

Excellent Construction Products



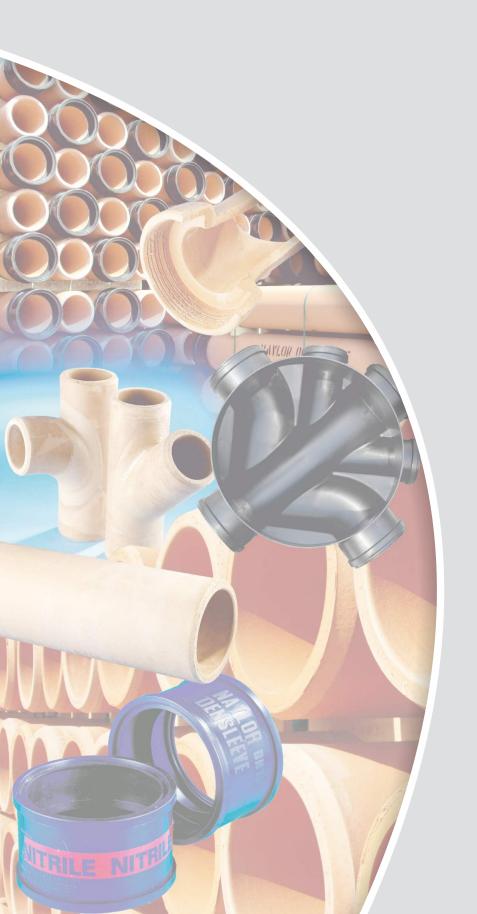
Clay Drainage

Vitrified Clay Drainage Systems

email: claysales@naylor.co.uk web: www.naylor.co.uk



Clay Drainage



Index of Products

Introduction	02
Densleeve	03
Channels	09
Sitework Instructions	12
Jointing	14
Testing	16















Naylor Drainage

Vitrified Clay Drainage Handbook

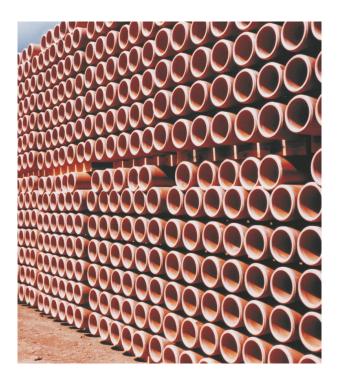
This handbook has been prepared to assist in the specification of Naylor Drainage products. Should any further information be required please contact our sales team on 01226 794077, 01226 794018, 01226 794056 or by email to claysales@naylor.co.uk

For any export enquiries please contact our export sales team on 01226 794018, 01226 794056 or by email to export@naylor.co.uk





Densleeve



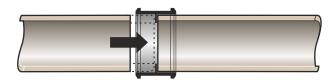
Description

Clayware

Vitrified clay plain-end pipes and fittings, manufactured in accordance with the requirements of BS EN295-1. The standard lengths of pipes are convenient for handling and laying and allow for flexible joints at sufficiently frequent intervals to enable the pipeline to withstand settlement or other ground movement after installation.

Sleeve Couplings

Manufactured in high impact polypropylene with elastomeric seals providing watertight, flexible mechanical joint assemblies, complying with BS EN295-1: System G.



Standard Coupling Seals

These are manufactured from elastomers conforming to the performance requirements of BS EN681-1. EPDM seals supplied as standard; Nitrile seals are also available for use in contaminated ground.

Joint Performance

Densleeve joint assemblies meet all the requirements of BS EN295-1. They accept angular deflection and shear resistance without leakage, when tested under an internal or external water pressure of 50kPa (5 metres head).

The Naylor Densleeve underground drainage system of plain-end vitrified clay pipes and fittings with flexible sleeve couplings, was developed for building drainage and associated sewerage and is all manufactured to comply with the stringent requirements of BS EN295.

