dividing the sum by two.
- (iii) The difference between the measured least thickness and the greatest mentioned above shall not exceed the amounts given in Column 4.

TABLE 1. DIMENSIONS AND TOLERANCES OF BARRELS

Nominal internal diameter	Tolerance in diameter (see Subclause 5a (i) above)	Minimum mean thickness (see Subclause 5a(ii) above). (A) in Fig. 1	Permissible variation in thickness (see Subclause 5a(iii) above)
in	in	in	in
3	1/8	% 6	1/16
4	1/8	1/2	1/16
5	3/16	%16	1/16
6	₹6	5/8	1/16
7	3/16	11/16	1/16
8	1/4	11/16	1/16
9	1/4	3/4	1/16
10	5/16	13/16	1/16
12	5/16	1	1/16
15	3/8	11/4	3/32
18	3/8	1½	3/32
21	1/2	15%	1/8
24	1/2	1¾	1/8
27	3/4	1%	1/8
30	1	2	1/8
36	1	2½	1/8

The spigots of pipes and fittings having grooved or roughened sockets may be grooved circumferentially or roughened and the depth of such grooves or roughening not to be protected by a socket shall be not more than 1/16 in.

- b. Sockets. Sockets when present shall be one of two types, either:
- Type 1. For use with manufacturers' special or flexible joints; or
- Type 2. Grooved or roughened, for use with customers' selected jointing materials.

NOTE. Spigots and sockets of Type 1 not having other jointing materials attached may be used with customers' selected jointing materials.

- Type 1. The design of sockets of Type 1 and the tolerances for both spigot and socket dimensions depend on the joint selected. The test pressure and the angular and axial straight movements which the joint will tolerate under that pressure without loss of watertightness, shall be stated by the manufacturer. The requirements for the thickness of the socket are the same as those for the barrel except for special provisions required for the joint.
- Type 2. The interior of the sockets of Type 2 (see Fig. 1) shall be conical having a minimum taper of 1/16 in. measured on the diameter, per inch of length (i.e. 1 in 32), thus the diameter of a socket 2 inches deep will be at least $\frac{1}{8}$ inch greater at the top than at the bottom. The depth of such sockets shall be in accordance with Table 2. The width of the shoulder (C) of such a socket of any individual pipe or fitting shall exceed the mean thickness of the barrel (A) by not less than the figures given in Column 3 of Table 2. Such socket may be grooved circumferentially or roughened inside and the depth of such grooves or roughening shall be not more than 25 per cent of the minimum specified mean wall thickness of the barrel, subject to a maximum depth of $\frac{1}{4}$ in. The requirements for the thickness of the socket are the same as those for the barrel.

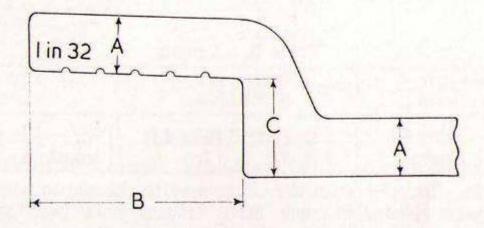


Fig. 1. Section of socket, Type 2

Table 2. Dimensions of Sockets (Type 2) (See Fig. 1)

Nominal internal diameter	Minimum internal depth of socket	Minimum excess shoulder measurement
	(B)	(C-A)
in.	in.	in.
3	2	16
4	2	38
5	$2\frac{1}{4}$	$\frac{7}{16}$
6	21/4	$\frac{7}{16}$
7	21	716
8	$2\frac{1}{2}$	$\frac{1}{2}$
9	$2\frac{1}{2}$	$\frac{1}{2}$
10	$egin{array}{c} 2rac{1}{4} \ 2rac{1}{2} \ 2rac{1}{2} \ 2rac{3}{4} \end{array}$	58
12	$2\frac{3}{4}$	58
15	3	58
18	3	58
21	$3\frac{1}{4}$	34
24	$3\frac{1}{2}$	34
27	$3\frac{1}{2}$	5 16 3 8 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7
30	$3\frac{7}{2}$	34
36	$3\frac{1}{2}$	1

Length of Straight Pipes and Channels

6. The lengths of straight pipes and half-section channels, exclusive of the internal depth of the socket shall normally be as specified in Table 3.

Table 3. Length

Internal diameter of pipe or channel	Length excluding depth of socket	Permissible variation $ + /- \frac{1}{8} $ in per ft of length in all cases	
Up to and including 8 in 9 in to 36 in inclusive	2 ft, 2½ ft, 3 ft, or 4 ft 3 ft, 4 ft, or 5 ft		

Pipes of lengths other than the above may be deemed to comply with this specification provided that such other lengths have been agreed by the purchaser.

Permissible Deviation from Straightness

7. The permissible deviation from straightness of the barrel of a pipe shall be 1/16 in. per 6 in. of length, less 1/16 in.

Dimensions of Fittings

8. The requirements for the thickness of fittings shall be the same as those for the pipes with which they will be used.

The dimensions of fittings given in Figs. 3-16 and the related tables shall be regarded as indicative only and accurate compliance is not required.

The figures show sockets of Type 2 only. The form of Type 1 sockets depends on the type of joint.

Taper pipes and half-section taper channels may be ordered in any normal combination of diameters, including reverse tapers. The other dimensions shall be within the limits given in Tables 1, 2 and 3.

Definitions of Right and Left Hand Channel Fittings

9. A right hand channel fitting is such that when viewed against the direction of flow the arm of a junction, or the socket of a bend etc., projects to the right (Fig. 2). A left hand channel fitting is such that when viewed as above, the arm or socket projects to the left.

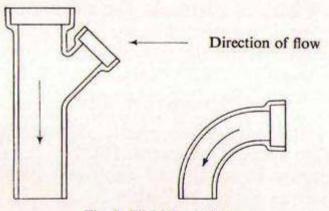


Fig. 2. Right hand fittings

Fig. 2. Right hand fittings

Crushing Strength

10. Safe crushing test strength. When tested along the full length of the pipe barrel from shoulder to spigot in accordance with Appendix A, the pipe tested shall withstand the intensity of loading appropriate to its size and class specified in Table 4, and this strength shall be called the safe crushing test strength.

Table 4. Safe Crushing Test Strength

Nominal internal	Pounds per foot of effective length	
diameter	Standard strength	Extra strength
in 4 6 9 12	1350 1350 1350 1450	1500 1500 1850 2250
Other sizes	to be ascertained by pu	rchaser from suppli

If the purchaser so requires, pipes at the rate of 10 per 1000 shall be selected at random from every batch of 1000 or less and submitted to this test in his presence. Should no failures occur the batch shall be deemed to comply with these requirements. Should one pipe fail, the same number of specimens shall be selected at random from the same batch and submitted to this test. Should no more failures occur the batch shall be deemed to comply with these requirements. Should more than one pipe fail out of the total number of specimens tested the batch offered shall be deemed not to comply with the requirements of the relevant class.

Ultimate strength. Sufficient ultimate strength tests shall be made by the manufacturer to enable him to maintain the ultimate strength of his pipes and records shall be kept for inspection but such tests need not be carried out on complete pipes. Additional ultimate strength tests may be made at the request and cost of the purchaser.

Absorption Tests

11. One absorption test in accordance with Appendix B shall be made at the manufacturers' works in respect of every 1000 pipes or fittings supplied.

The percentage increase in weight of each test piece by absorption of water

shall not exceed the values given in Table 5.

Additional absorption tests may be made at the request and cost of the purchaser.

Table 5. Maximum Permissible Increase in Weight

Thickness of pipe or fitting	Per cent of dry weight
Up to $\frac{3}{4}$ in Over $\frac{3}{4}$ in and up to 1 in	6
Over $\frac{3}{4}$ in and up to 1 in	7
Over 1 in and up to 1½ in	8
Over 1½ in and up to 1½ in	9
Over 1½ in	10

Hydraulic Proof Test

12. When subjected to a hydraulic test at the manufacturers' works, straight pipes shall withstand an internal hydraulic pressure on the barrels of 20 lb/sq in and fittings, except channel fittings, shall withstand a pressure of 10 lb/sq in without leakage. The pressure shall be applied at the rate not exceeding 10 lb/sq in in five seconds, and full pressure shall be maintained for at least five seconds. Care should be taken to ensure that all air is expelled before the test is commenced. This test shall be carried out at the request and cost of the purchaser.

Acid and Alkali Resistance Tests

13. When tested in accordance with Appendix C the loss in weight of any specimen after being immersed for 48 hours in a 1.0 normal solution of hydrochloric or nitric or sulphuric or acetic acid or of sodium hydroxide (caustic soda) shall not exceed 0.25 per cent of dry weight. Tests shall be carried out at the request and cost of the purchaser in any or all of the above solutions.

Inspection and Testing

14. The manufacturer on premises agreed by him, and at his own cost except where otherwise stated shall provide the necessary gauges, supply and prepare all test pieces, and supply all labour and apparatus for testing which may be necessary for carrying out the tests and requirements of this standard. If he so decides the purchaser or his representative(s) may be present at the carrying out of tests.

Compliance

15. Should any one of the test pieces taken from the samples first selected, fail to pass any of the additional tests specified in Clauses 11, 12 and 13; then for each such failure two further test samples from the same batch shall be selected at random. Should either of these two further samples fail to pass the particular test, the batch shall be deemed not to comply with this British Standard.

The costs of such additional tests shall be borne:

a. by the purchaser if results show that the articles comply with this British Standard,

b. by the manufacturer if the results show that the articles do not comply with this British Standard.

Table showing dead weight of Pipes with Measurements contd.

Dia. of Pipes.	No. of Lineal Feet.	Measurement.	Dead Weight.	Total Dead Weight Nested.
18 inch	9 lineal feet	40 cubic feet	864 lbs.	
15 inch	11 lineal feet	40 cubic feet	814 lbs.	
12 inch	18 lineal feet	40 cubic feet	819 lbs.	
10 inch	26 lineal feet	40 cubic feet	936 lbs.	
9 inch	29 lineal feet	40 cubic feet	798 lbs.	
8 inch	41 lineal feet	40 cubic feet	938 lbs.	938 lbs.
7 inch	54 lineal feet	40 cubic feet	1040 lbs.	1040 lbs.
6 inch	62 lineal feet	40 cubic feet	908 lbs.	908 lbs.
5 inch	88 lineal feet	40 cubic feet	1034 lbs.	1034 lbs.
4 inch	114 lineal feet	40 cubic feet	1026 lbs.	1026 lbs.
3 inch	176 lineal feet	40 cubic feet	1056 lbs.	1056 lbs.
2 inch	220 lineal feet	40 cubic feet	1760 lbs.	1760 lbs.
12 inch 9 inch 6 inch	17 lineal feet 17 lineal feet 17 lineal feet	40 cubic feet	774 lbs. 467 lbs. 249 lbs.) 1643 lbs.
4 inch	17 lineal feet		153 lbs.	
10 inch 6 inch 4 inch	26 lineal feet 26 lineal feet 26 lineal feet	40 cubic feet	936 lbs. 380 lbs. 234 lbs.	} 1550 lbs.
9 inch 7 inch 5 inch 3 inch	26 lineal feet 26 lineal feet 26 lineal feet 26 lineal feet	40 cubic feet	715 lbs. 501 lbs. 306 lbs. 156 lbs.	1678 lbs.
9 inch 6 inch 4 inch	27 lineal feet 27 lineal feet 27 lineal feet	40 cubic feet	{ 743 lbs. 395 lbs. 243 lbs.	} 1381 lbs.
9 inch 5 inch 3 inch	27 lineal feet 27 lineal feet 27 lineal feet	40 cubic feet	743 lbs. 317 lbs. 162 lbs.	} 1222 lbs.
9 inch 5 inch	28 lineal feet }	40 cubic feet	{ 770 lbs. 329 lbs.	} 1099 lbs

Table showing dead weight of Pipes with Measurements contd.

