



# Kitemark<sup>®</sup> Licence

**No. KM 508224**

*The licence is granted to:*

**Glynwed Pipe Systems Limited  
T/A GPS PE Pipe Systems  
St Peter's Road  
Huntingdon  
PE29 7DA  
United Kingdom**

*In respect of:*

**BS EN 12201-2**

**Plastics piping systems for water supply - polyethylene (PE):Pipes**

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*For and on behalf of BSI:*

*Gary Fenton, Global Assurance Director*

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**No. KM 508224**

**BS EN 12201-2:2011 - Plastics piping systems for water supply - Polyethylene (PE) Pipes**

**1. PE 100 EXCEL NB Pipes**

**a) Total XS 10 B**

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
110	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
125	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
140	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
160	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
180	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
200	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
225	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
250	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
280	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
315	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
355	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
400	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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No. KM 508224

## 1. PE 100 EXCEL NB Pipes

### a) Total XS 10 B (continued)

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
450	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
500	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
560	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
630	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
710	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
800	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
900	Yes	-	Yes	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H
1000	-	-	-	Yes	Yes	-	Total XS10B	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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**No. KM 508224**

## 1. PE 100 EXCEL NB Pipes

### b) Ineos TUB 121

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
110	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
125	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
140	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
160	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
180	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
200	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
225	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
250	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
280	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
315	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
355	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
400	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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No. KM 508224

## 1. PE 100 EXCEL NB Pipes

### b) Ineos TUB 121 (continued)

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
450	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
500	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
560	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
630	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
710	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
800	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
900	Yes	-	Yes	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H
1000	-	-	-	Yes	Yes	-	Ineos TUB 121	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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**No. KM 508224**

## 1. PE 100 EXCEL NB Pipes

### c) Borealis Borsafe HE 3490 LS

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
110	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
125	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
140	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
160	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
180	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
200	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
225	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
250	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
280	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
315	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
355	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
400	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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No. KM 508224

## 1. PE 100 EXCEL NB Pipes

### c) Borealis Borsafe HE 3490 LS (continued)

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
450	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
500	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
560	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
630	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
710	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
800	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
900	Yes	-	Yes	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H
1000	-	-	-	Yes	Yes	-	Borealis 3490 LS	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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## 1. PE 100 EXCEL NB Pipes

### d) Basell CRP 100 Black

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
110	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
125	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
140	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
160	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
180	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
200	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
225	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
250	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
280	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
315	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
355	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
400	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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No. KM 508224

## 1. PE 100 EXCEL NB Pipes

### d) Basell CRP 100 Black (continued)

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
450	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
500	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
560	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
630	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
710	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
800	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
900	Yes	-	Yes	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H
1000	-	-	-	Yes	Yes	-	Basell CRP 100	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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## 1. PE 100 EXCEL NB Pipes

### e) Sabic Vestolen 6060R

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
110	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
125	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
140	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
160	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
180	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
200	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
225	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
250	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
280	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
315	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
355	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
400	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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## 1. PE 100 EXCEL NB Pipes

### e) Sabc Vestolen 6060R (continued)

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
450	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
500	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
560	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
630	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
710	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
800	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
900	Yes	-	Yes	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H
1000	-	-	-	Yes	Yes	-	Sabic 6060R	TUB 124 or BorSafe HE3494LS or Total XS 10 H

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## 2. PE 100 Pipes with a Peelable Polypropylene Outer Layer

### a) Total XS 10 H

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
110	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
125	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
140	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
160	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
180	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
200	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
225	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
250	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
280	Yes	-	Yes	-	-	-	Total XS 10 H	Borealis RA 130 PP
315	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
355	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
400	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
450	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
500	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
560	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
630	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
710	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
800	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
900	Yes	-	Yes	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP
1000	-	-	-	Yes	Yes	-	Total XS 10 H	Borealis RA 130 PP

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## 2. PE 100 Pipes with a Peelable Polypropylene Outer Layer

### b) Ineos TUB 124

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
110	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
125	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
140	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
160	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
180	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
200	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
225	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
250	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
280	Yes	-	Yes	-	-	-	Ineos TUB 124	Borealis RA 130 PP
315	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
355	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
400	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
450	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
500	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
560	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
630	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
710	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
800	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
900	Yes	-	Yes	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP
1000	-	-	-	Yes	Yes	-	Ineos TUB 124	Borealis RA 130 PP

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### 3. PE 80 Pipes with a Single Wall

#### a) Ineos Rigidex 002-50 R968

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
20	Yes	-	-	-	-	Ineos 002-50 R968	-	-
25	Yes	-	-	-	-	Ineos 002-50 R968	-	-
32	Yes	-	-	-	-	Ineos 002-50 R968	-	-
40	Yes	-	-	-	-	Ineos 002-50 R968	-	-
50	Yes	-	-	-	-	Ineos 002-50 R968	-	-
63	Yes	-	-	-	-	Ineos 002-50 R968	-	-

### 3. PE 80 Pipes with a Single Wall

#### b) Borealis Borsafe ME3444

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
20	Yes	-	-	-	-	Borealis ME3444	-	-
25	Yes	-	-	-	-	Borealis ME3444	-	-
32	Yes	-	-	-	-	Borealis ME3444	-	-
40	Yes	-	-	-	-	Borealis ME3444	-	-
50	Yes	-	-	-	-	Borealis ME3444	-	-
63	Yes	-	-	-	-	Borealis ME3444	-	-

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## 4. PE 100 Pipes with a Single Wall

### a) Total XS 10 H

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
110	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
125	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
140	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
160	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
180	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
200	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
225	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
250	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
280	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
315	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
355	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
400	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
450	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
500	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
560	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
630	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
710	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
800	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
900	Yes	-	Yes	Yes	Yes	Total XS 10 H	-	-
1000	-	-	-	Yes	Yes	Total XS 10 H	-	-

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## 4. PE 100 Pipes with a Single Wall

### b) Ineos TUB 124

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
110	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
125	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
140	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
160	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
180	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
200	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
225	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
250	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
280	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
315	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
355	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
400	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
450	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
500	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
560	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
630	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
710	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
800	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
900	Yes	-	Yes	Yes	Yes	Ineos TUB 124	-	-
1000	-	-	-	Yes	Yes	Ineos TUB 124	-	-

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## 4. PE 100 Pipes with a Single Wall

### c) Borealis Borsafe HE 3494 LS

Size	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26	Single Wall	Core Layer	Outer Layer
90	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
110	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
125	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
140	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
160	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
180	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
200	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
225	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
250	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
280	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
315	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
355	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
400	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
450	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
500	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
560	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
630	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
710	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
800	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
900	Yes	-	Yes	Yes	Yes	Borealis 3494LS	-	-
1000	-	-	-	Yes	Yes	Borealis 3494LS	-	-

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