

REGULATION 31(4)(A) OF THE WATER SUPPLY (WATER QUALITY) REGULATIONS 2016 SI No 614
& THE WATER SUPPLY (WATER QUALITY) REGULATIONS 2010 SI No 994 (W.99)(AMENDMENT
REGULATIONS 2016 No 410(W.128))

APPROVAL CONFIRMATION

Product name/designation	Peak Pipe Systems
Approval Holder (Name & Address)	Peak Pipe Systems Ltd Smeckley Wood Close, Chesterfield Trading Estate, Chesterfield, Derbyshire S41 9PZ
Instructions for Use	PSIFU01 – Issue 09 Dated: 03/03/2020
DWI Ref Number	DWI 56.4.548

The Secretary of State for Environment, Food and Rural Affairs in respect of relevant water suppliers¹ whose area of supply is wholly or mainly in England, and the Welsh Ministers in respect of relevant water suppliers whose area of supply is wholly or mainly in Wales, in exercise of their powers under Regulation 31(4)(a) of the Water Supply (Water Quality) Regulations 2016 and Regulation 31(4)(a) of the Water Supply (Water Quality) Regulations 2010 (Wales) respectively hereby approve the introduction of the product detailed above, in accordance with the following Conditions of Use & Approval.

CONDITIONS OF USE & APPROVAL

The above named product is approved for application in England and Wales² by a water supply company for public water supply purposes subject to the following conditions:

1. Water undertakers and water supply licensees shall be provided with a copy of the Instructions for Use (IFU) detailed above and use of the approved product must be in accordance with the IFU.
2. The Drinking Water Inspectorate (DWI) must be notified, in advance and in writing, by the approval holder detailed above, in respect of any **further** change(s) in –
 - a) The Instructions for Use
 - b) The formulation of the approved product, including change in source or identity of raw materials
 - c) The manufacturing process, including location of manufacture
 - d) The designation of the approved product
 - e) The name, address or ownership of the organisation holding the approval

Failure to notify such further changes will result in approval being withdrawn.

3. The producer shall ensure that the product is tested for conformity with its formulation, and the source or identity of its raw materials, at such intervals and by such persons, as may be determined by the Authorities. The results of such testing shall be sent to DWI.
4. The use of either the Drinking Water Inspectorate or DEFRA logos, in respect of any approved product (including on the product or in editorial or advertising/trade copy) is not permitted.
5. The following product specific condition(s) apply – **None**

Signed by authority of the Secretary of State
and the National Assembly for Wales

Date of issue: 6th April 2020
Date of Expiry: 20th May 2025



Marcus Rink
Chief Inspector of Drinking Water
England and Wales

¹ Relevant water suppliers shall include water undertakers, water supply licensees and inset appointees.

² Separate approval arrangements apply in Scotland and Northern Ireland

**INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION
OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS'
POLYETHYLENE PIPE**

COMPANY DETAILS

Peak Pipe Systems Limited contact details are:

Smeckley Wood Close
Chesterfield Trading Estate
Chesterfield
Derbyshire
S41 9PZ

Tel. +44 (0)1246 262702
Fax. +44 (0)1246 262724

PRODUCT DETAILS

Peak Pipe Systems Limited produces polyethylene (PE) single skin and co-extruded pipe branded Peak Pipe Systems for above and below ground potable water distribution applications, in two UK manufacturing locations:

- PPS1- Peak Pipe Systems Limited, Smeckley Wood Close, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9PZ
- PPS2- Buxoplas Manufacturing Limited, Quarters Farm, Hazlebadge, Bradwell, Hope Valley, Derbyshire, S33 9HX

PE MATERIALS

The **PEAK PIPE SYSTEMS** single skin pipe is manufactured from the following PE100 black compounds:

PPS1 Location

- Borealis BorSafe HE3490-LS
- Ineos Eltex TUB 121 N3000
- Lyondell Basell Hostalen CRP 100
- Sabic Vestolen A6060R10000

PPS2 Location

- Borealis BorSafe HE3490-LS
- Lyondell Basell Hostalen CRP 100
- Sabic Vestolen A6060R10000

