10509 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 1 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent PO13 9FX
Extent of system covered by this certificate:	Complete Installation.

The system is:
New: ✓
Modification: N/A

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category: L1 ✓ | L2 N/A | L3 N/A | L4 N/A | L5 N/A | P1 N/A | P2 N/A | M N/A

Description of Areas Protected*

** Not applicable for category M, L1 or P1 systems*

Certification of Design

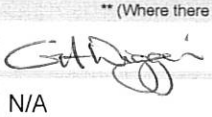
I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins		Position:	Technical Director	Signature:		Date: 29/04/2019
Name:	N/A	**	Position:	N/A	Signature:	N/A	Date: N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E11	Date issued:	09/01/2019	Other:		Date issued:	N/A

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10510 - Master

FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 1 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent, Hampshire PostCode: PO13 9FX	The system is: New:	✓
		An addition:	×
Extent of system covered by this certificate:	Complete Installation.	An alteration:	×

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:		Supply circuit(s) tests:		Test(s) required by manufacturer (if any):	
✓	Between conductors	✓	Earth continuity	N/A	Maximum circuit resistance
✓	Between conductors and Earth	✓	Earth fault loop impedance	N/A	Other tests
✓	Between conductors and screen if any	*Test results recorded on additional numbered page(s) and provided to:			

** The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee	Installer
Signature:		Date:	29/04/2019	

The results of the inspection and testing reviewed by the Qualified Supervisor:

Name:	Steve Willcocks	Position:	Qualifying Manager	Qualified Supervisor
Signature:		Date:	29/04/2019	

Particulars of the Contractor

Organisation:	M R Electrical Services Limited		
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH	NICEIC Enrolment Number	23945
		Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E11	Date Issued:	09/01/2019	Design Certificate No:	10506	Date Issued:	29/04/2019
'As fitted' Drawing Nos:	J6530/E11	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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10511 - Master

FIRE DETECTION AND ALARM SYSTEM COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 1 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: × An alteration: ×
Extent of system covered by this certificate:	Complete Installation.	

SYSTEM EXAMINATION AND RECOMMENDATIONS

Tick box of insert N / A (Not Applicable), as appropriate

- ✓ All equipment operates correctly
- ✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard
- ✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

- ✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.
- ✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Engineer	Signature:		Date:	29/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E11	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10506	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E11	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10510	Date Issued:	29/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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10513 - Master

FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 2 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent, Hampshire PostCode: PO13 9FX	The system is: New:	✓
		An addition:	×
Extent of system covered by this certificate:	Complete Installation.	An alteration:	×

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:

- ✓ Between conductors
- ✓ Between conductors and Earth
- ✓ Between conductors and screen if any

Supply circuit(s) tests:

- ✓ Earth continuity
- ✓ Earth fault loop impedance

Test(s) required by manufacturer (if any):

- N/A Maximum circuit resistance
- N/A Other tests

*Test results recorded on additional numbered page(s) and provided to:

* *The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee		
Signature:		Date:	29/04/2019	Installer	

The results of the inspection and testing reviewed by the Qualified Supervisor:

Name:	Steve Willcocks	Position:	Qualifying Manager		
Signature:		Date:	29/04/2019	Qualified Supervisor	

Particulars of the Contractor

Organisation:	M R Electrical Services Limited				
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth	PostCode:	PO3 6FH	NICEIC Enrolment Number	23945
				Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E11	Date Issued:	09/01/2019	Design Certificate No:	10512	Date Issued:	29/04/2019
'As fitted' Drawing Nos:	J6530/E11	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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MR Electrical Services Ltd

10512 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited	
Address:	160 Christchurch Road	
	Ringwood	Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 2 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent PO13 9FX
Extent of system covered by this certificate:	Complete Installation.	

The system is:
New: ✓
Modification: N/A

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category: L1 ✓ | L2 N/A | L3 N/A | L4 N/A | L5 N/A | P1 N/A | P2 N/A | M N/A

Description of Areas Protected*

*Not applicable for category M, L1 or P1 systems

Certification of Design

I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins	Position: Technical Director	Signature:	Date:	29/04/2019
Name:	N/A **	Position: N/A	Signature: N/A	Date:	N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E11	Date issued:	09/01/2019	Other:		Date issued:	N/A

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10514 - Master

FIRE DETECTION AND ALARM SYSTEM

COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 2 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: × An alteration: ×
Extent of system covered by this certificate:	Complete Installation.		

