Building Services

> GF Products for Building Services Applications

+GF+

GEORG FISCHER
PIPING SYSTEMS

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What GF can 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 in length 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 the operatives in the use of machinery and products by own GF Training Officer.
Quality Assurance:	ISO 9001/ISO 14001/WRAS/BSi are held by GF as part of our commitment to quality.

GF Piping Systems

Building Services

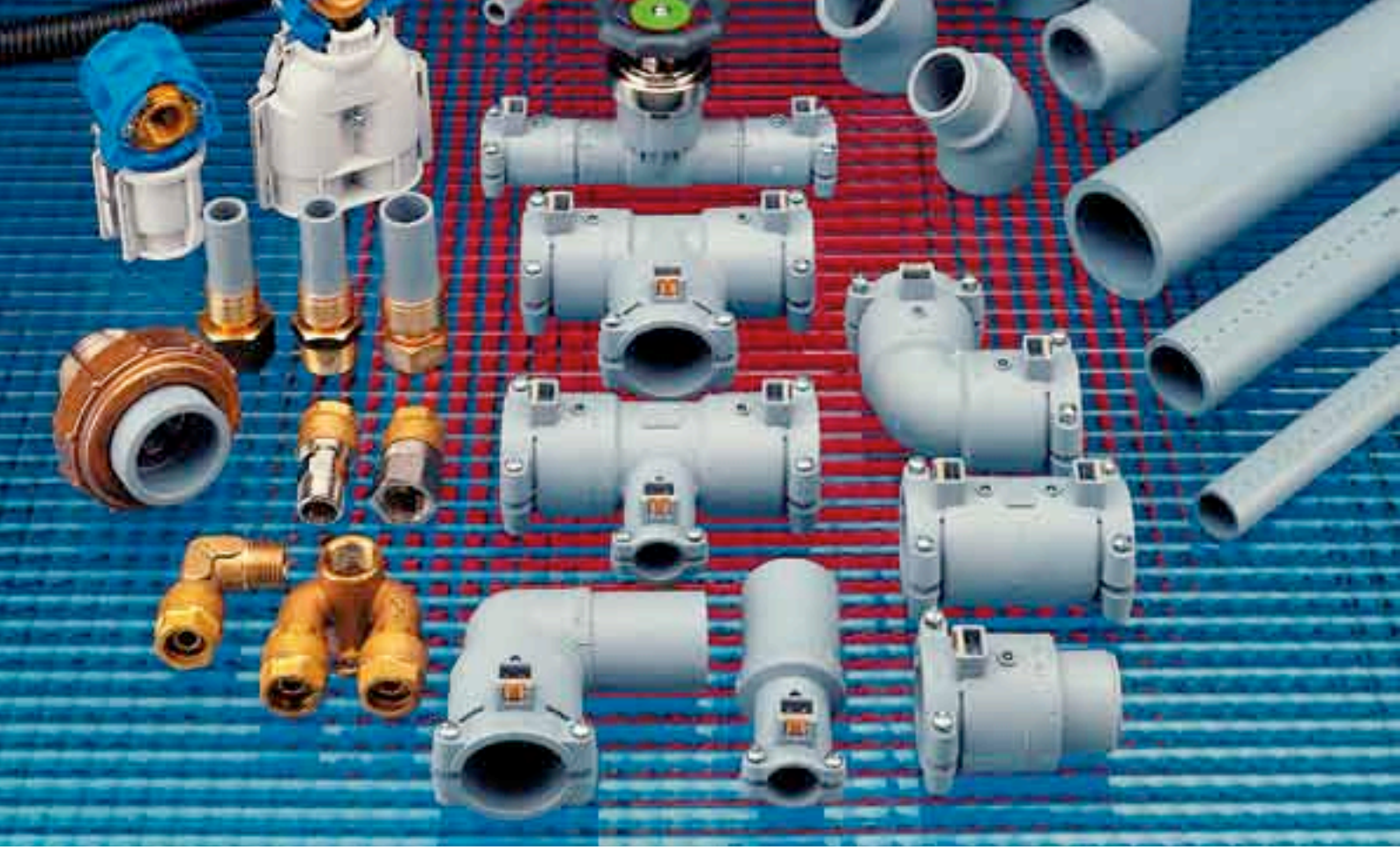
GF offer the largest range of piping system products for Building Services in the UK, all of which bear the GF hallmark of quality and reliability.

