GF Products for Building Services Applications

INSTAFLEX
AQUASYSTEM
ABS
COOL-FIT PLUS
PVC-C
FUSEAL
MALLEABLE
CONTAIN-IT
PRIMOFIT
FIRESTOP

BUILDING SERVICES

+GF+

Piping System for Building Services from GF

Contents Page

What we offer you ...

Field Support	Engineers to call on site and assist with installation queries.
Take off Service	In house engineers who take quantities from customer's drawings and prepare estimates.
Custom Products	Off site pre-fabrication/customisation offering pre-assembled coils of over 100m to arrive on site ready for installation.
CAD Service	CAD operators who will assist with the take off preparation for customisation.
Training	On or off site training of operatives in the use of machinery and products by our own training officer.
Quality Assurance	ISO 9000/WRAS/BSI/BBA are all held by GF as part of our commitment to quality.

Introduction

George Fischer offer the largest range of piping system products for Building Services in the UK, all of which bear the GF hallmark of quality and reliability.

The flexibility of the INSTAFLEX polybutylene system will save you time and money on installations especially in curved or round buildings, AQUASYSTEM PP-R is a resilient material with high dimensional stability, FUSEAL is the perfect choice for chemical drainage applications whilst the low temperature capabilities of ABS make it ideal for refrigeration and air conditioning applications. COOL-FIT ABS offers you 2 products in 1 - ABS carrier pipe wrapped in PUR insulation surrounded by a HDPE jacket is the optimum secondary cooling piping system, whilst the PVC-C system offers excellent high temperature resistance. Finally our range of PRIMOFIT end loaded compression fittings can be used on a wider range of heating systems along with our tried and trusted range of malleable iron fittings with 150 years of experience behind them.

Add in our customisation service and we're sure you'll find that we have the answer when it comes to Building Services.

	INSTAFLEX System -15 to 95°C 16 - 110mm	AQUASYSTEM PP-R 0 to 95°C 20 - 110mm	FUSEAL 0 to 100°C 38 - 152mm	ABS System -40 to 60°C 16 - 315mm	COOL-FIT ABS -40 to 60°C 16 - 315mm	PVC-C System 0 to 80°C 16-225mm	Malleable Iron Fittings -20 to 300°C 1/8 - 4"	PRIMOFIT -20 to 105°C 1/2 - 3"
Chilled water CHW	✔			✔	✔		✔	✔
Hot water HWS	✔	✔				✔	✔	✔
Cold water CWS	✔	✔		✔	✔	✔	✔	✔
Heating HTG	✔	✔					✔	✔
Compressed air	✔						✔	✔
Chemical drainage			✔					

Polybutylene INSTAFLEX®

INSTAFLEX represents the future of commercial & domestic installations.

Flexible polybutylene pipe means fast, economic installations even in awkward shaped and curved buildings. Risers and long runs can be pre-fabricated from drawings offsite prior to work starting and then installed to programme, improving site productivity and reducing labour time.

- Flexible
- Simple, low cost installation
- Comprehensive range of fittings
- Socket, compression & electrofusion jointing methods

> INSTAFLEX Technical Data

Size Range:	16 - 110mm
Pressure:	PN25 (16 - 20mm) @ 20°C PN16 (25 - 110mm) @ 20°C
Temperature Range:	From -15°C to 95°C
Thermal Conductivity:	0.22 w/mk @ 20°C
Expansion/Contraction:	0.13mm / m°C
Approvals:	KIWA, WRAS, BS7291 (Class S), Lloyds Register
Jointing:	Electrofusion, Socket Fusion, Compression, EF6000-3, MSE63, SG110