The **PEAK PIPE SYSTEMS** single skin pipe is manufactured from the following PE80 blue compounds:

PPS2 Location

- Ineos Eltex PC002-50R968
- Borealis Borsafe ME3444

INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS" POLYETHYLENE PIPE

The **PEAK PIPE SYSTEMS** co-extruded pipe is manufactured from the following PE100 compounds:

PPS1 Location

- Blue outer layers:
 - Borealis BorSafe HE3494-LS-H
 - Lyondell Basell Hostalen CRP 100W
- Black inner layers:
 - Borealis BorSafe HE3490-LS
 - Lyondell Basell Hostalen CRP 100
 - Ineos Eltex TUB 121 N3000
 - Sabic Vestolen A6060R10000

PPS2 Location

- Blue outer layers:
 - Borealis BorSafe HE3494-LS-H (Excluding Sabic Inner)
 - Lyondell Basell Hostalen CRP 100W
- Black inner layers:
 - Lyondell Basell Hostalen CRP 100
 - Borealis BorSafe HE3490-LS
 - Sabic Vestolen A6060R10000

PRODUCT RANGE

Pipes are available in the following size, SDR, Pressure ranges:

Material	SDR	S	PN	Minimum Outside Diameter Size (mm)	Maximum Outside Diameter Size (mm)
PE80	9	4	16	20	63
PE80	11	5	12.5	20	63
PE100	7.4	3.2	25	50	630
PE100	9	4	20	20	630
PE100	11	5	16	20	630
PE100	13.6	6.3	12.5	20	630
PE100	17	8	10	40	630
PE100	21	10	8	50	630
PE100	26	12.5	6	50	630
PE100	33	16	5	315	630
PE100	41	20	4	315	630
Co Extruded PE100	11	5	16	90	630
Co Extruded PE100	17	8	10	90	630
Co Extruded PE100	21	10	8	90	630

SDR- Standard Dimension Ratio / S- Pipe Series / PN- Nominal Pressure (Bar)

**INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION
OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS'
POLYETHYLENE PIPE**

MANUFACTURE/TEST

All pipe ranges are manufactured and tested in accordance to '*Plastics piping systems for water supply, and for drainage and sewerage under pressure. Polyethylene (PE): Part 2- 'Pipes' (BS EN 12201-2) & Part 7- 'Guidance for the assessment of conformity' (PD CEN/TS 12201-7)*

PRODUCT MARKING

The pipe is marked in accordance with **BS EN 12201-2**.

An example of which is given below:

**WWW.PEAKPIPESYSTEMS.COM BS EN 12201 PEAK PIPE SYSTEMS
(MANUFACTURING LOCATION) (3RD PARTY CERTIFICATION COMPANY NAME
AND REGISTRATION NUMBER) (OUTSIDE DIAMETER (MM)) X (WALL
THICKNESS (MM) SDR PE100 PN (PRODUCTION LINE) (POLYMER CODE)
(INTENDED USE) (WORKS ORDER NO.) (BATCH NO. DATE/TIME)**

PACKAGING

Handling and Storage

Pipes will be delivered in accordance with the following specification.

Co-extruded pipes are packed in the same way as black single skin pipes, but with the addition of coloured/clear push caps on both ends of the pipe to prevent debris entering the bore of the pipe.

Coils

Coiled pipe is only manufactured in sizes 20-180mm Outside Diameter, and at PPS2 location only.

The coils are suitably wrapped, and the tail ends banded securely to the body of the coil.

It is recommended to use suitable coil handling equipment for sizes 63mm Outside Diameter and above.

**INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION
OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS"
POLYETHYLENE PIPE**

For Coil dimensions and weights please refer to the tables below:

Coils - SDR 9

Diameter	Length	Coil			Pack size	Approx.		
		Inside Diameter (mm)	Outside Diameter (mm)	Width (mm)		kg/m	kg/coil	kg/pack
20 mm	25	730	850	100	10	0.14	3.50	35.00
	50	730	900	100	10	0.14	7.00	70.00
	100	730	975	130	10	0.14	14.00	140.00
	150	730	1100	130	10	0.14	21.00	210.00