Dia. of Pipes.	No. of Lineal Feet.	Measurement.	Dead Weight.	Total Dead Weight Nested.
inch	28 lineal feet	A.W.	(770 lbs.	1
4 inch	28 lineal feet	40 cubic feet	252 lbs.	} 1022 lbs.
9 inch 3 inch	28 lineal feet 28 lineal feet	} 40 cubic feet	{ 770 lbs. 168 lbs.	} 938 lbs.
8 inch 6 inch 4 inch	37 lineal feet 37 lineal feet 37 lineal feet	} 40 cubic feet	{ 846 lbs. 542 lbs. 333 lbs.	} 1721 lbs.
8 inch 6 inch 3 inch	37 lineal feet 37 lineal feet 37 lineal feet	} 40 cubic feet	846 lbs. 542 lbs. 222 lbs.	} 1610 lbs.
8 inch 5 inch 3 inch	37 lineal feet 37 lineal feet 37 lineal feet	} 40 cubic feet	846 lbs. 435 lbs. 222 lbs.	} 1503 lbs.
8 inch 4 inch	41 lineal feet 41 lineal feet	} 40 cubic feet	938 lbs. 369 lbs.	} 1307 lbs.
8 inch 3 inch	41 lineal feet 41 lineal feet	} 40 cubic feet	938 lbs. 246 lbs.	} 1184 lbs.
7 inch 5 inch 3 inch	50 lineal feet 50 lineal feet 50 lineal feet	40 cubic feet	963 lbs. 587 lbs. 300 lbs.	} 1850 lbs.
7 inch 5 inch	51 lineal feet 51 lineal feet	} 40 cubic feet	982 lbs. 599 lbs.	} 1581 lbs.
7 inch 4 inch	53 lineal feet 53 lineal feet	} 40 cubic feet	{ 1021 lbs. 477 lbs.	} 1498 lbs.
7 inch 3 inch	53 lineal feet 53 lineal feet	} 40 cubic feet	{ 1021 lbs. 318 lbs.	} 1339 lbs.
6 inch 4 inch	61 lineal feet 61 lineal feet	} 40 cubic feet	893 lbs. 549 lbs.	} 1442 lbs.
6 inch 3 inch	61 lineal feet 61 lineal feet	} 40 cubic feet	893 lbs. 366 lbs.	} 1259 lbs.
5 inch 3 inch	87 lineal feet 87 lineal feet	} 40 cubic feet	1022 lbs. 522 lbs.	} 1544 lbs.

The above table gives the approximate number and also the dead weight of each size of Pipe that can be packed into 40 cubic feet (1 Ton measurement).

PACKING.—An allowance is made in the above calculation for a minimum amount of straw for packing. If extra is used, the measurements should be reduced accordingly

It will be appreciated by all concerned that there may be instances where a particular consignment might result in loss of room in the ship's hold, but such waste room can always be utilised for small items such as Gullies, Bends, etc., if a proportion of these can be ordered with each consignment, thereby transhipping these free of cost.



Glazed Stoneware Tested Pipes

These pipes are carefully selected, and each pipe is subjected to considerable internal hydraulic pressure.



As already explained on page 15, the testing of Stoneware pipes under pressure reveals the slightest flaw. Every tested pipe supplied is stencilled to indicate that it has satisfactorily stood the test.

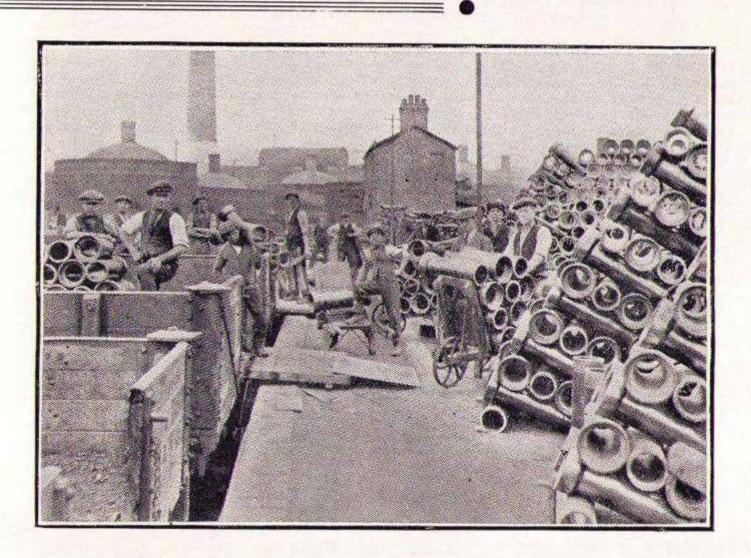
Tested pipes of Stoneware Ltd., Midland Stoneware are supplied and stencilled thus:



Special Joints can be supplied on tested pipes to instructions.

Quotations on application.





Loading for Rail Transport

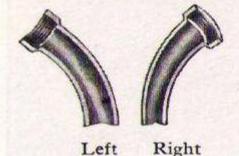


SALT-GLAZED SANITARY PIPES AND FITTINGS

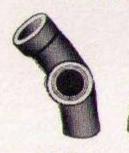
"HAND" OF CHANNEL GOODS, ETC.

In order to prevent confusion the Trade has decided that "Handed" Articles shall be judged by looking from the Spigot end towards the Socket. Thus if you place an article on the ground with the Spigot end nearest and the Socket end furthest from you the hand will be easily determined. In the case of Gullies and Traps with side inlets, the outlet should be placed nearest you and the back furthest away. Below are a number of illustrations for guidance.

CHANNEL BENDS OR CURVES



INSPECTION BENDS



Left



GULLIES



Left



Right

CHANNEL JUNCTIONS

ACCESS BENDS

INSPECTION JUNCTIONS

Access Junctions



Left Right



Left



Right



Left



Right



Left



Right





WEIGHTS OF PIPES

Size 2" 3" 4" 5" 6" 7" 8" 9" 10" 12" 15" 18" 210 125 87 71 51 45 34 28 23 16 10 8 yards to 1 ton

2 in, 3in, 4 in, 5 in, 6 in, 7 in, 8 in, 9 in, 10 in, 12 in, 15 in, 18 in.
Pipes 2 in. to 6 in. diam. supplied in 2 ft. and 3 ft. lengths.
Pipes 9 in. to 18 in. diam. supplied in 3 ft. lengths.

Other lengths supplied to order.

SHORT LENGTHS OF PIPES are supplied also in lengths of 6 in, 9 in. and 12 in. to avoid the necessity of cutting for house drains, etc.

Short Lengths are charged as 2 feet.

PERFORATED PIPES are supplied to order.

BUTT PIPES without Sockets are supplied as required

Quotations on application.

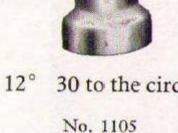


BENDS

No. 1102



30 to the circle





45°

No. 1108



Chubb Bend

No. 1103



15° 24 to the circle

No. 1106



8 to the circle 60° 6 to the circle $\frac{1}{4}$ Bend 4 to the circle

No. 1109



Knuckle Bend

No. 1104



30° 12 to the circle

No. 1107



No. 1110



Rest Bend



JUNCTIONS

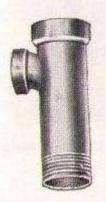
SINGLE JUNCTIONS

No. 1111

No. 1112

No. 1113

No. 1114









Junctions with 2" to 6" Diameter main are usually supplied in 2' lengths
7" to 12' Diameter in 2' 6" lengths.

Larger Diameters in 2', 2' 6" or 3' lengths.

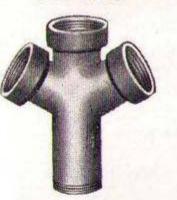
DOUBLE JUNCTIONS

No. 1115

No. 1116

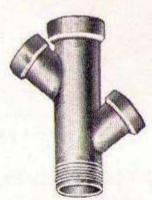
No. 1117

No. 1118

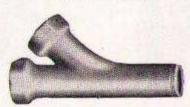








No. 1119



No. 1120



Short Junctions are charged at the same price as Junctions 2' long





No. 1121

No. 1122



TAPER PIPE



PERFORATED PIPE Supplied perforated over the whole or part of the surface.

No. 1123

No. 1124





OBLIQUE SADDLE SQUARE SADDLE JUNCTION PIECE JUNCTION PIECE For connecting Branch Drains with existing sewers

STOPPERS FOR JUNCTIONS No 1125 No 1126

No 1127

No 1128









Ordinary

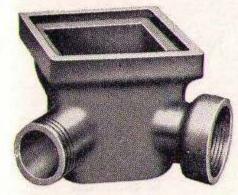
Stanford Jointed

Loose Collar

Double Socket (Also stocked in larger sizes)



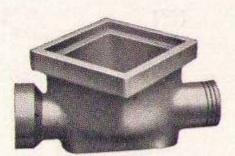
Access Pipes, Junctions and Bends



Armstrong Inspection Bend

No 1129

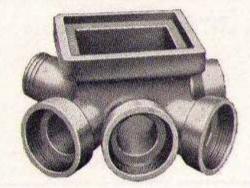
The access opening permits of the insertion of a testing plug.



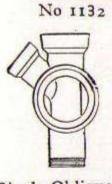
No 1130

Armstrong Inspection Pipe

No. 1131



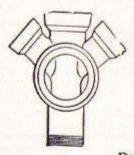
Armstrong Inspection **Junction**



Single Oblique left hand No 1136



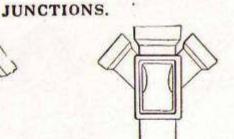
No 1133



No 1137



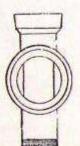
PIPES.



No 1134

Double Oblique.







No 1135

Single Oblique-right hand No 1139

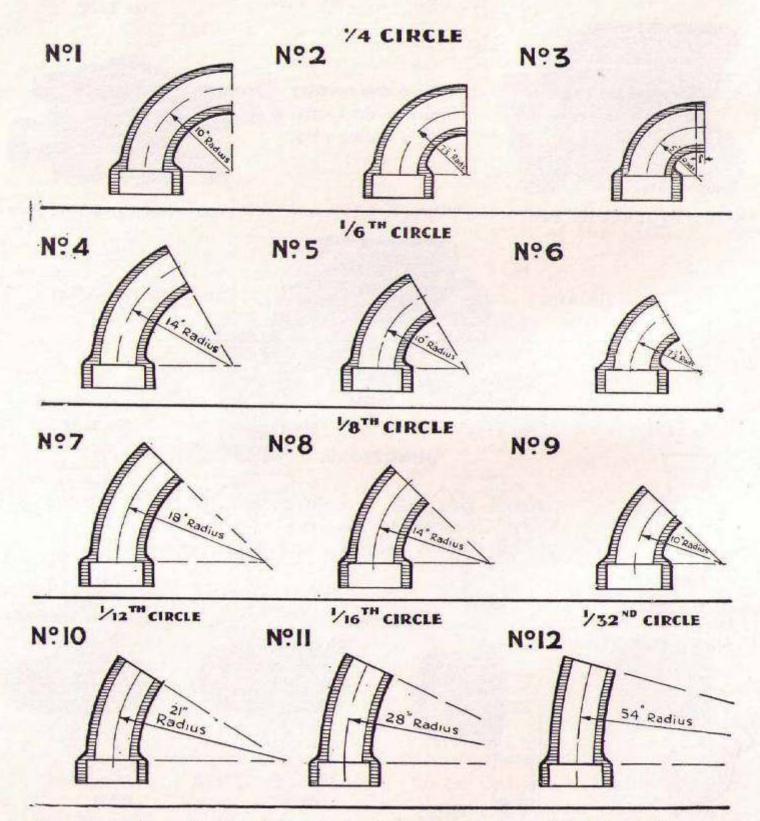


BEND-right hand.

Stoneware covers are supplied unless otherwise ordered. Bends are supplied one-quarter, one-eighth or one-sixteenth circle.