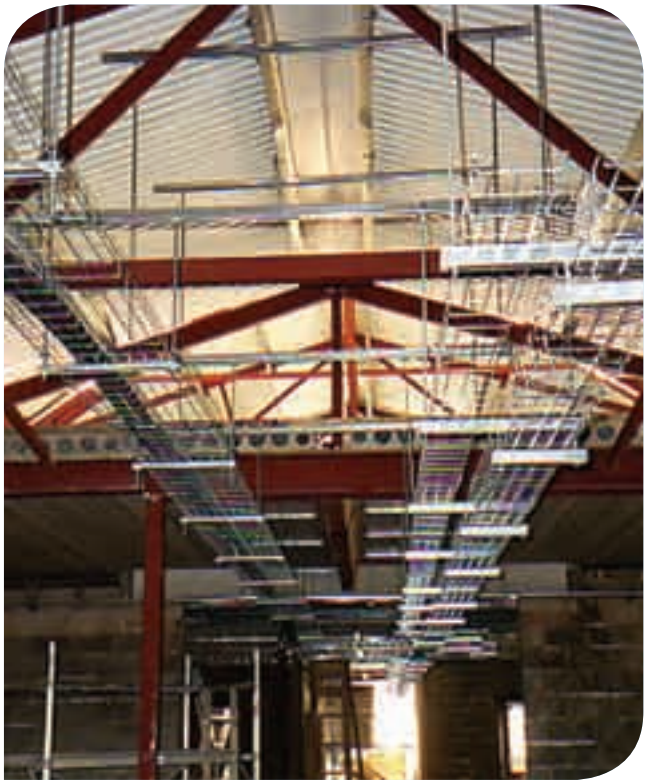
Applications

The flexibility of the material is a huge bonus and means that curved buildings such as the Royal Albert Hall presented few installation headaches.

- Heating systems and hot/cold water services
- Compressed air systems
- High temperature drainage
- Chilled water

Ideal for applications in:

- Hospitals
- Hotels
- Schools
- Accommodation blocks
- Office blocks



Pre-insulated and pre-customised INSTAFLEX piping system being installed at Loughborough University. Speed and ease of use was the main factors for being chosen. Pipe was installed in basket tray.

Polyproylene-random PP-R

The PP-R AQUASYSTEM is particularly suitable for hot and cold water installation: residential building, office, hotel, new installation and renovation.

The wide range of pipes and fittings, from 20 to 110 mm, is suitable for any kind of installation.

The special properties of the material, compared to the other materials, give the following advantages

- **high dimensional stability** (when hot)
- **maximum corrosion resilience**

> Quick reference

PP-R

- High dimensional stability
- Maximum corrosion resilience

Ideal for

- Sanitary and plumbing
- Air conditioning
- Heating
- Food industry

> Size range

- 20 - 110mm

Applications

The mulitlayer pipe PP-R/ALU/PP-R is an extension range of GF AQUASYSTEM with better workability and lower thermal expansion

GF AQUASYSTEM is recommended for the following installations:

- Heating
- Air conditioning
- Compressed air
- Hot and cold water

PP-R AQUASYSTEM installed at St. Barnabas in Plymouth on heating and hot and cold water services.

COOL-FIT ABS

ABS has a high impact resistance and an excellent resistance to extreme environmental conditions.

It is particularly suitable for use at low temperatures down to -40°C and due to its good insulating properties, requires very little insulation.

George Fischer offer a wide range of ABS pipe, fittings, hand operated and actuated valves as well as measuring and control systems.

- Excellent for low temperature use
- Lightweight
- Low installation cost
- High impact resistance

> ABS Technical Data

Size Range:	16 - 315mm
Pressure:	PN10 @ 20°C
Temperature Range:	From -40°C to 60°C
Thermal Conductivity:	0.2 w/m°C
Expansion/Contraction:	0.1mm / m°C
Approvals:	WRAS, LR, GL, ABS, BV, DIBt, DNV KTW, Mairede, Paris, RNIA
Jointing:	Solvent cement jointing TANGIT Phixotropic cement for ABS

Applications

ABS is an ideal material for tough, cold environments like chilled water and commercial / industrial refrigeration systems. Costs are lower since reduced insulation is required.

- Chilled water
- Commercial refrigeration - supermarkets
- Industrial refrigeration e.g. fruit storage, fishing trawlers, ice rinks, breweries, food production plants, electronic cooling processes, air conditioning etc.
- Shipping and marine applications (Lloyds Register approval)

COOL-FIT installed in Manchester lightweight and easy to install. ABS was chosen to reduce labour and on site costs.