SYSTEM EXAMINATION AND RECOMMENDATIONS

- ✓ All equipment operates correctly
- ✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard
- ✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

- ✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.
- ✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

Tick box of insert N / A (Not Applicable), as appropriate

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Engineer	Signature:		Date:	29/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E11	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10512	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E11	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10513	Date Issued:	29/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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MR Electrical Services Ltd

10515 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 3 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent PO13 9FX
Extent of system covered by this certificate:	Complete Installation.

The system is:
New: ✓
Modification: N/A

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category:	L1	L2	L3	L4	L5	P1	P2	M
	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Description of Areas Protected*

*Not applicable for category M, L1 or P1 systems

Certification of Design

I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins		Position:	Technical Director	Signature:	GA Wiggins	Date: 29/04/2019
Name:	N/A	**	Position:	N/A	Signature:	N/A	Date: N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E12	Date issued:	09/01/2019	Other:		Date issued:	N/A

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Page 2

Limitation of False Alarms
False alarms create disruption to the normal operation of business and create a drain on fire service resources. Significant importance is attached to the limitation of false alarms. The major part of the responsibility for the limitation of false alarms rests with the designer, and the information given in the boxes provides a record of the design procedures that have been implemented. In particular, you, the recipient, should have been provided with guidance that will enable limitation of false alarms.

Installation and Commissioning
The fire detection and alarm system to which this certificate relates should be installed and commissioned in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively. Additionally, the designer(s) should have given recommendations regarding soak testing of the system.

Verification
In this box, the designer should have given a recommendation as to whether the system should be verified in accordance with Clause 43 of BS 5839-1.
Verification may be required where a purchaser or user considers that as a result of the division of responsibilities for the design, supply, installation and/or commissioning processes, there is a significant potential for the installed system to deviate from the recommendations of BS 5839-1. The verification process needs to confirm that, as far as can reasonably be determined, the system complies with all the recommendations of BS5839-1 (including the limitation of false alarms), and that any variations have been agreed between all concerned parties and documented.

Maintenance
The purpose of this box on the certificate is to recommend that the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities
The user of the system should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents
This box gives a list of documents that should have been issued to you, the recipient.

10516 - Master

FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 3 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent, Hampshire PostCode: PO13 9FX	The system is: New:	✓
		An addition:	×
Extent of system covered by this certificate:	Complete Installation.	An alteration:	×

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:

- ✓ Between conductors
- ✓ Between conductors and Earth
- ✓ Between conductors and screen if any

Supply circuit(s) tests:

- ✓ Earth continuity
- ✓ Earth fault loop impedance

Test(s) required by manufacturer (if any):

- N/A Maximum circuit resistance
- N/A Other tests

*Test results recorded on additional numbered page(s) and provided to:

* *The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee	Name:	Steve Willcocks	Position:	Qualifying Manager
Signature:		Date:	29/04/2019	Installer	Signature:	Date:	29/04/2019

The results of the inspection and testing reviewed by the Qualified Supervisor:

Qualified Supervisor

Particulars of the Contractor

Organisation:	M R Electrical Services Limited		
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH	NICEIC Enrolment Number	23945
		Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E12	Date Issued:	09/01/2019	Design Certificate No:	10515	Date Issued:	29/04/2019
'As fitted' Drawing Nos:	J6530/E12	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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10520 - Master

FIRE DETECTION AND ALARM SYSTEM

COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 3 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: × An alteration: ×
Extent of system covered by this certificate:	Complete Installation.		

SYSTEM EXAMINATION AND RECOMMENDATIONS

✓ All equipment operates correctly

✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard

✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.

✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

Tick box of insert N / A (Not Applicable), as appropriate

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name: Charlie Tudor Position: Trainee Fire Alarm Engineer Signature: Date: 29/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E12	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10515	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E12	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10516	Date Issued:	29/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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MR Electrical Services Ltd

10521 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited	
Address:	160 Christchurch Road	
	Ringwood	Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 4 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent PO13 9FX	The system is: New: ✓ Modification: N/A
Extent of system covered by this certificate:	Complete Installation.		

