

Clay Pipe Cutting Guidance



This guide will help you to improve your pipe cutting technique according to the pipe diameter you are using. Appropriate selection will make installation quicker and easier on site. Unnecessary pipe cutting can be avoided by the use of standard short length pipes at 0.3,

0.6 and 1.0m. These can be used to adjust the pipeline length at manhole and junction positions. Where cutting is necessary, chain cutters, diamond tipped and carborundum masonry saw blades can be used as advised below.

Product Selector SuperSleve

Short Length	Description	Dia. (mm)	Code	Accessories	Description	Dia. (mm)	Code	Accessories	Description	Dia. (mm)	Code
	Plain End Length 0.3m	100	SP030/1		Pipe Cutter Lever	100	MPC1		Lubricant	Pack Qty	SL1
		150	SP030/2			100\150	MPC2				
		225	SP030/5								
		300	SP030/7								
	Plain End Length 0.6m	100	SP060/1		Pipe Trimmer	100/	MPT1		High Performance Jointing Lubricant Recommended for Nitrile seals, cold and/ or wet weather	1 kilo	SL1C
		150	SP060/2			150					
		225	SP060/5								
		300	SP060/7								
	Plain End Length 1.0m	100	SP100/1		Diamond Tipped Blade For use with Powered Masonry Saw	300	DTB1				
		150	SP100/2				DTB2				
		225	SP100/5								
		300	SP100/7								
	Short Length Length 0.3m	225	SP030/5S								
		300	SP030/7S								
	Short Length Length 0.6m	225	SP060/5S								
		300	SP060/7S								
	Short Length Length 1.0m	225	SP100/5S								
		300	SP100/7S								

Product Data

Recommended Method of Pipe Cutting by Diameter

Diameter	Highly Recommended → Satisfactory			
	1	2	3	4
100mm	Pipe Cutter Code: MPC1	HepBlade Code: DTB1	Carborundum Blade	Short Lengths As Above
150mm	Pipe Cutter Code: MPC2	HepBlade Code: DTB1	Carborundum Blade	Short Lengths As Above
225mm	Short Lengths As Above	HepBlade Code: DTB1	Carborundum Blade	–
300mm	Short Lengths As Above	HepBlade Code: DTB1	Carborundum Blade	–

Sitework instructions

Health and Safety Information

To ensure your safety; We strongly advise the use of appropriate personal protective equipment (PPE). This should include the use of goggles or similar eye protection, ear protection, dust mask to FFP2 standard, gloves and safety footwear when using pipe cutters or powered masonry saws.

Further Health and Safety data is available in the form of a Material Safety Data sheet for Fired Clay Products. (Available from www.hepworthclay.co.uk).

Short Length Pipes

Pipe cutting can be minimised and installation time reduced by the use of standard short lengths. They are primarily for use at manhole positions as rocker pipes or to adjust the pipeline length at manhole or junction positions. Short lengths are accurately machine cut with diamond tipped blades to ensure a square end. The ends are chamfered externally to assist jointing and rounded internally for hydraulic efficiency. Plain end short lengths are the same list price per metre as the full length pipes.



Lever Action Chain Cutter

There are two models of lever cutter available; the MPC1 is recommended for the cutting of 100mm diameter pipes only. The MPC2 is recommended for both 100mm and 150mm diameters.

When using a lever action chain cutter the following procedure should be observed:

- Pass the chain under the pipe, aligning the cutting wheels with the desired cut line on the pipe
- Hook the chain onto the jaw of the pipe cutter
- Tighten the chain, by pulling arms of cutter together
- Make a final check for alignment of chain with the pipe, then continue to tension chain until the pipe cuts
- After cutting with the chain cutter any sharp edges left on the cut pipe will require trimming with the pipe trimmer (product code MPT1) for 100mm or 150mm diameter pipes. For larger diameters an emery stone should be used.

Powered Masonry Saw

This method can be used to cut any size of pipe. The blade type can be either carborundum or diamond tipped, the most efficient and best quality cut will be achieved by using the HepBlade, which has been specially designed for cutting ceramic products. A continuous rim of electroplated diamond particles cuts clean and vibration free, producing a high quality of cut. Speed of cut is assisted by a perforated body, which allows for extra cooling during the cutting process. A carborundum blade will produce an acceptable cut, but the speed of cut will be slower and life of blade shorter.

When using a powered masonry saw a safe system of work should be followed:

- Before any pipe cutting operation is started, read and adhere to the safety and operating instructions of both the masonry saw and the blade manufacturer
- Check that the masonry saw is fitted with the correct specification of blade
- Make a clear mark around the circumference of the pipe at the desired length
- The pipe being cut should be positioned in a horizontal and stable position
- Care should be taken to support and secure both halves of the pipe being created by the cut, to avoid the blade being nipped as the pipe separates
- With the correct personal protective equipment in place commence the cut; the best quality cut is generally achieved by making one continuous cut, rotating the pipe
- Any sharp edges may require trimming with an emery stone