Coils - SDR 11

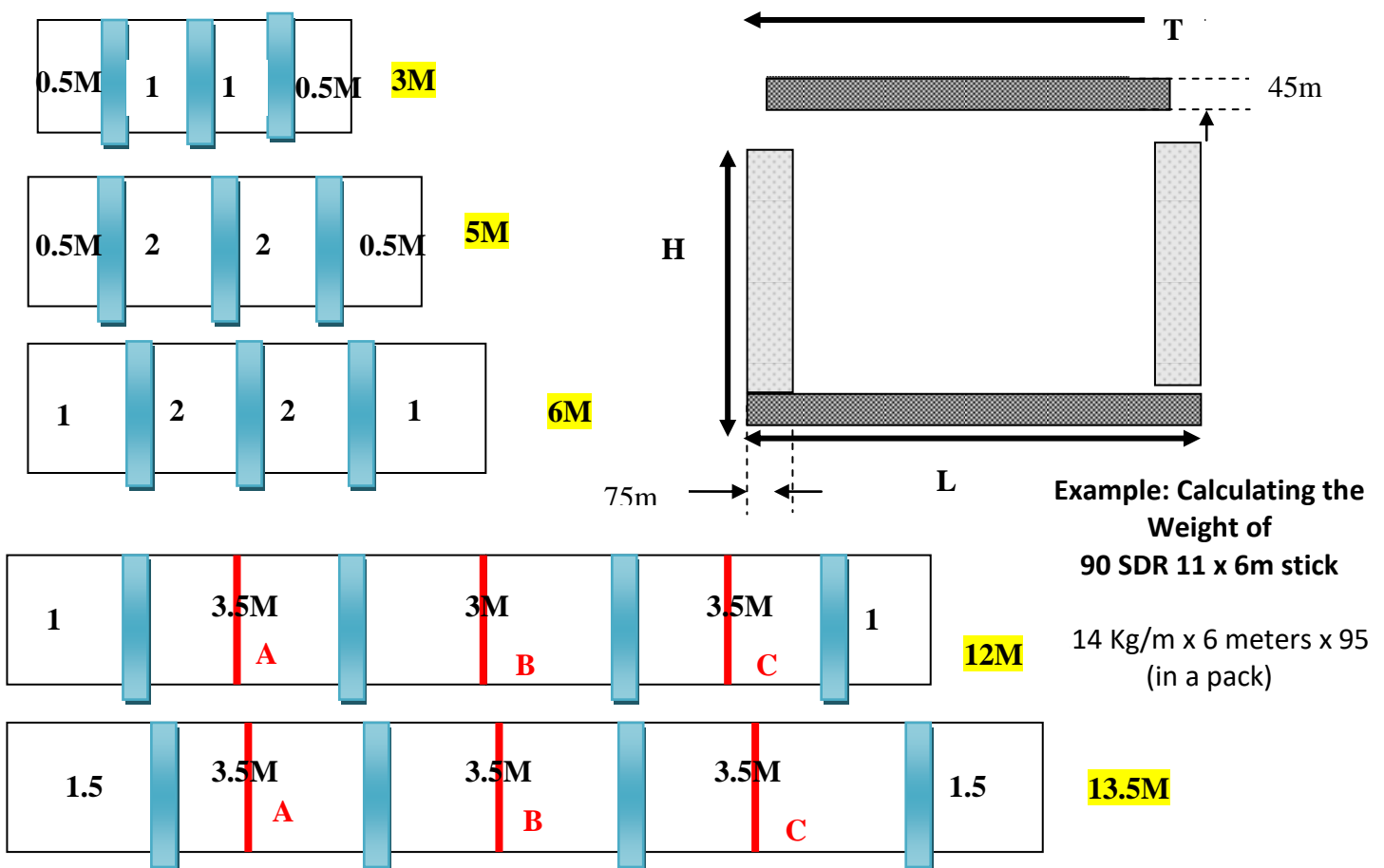
Diameter	Length	Coil			Pack size	Approx.		
		Inside Diameter (mm)	Outside Diameter (mm)	Width (mm)		kg/m	kg/coil	kg/pack
25 mm	25	730	880	100	10	0.18	4.50	45.00
	50	730	930	160	10	0.18	9.00	90.00
	100	730	1035	160	5	0.18	18.00	90.00
	150	730	1190	160	10	0.18	27.00	270.00
32 mm	25	730	925	130	10	0.29	7.25	72.50
	50	730	990	160	5	0.29	14.50	72.50
	100	730	1190	190	8	0.29	29.00	232.00
	150	730	1320	190	8	0.29	43.50	348.00
50 mm	25	1260	1460	170	1	0.68	17.00	N/A
	50	1260	1560	210	1	0.68	34.00	N/A
	100	1260	1775	260	1	0.68	68.00	N/A
	150	1260	1860	270	1	0.68	102.00	N/A
63 mm	25	1260	1510	200	1	1.07	26.75	N/A
	50	1260	1640	260	1	1.07	53.50	N/A
	100	1260	1900	310	1	1.07	107.00	N/A
	150	1260	2020	350	1	1.07	160.50	N/A
90 mm	50	2160	2700	270	1	2.16	108.00	N/A
	100	2160	3100	270	1	2.16	216.00	N/A
110 mm	50	2500	3200	350	1	3.19	159.50	N/A
	100	2500	3200	500	1	3.19	319.00	N/A
125 mm	50	2600	3100	400	1	4.13	206.50	N/A
	100	2600	3350	570	1	4.13	413.00	N/A
160 mm	50	3000	3640	500	1	6.77	338.50	N/A
	100	3000	3640	900	1	6.77	677.00	N/A
180 mm	50	3000	3720	570	1	8.73	436.50	N/A
	100	3000	3720	1000	1	8.73	873.00	N/A