The flexibility of the INSTAFLEX polybutylene system will save you time and money on installations especially with our iFIT push-fit system. AQUASYSTEM PP-r is a resilient material with high dimensional stability, 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. PE is the perfect choice for large size pipes for cold and chilled water. Whilst the PVC-C system offers excellent high temperature resistance.

Finally our PRIMOFIT end loaded compression fittings can be used on a wide range of heating systems along with our tried and trusted range of malleable iron fittings with over 150 years of experience behind them.

Add in our fabrication service and we are sure you will find that we have the answer when it comes to Building Services

	Chilled water CHW	Hot water HWS	Cold water CWS	Heating HTG	Compressed air
INSTAFLEX System 0 to 95°C 16 - 225mm	✔	✔	✔	✔	✔
AQUASYSTEM PP-R 0 to 95°C 20 - 160mm	✔	✔	✔	✔	
iFIT PB / ML 0 to 95°C 16 - 32mm	✔	✔	✔	✔	
PE System -50 to 60°C 20 - 630mm	✔		✔		
COOL-FIT -50 to 40°C 16 - 315mm	✔		✔		
ABS System -40 to 60°C 16 - 315mm	✔		✔		
PVC-C System 0 to 80°C 16 - 225mm		✔	✔		
Malleable Iron Fittings -20 to 320°C 1/8 - 4"	✔	✔	✔	✔	✔
PRIMOFIT -20 to 105°C 1/2 - 3"	✔	✔	✔	✔	✔



Polybutylene INSTAFLEX

INSTAFLEX represents the future of commercial & domestic pipework 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, butt, electrofusion & compression jointing methods

> INSTAFLEX Technical Data

Size range: 16 - 225mm
Pressure: PN25 (16-20mm) @ 20°C
PN16 (25 - 110mm) @ 20°C
PN10 (125 - 225mm) @ 20°C
Temperature range 0°C to 95°C
Thermal Conductivity: 0.32W/m°C
Expansion/ Contraction: 0.13mm/m°C
Approvals: WRAS, BSi Kitemark, LR, GL, ABS, BV, DIBt, DNV, KTW, Maire de Paris, RINA
Jointing: Heat fusion (machine required), Electro fusion or Compression

> 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
- Chilled water

Ideal for applications in:

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

Pre-insulated and pre-customised INSTAFLEX piping system being installed at Lanchester Road Hospital - Durham. Speed and ease of use was the main factors for being chosen.

(PB & ML) iFIT

iFIT is the first modular push-fit piping system for building services applications.

The rapid and easy jointing and dependable PB or multilayer composite (PE-RT, Al, PE-HD) pipes render iFIT a cost effective choice.

- 50% fewer components due to modular concept
- Flexible (PB) or rigid pipe (ML)
- Disassembly possible
- Visible proof of correct joint

> iFIT Technical Data

Size range: 16 - 32mm
Pressure: PN16 @ 20°C
Temperature range 0°C to 95°C
Thermal Conductivity: 0.43W/m°C
PB: 0.22W/m°C
Approvals: WRAS, DVGW, SVGW
Jointing: Push-Fit

Adaptor d20

Tee-Module d16/d20

Adaptor d16

Polybutylene Pipe

Multi-Layer Pipe

+GF+

> Applications

The iFIT range is recommended for:

- > Hot and cold water
- > Chilled water
- > Heating

Acrylonitrile Butadiene Styrene 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.

GF 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 -40°C to 60°C
Thermal Conductivity: 0.17W/m°C
Expansion/Contraction: 0.1mm/m°C
Approvals: WRAS, LR, GL, ABS, BV, DIBt, DNV, KTW, Maire de Paris, RINA
Jointing: Solvent cement jointing (TANGIT cement for ABS)

> Applications

ABS is an ideal material for tough, cold environments like chilled water and commercial / industrial refrigeration systems. Costs are lower due to ease of installation.

- 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)

ABS installed in Queen Alexandra Hospital - Portsmouth lightweight and easy to install. ABS was chosen to reduce labour and on site costs.