Densleeve is available in diameters DN100, 150, 225 and 300; in addition DN200 and 250 are manufactured for key export markets.

Aggressive Environments

The standard Densleeve pipes, polypropylene couplings and elastomeric sealing rings are resistant to attack from substances which are commonly encountered in sewers.

Where more aggressive effluents or environments are present, other types of coupling seals may be required. Alternatively, Naylor has a separate division, Thermachem, which manufactures chemical drainage - ceramic pipes for exceptional high temperature or chemically aggressive environments.

Specification

The following statement is a suitable clause for inclusion in contract specification.

Pipes and Fittings

Vitrified clay plain-end pipes & fittings with flexible polypropylene coupling joints, all to BS EN295-1: System G. (Densleeve type as manufactured by Naylor Drainage Ltd, Clough Green, Cawthorne, Barnsley, S75 4AD, England).

Availability

Densleeve is available from Naylor Merchant Stockists.



Densleeve

Structural Performance

Densleeve pipes can usually be laid directly on a hand trimmed natural trench bottom with selected, excavated materials (Class D Bedding) used as backfill.

Crushing Strengths

BS EN295-1 includes a variety of crushing strengths for each nominal size of pipe as it takes into account the strength requirements in various parts of Europe. As it is impracticable for any single manufacturer to offer pipes and fittings in the full range of strengths, Naylor has standardised on the strengths shown in the table below.

Densleeve Pipes

The pipe lengths detailed below are standard at the time of publication but may vary due to changes in manufacturing facilities.

Range

A full system is offered from DN100 to DN300 with an extensive range of fittings, including bends, junctions, tapers and access items, particularly suitable for building drainage applications.

Densleeve can be used in conjunction with other Naylor underground and with other above-ground systems. Connections are made by using purpose-made connectors and adaptors or by the use of Band-Seal couplings.

Pipe Trench Beddings

See the Naylor Drainage Design Handbook for the depths of cover between which Naylor Densleeve pipes conforming to BS EN295-1 can be laid in any width of trench.

Advantages

It is a major advantage of the Densleeve system that plain-end pipes can be quickly and easily cut to intermediate lengths on site and can still be jointed using normal couplings. This feature retains the ease in jointing, reduces wastage and damage and is particularly cost effective.

Flexibility

The flexible joints ensure that the pipeline will accommodate minor settlement and ground movement without failure.

Strength

Vitrified clay pipes and fittings are rigid and do not distort under loading. Their high inherent strength ensures stability even at extreme depths of cover.

Bedding Economy

Densleeve pipes can often be laid on the natural, trimmed trench bottom or where not possible on a 50mm bed of inexpensive granular material such as recycled aggregates. As dug material can be used for the backfill, all resulting in significant savings in granular bedding materials.

Chemical and Temperature Resistance

The Densleeve system has good corrosion resistance and can accommodate thermal shock of up to 70°. For more extreme operational conditions, the Thermachem range of chemical drainage is available; see separate brochure.

Durability

The Densleeve system is extremely durable. For design purposes, a vitrified clay pipeline can be considered to have unlimited life.

Water Jetting

The Densleeve system, when installed in general accordance with the Naylor Sitework Instructions Booklet is guaranteed for the lifetime of the system against penetration of the pipe wall caused by high pressure water jetting when operated within the following maximum parameters.

- Pressure 7500psi (510 bar)
- Flow rate 20gals/min (1.5ltrs/sec)
- Time Static for 5 minutes

Quick Installation

Pipe jointing is a straightforward manual push fit operation. Testing and backfilling can start immediately.

Pipe Lengths and Delivery

Naylor Pipes are supplied in easy-to-handle lengths. They are delivered in convenient packs with optional mechanical offloading equipment available on the delivery vehicle.

Easy Cutting

Where shorter lengths of pipe are required, pipes may be easily cut on site.