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category:	L1	L2	L3	L4	L5	P1	P2	M
	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Description of Areas Protected*

** Not applicable for category M, L1 or P1 systems*

Certification of Design

I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins		Position:	Technical Director	Signature:	G A Wiggins	Date: 30/04/2019
Name:	N/A	**	Position:	N/A	Signature:	N/A	Date: N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E12	Date issued:	09/01/2019	Other:		Date issued:	N/A

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10522 - Master

FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 4 Illustrious Unit 4 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road, Lee-On-The-Solent	PostCode:	PO13 9FX
Extent of system covered by this certificate:	Complete Installation.		

The system is:

New:	✓
An addition:	×
An alteration:	×

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:		Supply circuit(s) tests:		Test(s) required by manufacturer (if any):	
✓	Between conductors	✓	Earth continuity	N/A	Maximum circuit resistance
✓	Between conductors and Earth	✓	Earth fault loop impedance	N/A	Other tests
✓	Between conductors and screen if any				

*Test results recorded on additional numbered page(s) and provided to:

* *The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee		
Signature:		Date:	30/04/2019	Installer	

The results of the inspection and testing reviewed by the Qualified Supervisor:

Name:	Steve Willcocks	Position:	Qualifying Manager	
Signature:		Date:	30/04/2019	Qualified Supervisor

Particulars of the Contractor

Organisation:	M R Electrical Services Limited				
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth	PostCode:	PO3 6FH	NICEIC Enrolment Number	23945
				Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E12	Date Issued:	09/01/2019	Design Certificate No:	10521	Date Issued:	30/04/2019
'As fitted' Drawing Nos:	J6530/E12	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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10523 - Master

FIRE DETECTION AND ALARM SYSTEM

COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 4 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: × An alteration: ×
Extent of system covered by this certificate:	Complete Installation.		

SYSTEM EXAMINATION AND RECOMMENDATIONS

✓ All equipment operates correctly

✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard

✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.

✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

Tick box of insert N / A (Not Applicable), as appropriate

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Engineer	Signature:		Date:	30/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E12	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10521	Date Issued:	30/04/2019
'As fitted' Drawings Nos:	J6530/E12	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10522	Date Issued:	30/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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10525 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 5 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent PO13 9FX
Extent of system covered by this certificate:	Complete Installation.

The system is:
New: ✓
Modification: N/A

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category:	L1	L2	L3	L4	L5	P1	P2	M
	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Description of Areas Protected*

*Not applicable for category M, L1 or P1 systems

Certification of Design

I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins		Position:	Technical Director	Signature:	G A Wiggins	Date: 30/04/2019
Name:	N/A	**	Position:	N/A	Signature:	N/A	Date: N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E13	Date issued:	09/01/2019	Other:		Date issued:	N/A

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MR Electrical Services Ltd

10526 - Master

FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 5 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent, Hampshire PostCode: PO13 9FX	The system is: New:	✓
		An addition:	×
Extent of system covered by this certificate:	Complete Installation.	An alteration:	×

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:

- ✓ Between conductors
- ✓ Between conductors and Earth
- ✓ Between conductors and screen if any

Supply circuit(s) tests:

- ✓ Earth continuity
- ✓ Earth fault loop impedance

Test(s) required by manufacturer (if any):

- N/A Maximum circuit resistance
- N/A Other tests

*Test results recorded on additional numbered page(s) and provided to:

* *The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee	Installer
Signature:		Date:	30/04/2019	

The results of the inspection and testing reviewed by the Qualified Supervisor:

Name:	Steve Willcocks	Position:	Qualifying Manager	Qualified Supervisor
Signature:		Date:	30/04/2019	

Particulars of the Contractor

Organisation:	M R Electrical Services Limited		
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH	NICEIC Enrolment Number	23945
		Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E13	Date Issued:	09/01/2019	Design Certificate No:	10525	Date Issued:	30/04/2019
'As fitted' Drawing Nos:	J6530/E13	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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MR Electrical Services Ltd

10527 - Master

FIRE DETECTION AND ALARM SYSTEM COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 5 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: x An alteration: x
Extent of system covered by this certificate:	Complete Installation.	

SYSTEM EXAMINATION AND RECOMMENDATIONS

Tick box of insert N / A (Not Applicable), as appropriate

- ✓ All equipment operates correctly
- ✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard
- ✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

- ✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.
- ✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name: Charlie Tudor Position: Trainee Fire Alarm Engineer Signature:  Date: 30/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E13	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10525	Date Issued:	30/04/2019
'As fitted' Drawings Nos:	J6530/E13	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10526	Date Issued:	30/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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MR Electrical Services Ltd

10528 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited	
Address:	160 Christchurch Road	
	Ringwood	Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 6 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent PO13 9FX	The system is: New: ✓ Modification: N/A
Extent of system covered by this certificate:	Complete Installation.		