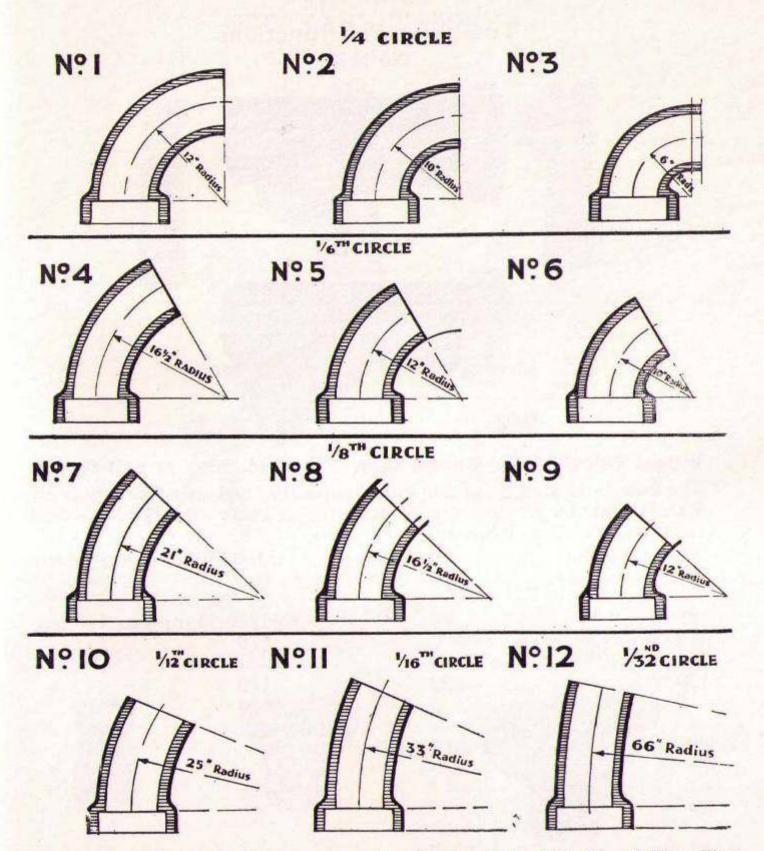
STONEWARE PIPE BENDS, 4"



All other details as British Standard Specification No. 65 for Salt Glazed Ware Pipes



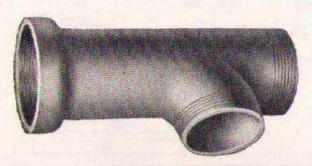
STONEWARE PIPE BENDS, 6"



All other details as British Standard Specification No. 65 for Salt Glazed Ware Pipes



Tumbling Bay Junctions No 1140



No 1141



Weight Calculator for Burned Clay.

(Red, Blue or Salt-Glazed)

... approximately 74 to ton

The rule is to find, first the cubic capacity, multiply the result by 5 and divide by 72 (omitting fractions). A brick $9 \times 4\frac{1}{2} \times 3$ would thus work out as follows:—

tnus	work out a	s follows:—		
$\frac{9}{4\frac{1}{2}} \times$	$4\frac{1}{2} \times 3$	$\frac{12}{6} \times$	6 × 6	or to ascertain number to ton
12-11-1				lbs.
40		72		30)2240(74 (approx.) to ton.
3		6		210
120		432		140
5	or	5		120
72)600(81	lbs.	72)2160(30	lbs.	
576		216		
24				

.. 30 lbs.

.. 81 lbs.



TAPERS ORDINARY TAPERS

No 1142 No 1143

No 1144







SHORT TAPERS

No 1145

No 1146





CONNECTORS

No 1147

No 1148

No 1149





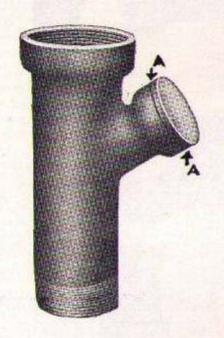




Junction-Caps for closing Socket of Junction Branches

JOINDER on JUNCTION BRANCH

Fig 1150





Sectional Elevation of same

This Joinder is made in one piece with the Socket of the Junction Branch. A cut at AA as shewn in the illustration, is made during manufacture, but leaving sufficient thickness to preserve strength. The outer disc can be easily removed by a chisel, leaving the interior of the socket clean and ready for making a connection.

No. 1150a—This Joinder is similar to above, but a loose stoneware cap is fitted over the socket and secured in position with a bitumen or cement joint.

These two types of Junction-Caps can be made to various sizes of sockets.

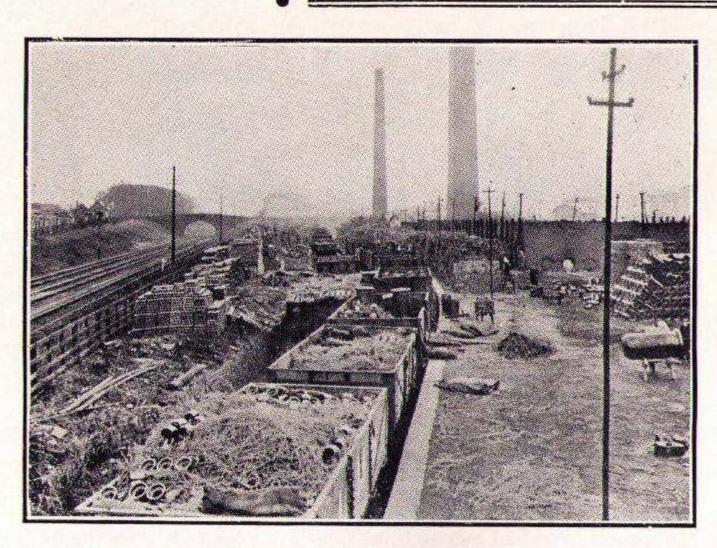


CHANNELS

in

Salt-Glazed Stoneware





'B' Loading Deck



CHANNEL SECTIONS IN SALT-GLAZED STONEWARE HALF-SECTION CHANNEL JUNCTIONS

Fig. 1200

Fig. 1201 Fig. 1202

Fig. 1203

Fig. 1204







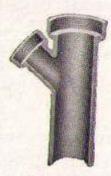




Fig. 1205

Fig. 1206

Fig. 1207

Fig. 1208









Fig. 1209

Fig. 1210

Fig. 1211

SHORT LENGTHS

Fig. 1212 Fig. 1213











Fig. 1214

Fig. 1215

Fig. 1216

Fig. 1217









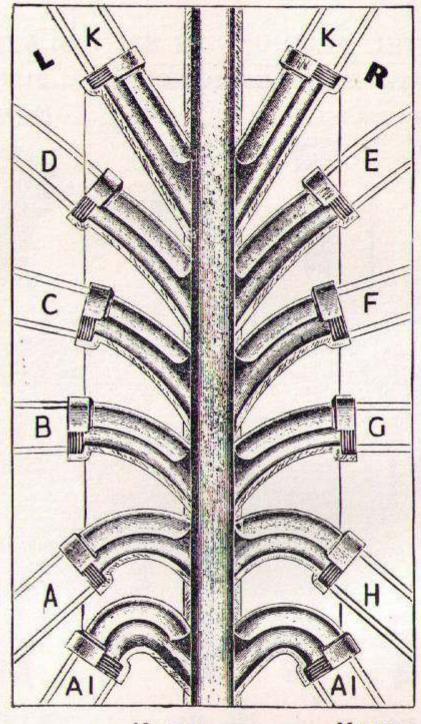


Half or Three-Quarter Channel Bends.

Channel Sections in Salt-Glazed Stoneware

"The reference letters shown against these items are from the HMOW List and are reprinted for reference as many lists are still in use.

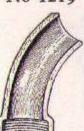
These reference letters have been replaced by the Ministry of Works list see page 62."



No 1218



No 1219



No 1220



For further details of Channel Bends see page 62



Channel Section Bends and Bends with Inlets in Salt-Glazed Stoneware.

Half-Section Channel Bends or Three-Quarter Section Channel Bends. (Barron Bends or Curl-over Bends)

Can be supplied with-

Ordinary Ends,
Splayed Ends,
Splayed and Seated Ends,
To form any desired Angle, left or right.

No 1221

No 1222

No 1223

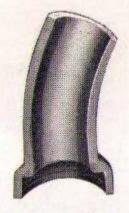


Illustration of Ordinary End



Illustration of Splayed End



Illustration of Splayed and Seated Ends

ACCESS BENDS

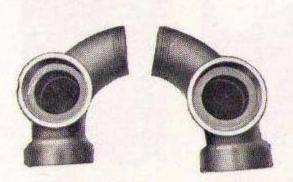
INSPECTION BENDS

No 1224

No 1225

No 1226

No 1227



One-Quarter Circle (900)



One-Eighth Circle (45°)





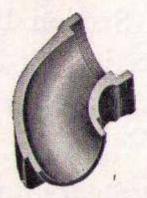
SHEFFIELD CHANNEL BLOCKS



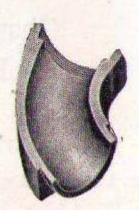
No. 1
4 inches by 6 inches
4 , 12 ,,
4 ,, 18 ,,
6 ,, 6 ,,
6 ,, 12 ,,
6 ... 18 ,,



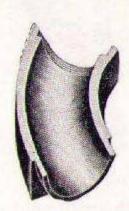
No. 2
Taper
6 inches long
12 " "
18 " "



No. 3
4 inches
6 "



No. 4 4 inches 6 ,,



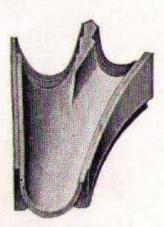
No 5
4 inches



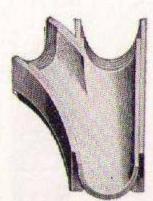
No. 6 4 inches 6 "



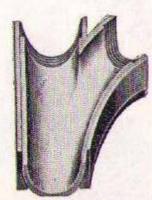
No. 7
4 ins. by 4 ins.
4 ,, 6 ,,
6 ,, 6 ,,



No. 8
4 ins. by 4 ins.
4 " 6 "
6 ", 6 "



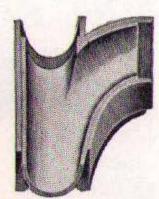
No. 9
4 inches by 4 inches
4 " 6 "
6 "
6 "



No. 10
4 inches by 4 inches
4 " 6 "
6 " 6 "



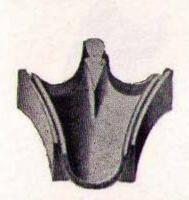
No. 11
4 inches by 4 inches
4 " 6 "
6 " 6 "



No. 12
4 inches by 4 inches
4 , 6 , 6 , 6



SHEFFIELD CHANNEL BLOCKS-continued



No. 13

4 ins. by 4 ins. by 4 ins. 4 ins. by 4 ins. by 4 ins.



No. 14



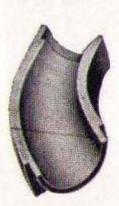
No. 15

4 ins. by 4 ins. by 4 ins



No. 16

4 ins. by 4 ins. by 4 ins.



No. 17

TAPER. 4 in. to 6 in.

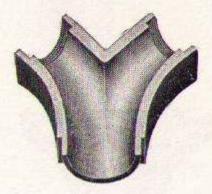


No. 18

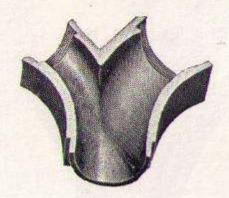
4 ins. by 4 ins. by 6 ins.



SHEFFIELD CHANNEL BLOCKS—continued



No. 19 4 ins by 6 ins



No. 20 4 ins by 6 ins



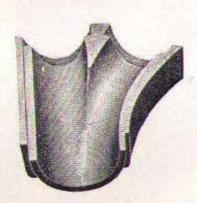
No. 21
TAPER
4 ins to 6 in



No. 22 4 ins by 4 ins by 6 ins



No. 23 4" by 4" by 6"



No. 24 4 ins by 4 ins by 6 ins



INTERCEPTORS GULLIES

ETC.



INTERCEPTORS

No 1250 Brighton Interceptor



4", 6", 9" and 12" diameter Also supplied in 4" to 6" Larger diameters to order.

Unless otherwise ordered, these Interceptors are supplied with Stanford Stoppers.

No 1251 SQUARE-END INTERCEPTOR

One of the most popular patterns of Intercepting Traps for disconnecting House Drains from Main Sewers.

4", 6", 9" and 12" diameter.

No 1252



4", 6", 9" and 12" Diameter.



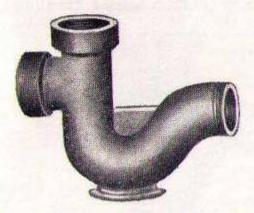
No 1253 DEEP SEAL INTERCEPTOR





Glazed Stoneware Sewer-Gas Interceptors

No 1254 CROYDON TRAP No 1255 KENON





Unless otherwise ordered, these Traps are supplied with Stanford Stoppers, but they can also be supplied with Stanford Screw Stoppers, Lever Locking Stoppers or galvanised sealing plates.