Typical Pipe OD's and weights

Pipe Diameter	Pipe OD mm	Min. Crushing Strength kN/m	Approx. Weight Kg	Bending Moment Resistance (kN/m)	Max. deviation from straightness (mm/m)
DN100	131+/-2	34	21	1.7	5
DN150	188+/-2.75	40	40	4.6	4.5
DN225	278+/-4	45	79	9.0	4
DN300	380+/-4	72	198	‡	4

‡Contact Naylor for information. Weights and dimensions are correct to Naylor Specifications at time of printing



Densleeve Pipes and Fittings

DN100, 150, 225 & 300 plain-end vitrified clay sewer pipes and fittings with sleeve joints, plus DN200 and 250 for overseas markets, to BS EN295.

15% of our Clayware products are made from recycled material.

Pipes & Bends

	Pipes		
	DN	CODE	L
	100	17036	1.75M
The second second	150	17022	1.75M
	200*	17018	1.75M
L	225**	22003	1.75M
	250*	17019	1.75M
	300**	22005	2.00M

	Rocker Pi	pes	
	DN	CODE	L
	150	17016	0.6M
	225	17012	0.6M
	300	17004	0.6M
- /			

Bends (90°)

G	R	
		0
-	G THE STATE OF THE	

R	DN	CODE	L	R
	100	19001	190	150
	150	19002	230	200
	200*	19003	250	250
4	225	19004	310	250
(3)	250*	19303	310	300
	300	19005	360	300
	(45°)			
	DN	CODE	L	R
	100	19007	190	375
	150	19008	230	450
	200*	19009	250	600
	225	19010	310	600
	250*	19301	310	600
	300	19011	310	600
	(22½°)			
	DN	CODE	L	R
	100	19016	150	750
	150	19017	180	900
	200*	19018	250	1200
	225	19019	250	1200
	250*	19299	250	1200
	300	19020	250	1200
	(1111/4°)			
	DN	CODE	L	R
	100	19021	120	1200
	150	19022	175	1750
	200*	19023	245	2400
	225	19024	245	2400
	250*	19298	245	2400
	300	19025	245	2400

Bends

	Rest E	Bend		
L '→	DN	CODE	L	R
L	100	19029	250	220
	150	19030	270	250
B	225	19031	310	250
	300	19032	360	300

These radiuses do not apply to fabricated products

Junctions

	Oblique ((45°)			
	DN	CODE	L1	L2	L3
	100x100	19035	380	250	240
12	150x100	19036	450	330	300
11 13	150x150	19037	450	330	350
	225x100	19043	500	380	375
	225x150	19044	500	360	420
	225x225	19045	700	530	500
	300x100	19046	500	360	420
	300x150	19048	600	480	490
	300x225	19050	750	530	550
	300x300	19051	900	600	615
	Curved S	quare (90°)		
	DN	CODE	L1	L2	L3
	100x100	19067	380	145	180
	150x100	19068	450	225	180
	150x150	19069	450	185	225
	225x100	19074	500	175	275
	225x150	19075	600	220	290
	225x225	19076	700	290	300
	300x100	19077	500	200	300
	300x150	19078	600	240	320
	300x225	19079	750	330	370
	300x300	19080	900	350	550

Also available 200x150, 200x200, 250x150, 250x200, 250x250, 300x200, 300x250

Tapers



^{*}Additional Overseas sizes. $\,$ 15°, 30° and 60° Bends also available ** Supplied with coupling

Densleeve Fittings

Saddles

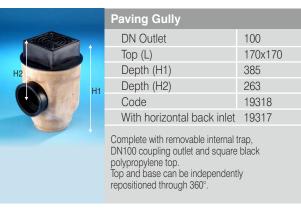
	Oblique (45°)			
DN	DN	DN Main	CODE	
		Small (up to 200)	19087	
	100	Med. (up to 400)	19091	
		Large (over 400)	19093	
s antis	150	Med. (up to 400)	19099	
	150	Large (over 400)	19101	
	225	Med. (up to 400)	19106	
		Large (over 400)	19108	