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POLYETHYLENE PIPE**

Coils - SDR 17

Diameter	Length	Coil			Pack size	Approx.		
		Inside Diameter (mm)	Outside Diameter (mm)	Width (mm)		kg/m	kg/coil	kg/pack
90 mm	50	2160	2700	270	1	1.48	74.00	N/A
	100	2160	3100	270	1	1.48	148.00	N/A
110 mm	50	2500	3200	350	1	2.20	110.00	N/A
	100	2500	3200	500	1	2.20	220.00	N/A
125 mm	50	2600	3100	400	1	2.80	140.00	N/A
	100	2600	3350	570	1	2.80	280.00	N/A
160 mm	50	3000	3640	500	1	4.58	229.00	N/A
	100	3000	3640	900	1	4.58	458.00	N/A
180 mm	50	3000	3720	570	1	5.79	289.50	N/A
	100	3000	3720	1000	1	5.79	579.00	N/A

Lengths of pipes in Wooden Stillages (50-280mm Outside Diameter).



ONLY routed wood to be used, steel banding to be placed central to the wood and no less than 10 mm from the side of the wooden packing.

ALL 12 metre pipe to have banding around 3 sections (A, B, C) for extra stability.

3, 6 and 12 metres are standard lengths 5 & 13.5 metres are customer specified lengths

**INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION
OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS"
POLYETHYLENE PIPE**

PIPE DIAM : mm	DIM: L mm	DIM: H mm	DIM: T mm	QTY PER PACK	ROWS PER PACK	SDR	Average Weight (Kg/m) Based on PE100	WEIGHT/ KG 12 METRE	WEIGHT/ KG 6 METRE	WEIGHT/ KG 3 METRE
50	1200	613	1125	287	7 x 21 7 x 20	11	0.67	N/A	1152	N/A
63	1221	664	1146	198	6 x 17 6 x 16	11	1.06	N/A	1256	628
						17	0.72	N/A	858	429
90	1140	714	1065	95	5 x 11 4 x 10	11	2.14	2439	1219	610
						17	1.47	1670	835	418
						26	0.98	1115	558	279
110	1140	682	1065	60	4 x 9 3 x 8	11	3.17	2284	1142	571
						17	2.18	1570	785	392
						26	1.44	1034	517	258
125	1150	667	1075	45	3 x 8 3 x 7	7.4	1.85	3153	1576	788
						9	4.93	2663	1332	666
						11	4.12	2223	1111	556
						17	2.78	1502	751	375
						21	2.28	1230	615	308
						26	1.85	999	499	250
140	1130	625	1055	33	3 x 7 2 x 6	7.4	7.33	2904	1452	726
						9	6.18	2447	1223	612
						11	5.13	2032	1016	508
						17	3.49	1383	691	346
						21	2.85	1130	565	282
						26	2.33	924	462	231
160	1110	715	1035	28	3 x 6 2 x 5	7.4	9.55	3208	1604	802
						9	8.05	2703	1352	676
						11	6.73	2263	1131	566
						17	4.56	1531	766	383
						21	3.74	1257	629	314
						26	3.06	1029	514	257
180	1230	648	1155	22	2 x 6 2 x 5	7.4	12.07	3186	1593	797
						9	10.18	2687	1344	672
						11	8.51	2247	1123	562
						17	5.76	1522	761	380
						21	4.70	1241	621	310
						26	3.81	1006	503	252
200	1150	720	1075	18	2 x 5 2 x 4	7.4	14.93	3225	1612	806
						9	12.59	2719	1359	680
						11	10.50	2267	1134	567
						17	7.11	1536	768	384
						21	5.83	1258	629	315
						26	4.73	1021	511	255
						33	3.89	841	420	210

