

# Kitemark™ Certificate

This is to certify that:

W T Knowles & Sons Limited  
Ash Grove Pipe Works  
Elland  
West Yorkshire  
HX5 9JA  
United Kingdom

Holds Certificate Number:

KM 00348

In respect of:

**BS 65**  
**Vitrified clay pipes & fittings**

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.



For and on behalf of BSI:

Shahm Barhom, Group Product Certification Director

First Issued: 1954-12-31

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# Kitemark™ Certificate

No. KM 00348

**BS 65 :1991 - Verified clay pipes, fittings and ducts, also flexible mechanical joints for use solely with surface water pipes and fittings.**

The scope of the certificate covers the following,

- 1. WITH REFERENCE TO CLAUSE 3.1 OF BS 65:1991 THE TYPES OF PIPES AND FITTINGS COVERED IN THE FOLLOWING SCHEDULE ARE NORMAL, SURFACE WATER, AND EXTRA CHEMICALLY RESISTANT ABBREVIATED AS N S E.
- 2. THE NATIONAL CATALOGUE NUMBERS REFER TO THE NUMBERS GIVEN TO PIPES AND FITTINGS IN THE STANDARD ILUSTRATED CATALOGUE ISSUED BY THE CLAY PIPES DEVELOPMENT ASSOCIATION LIMITED.

3. **PIPES**

3.1 PIPES WITH PLAIN SOCKETS /SPIGOTS ENDS.

THE HEADINGS FOR THE FOLLOWING COLUMNS ARE AS SHOWN BELOW

- A = TYPE OF PIPE OR FITTING BS 65 CLAUSE 3.1
- B = NATIONAL CATALOGUE NUMBER
- C = REFERED NORMINAL SIZE (DN)
- D = NON - PREFERED NORMINAL SIZE (DN)
- E = NORMINAL LENGTH UP TO AND INCLUDING (METERS)
- F = STRENGTH CLASS FOR CRUSHING UP TO AND INCLUDING

A	B	C	D	E	F
NSE PLUS PERFORATED DUCT (INCLUDING BUTTPIES)	1,2,3	100	75	1.0	EXTRA
		150		1.0	SUPER
		225		1.0	SUPER
		300		1.0	SUPER
			375	1.0	SUPER
			450	1.0	EXTRA
				1.0	STANDARD

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**3.1.FITTINGS**

- 4.1 FITTINGS WITH PLAIN OR SOCKET/SPIGOT ENDS
- 4.1.1 TAPER PIPES AND SPLAY PIPES

THE HEADINGS FOR THE FOLLOWING COLUMNS ARE AS HOWN BELOW

- A = TYPE OF PIPE OR FITTING BS 65 CLAUSE 3.1
- B = FITTING GROUND ITEM TABLE 6
- C = NATIONAL CATALOGUE NUMBER
- D = PREFERED NORMINAL SIZE (DN)
- E = NON -PREFERED NORMINAL SIZE(DN)
- F = NORMINAL LENGTH UP TO AND INCLUDING (METERS)

COLUMNS					
A	B	C	D	E	F
NSE PUS	PERFORATED AND DUCT INCLUDING BUTT PIPES	45,46	ALL REQUIRED COMBINATIONS IN THE RANGE 100/150/225AND 300	ALL REQUIRED COMBINATIONS IN THE RANGE 75,375,450 COUPLED WITH THE PREFERED RANGE AS REQUIRED	1.0
NSE	SPLAY PIPES	4	100,150 ,225,300	-	1.0

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3.2 ACCESS AND INSPECTION PIPES AND CHAMBERS, CHANNELS AND TAPPER CHANNELS

A	B	C	D	E	F
NSE	ACCES AND INSPECTION PIPESIPES	66,67,69	100,150, 225,300	-	1.0
NSE	ACCESS CHAMBERS HAVING UP TO THREE INLETS	363,364,365,369	100,150, 225,300	BARREL DIA 225,300 WITH INLETS AND OUTLETS IN ANY COMBINATION OF SIZE 100,150	HEIGHT 0.6.
NSE	CHANNELS  TAPPER CHANNELS	71,72  73,74	100,150, 225,300  ALL REQUIRED COMBINATIONS 100, 150, 225,300	75,375, 450  ALL REQUIRED COMBINATIONS IN THE RANGE 75,375,450 COUPLED WITH THE REQUIRED RANGE AS REQUIRED	1.0