COOL-FIT PLUS

COOL-FIT ABS is a complete pre-insulated plastic piping system offering optimum insulation and fast jointing pressure bearing plastic pipe - 2 products in 1!

- PN10 ABS carrier pipe
- Wrapped in high density PUR
- Outer jacket of HDPE (in black or white)
- -50°C to +40°C PN10
- Save material costs
- Reduce installation time
- Simplify logistics

> Quick reference

GF COOL-FIT

- PUR insulation
- 2 products in 1!
- HDPE jacket pipe

Ideal for

- Dairies
- Meat processing
- Slaughter houses
- Cold storage facilities

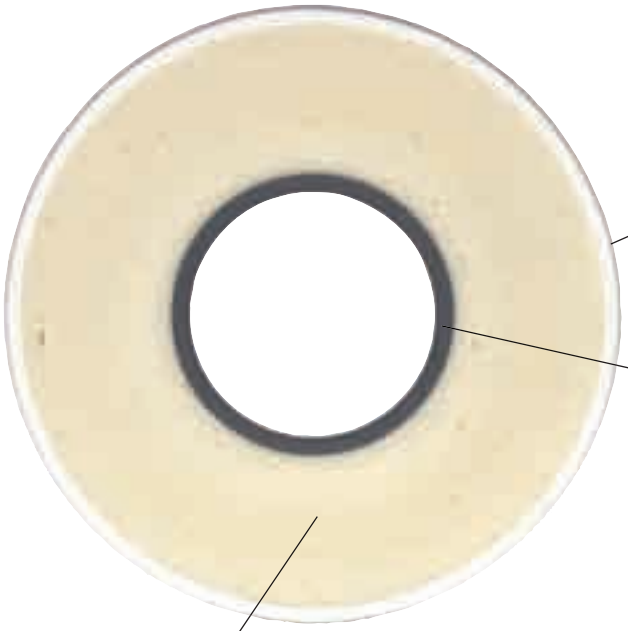
> Size range

- 16 - 225mm

Applications

COOL-FIT ABS combines two successful products - ABS and pre-insulated PUR to offer refrigeration/cooling plant engineering companies the optimum secondary cooling piping system for use in:

- Dairies
- Slaughter houses
- Meat processing plants
- Commercial chilled water
- Cold storage warehouses
- Supermarkets
- Food production
- Fish industry
- Air conditioning



Jacket Pipe HD-PE available in black or white. Functional requirements to EN253. White PE is only moderately UV resistant and is recommended for indoor applications.
Black is UV resistant.

Black RAL 9004
White RAL 9010

Carrier Pipe ABS
10 bar rated, cement jointed ABS plastic pipe. 5 metre lengths. ABS pipe to ISO 15493.

Hard Polyurethane Foam (PUR)

Thermal conductivity at 50°C	< 0.026 W/m.K
Foamed using polyol and isocynate	
Axial Shear strength	≥ 0.12 N/mm²
Expansion coefficient	0.04 µm/m.K
Tensile strength	≥ 0.2 N/mm²
Core density	> 45kg/m³
Compressive strength	≥ 0.3 N/mm²
Average cell sizes	max. 0.5mm

COOL-FIT ABS

is produced using high grade ABS pressure piping raw material, in use for over 20 years together with high grade, low temperature PUR produced in high density form to offer optimal insulating qualities.

COOL-FIT ABS fittings are manufactured using the same raw materials as the pipe and are therefore completely compatible with the COOL-FIT pipe in terms of insulating properties and jointing technique.

Full Technical Design Support

www.cool-fit.georgfischer.com
for online calculations of energy losses, temperature differences and more, CAD libraries for fast and accurate drawings, specialist guidelines for design and installation as well as the design of venting equipment, measuring equipment and transitions.

We also offer on-site advice and certificated jointing technique training for site personnel.

Customisation

In addition to the wide range of pipe, fittings and valves GF also offer a customisation service.

Housed in a large, custom designed area of our Coventry warehouse, fully trained GF staff can pre assemble pipe and fittings in any of our materials, using whichever jointing method is most appropriate for the material.
We can translate our customer's drawings into convenient size assemblies for transportation using our CAD facility. Drawings can be sent and received by email or in paper form.