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POLYETHYLENE PIPE**

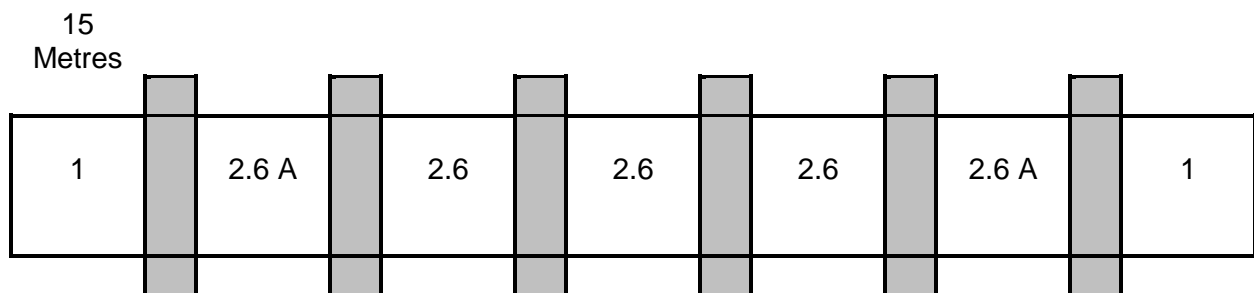
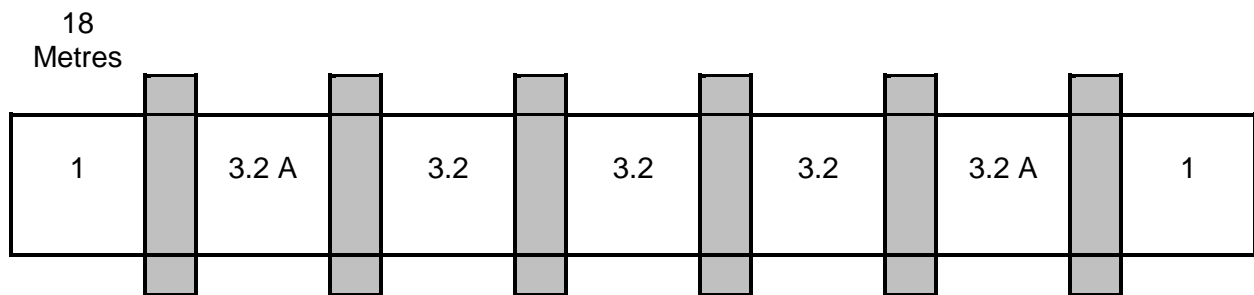
225	1050	615	975	11	2 x 4 1 x 3	7.4	18.87	2491	1245	623
						9	15.93	2103	1052	526
						11	13.29	1754	877	438
						17	9.02	1191	595	298
						21	7.36	972	486	243
						26	5.94	784	392	196
						33	4.85	640	320	160
250	1150	684	1075	11	2 x 4 1 x 3	7.4	23.29	3075	1537	769
						9	19.58	2585	1292	646
						11	16.34	2157	1078	539
						17	11.06	1459	730	365
						21	9.01	1189	595	297
						26	7.36	972	486	243
						33	5.89	777	389	194
280	1270	765	1195	8* or 11	2 x 4 or 2 x 4 1 x 3	7.4	29.21	2804	1928	964
						9	24.61	2363	1625	812
						11	20.48	1966	1352	676
				11	2 x 4 1 x 3	17	13.89	1833	917	458
						21	11.37	1501	751	375
						26	9.18	1212	606	303
						33	7.49	989	495	247