No 1256 WINSER



NO 1257 WEAVER TRAP



No 1258 BUCHAN TRAP





Glazed Stoneware Sewer-Gas Interceptors cont. & Syphon Traps

No 1259 Lever Stopper only supplied to order

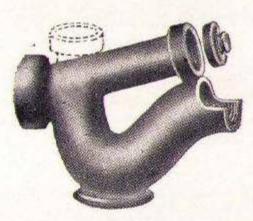
D.A.D. TRAP (Dublin Artisan Dwelling)



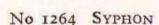
No 1261 Reverse Action Interceptor



No 1262 WHOLE-END INTERCEPTOR



No 1263 P TRAP





No 1265 S TRAP





P Trap, 2", 3", 4" & 6" diam.

4", 6", 9" & 12" diam.

S Trap, 2", 3", 4" & 6" diam.

Larger sizes made to order

Additional inlets if required



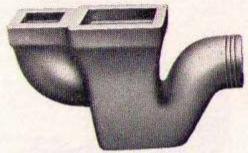
YARD GULLIES WITH INLETS



No 1266 INSPECTION

GULLY

No 1267

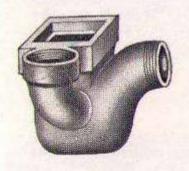


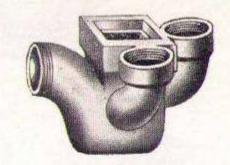
No 1268 Left Rain-water Inlets

No 1269

Back & Left Rain-water Inlets

Back & Right Rain-water Inlets





No 1271



Three Rain-water Inlets

ANGLE-ARM GULLIES

No 1272

No 1273

ANGLE-ARM GULLIES No 1275 No 1274



Right Inlet



Two Inlets



Left Rain-water Inlet



2 Rain-water Inlets

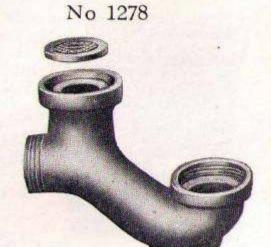


Reversible Gullies in Salt-Glazed Stoneware

No 1277



With
Inspection
Eye, Sealing
Plate and
Frame



No 1279



No 1280



No 1281



No 1282



No 1283



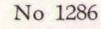
No 1284





Reversible Gullies in Salt-Glazed Stoneware

No 1285





Traps may also have Q or S Outlets



No 1287

No 1288





These Hoppers are supplied in 6" and 9" diameter, 9" high, Outlet 4" diameter

No 1289

No 1290

No 1291







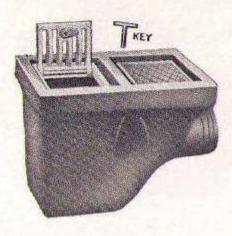


Inspection and Yard Gullies in Salt-Glazed Stoneware cont.

These gullies are provided with inspection eye to facilitate inspection and clearing of drain

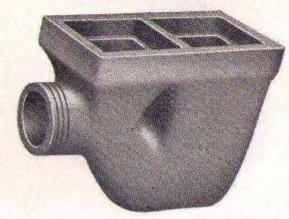
No 1292

No 1293

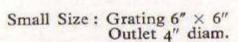


With Galvanised Iron Sealing-Plate and Frame to Inspection Eve

Ordinary loose grating supplied if preferred



GULLY, with Rodding Eye



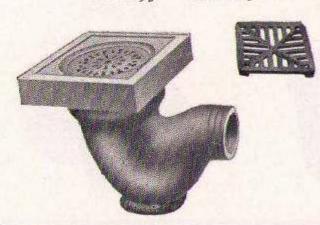
Large Size: Grating 9" × 9" Outlet 4" diam.



No 1294

Illustrations of Gully Inlets and Sealing Plate and Frame appear on later pages

Ordinary No 1296 No 1295



These Gullies have Inspection Eyes fitted with air-tight Stanford Stoppers

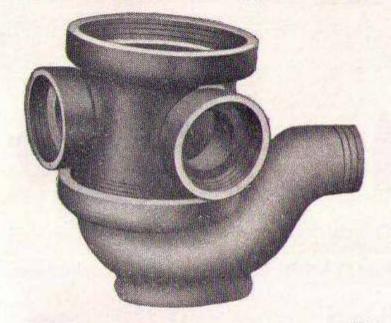
> Q or S Outlets also supplied





Reversible Gullies and Traps, Rain-water Shoes and Raising Pieces in Salt-Glazed Stoneware

No. 1338 Traps are also supplied with S outlet



No 1339





4", 6", 9" and 12" diameter

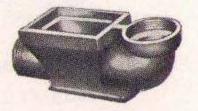
4", 6", 9" and 12" diameter 6", 9" and 12" high

No 1341



No 1342

No 1343



No 1344

No 1345





For further details and Sections of Rain-water Shoes see page 62

(3)

STONEWARE LIMITED

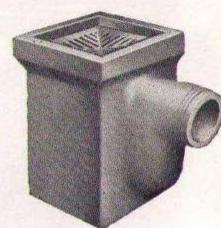
Yard Gullies (continued), and Sink Bends in Salt-Glazed Stoneware

No 1306



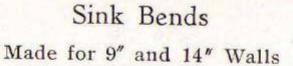






With Galvanised Wrought-Iron Bucket for removing Grease and Silt Grating 9" × 9", Depth 15", Outlet 4"

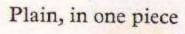




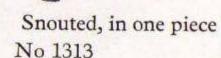


No 1310

No 1309 2" and 3" diam.

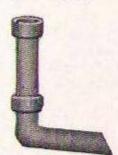


No 1312





No 1311





Straight Pipes in 15", 18" and 24"



Gully Raising Pieces, Anti-Flood Gully, Interceptor, etc.
No. 1315 Anti-Flood Gully
No 1316 Anti-Flood Interceptor

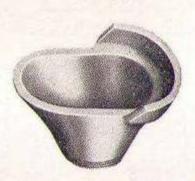


(See Section of this on page 351)

DRAIN CHUTES

No 1317

No 131





(See Section of this on page 50)

SEALING PLATE AND FRAME

in Galvanised Iron for Grease Seal

For Sockets of 3" 4" and 6" pipes

RAISING PIECES

No 1319



No 1320



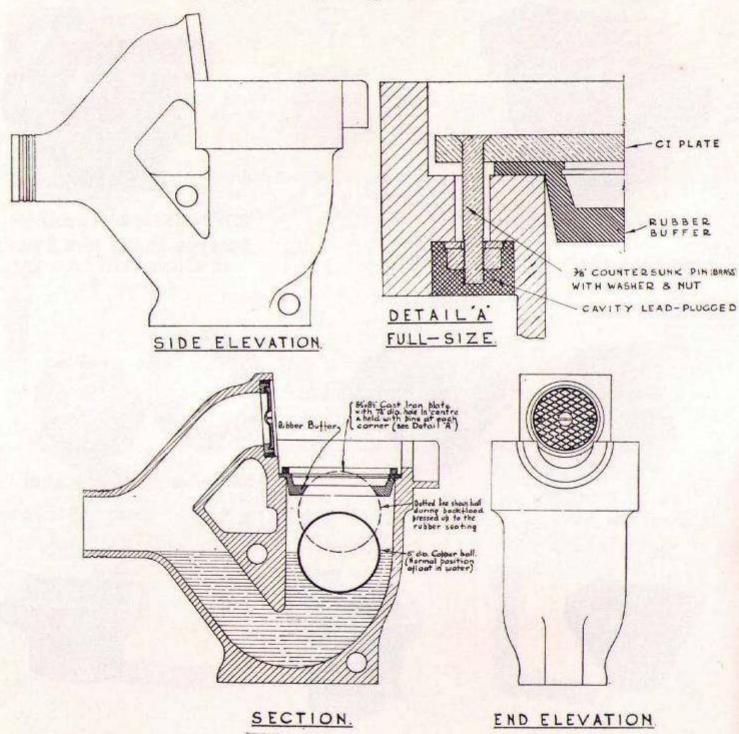
No 1321





DEAN'S PATTERN BALL-VALVE INTERCEPTOR

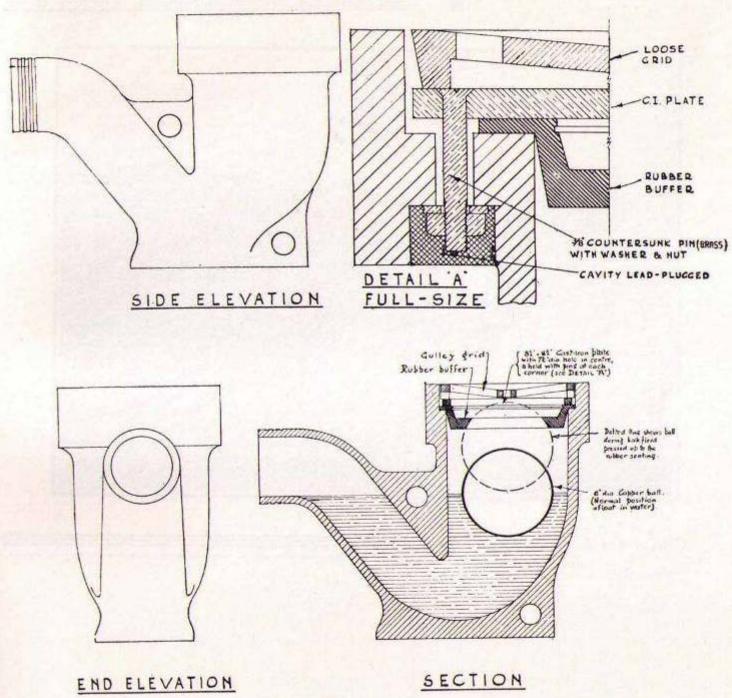
Copyright Design Registered No. 812248



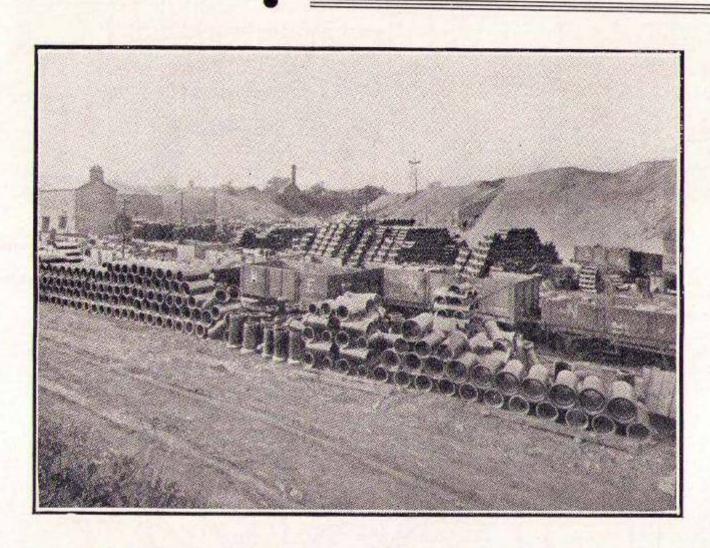


DEAN'S PATTERN BALL-VALVE GULLY

Copyright Design Registered No. 812247







One of the Loading Decks for Transport





YARD GULLIES GREASE TRAPS ETC.



YARD GULLIES

No 1350

No 1351

No 1352

No 1353



Q Arm P Arm Any of the above GULLIES can be supplied WITH INLETS as follows:-

S Arm

Angle Arm Gully

No 1355

No 1354



No 1356



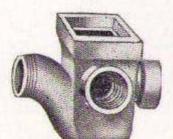


Left Inlet

Right Inlet

No 1357

Back & Left Inlets



No 1358

Back & Right Inlets

No 1359

Two Side Inlets

No 1360

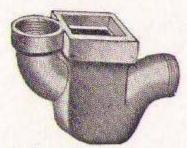


No 1361

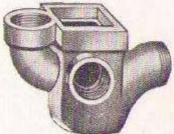


No 1362

No 1363



Back Rain-water Inlet



Back Rain-water Inlet Left Side Inlet



Back Rain-water Inlet Right Side Inlet



Waste-receivers for Disconnecting Rainwater and Waste Pipes and Intercepting Gullies in Salt-Glazed Stoneware

No 1364

This receiver is designed for the disconnection of waste pipes which therefore prevents the entrance of foul air.