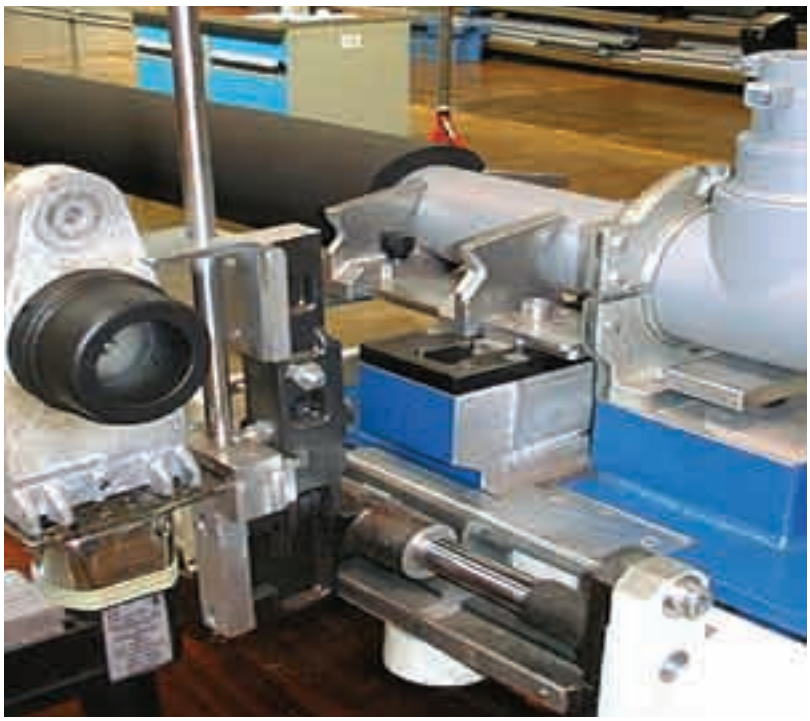
> Quick reference

Fabrication

- For all materials
- Free quotations
- Full take off facility

> Size range

- 16 - 315mm
- $^{3}/_{8}$" - 12"



Fabrication

There are numerous advantages to using this service:

Pre-assembled pipe runs can be delivered to site to fit in with your precise schedule. Long pipe runs can be installed quickly and easily offering large savings on site labour costs and ensuring site deadlines are met. Plus, no-one knows our products like we do. You can rest assured that all assembly work is being carried out by staff who work with the products every day.

All jointing is carried out in our purpose built assembly area by qualified GF personnel.

All joints are individually marked for traceability. No need for you to worry about jointing being carried out correctly on site - let our expert staff take care of it beforehand.

The only limit on the size of assembly is transport. We can deliver coiled assemblies of any length or straight assemblies up to 12 metres long.
This service is particularly useful when dealing with larger diameter pipe and fittings.
All deliveries can be 'just in time' thus removing the likelyhood of site damage.

post chlorinated polyvinyl chloride **PVC-C**

METRIC

PVC-C, due to its high chlorine content has excellent high temperature resistance (up to 80°C). It offers a wide ranging chemical resistance against many aggressive media at high temperature and high concentrations.

- Excellent temperature resistance (up to 80°C)
- Long life span
- Minimal training & equipment needed for jointing
- Quick and easy installation
- Low thermal conductivity
- Low expansion coeffiecient
- Excellent chemical resistance

> Quick reference

PVC-C is a lightweight, easy to install and is manufactured in a light grey colour to distinguish it from PVC-U

- Excellent temperature resistance
- Low thermal conductivity
- Long life span
- Low expansion coefficient
- Simple jointing

> Size range

- 16 - 225mm

Applications

PVC-C is many ways, similar to PVC-U but offers better mechnical strength characteristics especially at high temperatures, together with better chemical resistance.

- High temperature environments
- High corrosive environments

PVC-C material used for 50°C condense lines in a 7 storey office block in Central London. Installation costs and time were reduced by using GF PVC-C pipe and fittings.

