



**Fire Shield Systems Ltd**  
Stump Cross House  
London Road, Quarrington  
Sleaford, Lincs  
NG34 8NX

Tel. 0800 9755767  
www.fireshieldsystemsLtd.co.uk  
VAT Reg. No. 277995719  
10978450

## QUOTATION NO. 1048

Monarch International Solutions  
paul@monarch-is.com

<b>Quote No:</b>	1048
<b>Site Name:</b>	Monarch
<b>Site Contact:</b>	
<b>Salesperson:</b>	James Mountain
<b>Created Date:</b>	19/05/2020
<b>Valid For:</b>	30 Days

### Introduction:

At Fire Shield Systems Ltd we are committed to finding the right solution for your risk. This begins with gaining a key understanding of your processes, plant and associated hazard types. From the experience of operators and personnel in the field, interface with existing building and process management systems through to key considerations regarding downtime and the potential commercial impacts of fire, our fire suppression solutions are individually tailored for your business from design to implementation and ongoing service support.

Having invested in a core team of personnel experienced in fire protection solutions for waste, recycling and associated power generation applications, our fixed & mobile fire suppression solutions are individually tailored for your business from design to implementation and ongoing service support.

Utilising robust, tried and tested detection and agent distribution systems, our solutions are engineered to last in often harsh, unforgiving industrial environments.

We design, install and maintain watermist systems for Turbine halls and associated machinery spaces, high velocity deluge systems for local application protection and foam systems for high calorific RDF, in addition to gaseous systems for electrical risks.

We work closely with a network of internationally recognised fire industry manufacturing partners to provide 3rd party certified solutions for specific applications to meet the requirements of your industry regulator or insurer whilst offering commercially viable options to assist your business to implement continuous improvements in fire safety.



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### Fire Shield Systems prequalification:

The solutions referenced below have been selected for your consideration having been type tested for their specific application with 3<sup>rd</sup> party witness by an internationally reputed laboratory or stringently tested and 3<sup>rd</sup> party certified by a recognised testing laboratory where applicable.

Installation examples of these applications are available with these systems having been installed throughout the UK, Europe and further afield.

Fire Shield Systems are proud to have provided solutions to the following to date:

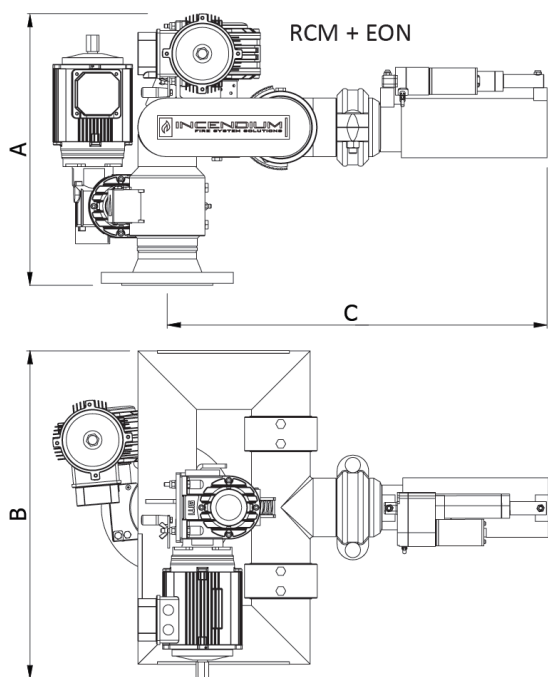
Beuparc, Tarmac, Suez, Atlas Copco, Grundon, DS Smith, Epiroc, Caterpillar, Smurfit Kappa, Mick George, Komatsu, Viridor, Case, Volvo, Biffa, Caterpillar, Bell, Koch, JCB, Liebherr, Teuton, Doppstadt, GBN, Terex, CBI, Komatsu forest, Ponsse, Countrystyle, John Deere, Timber Pro, Kalmar, Kone Cranes, Untha, Terex, Gorell, Scania, Volvo, Lindner.

The following proposal is for a 360 degree, 35m radius throw foam cannon, designed to automatically target 3 x 18m<sup>2</sup> bays but with the ability to be used to manually target any area within the building:

Summary	
Pump House & Stored Water Supply	£58,001.75
Plastics Storage Bays	£91,589.43
Design, Project Management, Handover and Training Packages	£6,500.00
	<b>Discount £6,091.18</b>
<b>Sub-Total ex VAT</b>	£150,000.00
<b>VAT</b>	£30,000.00
<b>Total inc VAT</b>	£180,000.00

