C1/SfB | (52.5) | lh1 | March 2012

TRADITIONAL EXPRESS

Hargreaves
RAINWATER • SOIL • DRAINAGE

Cast iron push fit soil systems

The Traditional Express system from Hargreaves Foundry is a cast iron push-fit soil system replicating the appearance of a traditional caulked lead jointed system. The sockets are manufactured to fit 100mm pipes and fittings. Traditional Express is particularly suitable for listed buildings and conservation areas.

Introduction

Hargreaves Foundry's business is based on friendly, flexible and prompt service. We distribute through merchants to customers throughout the UK and Ireland. We also have the capability to distribute worldwide.

Hargreaves Foundry's UK operations and production are on one site. We have our own pattern making, foundry and fabrication facilities, which enables us to manufacture bespoke and special items to meet your requirements. Our dedicated team will manage your order throughout each stage of the process, ensuring quality standards and delivery deadlines are met in full.

We have invested significantly in warehousing and stock so that we can deliver complete orders on time and within deadlines agreed by customers.

Our technical sales staff are able to visit your site or office and can provide advice, information and quotes to specifiers, contractors and end users.

Our sales office is open between 8:00am and 5:00pm Monday to Thursday and 8:00am to 4:00pm on Friday. All telephone calls are answered promptly and personally.

Features

- Push-fit sockets fitted with 2 EPDM rubber sealing gaskets
- Sockets available in 3 versions: Eared, Plain and Slip Eared
- Pipes available in 1.8m lengths to match the appearance of BS416 Part 1

Applicable Standards

BS416 part 2: Soil, waste and ventilating pipes and fittings

BS EN 681-1: Synthetic rubber gaskets

Codes of Practice

BS EN 12056: Codes of practice for gravity drainage systems

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Materials

Pipes and fittings are manufactured in grey cast iron which exceeds the requirements of BS EN 1561 Grade EN-JL 1020, ISO 185 Grade 15.

All push fit sockets are supplied with EPDM rubber sealing rings which are suitable for most applications but where aggressive waste liquids are to be discharged please check with our technical department as to their suitability.

Coating

Pipes and fittings are factory coated with a two pack gloss paint finish, suitable for internal and external installations. All the pipes also have a yellow ochre two pack epoxy internal coating.

Benefits of Traditional Express

- Ease of use on site
- No special tools or equipment required for jointing
- Substantial savings in labour time for each joint
- Compatible with our Mech 416 comprehensive range of pipes and fittings
- Readily available through our distributor network
- Suitable for listed properties and conservation projects.

Benefits of Cast Iron

Cast iron is particularly well suited for all drainage systems as it offers many benefits, both for above and below ground installation, which include:

Strength and durability - cast iron is able to withstand the rigours of on site handling, mechanical de-blocking and vandalism and requires less embedment than other materials for below ground installations.

Long life - when correctly installed cast iron drainage systems will last the life of the building, whether domestic, public, industrial or commercial.

Low maintenance - cast iron requires little ongoing maintenance, annual inspections are recommended but remedial action is rarely required.

Design Capability - cast iron can meet the needs of restoration, refurbishment, conservation and heritage work as well as new, bespoke and unique designs.

Sustainability - in addition to lasting the life of a building and requiring minimal maintenance, cast iron is also 100% recyclable and can therefore be used again after the building has gone.

Cost effective - owing to its longevity, durability and low maintenance, coupled with its fire resistance and low noise operation, the cost benefits of cast iron are significant.

Fire resistance and Safety - The melting point of cast iron is considerably higher than PVCu or PE and in the event of a fire will not emit toxic fumes or drop burning globules of material from one compartment to another.

Traditional Express Soil System Pre-installation

Traditional Express sockets, both plain and eared are designed only for use with Traditional Express pipes and fittings.

Design of the soil stack should allow at least one eared socket on each fitting to enable the system to be anchored securely to the building.