FUSEAL

The FUSEAL chemical drainage system is the market leading system in the USA, where it is manufactured by a GF company. The system has been successful for over 25 years thanks to its ease of installation and choice of mechanical or electrofusion jointing.

- Electrofusion and mechanical jointing systems.
- Minimal training & equipment needed for jointing
- Quick and easy installation
- Low thermal conductivity
- Low expansion coeffiecient
- Excellent chemical resistance

> Quick reference

GF FUSEAL

- Choice of jointing
- Flame retardant polypropylene

Ideal for use in:

- Schools and Universities
- Hospitals
- Industrial laboratories
- Medical research

> Size range

38mm - 102mm
(152mm - 304mm) on request

Applications

FUSEAL is the perfect system for chemical waste drainage in:

- Industrial laboratories
- Chemical processing
- Semiconductor manufacturing
- Pharmaceutical processes
- Food industry
- Photographic processes
- Environmental technology
- Building services
- Water and waste water treatment
- Hospitals
- Schools and universities

FUSEAL installed in school laboratories in Bristol chosen for reduced installation times.

Malleable Iron Fittings

With over 150 years experience in the manufacture of malleable iron fittings, GF offers full compliance with British, European and International standards as well as:

- Consistent and reliable quality
- Comprehensive Technical support including CAD library
- Taper/Parallel threads ensure a lower torque is required to achieve a pressure tight joint
- Generous chamfer ensures easier assembly

> Size range

- 1/8" - 4"

Applications

Manufactured to BS EN 10242, George Fischer malleable iron fittings are ideal for the following applications:

- Hot or cold water supply
- Heating water and steam 300°C/20 bar
- Fire fighting and sprinkler systems
- Airlines
- Fuel Transfer
- Factory services
- Condensate return lines
- FM approved

Product range (inch)

Product	Sizes available (inches)											
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Long sweep Bend		●	●	●	●	●	●	●	●	●	●	●
Short Bend		●	●	●	●	●	●	●	●	●	●	●
Return Bend				●	●	●	●	●	●			
Elbow 90°	●	●	●	●	●	●	●	●	●	●	●	●
Elbow M & F 90°	●	●	●	●	●	●	●	●	●	●	●	●
Elbow 45°				●	●	●	●	●	●	●	●	
Tee 90°	●	●	●	●	●	●	●	●	●	●	●	●
Reducing Tee				● x 1/4 x 3/8	● x 1/4 x 3/8 x 1/2	● x 1/4 x 3/8 x 1/2 x 3/4	● x 1/2 x 3/4 x1	● x 1/2 x 3/4 x1 x1 1/4	● x 1/2 x 3/4 x1 x1 1/4 x1 1/2	● x 1/2 x 3/4 x1 x1 1/4 x1 1/2 x2	● x 1/2 x 3/4 x1 x1 1/4 x1 1/2 x2 x2 1/2	● x1 x1 1/2 x2 x2 1/2 x3
Pitcher Tee				●	●	●	●	●	●	●	●	●
Reducing Pitcher Tee					● x 1/2	● x 1/2 x 3/4	● x 1/2 x 3/4 x1	● x 3/4 x1 x1 1/4	● x 1/2 x 3/4 x1	●	● x2	●
Reducing Socket		● x 1/8	● x 1/8 x 1/4	● x 1/4 x 3/8	● x 1/4 x 3/8 x 1/2	● x 1/2 x 3/4	● x 3/8 x 1/2 x 3/4 x1	● x 1/2 x 3/4 x1 x1 1/4	● x 3/4 x1 x1 1/4 x1 1/2	● x1 1/2 x2	● x1 1/2 x2 x2 1/2	● x2 x2 1/2 x3
Reducing Bush		● x 1/8	● x 1/8 x 1/4	● x 1/8 x 1/4 x 3/8	● x 1/4 x 3/8 x 1/2	● x 1/4 x 3/8 x 1/2	● x 1/4 x 3/8 x 1/2 x 3/4 x1	● x 3/8 x 1/2 x 3/4 x1 x1 1/4	● x 1/2 x 3/4 x1 x1 1/4 x1 1/2 x2	● x1 x1 1/4 x1 1/2 x2	● x1 x1 1/4 x1 1/2 x2 x2 1/2	● x2 x2 1/2 x3 x4
Hexagon Nipple	●	●	●	●	●	●	●	●	●	●	●	●
Socket	●	●	●	●	●	●	●	●	●	●	●	●
Plug	●	●	●	●	●	●	●	●	●	●	●	●
Cap	●	●	●	●	●	●	●	●	●	●	●	●
Union (Iron/Iron)	●	●	●	●	●	●	●	●	●	●	●	●
Union (Navy)				●	●	●	●	●	●			