*280mm \varnothing SDR 7.4, 9 and 11 when in 12 meters must be packed in 8's due to the weight.

**INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION
OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS"
POLYETHYLENE PIPE**

15 AND 18 METRE LENGTHS

PIPE DIAM: mm	DIM: L mm	DIM: H mm	DIM: T mm	QTY PER PACK	ROWS PER PACK	SDR	Average Weight (Kg/m) Based on PE100	WEIGHT/ KG 18 METRES	WEIGHT/ KG 15 METRES
90	1140	402	1065	53	3 x 11 2 x 10	11	2.14	2041	1701
						17	1.47	1398	1165
125	1150	342	1075	23	2 x 8 1 x 7	11	4.12	1704	1420
						17	2.78	1151	959
160	1110	299	1035	11	1 x 6 1 x 5	11	6.73	1333	1111
						17	4.56	902	752
180	1230	336	1155	11	1 x 6 1 x 5	11	8.51	1685	1404
						17	5.76	1141	951
225	1050	420	975	7	1 x 4 1 x 3	11	13.29	1674	1395
						17	9.02	1137	947
250	1150	467	1075	7	1 x 4 1 x 3	11	16.34	2059	1716
						17	11.06	1393	1161



All 15 and 18 metre pipe to have banding around all sections for extra stability:

- 2.6 and 2.6A for 15 metre lengths
- 3.2 and 3.2A for 18 metre lengths.

CO-EXTRUDED PIPE

Packed in the same way as black pipe, with the addition of **COLOURED / CLEAR
PUSH CAPS** on both ends of the pipe to prevent debris entering the bore of the pipe.
All swarf must be removed prior to push caps installation.

**INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION
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POLYETHYLENE PIPE**

Diameters 315mm and above; SDR 7.4/9/11/13.6/17/17.6/21:

- Scalloped timber to be used only, strapped with metal banding.

**When packing 3+5 metre plus lengths, please ensure a central timber is used
to ensure no sag.**

For spacing of scallops refer to the stillage section.

PIPE DIAM mm	DIM mm	DIM: mm	DIM: mm	QTY PER PACK	ROWS PER PACK	SDR	Average Weight (Kg/m) Based on PE100	WEIGHT (Kg)				
	L	H	T					13.5 METRE	12 METRE	6 METRE	5 METRE	3 METRE
315	955	N/A	N/A	3	1 x 3	7.4	36.98	1498	1331	666	555	333
						9	31.14	1261	1121	560	467	280
						11	25.93	1050	933	467	389	233
						17	17.59	712	633	317	264	158
						21	14.29	579	515	257	214	129
355	1075	N/A	N/A	3	1 x 3	7.4	46.89	1899	1688	844	703	422
						9	39.55	1602	1424	712	593	356
						11	32.92	1333	1185	592	494	296
						17	22.39	907	806	403	336	201
						21	18.15	735	653	327	272	163
400	1210	N/A	N/A	3	1 x 3	7.4	59.55	2412	2144	1072	893	536
						9	50.17	2032	1806	903	752	451
						11	41.79	1692	1504	752	627	376
						17	28.29	1146	1019	509	424	255
						21	23.14	937	833	417	347	208
450	1360	N/A	N/A	3	1 x 3	7.4	75.33	3051	2712	1356	1130	678
						9	63.52	2572	2287	1143	953	572
						11	52.92	2143	1905	952	794	476
						17	35.85	1452	1290	645	538	323
						21	29.27	1185	1054	527	439	263
450	905	N/A	N/A	2	1 x 2	7.4	75.33	2034	1808	904	753	452
						9	63.52	1715	1524	762	635	381
						11	52.92	1429	1270	635	529	317
						17	35.85	968	860	430	358	215
						21	29.27	790	702	351	293	176
500	1005	N/A	N/A	2	1 x 2	11	65.29	1763	1567	784	653	392
						17	44.29	1196	1063	531	443	266
						21	36.11	975	867	433	361	217
500	1510	N/A	N/A	3	1 x 3	11	65.29	2644	2350	1174	979	588
						17	44.29	1794	1594	797	664	399
						21	36.11	1462	1300	650	542	325
560	1125	N/A	N/A	2	1 x 2	11	81.8	1104	982	491	409	245
						17	55.48	749	666	333	277	166
						21	45.19	610	542	271	226	136
630	1265	N/A	N/A	2	1 x 2	11	103.64	1399	1244	622	518	311
						17	70.27	949	843	422	351	211