Saddles

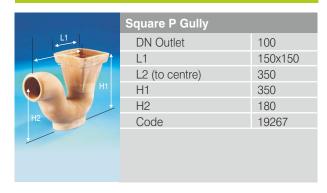
	Square		
DN	DN	DN Main	CODE
		Small (up to 200)	19111
	100	Med. (up to 400)	19115
		Large (over 400)	19117
e una e	150	Med. (up to 400)	19123
		Large (over 400)	19125
	225	Med. (up to 400)	19130
		Large (over 400)	19132

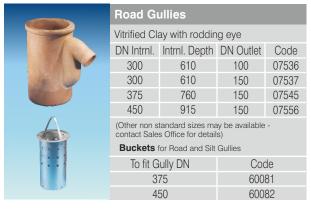
Gullies



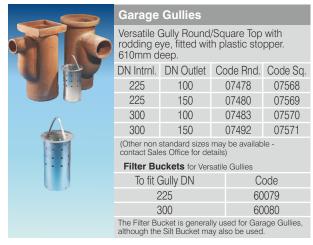


Gullies









Densleeve Fittings

Hoppers



Square			
DN	CODE	L	Н
100	19204	150	285

المل	
H2	
112	H1

Horizontal 100mm Inlet					
DN	CODE	L	H1	H2	
100	19206	150	285	160	

Raising Piece

	Standard Raising Piece		
	Н	CODE	
	75	07366	
NT E	150	07367	
	225	07368	
	300	07370	
	For 150mm Square Hoppers		

Dished Tops



Square Dished Top						
GRATE SIZE	L	W	D	CODE		
125	245	245	100	07383		
178	305	305	100	07385		
For Outlet 100 & 150						

Low Back Trap



P Out	let 921/2°			
DN	CODE	L	H1	H2
100	19200	350	295	240
150	19201	450	400	320

Grates for P Gully and Hoppers

Grates, Plates & Sealing Frames					
Product	Fig. No.	CODE	SIZE		
Loose Grate:	410	60026	152x152		
Hinged Locking Grate & Frame:	414	60048	152x152		
Sealing Plate & Frame:	400	60011	152x152		

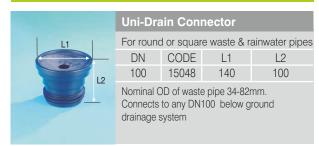
Couplings and Connectors

	Couplings				
	EPDM Seals as standard Nitrile also available				
L1	DN	CODE	L1	L2	
12	100	20008	155	90	
	150	20010	220	120	
,_	225	20013	320	155	
	250*	20028	350	155	
	300	20015	410	190	

*Additional Overseas size.

Made from 100% recycled polypropylene.

Couplings and Connectors



Made from 100% recycled polypropylene.



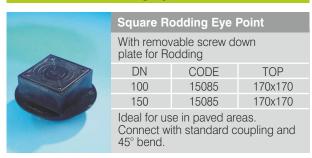
Made from 100% recycled polypropylene.

	Stoppe	'S			
L2	Polypropylene				
	DN	CODE	L1	L2	
L1	100	15009	160	45	
	150	15010	218	60	
_	225	15012	317	80	
	300	19133	410	95	

Made from 100% recycled polypropylene.