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3.3 BENDS

THE READINGS FOR THE FOLLOWING COLUMNS ARE AS SHOWN BELLOW

A = TYPE OF PIPE OR FITTING BS 65 CLAUSE 3.1

B = FITTING GROUP ITEM TABLE 6

C = NATIONAL CATALOGUE NUMBER

D = PREFERED NORMINAL SIZE (DN)

E = NON – PREFERED NORMINAL SIZE (DN)

F = ANGLE DEGREE

A	B	C	D	E	F
NSE	BENDS SHORT RADIUS	9,12,15	100,150,225,300	75,375,540	45, 60, 90
NSE	BENDS MEDIUM RADIUS	8,11,14,17,18(NO NATIONAL NOS FOR 15 AND 20 (DEGREE)	100,150,225,300	75,375,450	11 <sup>1/4</sup> ,15,22 <sup>1/2</sup> ,30,45,60,90
NSE	LONG BENDS RADIUS	1,10,13	100,150,225,300	75,375,450	45, 60, 90
NSE	CLEANING ARM BENDS	16	100,150,225,300	75,375,450	90

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To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
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4.1.3 BENDS CONTINUED

A	B	C	D	E	F
NSE	TAPPER BENDS	9,12, 1553,54	ALL COMBINATIONS IN THE RANGE 100, 150, 225,300	ALL REQUIRED COMBINATIONS IN THE RANGE 73,375,450 COUPLED WITH THE PREFERED RANGE AS REQUIRED	11 <sup>1/4</sup> ,15, 22 <sup>1/2</sup> ,30, 45,60, 90
NSE	REST BENDS	19	100,150, 225,300	75,375, 450	90
NSE	ROUND ELBOW BENS	41	100,150, 225,300	75,375, 450	90
NSE	METRERD BENDS	42	100,150, 225,300	75,375, 450	90

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4.1.4 CHANNELS BENDS, ACCESS AND INSPECTION BENDS, SADDLES AND OBLIQUE SADDLES.

A	B	C	D	E	F
NSE	CHANNEL BENDS AND ACCESS & INSPECTION BENDS, SHORT RADIUS	81,94, 84,97, 87,100	100,150, 225,300	75,375, 450	45,60, 90
NSE	CHANNEL BENDS AND ACCESS & INSPECTION BENDS, SHORT RADIUS	91,101, 90,102, 88,99,85, 96,82,93 (NO NATIONAL NUMBERS FOR 15 &30 DEGREE)	100,150, 225,300	75,375, 450	11 <sup>1/4</sup> ,15, 22 <sup>1/2</sup> ,30, 45,60, 90
NSE	CHANNEL BENDS & ACCESS INSPECTION BENDS MEDIUM RADIUS.	98,89,95, 86,92,83	100,150, 225,300	75,375, 450	45,60,90

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4.1.4 CHANNELS BENDS ETC CONTINUED

A	B	C	D	E	F
NSE	$\frac{1}{2}$ & $\frac{1}{4}$ SECTION CHANNELS WITH SPLAYED ENDS	103,104	100,150, 225,300	75,375, 450	10,30,45,50,70, 90,115,140, 165
NSE	SADDLES TO FIT ON NORMINAL SIZE PIPE OR LARGER WITHIN D & E RANGES	38	100,150, 225,300	75,375, 450	90
NSE	OBLIQUESADDLES TO FIT OWN PIPEOR LARGER WITHIN D& E RANGES.	37	100,150, 225,300	75,375, 450	45

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4.1.5 BENDS

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- B = FITTING GROUP ITEM TABLE 6
- C = NATIONAL CATALOGUE NUMBER
- D =PREFERED NORMINAL SIZE (DN)
- E = NON PREFERED NORMINAL SIZE (DN).
- F = NORMINAL LENGTH UP TOAND INCLUDING(METERS)
- G = BRANCH ANGLE (DEGREES)

A	B	C	D	E	F	G
NSE	OBLIQUE JUNCTIONS DOUBLE SINGLE CURVED DOUBLE CURVED	20 28 23 31	ALL COMBINATIONS IN THE RANGE 100,150,225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL SIZE PIPE OR LARGER	1	30,45. 60
NSE	SQUARE JUNCTIONS SINGLE DOUBLESINGLE CURVED DOUBLE CURVED	21 30 25 33	ALL COMBINATIONS IN THE RANGE 100,150, 225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL SIZE PIPE OR LARGER	1	90