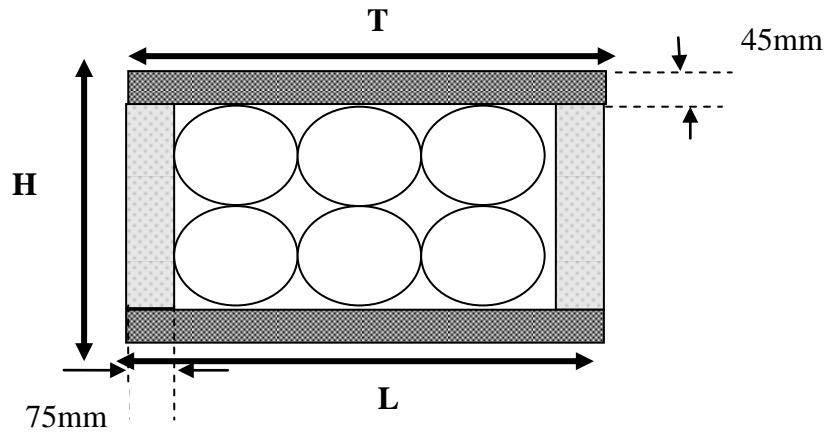
**INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION
OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS"
POLYETHYLENE PIPE**

Diameters 315mm and above; SDR 26/33/41

**When packing 3/5 metre plus lengths, please ensure a central timber is used to
ensure no sag.**

For spacing of scallops refer to the stillage section.

Do not nest pipe (see below)



PIPE	DIM	DIM:	DIM:	QTY PER PACK	ROWS PER PACK	SDR	Average Weight (Kg/m) Based on PE100	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
DIAM	mm	mm	mm					KG	KG	KG	KG	KG
mm	L	H	T					13.5 METRE	12 METRE	6 METRE	5 METRE	3 METRE
315	1101	634	1101	6	1X3 1X3	26	11.7	948	842	421	351	211
						33	9.44	765	680	340	283	170
						41	7.56	612	544	272	227	136
355	1222	714	1222	6	1X3 1X3	26	14.78	1197	1064	532	443	266
						33	11.95	968	860	430	359	215
						41	9.62	779	693	346	289	173
400	1357	405	1357	3	1X3	26	18.74	759	675	337	281	169
						33	15.21	616	548	274	228	137
						41	12.19	494	439	219	183	110
450	1508	455	1508	3	1X3	26	23.7	960	853	427	356	213
						33	19.16	776	690	345	287	172
						41	15.38	623	554	277	231	138
500	1659	505	1659	3	1X3	26	36.11	1462	1300	650	542	325
						33	29.23	1184	1052	526	438	263
						41	23.63	957	851	425	354	213

STORAGE OF PIPE

Packs of pipe are to be stored on clear level ground; timbers or other adequate methods of support must be in contact with the packing timber battens. The pipe should never come into contact with any sharp edges.

In the interest of health and safety, packs of pipe to be stacked at a maximum of three high.

INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS" POLYETHYLENE PIPE

PIPE STORED OUTSIDE

Black and blue polyethylene pipe grade material contains pigments and stabilisers to provide resistance against UV degradation however prolonged exposure to sunlight or high UV levels should be avoided by storage in the shade or under covers (opaque sheets or tarpaulins).

