

# Loss Prevention Certification Board

Bucknalls Lane, Garston, Watford, Hertfordshire WD25 9XX  
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## Automatic Sprinkler Installation LPS 1048 Certificate of Conformity - System and Completion Certificate

This certificate covers water supplies, trunk mains, control valve sets and associated down stream pipes and sprinklers.

Certificate of Conformity No: **S37014**

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Date of Issue: **04 November 2013**

Protected premises: **Paper Round  
38/39 Juliette Way  
Purfleet Industrial Park  
Purfleet  
Essex. RM15 4YA**

Client: **Paper Round**



LPS 1048-1 Approved Sprinkler Contractor: **Nu-Form Fire UK Limited**



**NU-FORM FIRE UK**

**390 Manchester Road  
Gollinrod, Bury  
Lancashire BL9 5NB  
Tel: +44 (0)1706 825111 • Fax: +44 (0)1706 827111  
Email: [info@sprinklersystems.co.uk](mailto:info@sprinklersystems.co.uk)  
Web: [www.sprinklersystems.co.uk](http://www.sprinklersystems.co.uk)**

Sprinkler Contractor's contract no: **CL5212**

LPS 1048-1 Approval Certificate No: **ASC-040**

Installation Standard: **LPC Rules (BS EN 12845)**

Water Supplies Type: **Superior**

Does the water supplies meet Life Safety requirements: **No**

No. of Installation Control Valve Sets: **2**

No. of Zone Valves:

### Conditions of Certification

For this certificate to remain valid, it is necessary for the complete sprinkler installation to be serviced and maintained fully in accordance with the requirements of the applicable installation standard. Servicing and maintenance work must be carried out by an LPCB Approved Sprinkler Contractor that has servicing included in its ISO 9001 certification scope. All extensions and alterations must be carried out by an LPS 1048 Approved Sprinkler Contractor approved at the appropriate level. For Approved Sprinkler Contractors check on the LPCB's web site [www.redbooklive.com](http://www.redbooklive.com). Works must be designed and installed in accordance with the requirements of the original installation standard. Any changes made to storage and the user should consult the installing company.

### Schedule of agreed non-compliances/departures from the Installation Standard

- 1
- 2
- 3
- 4
- 5
- 6

### Declaration

We declare that the works covered by this certificate have been designed, installed, and commissioned in accordance with the requirements of the installation standard shown above, unless noted otherwise in the above schedule of non-compliances/departures.

Approved Sprinkler Contractor - Name: **Martin Wells**

Signature:

A handwritten signature in blue ink, appearing to read 'Martin Wells'.

| Loss Prevention Certification Board            |                                                                                                                                        |                                         |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Certificate of Conformity No.<br><b>S37014</b> | <b>Automatic Sprinkler Installation</b><br><b>LPS 1048 Certificate of Conformity – System or Base Build and Completion Certificate</b> | Page 2 of 4                             |
| Installing company:                            |  <b>NuForm Fire UK Limited</b>                        | Approval Certificate No.<br><br>ASC-040 |

### Sprinkler Protection

| Design criteria/details                       | Area One         | Area Two         | Area Three                   | Area Four |
|-----------------------------------------------|------------------|------------------|------------------------------|-----------|
| Description of area                           | ROOF             | ROOF             | IT STORE                     | OFFICES   |
| Hazard Classification                         | HIGH             | HIGH             | HIGH                         | ORDINARY  |
| Occupancy                                     | RECYCLING CENTRE | RECYCLING CENTRE | ELECTRICAL COMPONENT STORAGE | OFFICES   |
| Density of Discharge (mm/min)                 | 15               | 15               | 15                           | 5         |
| Area of Operation (m²)                        | 325              | 325              | 325                          | 270       |
| Pre-calculated or FHC                         | FHC              | FHC              | FHC                          | FHC       |
| Life safety or property protection            | PROPERTY         | PROPERTY         | PROPERTY                     | PROPERTY  |
| Process group (HHP) or storage category (HHS) | HHS              | HHS              | HHS                          | N/A       |
| Storage configuration (ST1-6)                 | ST1              | ST1              | ST1 / ST5                    | NONE      |
| Intermediate protection provided (Y/N)        | NO               | NO               | NO                           | N/A       |
| Maximum allowable storage height for ST1      |                  |                  |                              |           |
| Installation no.                              | ONE              | TWO              | ONE                          | TWO       |
| Installation valve size                       | 150mm            | 150MM            | 150MM                        | 150MM     |
| Drawing nos.                                  | CL5212-05        | CL5212-05        | CL5212-07                    | CL5212-07 |