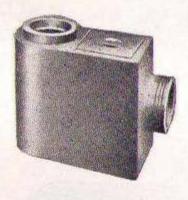
The cast-iron grating intercepts leaves and the outlet grating stops solids.

DEAN'S grease & mud intercepting traps can be supplied in connection with the waste receivers.

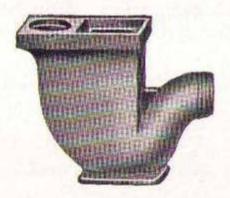
S, P or Q Traps are also supplied.

No 1365 Rust Interceptor

No 1366 Improved Rain-water Trap



Supplied with Grating or Sealing-plate



No 1368







Dean's Grease and Mud Interceptors in Salt-Glazed Stoneware

No 1369



With galvanised Wrought-Iron Bucket for removing Grease and Silt. Supplied in 6", 9" and 12"

No 1370
Garage Gully

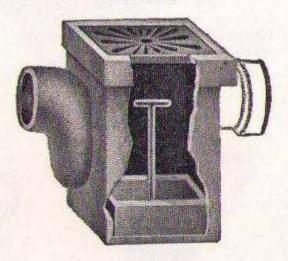


Complete with Galvanised Perforated Bucket

Supplied in 9" and 12"

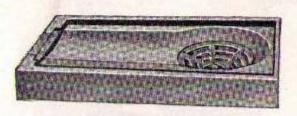
With Galvanised Wrought-Iron Bucket for removing Grease and Silt.

No 1371





CLOCKFACE No 1372

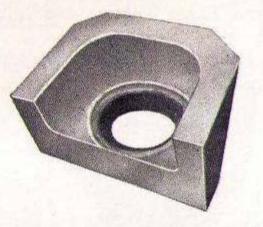


 $18'' \times 12'' \times 3''$ $24'' \times 12'' \times 3''$ $18'' \times 12' \times 4''$ $24'' \times 12'' \times 4''$ $18'' \times 12'' \times 5''$ $24'' \times 12'' \times 5''$ $18'' \times 12'' \times 6''$ $24'' \times 12'' \times 6''$

Lane's Patent Dish No 1373



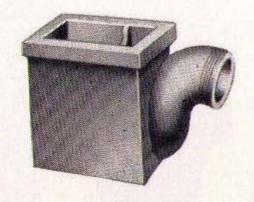
THE ANTI-SPLASH DISH No 1374



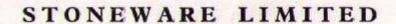
RUST POCKET No 1375



Moss Side Passage Gully



No 1376



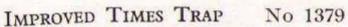


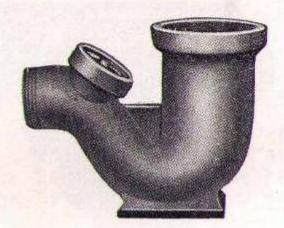
GULLIES, ETC., INSSALT-GLAZED STONEWARE

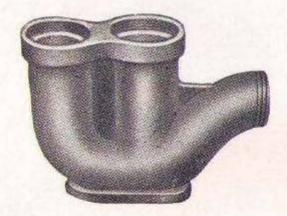
NORTH EASTERN SOCKETED No 1377

HANDHOLE TRAP No 1378

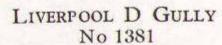


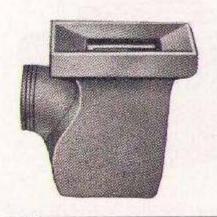


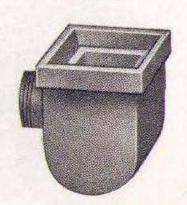




LIVERPOOL D GULLY No 1380



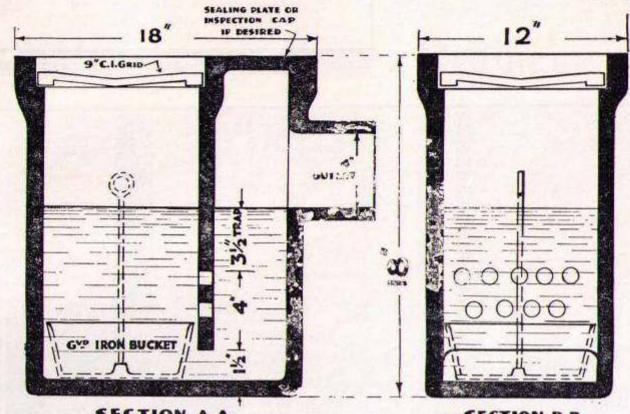






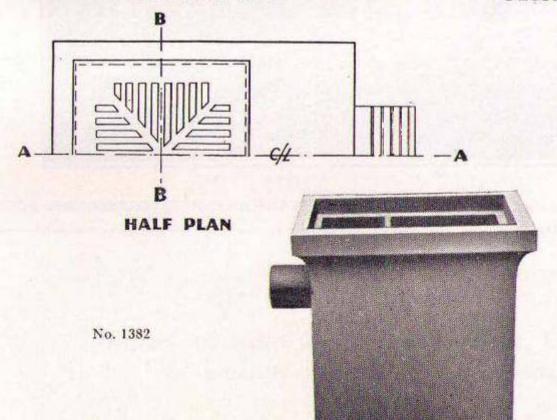
NEW PATTERN "DEAN'S GREASE TRAP"

Patent No. 358339

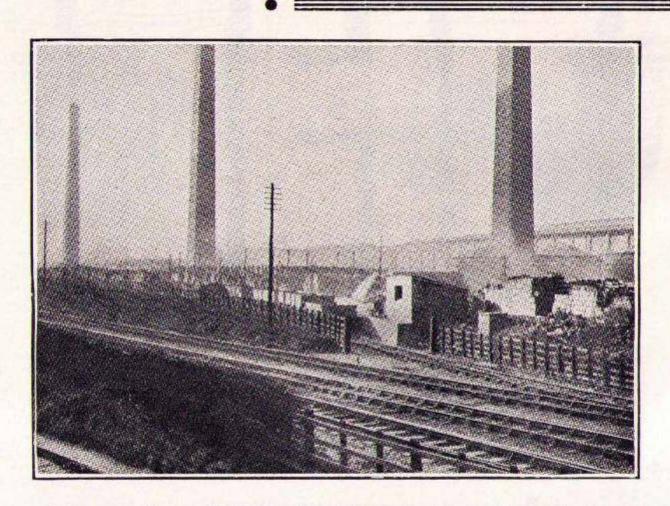


SECTION A.A.

SECTION B.B.







Siding connection to the Main Line



Salt-Glazed Ware Drainage Details

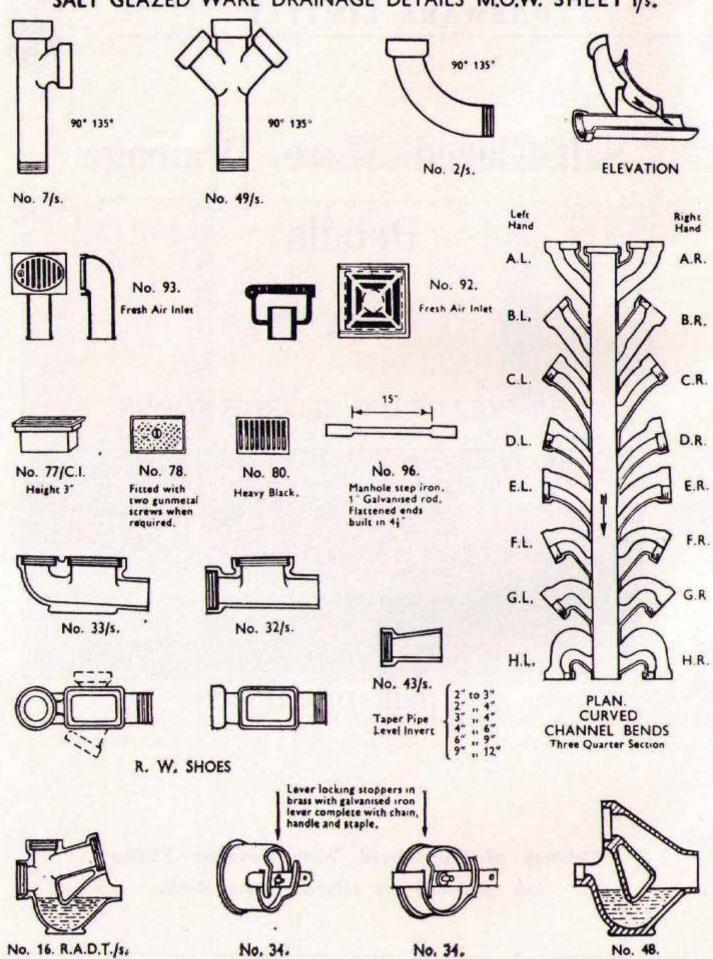
THE FOLLOWING ILLUSTRATIONS
ARE REPRODUCED BY PERMISSION
OF THE

WHO RESERVE THE RIGHT
TO ALTER THE NUMBERS OR DESIGNS
AT THEIR DISCRETION

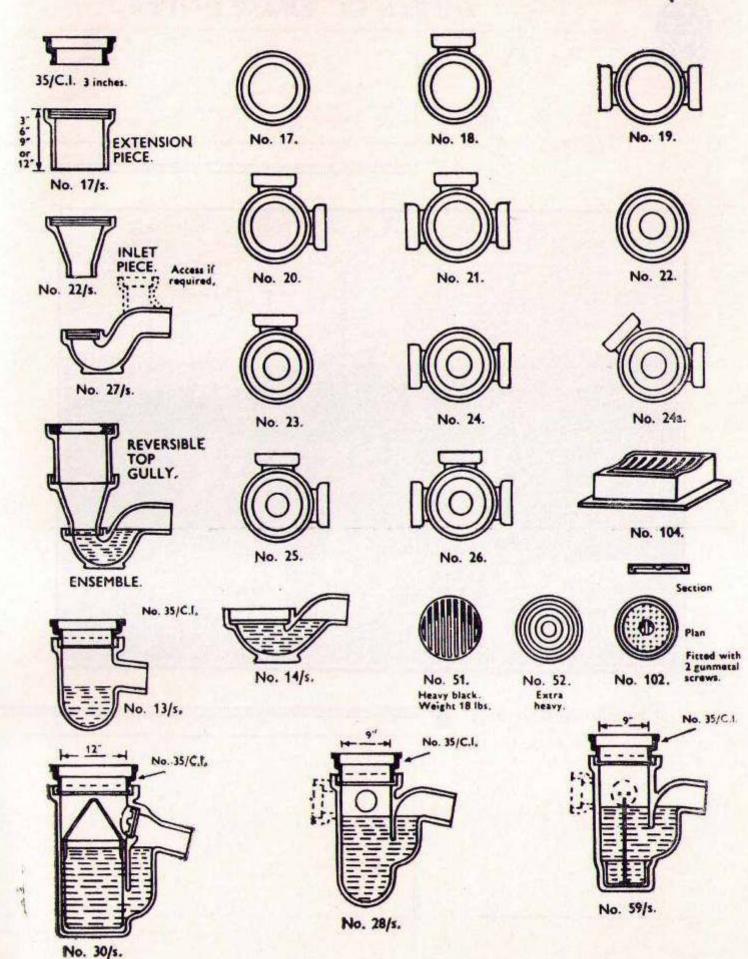
Delivery of Salt-Glazed Ware Drainage Fittings can generally be effected from stocks

-::-

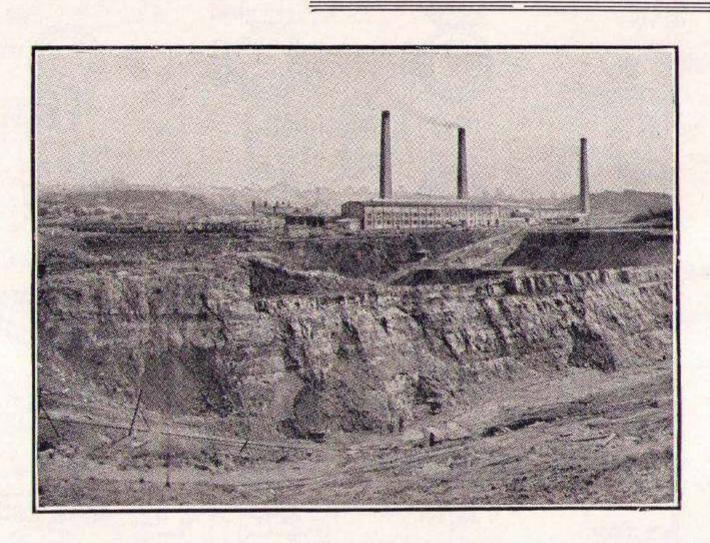
SALT GLAZED WARE DRAINAGE DETAILS M.O.W. SHEET 1/s.