Densleeve Fittings

Access and Rodding Eye Points

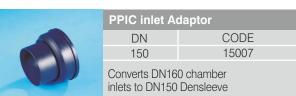


Non Man Entry Inspection Chamber





	Base Unit	
	DN	CODE
	450	15060
	2x90° 100mm ric	main channel with 2x45° and ht/left hand branch entries. ete with sealing ring for

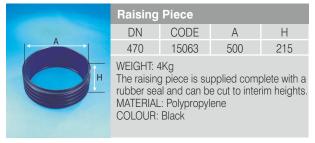


Access and Rodding Eye Points

	Rodding	g Eye Poir	nt		
	Aluminium oval pattern connects with DN100 Standard Coupling DN150 DC15 Connector With removable plate for Rodding				
	DN CODE L TOP				
LI	100	135	205x150		
	150	19034	180	270x200	

Plastic Inspection Chambers

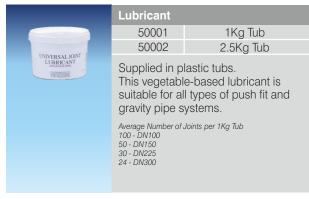






PPIC inlet A	daptor		
DN	CODE		
100	15072		
Converts DN110 chamber inlets to DN100 Densleeve			

Sitework Equipment



NB: Measurements are only as a guideline

Channels

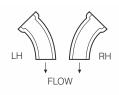
The Naylor range of butt and socketed Channel Pipes and Fittings are manufactured in accordance with BS EN295-1 or BS65 for the construction of manholes or open channel surface water drains.

Description

All Channel Pipes and Fittings, with the exception of the $\,^3\!\!/$ section branch bends used for manhole construction are cut from standard Densleeve or Denseal pipes detailed on previous pages.

Left and Right Handed Fittings

It is important that the correct hand of channel fittings are specified when ordering. The 'hand' of the channel is determined by looking upstream against the flow.



Specification

The following statement is a suitable clause for inclusion in contract specification.

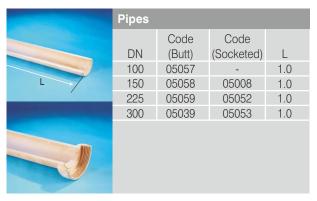
Channel Pipes and Fittings

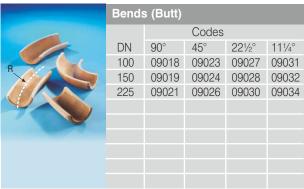
Vitrified clay pipes and fittings to BS EN295-1 or BS65. (Channel pipes and fittings as manufactured by Naylor Drainage Ltd. Clough Green, Cawthorne, Barnsley, S75 4AD, England).

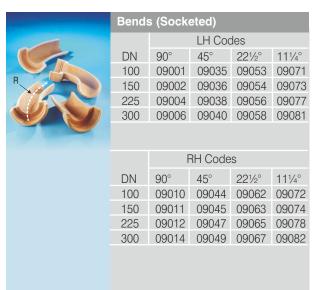


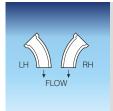
Channels Pipes and Fittings

Pipes & Bends



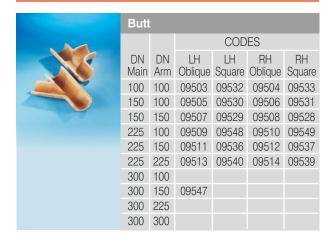




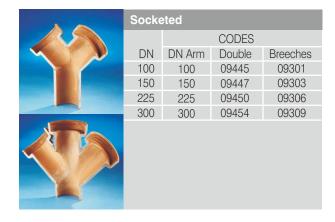


A channel is a LEFT HAND fitting when viewed from the spigot towards socket (ie. Against the direction of flow), the socket projects to the LEFT. Similarly when the socket projects to the RIGHT the channel is a RIGHT HAND fitting

Junctions

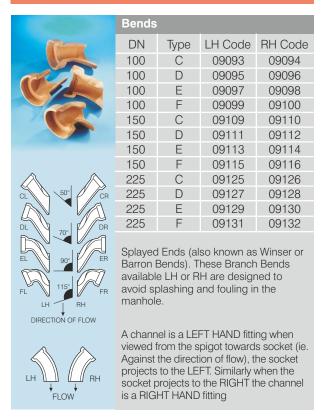


	Socketed					
, RL				COD	ES	
	DN Main	DN Arm	LH Oblique	LH Square	RH Oblique	RH Square
	100	100	09319	09402	09320	09403
	150	100	09321	09404	09322	09405
	150	150	09323	09406	09324	09407
	225	100	09325	09408	09326	09409
	225	150	09327	09410	09328	09411
	225	225	09329	09412	09330	09413
	300	100	09331	09414	09332	09415
	300	150	09333	09416	09334	09417
	300	225	09335	09418	09336	09419
	300	300	09337	09420	09338	09421