Important Note This list represents a sample of the range. Please consult the main Malleable Iron Price List for the full range.

with FPM seals PRIMOFIT®

Ideal for the jointing of steel pipes, this range of PRIMOFIT end loaded compression fittings combines all the advantages of the standard range with the added bonus of FPM seals which extends the working temperature range, making it suitable for use on all heating systems.

The PRIMOFIT system has proved a popular choice throughout Europe for new piping installations and repair work.

- No threading of pipe required
- No welding of pipe
- Excellent for tapping into existing systems

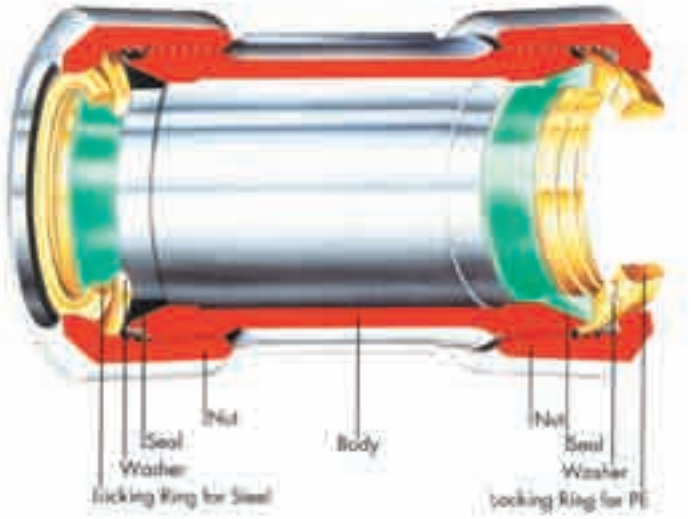
> Quick reference

PRIMOFIT end loaded compression system for steel pipe.

- FPM seals
- No special tooling required
- Jointing without threading

> Size range

- 1/2" - 3"



Applications

Simple, straightforward jointing makes PRIMOFIT the ideal choice for a variety of applications including both old and new installations.
Simply insert the pipe to the pre-determined length and tighten the nut. As the fitting doesn't require pipes to be threaded or special sealants used, PRIMOFIT is ideal for cutting into existing services and making any necessary additions or modifications to the service.

- **Heating systems** (to 105°C operating temp)
- Compressed air systems
- Hot/cold water services

Product range (inch)

Product	Sizes available (inch)							
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Coupling	●	●	●	●	●	●	●	●
Reducing Coupling		● x 1/2	● x 1/2 x 3/4	● x1	● x1 1/4	● x2		
Male Adaptor	●	●	●	●	●	●	●	●
Female Adaptor		●	●	●	●	●	●	●
Tee	●	●	●	●	●	●		
Reducing Tee		● x 1/2	● x 1/2 x 3/4	● x 1/2	● x 1/2	● x 3/4		
Threaded Outlet Tee	●	●	●	●	●	●		
Elbow	●	●	●	●	●	●		
Cap	●	●	●	●	●	●		

Note
- Details of the full range and code numbers are available separately.
- A range of spare parts is also available
- FPM - to convert standard PRIMOFIT to higher duty applications
- FIREJOINT spares will convert standard PRIMOFIT to an approved system for use with natural gas inside buildings.

GF CONTAIN-IT

GF CONTAIN-IT - Secondary containment piping system solutions protect your installations, our environment and everyone with double security.