### Sprinkler heads installed

| Type | Manufacturer | K-factor | Response | Temperature rating | No. | Installation Nos. |
|------|--------------|----------|----------|--------------------|-----|-------------------|
| SSU  | RELIABLE     | 160      | STD      | 74°C               | 834 | ONE AND TWO       |
| SSU  | RELIABLE     | 80       | STD      | 68°C               | 78  | ONE AND TWO       |
| VSW  | TYCO         | 80       | STD      | 68°C               | 43  | TWO               |
| SSU  | RELIABLE     | 80       | STD      | 93°C               | 4   | PUMP HOUSE        |

### Water Supply

Grade of water supply: II

### Pumped Supply

| Driver Type | Pump number | Main/ Stand-by | Nominal Rating    |                | Driver Size |
|-------------|-------------|----------------|-------------------|----------------|-------------|
|             |             |                | Flow (litres/min) | Pressure (bar) |             |
| DIESEL      | ONE         | MAIN           | 6414              | 7.23           | 161 KW      |
| DIESEL      | TWO         | STANDBY        | 6414              | 7.23           | 161 KW      |

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Pressure recorded to be generated head (pump output pressure less suction pressure)

**Pump flow test results - fully hydraulically calculated systems**

| Pump number | Q <sub>max</sub> + 10% |                | Were results satisfactory? (Y/N)? |
|-------------|------------------------|----------------|-----------------------------------|
|             | Flow (litres/min)      | Pressure (bar) |                                   |
| ONE         | 7650                   | 6.9            | YES                               |
| TWO         | 7650                   | 7.0            | YES                               |

Suction conditions: Positive head

**Stored Water**

| Type             | Effective Capacity (m <sup>3</sup> ) | Manufacturer   | LPCB Approval reference |
|------------------|--------------------------------------|----------------|-------------------------|
| Suction Tank One | 671                                  | FRANKLIN HODGE | 037C/06E                |

**Town's main connections**

| Number | Size of Connection | Details of connections to Town's mains |
|--------|--------------------|----------------------------------------|
| ONE    | 100MM              |                                        |
|        |                    |                                        |
|        |                    |                                        |

**Control Valve Sets**

| Installation number | Installation Type | Installation Size | Life Safety | Zoned or un-zoned | No. Life safety zones |
|---------------------|-------------------|-------------------|-------------|-------------------|-----------------------|
| ONE                 | DRY               | 150MM             | NO          | UNZONED           | N/A                   |
| TWO                 | DRY               | 150MM             | NO          | UNZONED           | N/A                   |

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**Water supplies test results at pump(s)**

| Installation number | Low flow          |                |         | High flow         |                |         |
|---------------------|-------------------|----------------|---------|-------------------|----------------|---------|
|                     | Flow (litres/min) | Pressure (bar) |         | Flow (litres/min) | Pressure (bar) |         |
|                     |                   | Required       | Actual* |                   | Required       | Actual* |
| ONE                 | 6292              | 6.493          |         | 6414              | 7.233          | 7.80    |
| TWO                 | 6330              | 6.795          |         | 6734              | 6.484          |         |
|                     |                   |                |         |                   |                |         |

\*Where there is no flow test facility at the Control Valve Set(s), the pressure requirement at the pump test facility shall include the pressure loss under flow conditions for the respective hazard class between the pump test flow facility connection to the system pipework and the Control Valve Set(s) 'C' gauge (to include pipework, non-return/ check valves, stop valves, alarm valves including any static pressure loss/ gain).

**Water supplies meet system requirements: Y**