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4.1.5 JUNCTIONS CONTINUED

A	B	C	D	E	F	G
NSE	BREECHES OBLOQUE JUNCTIONS	29	ALL COMBINATIONS IN THE RANGE 100,150,225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL PIPE SIZE OR LARGER	1.0	45,60
NSE	BREECHES CURVED SQUARE JUNCTION	NO NATIONAL NUMBERS	ALL COMBINATIONS IN THE RANGE 100,150, 225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL SIZE PIPE OR LARGER	1	90
NSE	TUMBLING BAY JUNCTIONS OBLQUE CURVED SQUARE	26 27	ALL COMBINATIONS IN THE RANGE 100,150, 225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL SIZE PIPE OR LARGER	1.0	45,60

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4.1.5 JUNCTIONS CONTINUED

A	B	C	D	E	F	G
NSE	OBLIQUE CHANNEL JUNCTIONS SINGLE CURVED DOUBLE CURVED BREECHES CURVED	105,106, 117 109,110 118 121 121A	ALL COMBINATIONS IN THE RANGE 100,150,225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL PIPE SIZE OR LARGER	1.0	30,45, 60
NSE	SQUARE CHANNEL JUNCTIONS SINGLE, DOUBLE, CURVED BREECHES CURVED	107,108 120 111,112 122	ALL COMBINATIONS IN THE RANGE 100,150, 225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL SIZE PIPE OR LARGER	1	90

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4.1.5 JUNCTIONS CONTINUED

A	B	C	D	E	F	G
NSE	<u>OBLIQUE ACCESS JUNCTIONS</u> SINGLE CURVED DOUBLE CURVED BREECHES CURVED	63,65 64 NO NATIONAL NOS FOR THESE TYPES	ALL COMBINATIONS IN THE RANGE 100,150,225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	-	1.0	30,45, 60
NSE	<u>SQUARE JUNCTIONS</u> SINGLE, DOUBLE, CURVED BREECHES CURVED	68,70 NO NATIONAL NOS FOR THESE TYPES	ALL COMBINATIONS IN THE RANGE 100,150, 225,300 ON OWN NORMINAL SIZE PIPE OR LARGER	ALL COMBINATIONS IN THE RANGE 75,375,450 ON OWN NORMINAL SIZE PIPE OR LARGER	1	90
NSE	TAPPER CHANNEL BENDS LEFT OR RIGHT HAND INCREASING OR REDUCING	75,76 77,78	ALL COMBINATIONS IN THE RANGE 100,150,225,300 COUPLED WITH THE NON PREFERED RANGE AS REQUIRED	ALL COMBINATIONS IN THE RANGE 75,375,450 COUPLED WITH THE PREFERED RANGE AS REQUIRED	-	11 <sup>1/4</sup> ,15, 22 <sup>1/2</sup> ,30, 45,60, 90

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4.1.7 TAPPEED GULLIES, LOW BACK TRAPS, SYPHONS, AND INTERCEPTORS

THE HEADINGS FOR THE FOLLOWING COLUMNS ARE AS SHOWN BELOW.

- A = TYPE OF PIPE OR FITTING BS 65 CLAUSE 3.1
- B = FITTING GOROUPI TABLE 6
- C = NATIONAL CATALOGUE NUMBER
- D =SIZE OF TOP OR INLET MILLIMETERS
- E = SIZE OF OUTLET (DN)
- F = DEPTH MILLIMETERS)

A	B	C	D	E	F
NSE	ROUND TOP GULLIES	138,140 142	100,150, 225,300 (DIAMETER)	75, 100 150	-
NSE	SQUARE TOP GULLIES	169,170, 171,174, 175,176, 177,178, 179,180, 181,182, 183	100,150, 225,300 (SQUARE)	75, 100 150	-
NSE	ANGLE GULLIES	184,185, 186,187, 188,189, 190	100,150, 225,300 (SQUARE)	75, 100 150	-
NSE	INSPECTION GULLIES	191,192 193	100,150, 225,300 (SQUARE)	75, 100 150	-

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4.1.7 TAPPEED GULLIES, ETC CONTINUED,

A	B	C	D	E	F
NSE	LOW BACK TRAPS	148,149	100,150, 225,300 (DIAMETER)	75, 100 150,225, 300	-
NSE	INTERCEPTORS	130,131, 132,133, 134	100,150, 225,300	100,150, 225,300	-
NSE	ACCESS GULLIES	191A	150 X300mm	100	-
NSE	YARD GULLIES	164,194 195,196	100,150, 225,375 400,450	100,150	UP TO 900
NSE	ROAD GULLIES	123, 124	225,300, 375,400, 450	100,150	UP TO 900
NSE	TIMES TRAP	270	100,150	100,150	-
NSE	SYPHON	144	100, 150, 225,300	100, 150, 225,300	-

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**NOTE:** 1. ALLROUND SQUARE ANGLE AND INSPECTION GULLIES MAY BESUPPLIED WITH OUTLETS AT 92<sup>1/2</sup> Degree (P) 135 DEGREE (Q) 180 DEGREE (S) OR AND WITH ANY REQUIRED.