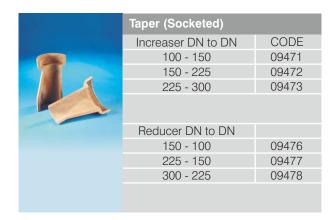
Channels Fittings

Bends



Tapers

Taper (Butt)	
DN to DN	CODE
100 - 150	09527
150 - 225	09538
225 - 300	09544



Manhole Interceptors

Manhole interceptors eliminate odours into the manhole from the downstream sewer. They also facilitate ease of rodding.

	Winser or Dublin		
9	DN	Code	
	100	09481	
	150	09482	
	225	09483	
	300	09484	
Winser/	Kenon		
Dublin	DN	Code	
	100	09487	
\preceq	150	09488	
FLOW	225	09489	
Kenon	300	09490	
	Reverse Action		
	DN	Code	
FLOW Reverse	100	09493	
Action	150	09495	
FLOW	Interceptors supplied with 100mm Stoppers unless otherwise requested. Alternatives are: Black Sealing Plate and Frame, Lever Locking Stopper.		

Sitework Instructions









Unloading

Access to site must be over a hard road capable of supporting a fully laden vehicle. The delivery vehicle must be parked on firm, flat ground. Naylor pipes are delivered to site in packs weighing between 1 and 1.9 tonnes. Fittings are usually supplied in crates. Any loose fittings should be removed by hand from the delivery vehicle before other goods are unloaded.

There is usually a choice between:

1 Use of Naylor Moffatt self-loading vehicle

If you require this service, please request when making delivery arrangements.

The Moffatt is detached from the trailer-load and is operated as a fork-lift to unload the packs and crates. For this purpose, approx. 10 metres of firm level ground space is required along each side of the trailer. If conditions allow, packs may be placed around the site in order to reduce subsequently handling.

2 Using site equipment to unload - (This is the responsibility of the Contractor.)

The packs and crates must be offloaded by suitable equipment aligned with the latest health and safety regulations.

3 Hand offloading by site personnel

Check that the pack is stable and that the pipes and packing woods are undamaged before cutting the straps and manually unloading.

Stacking

1 Pipes delivered in packs

Set the packs down on a firm and level surface.

2 Storage of loose pipes

Rest the bottom row of pipes on battens to keep them clear of the ground and stake the end pipes in order to prevent movement of the stack.

3 Sleeve couplings and lubricant

Store indoors in a clean area, away from sunlight. Extremes of temperature must be avoided. Winter conditions, in particular, can affect the ability to make a joint if items have been left outdoors.



Sitework Instructions

Trench Excavation

There should be at least 150mm width of trench on each side of the pipe barrel, in order to provide sufficient space for jointing and proper compaction of the bedding and fill materials.

It is not good practice to excavate a trench too far in advance of pipe-laying.

Do not exceed the specified maximum trench width without prior approval of the supervising authority, because the trench width affects the loading on the pipeline.

When trenches are battered, the maximum allowable trench width must not be exceeded below a point 300mm above the crown of the pipes.

Always provide adequate support to the trenches, for the protection of workmen and to prevent damage to adjacent property. The attention of all site personnel should be drawn to the requirements of the Health & Safety Executive.

Ref. BS8000: Workmanship on Building Sites Pt.14: Below Ground Drainage. CIRIA* R97 Trenching Practice.