SALT GLAZED WARE DRAINAGE DETAILS M.O.W. SHEET 2/s.







Part of the Clay Beds



STREET GULLIES

BLOCK TRAPS, FLAP VALVES,
INVERT and JUNCTION BLOCKS,
AIR BRICKS, FLUE LININGS,
HORSE MANGERS, CATTLE TROUGHS,
etc., in Salt-Glazed Stoneware

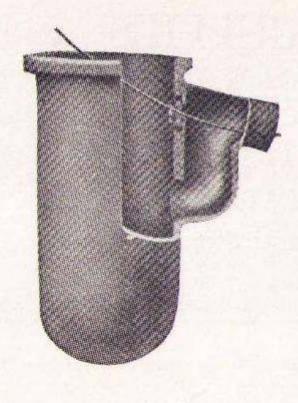


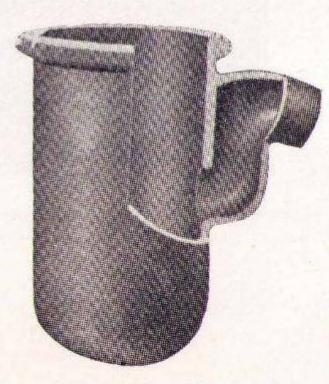
Improved Street Gullies in Salt-Glazed Stoneware

CIRCULAR ROAD GULLIES

12", 15" and 18" diameter
4", 6" or 9" Outlets
24" to 54" Deep with P. Q or Rodding Outlets

No. 1400





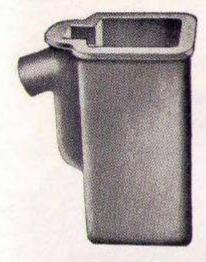
No 1401



Improved Street Gullies in Salt-Glazed Stoneware

THE SIMPSON No. 1403

No. 1404



SIMPSON'S

GULLIES

15" × 12" × 24"

15" × 12" × 30"

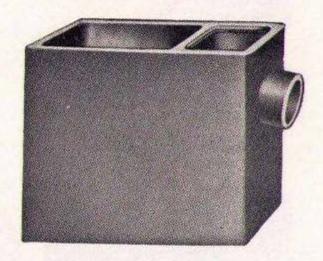
15" × 12" × 36"

18" × 15" × 30"

18" × 15" × 36"

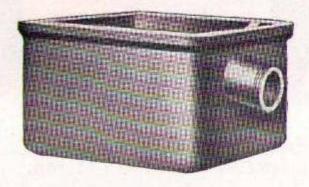
18" × 15" × 42"

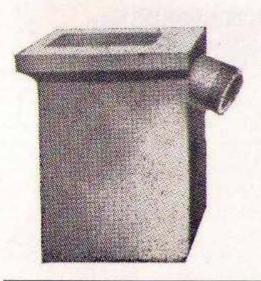
Inside Measurements



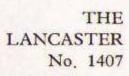
THE RADCLIFFE

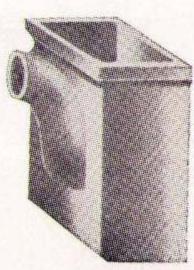
No. 1405

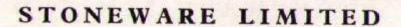




THE SHARP No. 1406







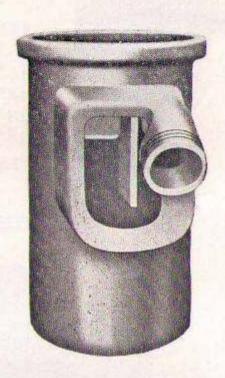


IMPROVED STREET GULLIES

No 1408







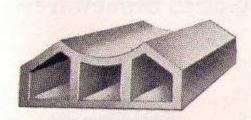
Fitted with galvanised Sealing-Plate and Frame unless otherwise ordered.

FRESH AIR INLETS FOR FILTER BEDS No 1410



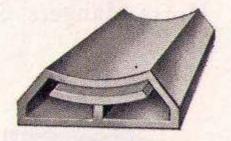


Invert Blocks, Junction Blocks, Pig Troughs, Cattle Troughs, Mangers in Salt-Glazed Stoneware



No 1411

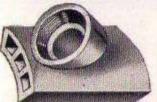
No 1412

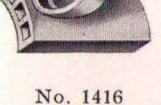


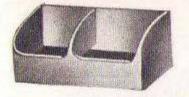
No. 1415

No. 1418

No. 1413





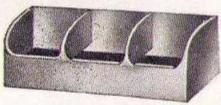


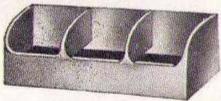
No. 1419



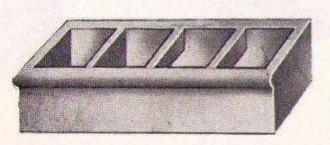
No. 1414

No. 1417





No. 1420



STAFFORDSHIRE BLUE OR RED GOODS No. 1422





No. 1423





For Illustrations of Blue Metallic Goods see pages 85-92



Horse Mangers, Cattle Troughs, in Salt-Glazed Stoneware and Garden Edging

No 1424





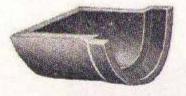


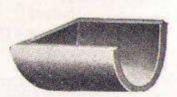
No 1426



No 1427

No 1428





Red, Blue, Buff or Salt-Glazed No 1429



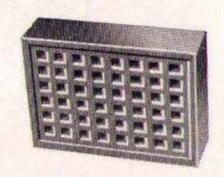


AirBricks, Chimney Cones, Chimney Partitions, Flue Linings.

No 1430



AIR BRICKS No 1431

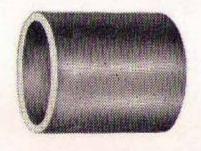


No 1432

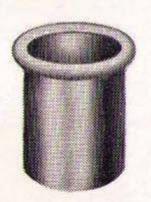


FLUE LININGS





No 1434



No 1435



No 1436

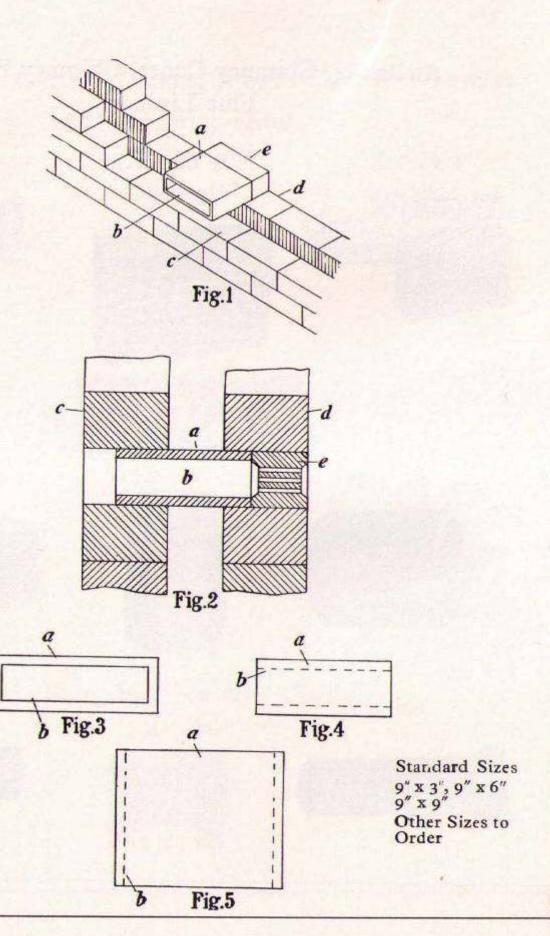


No 1437





Air-Brick
Extension
for
Cavity
Walls
Dean's Patent
No. 407789

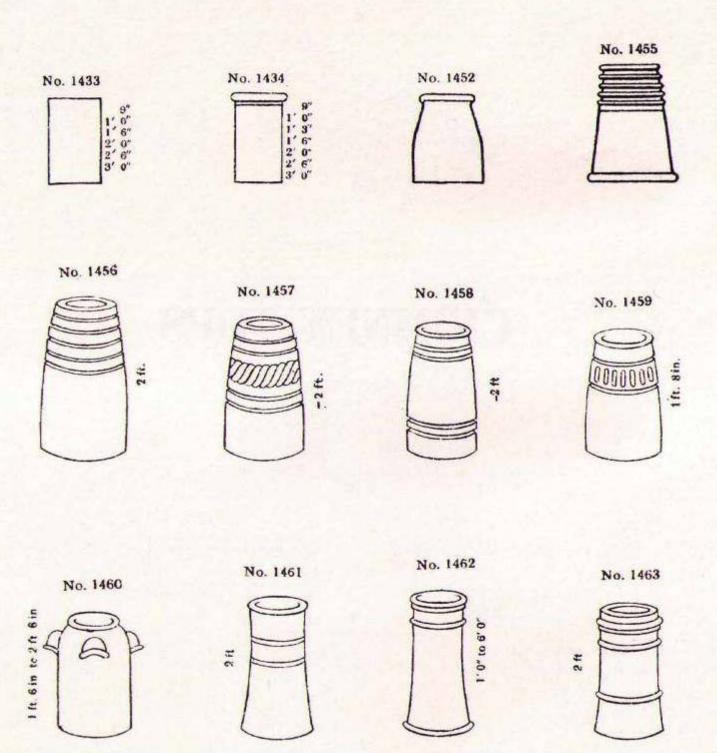




CHIMNEY TOPS



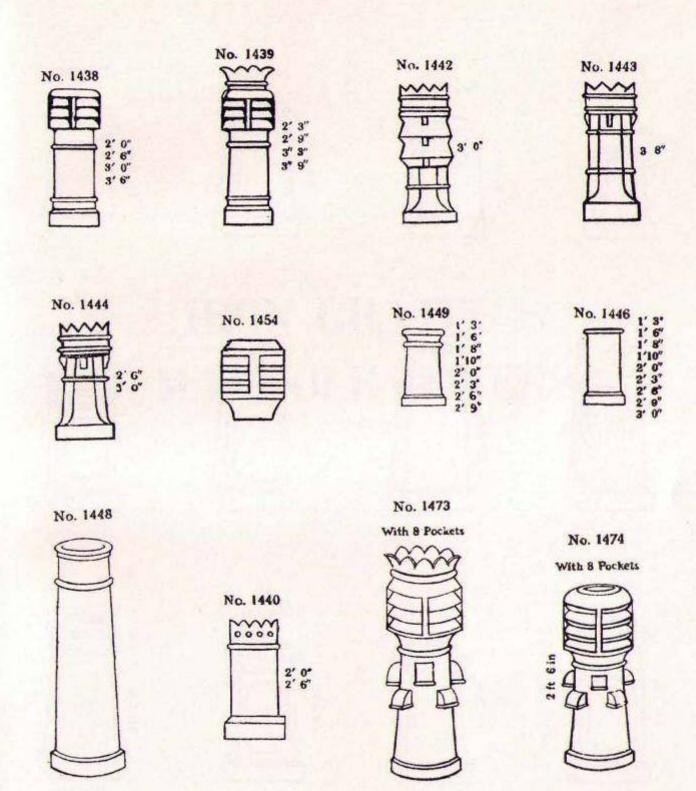
Red, Buff, Blue, or Salt-Glazed Chimney Pots.



LIMITED.



Red, Buff, Blue, or Salt-Glazed Chimney Pots.