Choose your optimum system from three secondary containment piping solutions:

- GF CONTAIN-IT Plus
- GF CONTAIN-IT Two
- GF CONTAIN-IT for retrofitting

Controlled safety by leakage monitoring and valves

Careful planning and layout, in addition to professional installation, are indispensable preconditions for a reliable secondary containment piping system. Particularly with critical media and processes, the monitoring, control and shut-off valves incorporated in the system provide the additional safety for fault free operation.

CONTAIN-IT

GF CONTAIN-IT secondary containment piping system for retrofitting

Application :In buildings and in the ground.

Retrofit : Subsequent fitting in existing pipelines easily possible with split pipe and fittings.

Simple and economic installation : Outer system uses split fittings and pipe (solid pipe available for new build) with injected bonding adhesive jointing.

Transparent outer-pipe of PVC-U : Splashproofing and optical leakage monitoring.

Pressure test of outer pipe : With gases or air up to 0.3 bar.

GF CONTAIN-IT-Plus secondary containment piping system for retrofitting

Application : In the ground, outdoors and in buildings.

Robust, pressure-tight outer pipe of PE 100 and ELGEF Plus sockets : Simplified assembly with few tools thanks to electrofusion couplers.

Compact construction : Minimum difference between diameters of inner and outer pipes.

Simple assembly : Identical z-dimensions of 90° elbow, 45° elbow and 90° T-joint.

Pressure test of outer pipe : With gases or air up to 0.3 bar.

GF CONTAIN-IT-Two secondary containment piping system for splashproofing and additional transparency

Application : With preference in buildings.

Transparent outer pipe of PVC-U : Splashproofing and optical leakage monitoring.

Compact construction : Minimum difference between diameters of inner and outer pipes.

Simple and economical installation : Using split solvent cement sockets.

Pressure test of outer pipe : With gases or air up to 0.3 bar.

FIRESTOP

FIRESTOP is a revolutionary new product that is a one piece sleeve to seal wall and floor apertures against the spread of fire. It offers protection against transfer of fire between walls and floors up to 2 hours on plastic pipework. It also eliminates fitting labour costs and can be fitted without additional fixing materials by only one person in minutes (Wrap, Close, Slide). It is both a smoke and accoustic barrier, it also allows for pipe expansion and building movement. Being asbestos free, contains no hazerdous materials and does not give off toxic fumes or smoke in the event of fire.

How does it work? The FIRESTOP is made up of an outer carrier of stainless steel (complete with enclosure tabs), and inner intumescent lining and foam strips. In the event of a fire the FIRESTOP's instrumescent lining expands to over 16 times its original volume, thereby crushing the plastic pipe and forming a smoke and flame barrier.

Product Specification:

Construction : Outer stainless steel sleeve, inner instrumescent lining and three acoustic foam seals.

Applications : Fitted on plastic pipework, either horizontally between floors and walls (dry, brick or concrete)

Fire protection : Up to 120 minutes

Activation temperature : 140 degrees celsius

Tested to : BS476 : Part 20 (UK) NEN6069 (NL)

Length : 105mm (all sizes)

Why do you need it?

According to the latest regulations (Building Regulations 1991, Approved Document B, 2000 Edition, Fire Safety) each new building has to be divided into compartments. A compartment is defined as the maximum area that a fire can be permitted to spread within. In the event of a fire within a building, the smoke and flames will try and break out by any means including along walls or floors penetrating pipework.

1 CHW - Chilled Water

COOL-FIT ABS
ABS
INSTAFLEX PB
PP-H
Malleable Iron
PRIMOFIT
AQUASYSTEM PP-R

2 HWS - Hot water services

INSTAFLEX PB
PVC-C
AQUASYSTEM PP-R

3 HTG - Heating

PRIMOFIT
INSTAFLEX PB
AQUASYSTEM PP-R
Malleable Iron

4 CWS - Cold Water

INSTAFLEX PB
PVC-C
AQUASYSTEM PP-R
COOL-FIT ABS
ABS
PVC-U
PPH

5 Chemical Drainage

FUSEAL

6 Compressed Air

PRIMOFIT
INSTAFLEX PB

7 Natural & LPG Gas

PRIMOFIT

8 Underground Portable Water

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