Pipe Laying

Line & Level

The correct pipeline alignment and gradient are indicated by laser equipment or by using a taut string line and sight rails

Pipe manufacturing tolerances need to be taken into account when assessing line and level. For guidance in setting out see CIRIA* publication 'A Manual of Setting Out Procedures'.

Procedure

Class D, N, F, B & S Beddings

Compact the bed to the correct level. Commence pipelaying from the lower end of the line. Lay pipes with their couplings facing upstream. Take care to achieve continuous bedding support. If it is necessary to raise a pipe to the correct level, the pipe should be removed and additional bedding material compacted along the full barrel length - prior to relaying.

Concrete Beddings

Blind the trench bottom with a 50mm thick layer of concrete. Place concrete support blocks on the trench blinding, immediately downstream of each pipe coupling position. Place a compressible board on top of each block and lay the pipes on these. Fine adjustments of the pipe levels can be achieved by using wedges fixed between the pipe barrels and the blocks. To maintain flexibility at joints, fix compressible boards immediately upstream of couplings at the specified intervals along the length of the pipeline. Brace the pipes to prevent any tendency to float when the concrete surround is placed and vibrated.

Inspect & Clean Pipes & Jointing Components

Before laying, check the pipes and fittings to ensure that they have not suffered damage. Make sure that the pipe ends, jointing components and lubricant are clean and free from grit, before attempting to make joints.

The specification; design and construction of drainage and sewerage systems using vitrified clay pipes booklet published by CPDA give additional guidelines when laying pipes in a wide range of difficult ground conditions.

^{*} Construction Industry Research and Information Association

Jointing

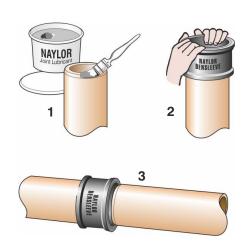
Prior to Jointing

- · Check the pipes and fittings to ensure that they have not suffered damage.
- Ensure that the pipe ends, jointing components and lubricant are clean and free from grit, before attempting to make joints.

Densleeve Pipes & Fittings

DN100 and DN150 assemblies

- Stand the pipe upright on a firm clean base (a 600mm piece of wood is ideal) and lubricate the top end of the pipe paying particular attention to the chamfered leadin portion.
- 2 Push the sleeve coupling over the lubricated chamfered end of the pipe and ensure that the pipe end is firmly located against the central register of the coupling. The end of any fitting may be pushed into the sleeve coupling - the reverse of the procedure adopted for pipes.
- 3 Ensure that the sleeve coupling on the previously laid pipe is thoroughly cleaned and free from grit or small stones from the bedding material.
- 4 Lower new pipe into trench and check, clean and lubricate the free end. Place the pipe end into the mouth of the previously laid coupling and align the pipe along the central axis of the pipeline. Apply a horizontal forward pressure, in combination with a small side to side movement, and push the pipe home into the sleeve coupling.



Densleeve Pipes & Fittings

DN200 and above

- 1 Lower the pipe into the trench using slings and set in position on the prepared bedding. Form coupling recess in the bedding.
- 2 Lubricate the pipe end to be jointed. Centralise a sleeve coupling to the pipe end and push home. A bar may be used against a timber block.
- 3 Lower the next pipe into the trench and lubricate the end to be jointed, Ensure that the coupling on the

previously laid pipe is thoroughly clean and free from grit or stones. Centralise the pipe and push fully home into the coupling.

A bar may be used against a timber block. Ensure coupling recess is filled with bedding material after making the joint.

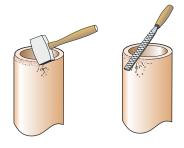


Jointing

Cut Pipes can be jointed by similar means

All Naylor pipes can easily be cut to accurate length with a disc blade power tool (safety precautions such as goggles, dust mask, etc should be worn).

It is essential that sharp edges are removed from cut pipes to provide a satisfactory 'lead-in' for the rubber seals on sleeve couplings. This can be achieved by rasping, using a trimming tool or a light hammer.