## QUOTATION NO. 1048

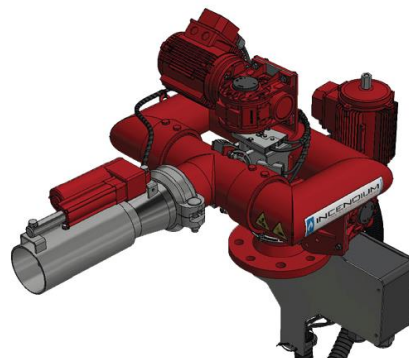
### Fire Fighting Monitors



The RCM is an efficient, compact and reliable Remote Controlled Monitor with excellent flow characteristics. The RCM is designed to be able to handle any situation with its modular design and as such, it can always be well adjusted to the customers needs. The monitor can be fitted with a remote controlled adjustable fog/jet nozzle (EON) or aspirating foam branchpipe (AFN).

#### Product Features

- Designed according to EN 13565-1
  - Stainless steel body and nozzle
  - Adjustable nozzles EON or AFN
- Rotation: 350°(optional 360°+ with software stop)
  - Elevation: -90° to +70°
- Working pressure 4 to 16 bar
  - Capacity up to 16000 lpm
- Power supply: 230VAC-690VAC, 24VDC, IP56-IP68
  - Limit switching or positioning for all environments, including ATEX.
- Available with stainless steel or cast iron motor/gear as option.
- Finish: Primer and red epoxy coat
  - Foam concentrate induction



#### DIMENSIONAL DATA

Model	A* [mm]	B* [mm]	C* [mm]	Connection water	Weight [kg]
RCM-80 DIN	420	490	660	DN80 PN16	48
RCM-80 ANSI	440	490	660	3" ANSI 150 lbs	48
RCM-100 DIN	450	570	760	DN100 PN16	70
RCM-100 ANSI	470	570	760	4" ANSI 150 lbs	71
RCM-150 DIN	500	750	860	DN150 PN16	89
RCM-150 ANSI	540	750	860	6" ANSI 150 lbs	90

\*Approximate measurements. Differs with nozzle and motor configuration.  
Contact Incendium for monitor specific drawing.

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### Fire pump & foam station assembly



### Fire suppression pipework

The pipe and associated fittings are tested and certified to FM, LPCB and Vds. Geberit Mapress is one of the leading pressfitting systems worldwide and has proven its performance over the past 40 years. It offers a complete supply piping system with pressfittings, pipes, valves, tools and accessories completing the range.

With systems manufactured from Stainless Steel, Carbon Steel, Copper and CuNiFe,

Geberit Mapress can be used for an extensive range of applications, from fire protection systems to industrial and marine uses.

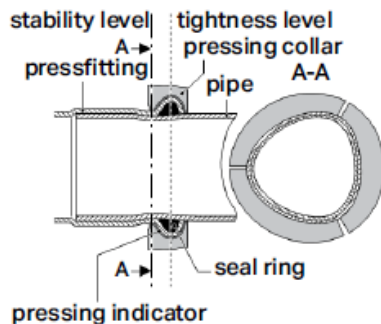


Figure 4: Cross-section of a Geberit Mapress press connection with applied pressing collar  $\varnothing 35 - 108 \text{ mm}$  and lemon shaped contour

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### Fire Extinguishing Panel:

Approved and certified to EN12094-1, EN54-2 and EN54-4 With three detection zones as standard, extinguishant release can be configured to activate from any combination of detection zone inputs.

Sigma XT panels are both robust and easy to install having all the electronics mounted on a single, easily removable, steel plate.





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### IR3 Flame Detection System:



Accredited to LPCB, Vds and other recognised accreditations using infra-red (IR) sensing technology our IR3 flame detectors can detect flames from all fuel types, from hydrocarbon fires with 4.3µm emissions through to invisible fires such as hydrogen. They can detect flames through such elements as dust, steam and smoke and are also immune to the effects of wind or draughts of air. With the addition of an ultra-violet (UV) detectors are highly immune to false signals such as sunlight where necessary and have been proven extensively throughout high risk sectors such as waste & recycling, energy and renewables:

### Pump House & Stored Water Supply

Item	Quantity
WGS-6720 Electric Fire Pump Set - 55Kw 1.1kw Jockey(1486 l/m) @ 9.05 bar c/w DN80 NRV Dual Wafer Butterfly Valve & 415v Mains Isolator	1.00
Standard Labour	

Item	Quantity
3300mm x 3300mm x 2400mm Fabricated Pump Enclosure	1.00
Standard Labour	

Item	Quantity
Foam Dosing Station - Inductor Valve Assembly DFI 100 and associated agent, fittings and storage	1.00
Standard Labour	

Item	Quantity
60,000 Litre Vertical Tank - 1 SG - Black - 7500 L x 3450 W x 3650 H - (2x 30,000) 3" Outlets & Float Valves & Mushroom Vents & Pre Drilled Holes	1.00
Standard Labour	