ABS COOL-FIT

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 Black UV resistant HDPE
- -50°C to +40°C PN10
- Save material costs
- Reduce installation time
- Simplify logistics

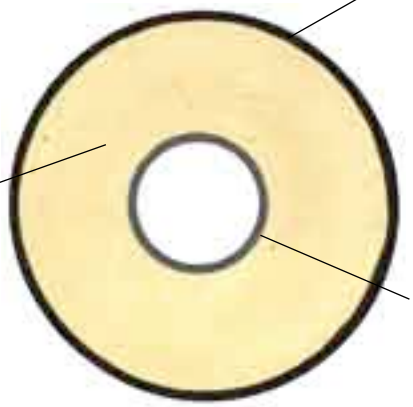
> COOL-FIT Technical Data

Size range: 16 - 315mm
Pressure: PN10 @ 20°C
Temperature range -50°C to 40°C
Thermal Conductivity: 0.17W/m°C,
Expansion/Contraction: 0.04mm/m°C
Approvals: WRAS, LR, GL, ABS, BV, DIBt, DNV, KTW, Maire de Paris, RINA
Jointing: Solvent cement jointing (TANGIT cement for ABS)

> 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
- Fishing industry
- Air conditioning



Jacket Pipe HD-PE available in black. Functional requirements to EN253.
Black is UV resistant.
Black RAL 9004

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 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.

Polypropylene-random AQUASYSTEM

The PP-R AQUASYSTEM is particularly suitable for hot and cold water installation: residential buildings, offices, hotels, new installations and renovations.

The wide range of pipes and fittings, from 20 to 160mm, is suitable for most installations.

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

- **high dimensional stability**
- **maximum corrosion resistance**

> AQUASYSTEM Technical Data

Size range: 20 - 160mm
Pressure: PN10 & PN20 @ 20°C
Temperature range: From 0°C to 95°C
Thermal Conductivity: 0.22W/m @ 20°C
Expansion/Contraction: 0.15mm/m°C & 0.04mm/ m°C
Approvals: KIWA, WRAS, CSTB, Lloyds
Jointing: Socket fusion, Electro fusion

> Applications

GF AQUASYSTEM is recommended for the following installations:

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

The mulitlayer fibre pipe is an extension range of GF AQUASYSTEM with better workability and lower thermal expansion

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

Post chlorinated polyvinyl chloride PVC-C

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

> PVC-C Technical Data

Size range: 16 - 225mm
Pressure: PN16 @ 20°C
Temperature range 0°C to 80°C
Thermal Conductivity: 0.15W/m°C @ 20°C
Expansion/Contraction: 0.7mm/m°C
Approvals: WRAS, GL, ABS, BV, DIBt, RINA
Jointing: Solvent cement jointing
(TANGIT for PVC-C & TANGIT Cleaning Fluid)

> Applications

PVC-C offers excellent physical characteristics with a very smooth internal surface which not only reduces pressure loss but also offers very low bacterial growth possibilities and thus a high level of cleanliness.

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.

Polyethylene PE

PE has outstanding flexibility and a high impact resistance even at low temperatures.

GF offer a wide range of PE pipes, fittings and valves, from 20mm - 630mm.

In addition to being lightweight PE has advantages including:

- UV resistance
- Excellent for low temperature use
- High impact resistance
- Excellent cost-performance ratio
- Lightweight

> PE Technical Data

Size range: 20 - 630mm
Pressure: PN10 & PN16 @ 20°C
Temperature range -50°C to 60°C
Thermal Conductivity: 0.43W/m°C
Expansion/Contraction: 0.20mm/m°C
Approvals: WRAS, BSi Kitemark
Jointing: Socket fusion, Butt fusion & Electro fusion

Queen Alexandra Hospital - Portsmouth - Haydon Mechanical & Electrical

> Applications

PE is particularly suitable for outdoor installations in cold environments. The heat fusion jointing methods offer additional safety.

- Chilled water
- Cold water

Prefabricated PE piping system being installed at Queen Alexandra Hospital. Speed and ease of use was the main factors for being chosen.