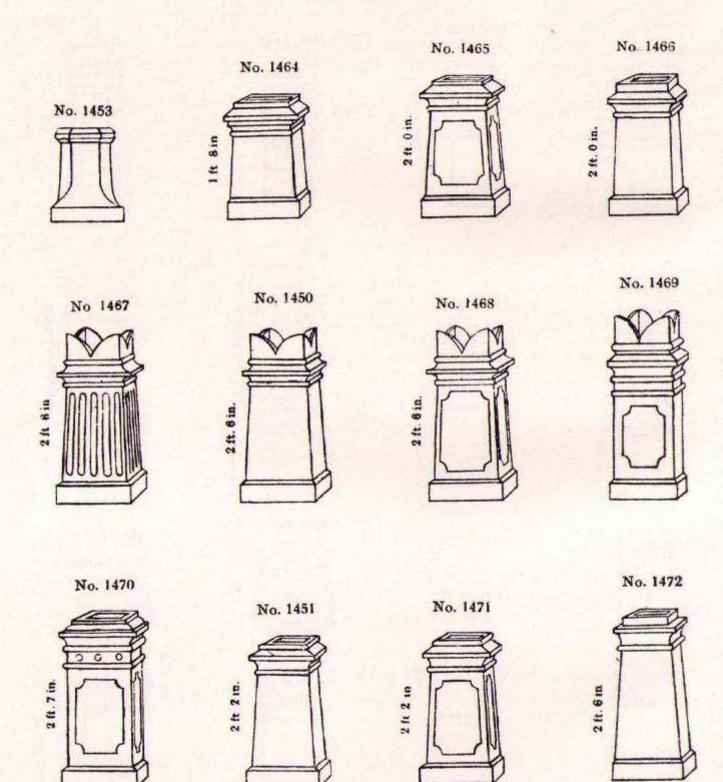


LIMITED.

15 x !2 in



Red, Buff, Blue, or Salt-Glazed Chimney Pots.





IRON GRATINGS MANHOLE COVERS

ETC.





IRON GRATINGS, Etc.

Nos 1501 1502 1503 1504 1505 1506 1507















Nos 1508 1509 1510

1511 1512 1513











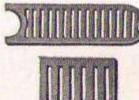


Nos 1514 1515

1516 1517 1518







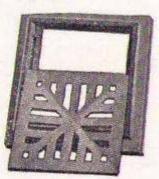




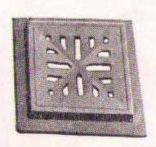
No 1519

No 1520

No 1521



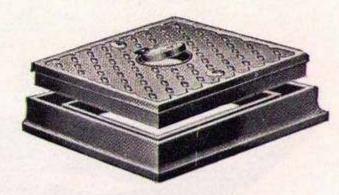
No 1522



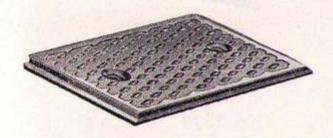


IRON GRATINGS, etc.

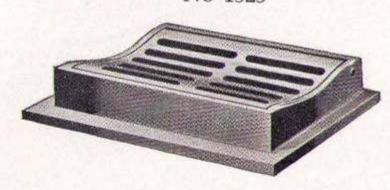
No 1523



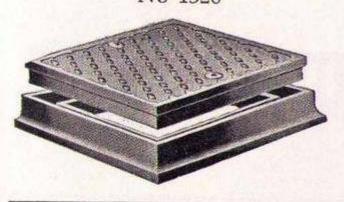
No 1524



No 1525



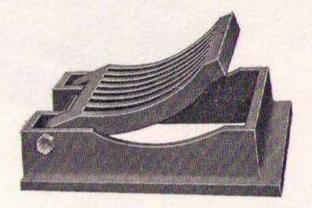
No 1526



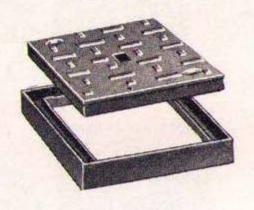


Sealing Plates, Grates, Manhole Covers, etc.

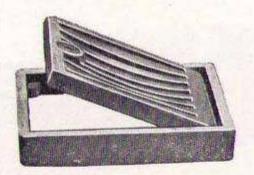
No 1527



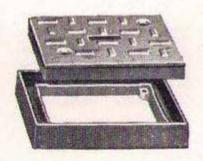
No 1528



No 1529



No 1530



No 1531





IRON GRATINGS, etc.

No 1533

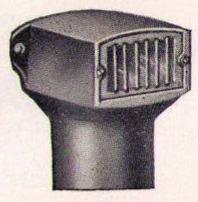
No 1532



No 1535



No 1534



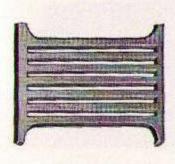
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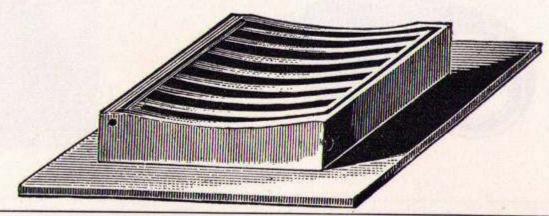


No 1537



No 1538



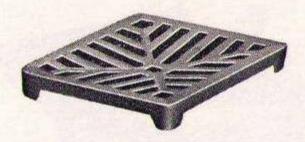




IRON GRATINGS, etc.

STRAINER BUCKET

No 1540

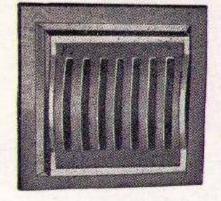


No 1539

No 1541



No 1542

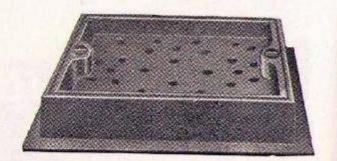


No 1543



No 1544

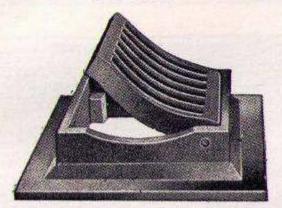






IRON GRATINGS etc.

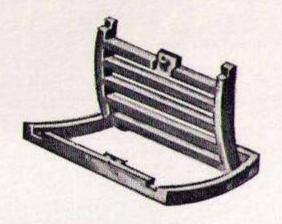
No 1545



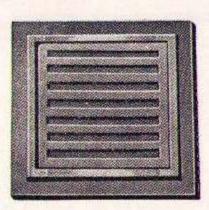
No 1546



No 1547



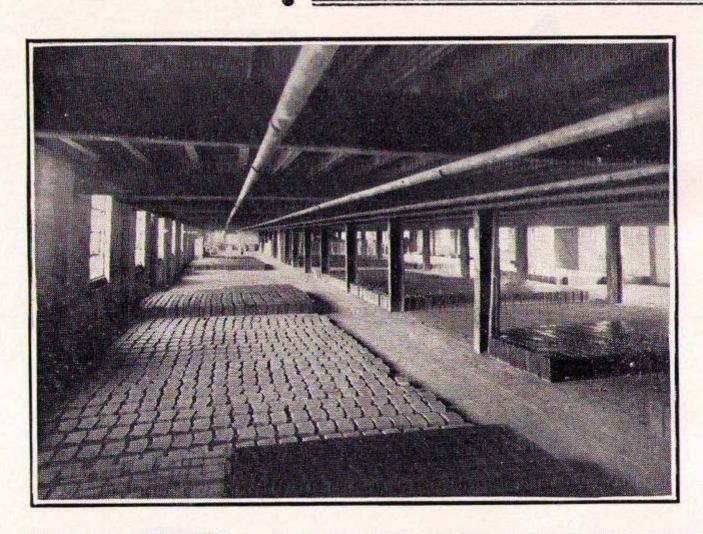
No 1548



No 1549







Bricks drying before Firing



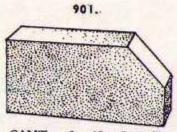


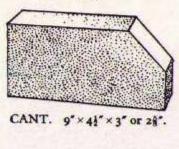
RED and BLUE GOODS

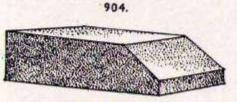


Red and Blue Goods.

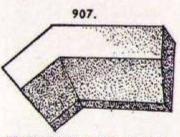
902.



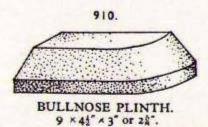


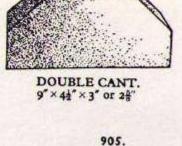


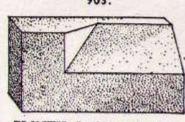
PLINTH HEADER. 9"×44"×3 or 28".

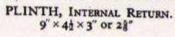


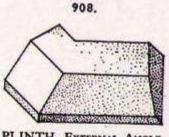
PLINTH, INTERNAL ANGLE. Standard Angles 45° and 60° 28" or 3" thick.



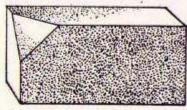




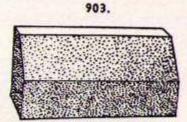




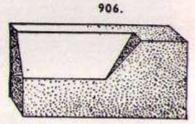
PLINTH, EXTERNAL ANGLE. Standard Angles 45° and 60°. 28° or 3" thick.



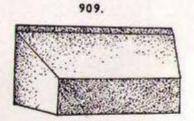
911-Cant or Plinth Stop. 912-Double Cant or Plinth Stop. 9"×41"×3 or 22".



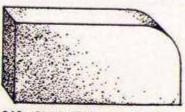
PLINTH STRETCHER. 9"×41"×3" or 28".



PLINTH, INTERNAL STOP. 9"×4½"×3" or 2%".



PLINTH, EXTERNAL RETURN. 9"×41"×3" or 28".

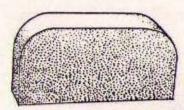


-Single Bullnose, 1" radius. 9"×41"×3" or 2,

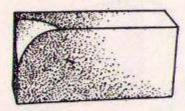
Sizes given are Standard, but bricks can be supplied to any thickness to suit requirements. Nos. 907 and 908 can also be made specially to any angle required.



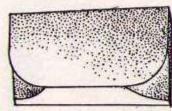
Red and Blue Goods.



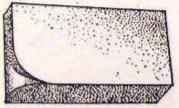
916—Double Bullnose, 1" radius, 917— " " 2½" " 918— " 4½" " 9"×4½" 3" or 2½".

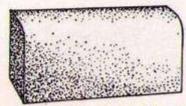


919—Single Bullnose Stop I" radius. 920— " " 2½" " 921— " " 4½" "

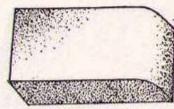


922—Double Bullnose stop 1" rad 923— " " " " 2½" " 924— " " " " 4½" "

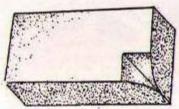


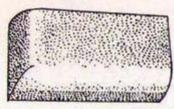


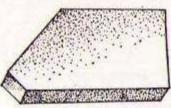
927—Bullnose Stretcher on Flat, 1" Rad. 928— " " " 21"



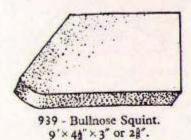
929—Bullnose Header, on flat, 1" Rad. 930— " " 2½ " 9"x41"x3" or 2½".

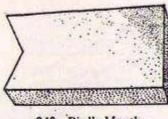






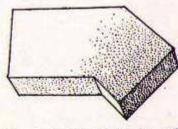
937 – Squint Brick, 45°. 938 – ", 60°. 9"×4½" × 3" or 2½"





940 - Bird's Mouth.
9" * 4½" × 3" or 2§".

Angle to suit requirements.



941 - Angle Brick or Dogleg, 45°. 942 - ,, ,, 60°.

Nos. 933, 934, 935 and 936 can be made with rounded angle if required.

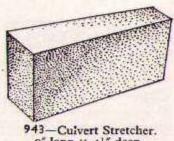
See also Nos. 970-976 inclusive for special Bullnose Angles.

Sizes given are Standard, but bricks can be supplied to any thickness to suit requirements.

Nos. 937, 938, 941, 942 can be made to any special angle.



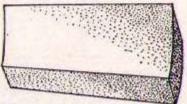
Culverts and Chimney (or Well) Brick made to any radius.



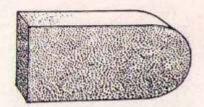
9" long × 4½" deep.

944 - Culvert Header. 9" long × 41" deep.