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category: L1 ✓ | L2 N/A | L3 N/A | L4 N/A | L5 N/A | P1 N/A | P2 N/A | M N/A

Description of Areas Protected*

*Not applicable for category M, L1 or P1 systems

Certification of Design

I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins		Position:	Technical Director	Signature:	G A Wiggins	Date: 30/04/2019
Name:	N/A	**	Position:	N/A	Signature:	N/A	Date: N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E13	Date issued:	09/01/2019	Other:		Date issued:	N/A

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FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 6 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent, Hampshire PostCode: PO13 9FX	The system is: New:	✓
		An addition:	×
Extent of system covered by this certificate:	Complete Installation.	An alteration:	×

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:

- ✓ Between conductors
- ✓ Between conductors and Earth
- ✓ Between conductors and screen if any

Supply circuit(s) tests:

- ✓ Earth continuity
- ✓ Earth fault loop impedance

Test(s) required by manufacturer (if any):

- N/A Maximum circuit resistance
- N/A Other tests

*Test results recorded on additional numbered page(s) and provided to:

* *The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee		
Signature:		Date:	30/04/2019	Installer	

The results of the inspection and testing reviewed by the Qualified Supervisor:

Name:	Steve Willcocks	Position:	Qualifying Manager		
Signature:		Date:	30/04/2019	Qualified Supervisor	

Particulars of the Contractor

Organisation:	M R Electrical Services Limited				
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth	PostCode:	PO3 6FH	NICEIC Enrolment Number	23945
				Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E13	Date Issued:	09/01/2019	Design Certificate No:	10528	Date Issued:	30/04/2019
'As fitted' Drawing Nos:	J6530/E13	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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10530 - Master

FIRE DETECTION AND ALARM SYSTEM

COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 6 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: × An alteration: ×
Extent of system covered by this certificate:	Complete Installation.	

SYSTEM EXAMINATION AND RECOMMENDATIONS

Tick box of insert N / A (Not Applicable), as appropriate

- ✓ All equipment operates correctly
- ✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard
- ✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

- ✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.
- ✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Engineer	Signature:		Date:	30/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E13	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10528	Date Issued:	30/04/2019
'As fitted' Drawings Nos:	J6530/E13	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10529	Date Issued:	30/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 7 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent PO13 9FX	The system is: New: ✓ Modification: N/A
Extent of system covered by this certificate:	Complete Installation.	

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category: L1 ✓ | L2 N/A | L3 N/A | L4 N/A | L5 N/A | P1 N/A | P2 N/A | M N/A

Description of Areas Protected*

*Not applicable for category M, L1 or P1 systems

Certification of Design

I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins		Position:	Technical Director	Signature:	GA Wiggins	Date: 30/04/2019
Name:	N/A	**	Position:	N/A	Signature:	N/A	Date: N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E14	Date issued:	09/01/2019	Other:		Date issued:	N/A

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10533 - Master

FIRE DETECTION AND ALARM SYSTEM COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 7 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: × An alteration: ×
Extent of system covered by this certificate:	Complete Installation.		

SYSTEM EXAMINATION AND RECOMMENDATIONS

✓ All equipment operates correctly

✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard

✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.

✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

Tick box of insert N / A (Not Applicable), as appropriate

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Engineer	Signature:		Date:	30/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E14	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10531	Date Issued:	30/04/2019
'As fitted' Drawings Nos:	J6530/E14	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10532	Date Issued:	30/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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10532 - Master

FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 7 Illustrious Tidebank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent, Hampshire PostCode: PO13 9FX	The system is: New: ✓ An addition: × An alteration: ×
Extent of system covered by this certificate:	Complete Installation.	