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

> Malleable Iron Technical Data

Size range: 1/8" - 4"
Pressure: 25 bar up to 120°C
20 bar up to 320°C
Temperature range: -20°C to 320°C
Thermal Conductivity: 50W/m°C @ 20°C,
Expansion/Contraction: 0.212mm/m°C
Approvals: FM Approval
Jointing: R/Rp threads to ISO 7-1/EN 10226-1

> Applications

Manufactured to BS EN 10242, GF 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 (FM approved)
- Airlines
- Fuel Transfer
- Factory services
- Condensate return lines

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 and PE 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

> Applications

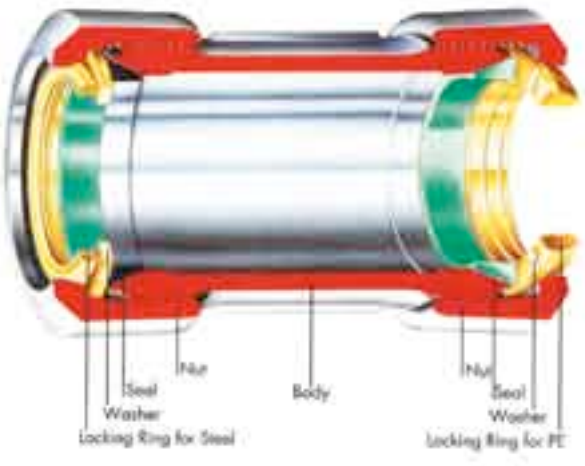
Simple, straightforward jointing makes PRIMOFIT the ideal choice for a variety of applications including both old and new installations.

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

> PRIMOFIT Technical Data

Size range: 1/2" - 3" steel, 20mm-63mm PE
Pressure: up to 16 bar
Temperature range -20°C to 105°C
Thermal Conductivity: 50W/m°C Expansion/
Contraction: 0.212mm/m°C
Approvals: GF Piping System Accredited
Test Laboratory, BSi Kitemark
Jointing: Mechanical end load compression fittings
(no special tools required)



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.

FGR Stainless Steel Couplings

The FGR Stainless Steel Coupler is particularly suitable for off-site modular or prefabrication installations with its Flex (non end load) version.

Additionally, an end load version is available for all other applications.

With the emphasis on quality and ease of use, the FGR coupling delivers a strong and reliable joint; saves time and labour money as well as significantly reduces installation costs.

Applications:

The FGR couplings offer an economic and fast pipe connection solution for all pipework in:

- Hot and cold water
- Heating
- Chilled water
- Water treatment

Universal use on

- plastic to plastic
- plastic to metal
- metal to metal

- Sizes up to 2032mm
- Pressure rating : PN16
- Cost effective 50% less costs less than flanging
- No special tools required
- No hot works, grooving or welding
- Limited space needed
- Light weight
- Ready for immediate use

> Complete Solutions

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 acoustic barrier, it also allows for pipe expansion and building movement. Being asbestos free, contains no hazardous 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 intumescent lining expands to over 16 times its original volume, thereby crushing the plastic pipe and forming a smoke and flame barrier.

> FIRESTOP Technical Data

Construction: Outer stainless steel sleeve, inner intumescent lining and three acoustic foams seals.

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

Fire protection: up to 120 minutes

Activation temperature: 140°C

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

Length: 205mm (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.

Customisation

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

Housed in a large, dedicated area of our Coventry facility, 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 convienent size assemblies for transportation using our CAD facility. Drawings can be sent and received by email or in a paper form.

> Customisation

- > 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 be rest assured that all assembly work is 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 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.

Fabricated fittings and assemblies

The only limit on the size of assembly is transport. We can deliver coiled assemblies up to 30 metres long. This service is particularly useful when dealing with larger diameter pipes and fittings. All deliveries can be "just in time" thus removing the likelyhood of site damage.

GF Training

We are able to offer training programmes both on and off site and have a dedicated training area within our Head Office.

Training programmes are available in the following areas:

> Socket fusion
> Butt fusion
> Solvent cement jointing
> Electro fusion

> Dedicated training officer
> All courses are certificated
> To arrange training contact your local GF Area Sales Manager

> GF Piping Systems Major Projects References

> Wembley Stadium - London

> Greater London Authority - London

> Queen Alexandra Hospital - Portsmouth

> Highbury Luxury Apartments - London

> Beetham Tower - Manchester

> Royal Albert Hall - London

> Edinburgh County Council - Edinburgh

> Royal Festival Hall - London

GF Piping Systems > worldwide at home

Our sales companies and representatives
ensure local customer support in over 100 countries.

www.georgefischer.co.uk

The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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