WHEN STORING POLYETHYLENE PIPE

Do's

- Store pipes on flat, firm ground capable to withstand the weight of pipes and lifting vehicles
- Use adequate rated lifting slings (Notably nylon or polypropylene)
- When handling pipes in wet or frosty conditions, extra care must be exercised as they may be slippery
- Any protective packaging or packing materials are not to be removed until the pipe is required for use
- Pipes not to be exposed to excessive heat except when jointing
- Pipes may bend or deflect when loading/unloading, keep this to a minimum

Don'ts

- Drag or roll pipes or bundles
- Drop pipes from vehicles
- Never use metal slings, hooks or chains when handling pipes
- Never place pipes in areas where contact with lubricating or hydraulic oils, hydrocarbons, and solvents or in deed any other aggressive materials is possible
-

PRE- INSTALLATION CHECKS

- Always inspect pipe for damage
- If end caps are fitted, check they are all in place ensuring none have been pushed inside the bore of the pipe
- If end caps are not fitted, inspect the pipe bore for any foreign bodies that may be present
- Inspect the outside of the pipe for any damage

JOINTING METHODS

- Mechanical

Follow the Fitting manufacturer's instructions. If there is any doubt the manufacturer of the fitting should be contacted. Similarly the manufacturer's recommendations on installing the fitting, including any limitations on torque to be applied in tightening the fitting, should be followed at all times.

- Electro Fusion with Electrofusion Fittings
- Butt Fusion

Follow manufacturer's instructions in conjunction with the Water Industry Specification **WIS 4-32-08 – 'Fusion jointing of Polyethylene Pressure Pipeline Systems using PE80 & PE100 materials'**

COMMISSIONING PROCEDURE

Following successful pressure testing, all new mains, lined or re-furbished, should be commissioned in the following manner and in accordance with any local requirements:

- Cleaning and/or swabbing of the main
- Filling and sterilization
- Flushing and/or neutralization

INSTRUCTIONS FOR THE CORRECT APPLICATION AND OPERATION OF PEAK PIPE SYSTEMS LIMITED, 'PEAK PIPE SYSTEMS" POLYETHYLENE PIPE

- Refilling the main
- Bacteriological sampling
- Acceptance certification
- Introduction of the main into service
- It is recommended that installation personnel have a National Water Hygiene Card

HEALTH and SAFETY

Polyethylene pipe has been installed and used in many industries for a considerable number of years in a safe manner. It is essential that good working practices are adhered to, to ensure a safe working environment.

All polyethylene pipes should be handled and processed in accordance with the British Plastics Federation Guidelines.

Polyethylene pipe systems may contain trace quantities of process residues and may also contain other materials such as pigments, antioxidants and UV stabilisers. Chemically unreactive polyethylene is regarded as being biologically inert though some pipe materials may contain low levels of additives which may be toxic.

INGESTION

Ingestion of polyethylene should always be avoided. Some pipe materials may contain additives that are harmful if swallowed.

INHALATION

Polyethylene does not release harmful fumes at normal ambient temperatures. Inhalation of polyethylene dust can irritate the respiratory system and where cutting or scraping, operations should be carried out in well ventilated areas.

PHYSICAL

Polyethylene is not considered to be a skin irritant. However when cutting or scraping dust particles will be generated which may cause eye irritation. Suitable eye protection should be used.

FIRE

Polyethylene will melt at 110-140°C and ignite above 300°C and produce carbon dioxide, carbon monoxide water and small amounts of various hydrocarbons and aldehydes.

These gases may ignite and provide heat to accelerate the process.

Burning molten droplets of material may be released which could ignite adjacent materials.

Combustion of polyethylene may release toxic materials, avoid inhalation of smoke or fumes. Also do not allow polyethylene to accumulate, as there may be a risk in certain circumstances of dust explosion. Always consider the appropriate siting of potential heat sources such as electrical equipment.

In the event of fire, any fire extinguisher may be used. Powder extinguishers are very effective in quenching flames.

Water sprays are also effective in rapidly cooling and damping down fire but are not recommended as they enhance the spread of the fire.

DISPOSAL OF PE PIPE

Peak Pipe Systems pipe can be recycled.