Installation should proceed from bottom to top of the soil stack with typically a length of pipe, boss pipe or branch at the base of the stack. This first pipe/fitting should be connected to the underground drainage system to ensure a secure base and have an eared socket fitted to the top to ensure stability and security of the pipe work before proceeding further.

Subsequent pipes/fittings installed vertically above this point should incorporate at least one eared socket. On branch arms we suggest the use of a plain socket to provide the correct aesthetical appearance

The assembled joint is designed to be a tight fit to ensure compliance with a pressure test and long life performance.

Installation

In all assembly operations it is essential for the gasket and corresponding pipe / fitting area to be fully lubricated to enable insertion of pipe / fitting into a Traditional Express socket

1 To aid insertion of the components, immediately prior to assembling any joint, pre-relaxation of the rubber gasket is recommended. Apply a small amount of lubricant (TX0001) to the rubber gasket/s and insert the gasket relaxing tool (TX0002) into the joint. Slide the relaxing tool up and down over the gasket sealing face three or four times. The gasket will now be temporarily softer and enable easier assembly of the soil stack joint.
Caution. Do not over insert the relaxing tool past the rubber gasket.

2 Apply a small amount of lubricant (TX0001) to the rubber gaskets at both ends of the push-fit socket. This is necessary to ensure the insertion of pipes and fittings into the socket.

3 Push the socket over the end of pipe after lubricating both pipe and gasket ensuring pipe end is fully inserted and abutting central register in the socket.

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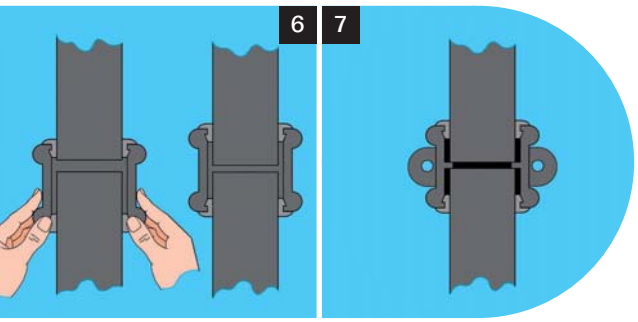
Health and Safety

Safety should be the first consideration when working on any building, especially at height. As with any drainage system our cast iron pipes must be fixed to sound material.

We recommend you follow the guidelines provided by the HSE for work on construction sites. (www.hse.gov.uk)



4 If the socket is eared, securely fix to wall using corrosion resistant coach screws (R0005) or similar.

5 Push the next pipe / fitting into the socket checking that it is fully inserted and abutting the central register. Repeat the above process on remaining joints until stack completed.

6 When cutting into an existing cast iron soil system, a slip socket with ears should be used (TX4016SE). This has no central register and allows the socket to be slipped onto the existing pipe up to the second gasket, before placing the new fitting in position.

7 Next slide the eared socket into the correct position where the respective gaskets make a seal on the pipe / fitting on either side of the joint.

Cutting

Pipes and fittings should be cut using a powered disc cutter always observing the manufacturers recommendation. There are three types of cutting tool;

- Powered disc cutter (the quickest and most popular)
- Tungsten tipped hacksaw
- Pipe wheel cutter

It is important to follow the manufacturer's health and safety precautions when using these tools.

Care should be taken when cutting to achieve a square, clean edged cut. Also when cutting is complete surfaces should be wiped to remove any iron dust / filings and any exposed iron surfaces should be re-touched.

Cutting and drilling operations should be carried out well away from other products to prevent inadvertent contamination with iron particles or dust which will quickly rust and cause red rust staining on any affected products.

Remove any burrs or sharp edges and ensure that any oil contamination, loose dust or metal debris is fully removed from the product on completion of these operations. Paint touch-up should be carried out as soon as possible after preparation of the surface. If the bare metal faces have been left untreated, then any rusting of the exposed metal should be fully sanded back to bare metal before paint touch-up.

Design by Bulletpoint 01274 740003

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