

# Kitemark™ Certificate

This is to certify that:

Naylor Drainage Limited  
Clough Green  
Cawthorne  
Barnsley  
S75 4AD  
United Kingdom

Holds Certificate Number:

KM 20173

In respect of:

**BS EN 295**  
**Vitrified clay pipe systems for drains and sewers**

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:

Frank Lee, Product Certification Technical and Compliance Director

First Issued: 1992-03-20

Latest Issue: 2021-09-16

Effective Date: 2021-09-16

Expiry Date: 2024-09-15

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...making excellence a habit.™

# Kitemark™ Certificate

No. KM 20173

## BS EN 295:2013 - Vitrified clay pipes and fittings and joints for drains and sewers.

### General

Pipes and fittings detailed in this schedule may be supplied with or without sockets. Pipe diameters are described by nominal bore (DN) size and crushing strengths (FN).

### Part 1 - Requirements for Vitrified Clay Pipes and Fittings.

#### A – Pipes

##### 1. Spigot Controlled Jointing System G known as: Densleeve

Nominal Size (DN)	Minimum Crushing Strength (FN) kN/m
100	34
150	40
200	56
225	45
250	70
300	72

##### 2. Spigot Controlled Jointing System G known as: Hathernware 'Thermachem'

Nominal Size (DN)	Minimum Crushing Strength (FN) kN/m
100	34
150	40
225	45
300	72

##### 3. Spigot Controlled Jointing System known as: Densal Plus

Nominal Size (DN)	Minimum Crushing Strength (FN) kN/m
375	64

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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.  
A member of BSI Group of Companies.

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## **B – Fittings - (All System G)**

Pipeline connections of all sizes up to and including DN 700.

### **Fittings Group**

### **Angle of Curvature of Branch Angle (Degrees)**

Taper and Splay Pipes	
Access and Inspection Pipes & Chambers, Channels and Taper Channels	
Bends, Taper and Rest	11½, 15, 22½, 30, 45, 60, 75 & 90
Bends -- Thermachem	11½, 22½, 45 & 90
Channel Bends, Access and Inspection Bends	10, 11¼, 15, 22½, 30, 45, 50, 60, 70, 90, 115, 140 & 165
Junctions	30, 45, 60 & 90
Junctions -- Thermachem	45 & 90
Channel Junctions & Access Junctions	30, 45, 60 & 90
Saddles and Oblique Saddles	45 & 90
Taper Channel Bends	11¼, 15, 22½, 30, 45, 60 & 90
Trapped Gullies, Low Back Traps, Syphons and Interceptors	
Trapless Gullies, Hoppers and Raising Pieces	
Saddle Fitting Joint DN 150	

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## **C - Flexible Mechanical Joints**

When used in conjunction with the pipes and fittings covered by this Licence, the following joints comply with BS EN 295:

<b>Trade Name of Joint/Fitting</b>	<b>Jointing System</b>	<b>Nominal Bore</b>	<b>Relevant Part of BS EN 295</b>
Denseal Plus	Denseal Plus	DN 375	Part 1
Densleeve	System G	DN 100 - DN 300	Part 1
Denlok®	Denlok®	DN 150 - DN 600	Parts 1 & 7

## **Part 7 - Vitrified clay pipes and joints for pipe jacking : Denlok® Range.**

<b>Nominal Size (DN)</b>	<b>Minimum Crushing Strength (kN/m) Clause 4.3.1</b>	<b>Minimum Declared Jacking Strength (MN) Clause 4.3.4</b>
150	64	0.9
200	80	1.4
225	81	1.7
250	100	3.4
300	120	4.2
400	160	8.1
450	144	8.4
500	120	8.7
600	144	10.6

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