Testing

Testing the pipeline for water tightness

When laying Naylor Densleeve pipes, it may be convenient to check that all is in order by applying interim air tests to progressive lengths of pipeline as work proceeds.

Once a pipeline has been laid an air or water test may be carried out in accordance with BS EN1610, as detailed below.

Air Test

- 1 Fix air-tight stoppers at the ends of the pipeline, after checking that they are clean and well-fitting. Connect a manometer to one of the stoppers.
- 2 Blow or pump air into the pipeline until a pressure slightly more than the required air test pressure is indicated on the manometer. After allowing 5 minutes for the temperature to stabilise, adjust to the required pressure and commence the test.
- 3 (a) If the measured drop is less than the allowable drop then the test is passed (see table).

Note: The test pressure LA is the same as that previously used in the UK except that the test period is increased for sizes above DN225, as shown.

ı	Test Pressure mbar (kPa)			Allowable Drop mbar (kPa)	
	LA	10 (1)		2.5 (0.25)	
	Test peri	od in minut	tes		
1	DN100	DN200	DN300	DN400	DN600
	5	5	7	10	14

(b) If the measured drop exceeds the allowable loss, carefully check the testing apparatus and stoppers and examine the pipes and joints for leakage. If a defect is discovered, remedy it and re-test.

If this test does not reveal a defect, apply a water test.

The above standards do not regard an air test alone as sufficient grounds for rejection and it is recommended that a water test should be applied in the event of apparent failure to meet the air test. An apparent failure of air test can be due to causes other than defects in the pipeline; for example, changes in ambient temperature.

Water Test

1 At the upstream end of the pipeline to be tested, add a 90° bend and sufficient vertical pipes to provide the required head of water. BS EN1610 requires a minimum 1.0m (10kPa) head of water at the high end with a maximum of 5m (50kPa) at the lower end. Both heads above the pipe crown. In cases of very steep gradients, it may be necessary to test the pipe in stages, in order to comply with these limitations.

- Tighten stoppers at the lower end of the pipeline and at open branches, after checking that they are clean and well-fitting.
- 3. Strut the ends of the pipeline and the 90° bend to prevent movement and then fill the line with water.
- 4 Inspect the pipeline for any obvious leaks and remedy any defects. There will be an initial fall of the water level due to absorption and the displacement of trapped air.
- After at least one hour, top up to the maximum test head, a longer period may be allowed in extremely dry conditions. The loss of water over a period of 30 minutes should then be measured by adding water from a measuring vessel at regular intervals of 10 minutes and noting the quantity required to maintain the original water level. The test is accepted if the water added does not exceed 0.15l/m² of internal wetted area over a 30 minute period, for pipelines. Higher limits are set for pipelines including manholes and inspection chambers.

Further information

See BS EN1610 and the Clay Pipe Development Association Ltd booklets Specification, Design and Construction and Testing of Drains & Sewers (Water & Air Tests).

Backfilling

Any selected or granular fill must be carefully handcompacted in layers not exceeding 150mm to complete the pipeline surround. Place and compact this fill equally on both sides of the pipeline to prevent displacement.

Slice with a spade around the barrels to form a cradle for the pipes. This work is important, as the pipeline derives some of its strength from a properly constructed bedding.

The trench must be backfilled to at least 300mm above the crown of the pipes before any power-ramming takes place. Backfill should then be well-compacted in layers not exceeding 300mm.

As backfilling proceeds withdraw timber and trench sheeting in stages to avoid disturbing the pipeline or the creation of voids within the bedding and surround.

Site Traffic

Site traffic should not pass over buried pipelines before backfilling has been completed and the final surface constructed.

Overloading by unavoidable site traffic can be prevented by bridging the trench with steel plates, timber sleepers or other temporary protection.





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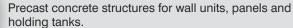
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