COMBINATION:

HORIZONTAL OR VERTICAL INLETS – REFER TO NATIONAL CATALOGUE FOR APPROPRIATE SUFFIX LETTERS A – M.

2. ACCESS YARD AND ROAD GULLIES MAY BE SUPPLIED WITH ANY REQUIRED COMBINATIONS OF HORIZONTAL OR VERTICAL INLETS- REFER TO

CATALOGUE FOR APPROPRIATE SUFFIX LETTERS A TO M.

3 ROAD GULLIES MAY BE SUPPLIED WITH OR WITHOUT RODDING EYE.

4.1.8 TAPPERED GULLIES, RAINWATER SHOES, CONNECTORS, HOPPERS, RAISING PIECES.

A	B	C	D	E	F
NSE	TRAPLESS YARD GULLIES	165	150,225 300 (DIAMETER)	100 150	
NSE	RAINWATER SHOES VERTICAL INLETS	197	TOP 250X 150 SQUARE		
NSE	HORIZONTAL INLET	198	INLETS 100,150		
NSE	WITHOUT INLET	199			
NSE	DOUBLE SOCKET	201	100,150	100,150	

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4.1.8 TAPPERED GULLIES, RAINWATER SHOES ETC CONTINUED,

A	B	C	D	E	F
NSE	<u>CONNECTORS</u>		56,75	75,100	
	BENDS				
	SINGLE	202			
	INLET				
	DOUBLE	203			
	INLET				
	TREBLE	204			
	INLET				
NSE	<u>STRAIGHT</u>				
	CENTRAL TAPPER				
	FLAT	205			
	TAPPER				
	DOUBLE	206			
	TAPPER				
	TREBLE	207			
	TAPPER	208			
NSE	STSAIGHT	-	75,100,150,	75,100,150,	-
	CONNECTORS		225,300,375,	225,300,375,	
			450	450	

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4.1.8 TAPPERED GULLIES, RAINWATER SHOES ETC CONTINUED,

A	B	C	D	E	F
NSE	HOPPERS	158,159, 160,161, 152,153, 154,155,  162A	150,225 SQUARE 150,225 DIAMETER GRID 150 X 150	100,150	-
	SQUARE			100,150	-
	ROUND			100,150	-
	INTERGRAL INLET				
NSE	INTERGRAL HOPPER	261	150 X130	100	
NSE	RAISING PIECES	163  157  200	150 X 225 300 SQUARE  DIAMETER 100,150 225,300  UP TO 250 X 150 TO FIT RAINWATER SHOES AND ACCESS FITTING	100,150	75,1150 225,300
	SQUARE				
	ROUND			100,150	75,1150 225,300
	RECTANGULAR			100,150	75,1150 225,300

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- 4.1.9 JUNCTIONS BLOCKS AND
- 4.1.10 DISHED TOPS, LOOSE COLLAR AND DOUBLE SOCKETS

THE HEADING FOR THE FOLLOWING COLUMNS ARE AS SHOWN.

- A = TYPE OF PIPE OR FITTING BS 65 CLAUSE3.1
- B = FITTINGS GOUP ITEM TABLE 6.
- C = NATIONAL CATALOGUE NUMBER
- D = PREFERED NORMINAL SIZE (DN)
- E = NON – PREFERED NORMINAL SIZE (DN)
- F = NORMINAL LENGTH UP TO INCLUDING (METERS)
- G = ANGLE DEGREE

A	B	C	D	E	F	G
NSE	JUNCTION BLOCKS	-	100, 150 AND 225	-	-	90,45, 60
NSE	DISHED TOPS	166	300  600 X300	250 X 375  450 X 300 375 X 300	-  -  -	-  -  -
	LOOSE COLLARS	5	100,150, 225,300	75,375	-	-
	DOUBLE SOCKETS	6	100,150, 225,300	75, 375, 450	-	-

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