<b>Section Sub-Total ex VAT</b>	£58,001.75
<b>VAT</b>	£11,600.35
<b>Total inc VAT</b>	£69,602.10

### Plastics Storage Bays

Item	Quantity
Suppression System Mapress - Carbon Steel 88.9 Main Feed per metre	60.00
Incendium Fixed Fire Fighting Monitor Package	1.00



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Item	Quantity
Standard Labour	

Item	Quantity
Flame Detection System for Foam Cannons	1.00

Item	Quantity
Suppression System Mapress - Carbon Steel 88.9 Main Feed per metre	90.00
Standard Labour	

<b>Section Sub-Total ex VAT</b>	£91,589.43
<b>VAT</b>	£18,317.89
<b>Total inc VAT</b>	£109,907.32

### Design, Project Management, Handover and Training Packages

<b>Section Sub-Total ex VAT</b>	£6,500.00
<b>VAT</b>	£1,300.00
<b>Total inc VAT</b>	£7,800.00

<b>Sub-Total ex VAT</b>	£150,000.00
<b>VAT</b>	£30,000.00
<b>Total inc VAT</b>	£180,000.00

**Includes £6,091.18 Discount**

### Exclusions:

Civil Works - We have not allowed for any builders works such foundations/plinths for equipment other than framework, fixings and other consumables to mount fire detection and suppression equipment to the fabric of the building other than those where stated as 'optional' extras.

Power Supplies - will be required by 'others' to supply each areas Detection & Alarm Panel and Pump Control Panels and to ensure that the system remains powered in 'automatic' status at all times.

No allowance has been made for backup power supplies other than Suppression Fire Panels battery backup.

Water Supply - A water supply will be required up to the agreed tank(s) location infill valve.

Access - No allowance has been made for Mobile Elevated Working Platforms or any other specialist access having assumed that the client or main contractor will be providing these services where required. These can be provided by ourselves but at additional cost. Fire Shield take no responsibility for any additional costs incurred for hire equipment due to any delays within the forecasted project times.



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Unloading – We have not allowed for any off loading of materials other than by hand on site and will require assistance.

Trace Heating - A power supply will need to be provided for a 'trace heating system' should you require this service from ourselves. An additional cost can be provided by ourselves for a trace heating system upon design confirmation and agreed component locations.

Costs provided are based on information made available to us at the date shown on this proposal. Should additional details be provided to us which have implications to our design, Fire Shield Systems Limited reserve the right to review and submit additional cost in addition to our standard terms and conditions attached.

All Labour quoted as during normal working hours between 8am – 6pm Monday to Friday. No allowance has been made for out of hours working. Rates for out of hours working available on request.

In the event the engineer cannot continue or carry out works as scheduled for reasons beyond our control ie operations, access and availability of MEWPs supplied, additional costs will be incurred. The chargeable rate of £425.00 per day per engineer will be incurred for a full scheduled days work.

Our price is based on information supplied at the time of quoting. Please note that any significant design changes that will alter dimensions / layouts of the proposed system could result in a change to our quoted price. Any alterations made during the contract will attract appropriate costs with associated works.

### **Payment Terms:**

Staged Payments (unless otherwise agreed)

To be agreed.

Costs are inclusive of Design, Supply, Installation, Commissioning and Handover package incorporating 'As Installed' Design documentation.

Please note - in order to maintain agreed timeframes, the agreed payment terms must be met to ensure prompt delivery of goods and personnel mobilisation.

### **Lead Times & Delivery Schedules:**

Delivery schedule can only be confirmed on receipt of deposit payment. Estimated project completion time is based upon full access to required areas Mon-Fri 7am-6pm, access equipment to be provided at necessary times and timely payments in line with staged payment dates. It is also your responsibility to have all works not included in the scope of this quote to be in place within the timeframes required to ensure continuity of work an commissioning (includes but not limited to: power supply, water supply, kiosk enclosure and trace heating & lagging if applicable).

### **Estimated delivery:**

To be confirmed on placement of order.





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### **Design:**

Where relevant Fire Shield Systems Limited will reference national and international standards and available appropriate 3rd party test data to provide a solution deemed fit for purpose for the brief given. Due to the nature of the risks present in the industries we operate, we may at times propose solutions which we feel are justified in the absence of any international standard or 3rd party certification scheme. By proceeding with any proposal by Fire Shield Systems Limited you acknowledge your responsibility to obtain any necessary validation of the proposed solution by your Authority Having Jurisdiction.

### **Service and Maintenance:**

Bi-Annual Maintenance Visits - 9am to 5pm – costs to be agreed through service contract.