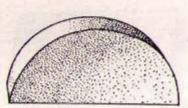
945 - Chimney (or Well) Stretcher. 9" long outside × 4½" × 3" or 2§".



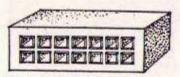
946-Chimney (or Well) Header. 9" long × 4½" outside × 3" or 25".



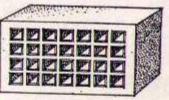
947-Bullnose on End (Cownose). 9" × 4½" × 3" or 2½". Standard lengths 28", 3", 6", 9" and 12".



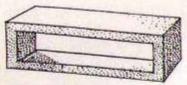
948 - Half-moon Coping. 9" × 41" × any workway required.



949 -9"×3" Air Brick. 3" deep.



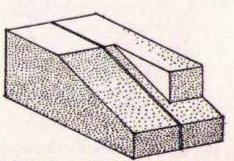
950-9"×6" Air Brick, 3" deep. Air Bricks also made in the following sizes: 9"x9", 12"x9", 12"x12".



951 Air Brick Extension Piece. 9"X3" or 9"X6" by any required length.

Air Brick made in three colours: red, blue, or buff.

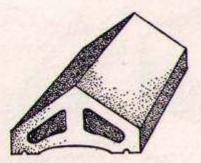
Extension Pieces 951 made in red.



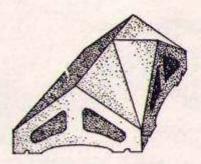
952—Example of Window Cill Brick and Stop. Can be supplied to any ize or specification required.



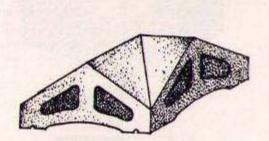
Copings.



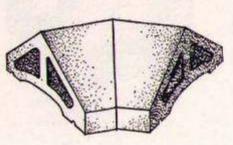
953—Saddle Back Coping.



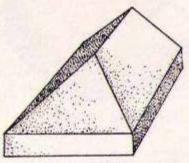
954-Tee Piece.



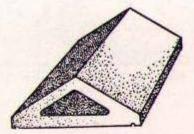
955-Square Angle.



956—Octagonal Angle.



957—Stop End. - 12"X12"X6".



958 - Saddle-back Coping.

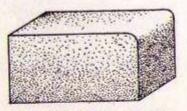
12"X12"X4!".

959 - Tee Piece as for 12" × 6"

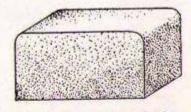
960 - Square Angle do. do.

961 - Octagonal Angle do. do.

962 - Stop End do. do.



963—Single Bullnose Coping.
9°X6°X6, 12°X6°X6°, 14°X6°X6°,
16°X6°X6°, 18°X6°X6° 20°X6°X6°, Standard Sizes.
964—External Angle to Single Bullnose.
965—Internal do. do. Coping.
966—Stop do. do. do.



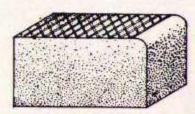
967—Double Bullnose Coping. Sizes and Angles as Single Bulinose.

968—Double Bullnose Coping Stop.

Saddle-back Copings can also be supplied 9"×6"×3" for 41" wall together with Specials as above illustrations.

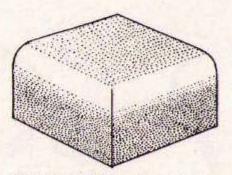


COPINGS. - continued.

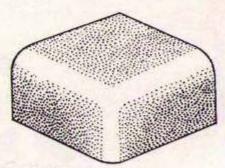


969 · Chequered Platform Coping. 9"x6"x6", 12"x6"x6", 14"x6"x6", 16"x6"x6", 18"x6" - 6".

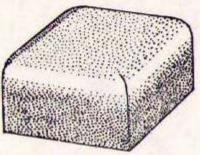
Wedge Copings or any Special Copings made to order. Angles to Copings are as illustrations 970 - 976.



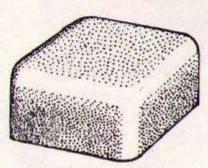
970 - Single Bullnose Stop or Angle, 9"x9"x4" or to match Copings.



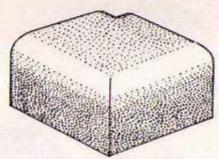
971 - Single Bullnose Stop or Angle (with Rounded Corner). 9"x9"x4j", or to match Copings.



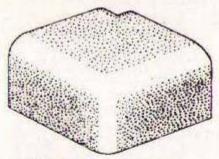
972 - Double Bulinose Stop. 9"x9"x4!" or to match Copings.



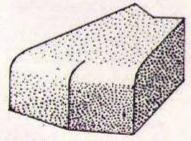
973 - Double Bullnose Stop. (with Rounded Corners), 9"x9"x41", or to match Copings.



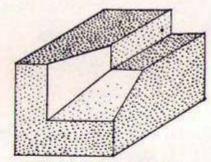
974 - Double Bullnose Angle. 9"x9"x4;", or to match Copings.



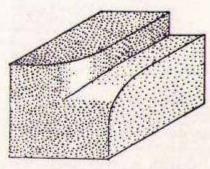
975 - Double Bullnose Angle (with Kounded Corners), 9"49"x4;", or to match Copings,



976 - Bullnose Octagonal Angle, 45°. Sizes to suit Coping and Special Angle as required.



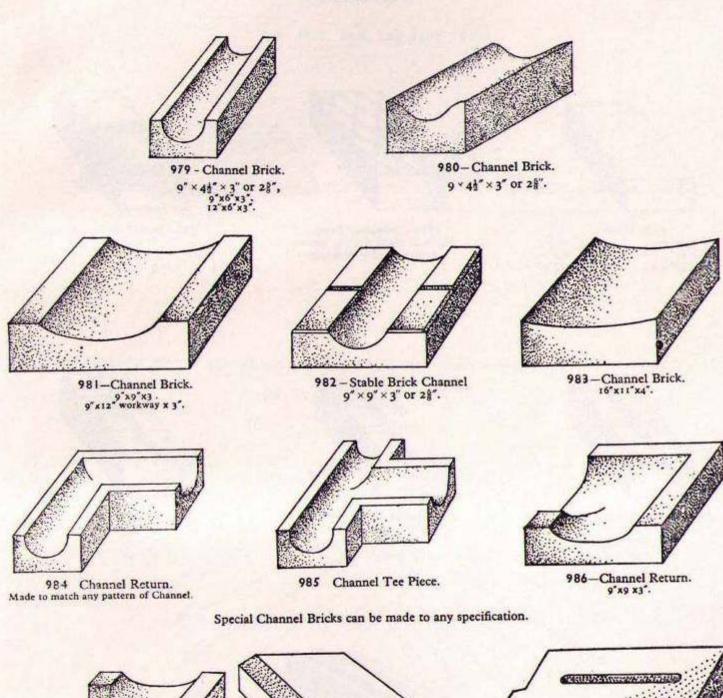
977-Cant Jamb or Cill Mitre.

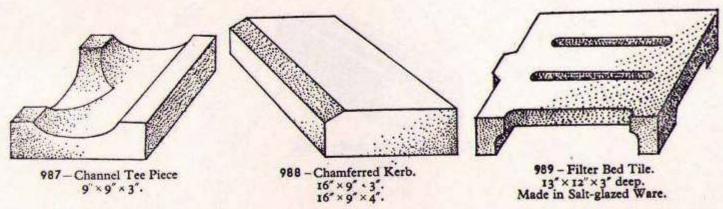


978-Bullnose Jamb and Cill Mitre. 9"x9"x6".



Channels.

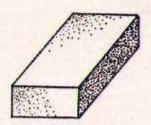




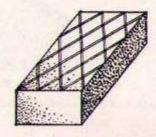
Nos. 984, 985, 986 and 987 Channel Specials can be made to suit any type of Channel brick.



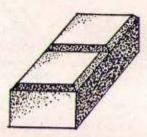
Pavers.



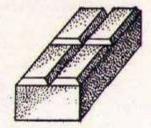
990—Paver. 9"×4½"×1". 10"×5"×1½". 9"×4½"×1½". 10"×5"×2". 9"×4½"×2". 12"×6"×2".



991 – Chequered Paver. Made in same sizes as 990 or to any special thickness.



992 – Stable Paver, 2-panel. $9'' \times 4\frac{1}{2}'' \times 2''$. $9'' \times 4\frac{1}{2}'' \times 2^{\frac{1}{2}}''$. $9'' \times 4\frac{1}{2}'' \times 3''$.

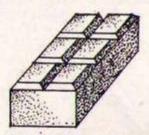


993—Stable Paver, 4-panel.

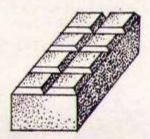
9"×4½"×2".

9"×4½"×2½".

9"×4½"×3".



994—Stable Paver, 6-panel.
9"×4½"×2".
9"×4½"×2½".
9"×4½"×3".

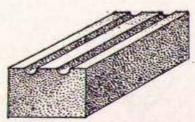


995 —Stable Paver, 8-panel.

9"×4½"×2".

9"×4½"×2½".

9"×4½"×3".



996—Fluted Stable Paver. 9"×4½"×2". 9"×4½"×2½". 9"×4½"×3".

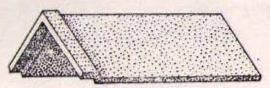


Ridges.

Red, Blue, Buff, and Sand Faced.



997—Plain, Flat-pitch Ridge.
90°.
105°.
115°.
125°.
Made in 12" or 18" lengths.

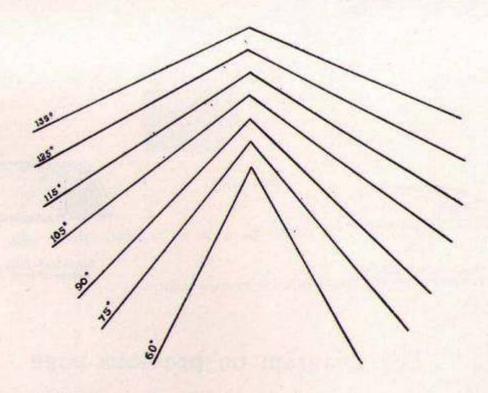


998 - Capped Flat-pitch Ridge.

90°.
105°.
115°.
125°.
Made in 12° or 18° lengths.

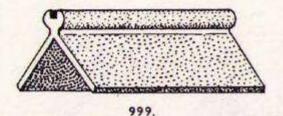
RIDGE TILES and FLUE LININGS and can supply customers' requirements in

RED OR BRINDLED, BLUE OR BUFF.

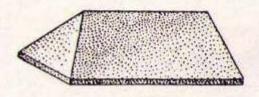




RIDGES. - continued.

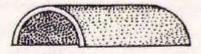


Roll Top Ridge. 90°, 105°, 115°, 125°. Made in 12" or 18" lengths.



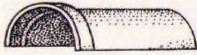
Ridge Tile Stop. To match Nos. 997 and 998.

1000.



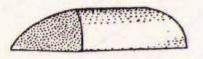
1001.

Plain Half-round Ridge. 90°—8" dia., 105°, 90°—9" dia Made in 12" or 18" lengths.



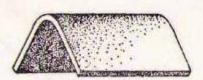
1002.

Capped Half-round Ridge. 90°, 105°. Made in 12° or 18' lengths



1003.

Half-round Ridge Stop. To match Nos. 1001 and 1002.



1004.

Hogs-back Ridge Tile. Made in 12" or 18" lenngts.

See Diagram on previous page



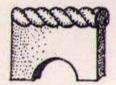
Garden Tiles.

RED, BLUE, or SALT GLAZED.



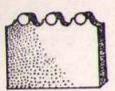
1005.

Fluted Pattern.



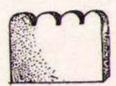
1006.

Rope Pattern. 1½" or 2" roll.



1007.

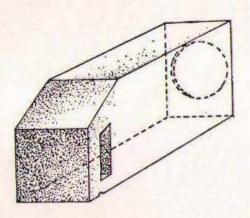
Nibbed Pattern. 9"x8"



1008.

Arched Pattern;

Gas Boiler Flue Brick.



No. 1009

Dimensions: 11" \times 6" \times 4½" with a 2½" or 3" opening.

Other sizes supplied to order.