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:

- ✓ Between conductors
- ✓ Between conductors and Earth
- ✓ Between conductors and screen if any

Supply circuit(s) tests:

- ✓ Earth continuity
- ✓ Earth fault loop impedance

Test(s) required by manufacturer (if any):

- N/A Maximum circuit resistance
- N/A Other tests

*Test results recorded on additional numbered page(s) and provided to:

* *The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee		
Signature:		Date:	30/04/2019	Installer	

The results of the inspection and testing reviewed by the Qualified Supervisor:

Name:	Steve Willcocks	Position:	Qualifying Manager		
Signature:		Date:	30/04/2019	Qualified Supervisor	

Particulars of the Contractor

Organisation:	M R Electrical Services Limited		
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH	NICEIC Enrolment Number	23945
		Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E14	Date Issued:	09/01/2019	Design Certificate No:	10531	Date Issued:	30/04/2019
'As fitted' Drawing Nos:	J6530/E14	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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MR Electrical Services Ltd

10534 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited	
Address:	160 Christchurch Road	
	Ringwood	Hampshire BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 8 Illustrious Tide Bank Daedalus Park New Airfield Perimeter Road	Lee-On-The-Solent PO13 9FX	The system is: New: ✓ Modification: N/A
Extent of system covered by this certificate:	Complete Installation.		

Objectives of Protection Proposed

Covered all areas to meet the L1 Category.

Type of Premises and System Category

Type of premises: Industrial Unit

Estimated age of property: 0 years

Combined systems: N/A

System category:	L1	L2	L3	L4	L5	P1	P2	M
	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Description of Areas Protected*

** Not applicable for category M, L1 or P1 systems*

Certification of Design

I/We, being the competent person(s) responsible (as indicated by my/our signature(s) below) for the design of the fire alarm system, particulars of which are set out above, CERTIFY that the said design for which I/we have been made responsible complies to the best of my/our knowledge and belief with the recommendations of Section 2 of BS 5839-1: 2017 for the system Category described above, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Section 2 of BS 5839-1 (see BS 5839-1,Clause 7)

The extent of liability of the signatory / signatories is limited to the work described above.

For the **DESIGN** of the system

** (Where there is divided responsibility for the design)

Name:	Graham Wiggins		Position:	Technical Director	Signature:		Date: 30/04/2019
Name:	N/A	**	Position:	N/A	Signature:	N/A	Date: N/A

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Particulars of the Organisations Responsible for the Design

Design (1)

Organisation: M R Electrical Services Limited

Address: Unit 1.2 Central Point
Kirpal Road
Portsmouth PO3 6FH

NICEIC Enrolment Number: 23945

Branch Number (If Applicable): N/A

Design (2)

Organisation: N/A

Address: N/A

Registration Number: N/A

Limitation of False Alarms

Account has been taken of the guidance contained in Section 3 of BS 5839-1: 2017 and, more specifically:

N/A The system is manual. Type and siting of manual call points takes account of the guidance contained in Section 3 of BS 5839-1.

✓ The system incorporates automatic fire detectors, and account has been taken of reasonably foreseeable causes of unwanted alarms, particularly in the selection and siting of detectors.

✓ An appropriate analogue system has been specified.

N/A An appropriate multi-sensor system has been specified.

N/A A time-related system has been specified. Details: N/A

N/A Fire signals from automatic fire detectors result initially in a staff alarm, which delays
either N/A i) a general alarm
or N/A ii) transmission of signals to an alarm receiving centre
for N/A minutes.

✓ Appropriate guidance has been provided for the user to enable limitation of false alarms.

N/A Other measures as follows: N/A

Installation and Commissioning

It is strongly recommended that installation and commissioning be undertaken in accordance with the recommendations of Sections 4 and 5 of BS 5839-1 respectively.

Soak test

N/A In accordance with the recommendations of Clause 35.2.6 of BS 5839-1, it is recommended that, following commissioning, a soak period should follow: N/A

✓ As the system incorporates no more than 50 automatic fire detectors, no soak test is necessary to satisfy the recommendations of BS 5839-1.

Verification

Verification that the system complies with BS 5839-1 should be carried out, on completion, in accordance with Clause 43 of BS 5839-1: Yes: N/A No: N/A To be decided by the purchaser or user: ✓

Maintenance

It is strongly recommended that, after completion, the system is maintained in accordance with Section 6 of BS 5839-1.

User Responsibilities

The user should appoint a responsible person to supervise all matters pertaining to the fire alarm system in accordance with the recommendations of Section 7 of BS 5839-1.

Related Reference Documents

Design Specification Ref No:	N/A	Date issued:	N/A	Fire Risk Assessment No:	N/A	Date issued:	N/A
Design Drawings Ref No:	J6530/E14	Date issued:	09/01/2019	Other:		Date issued:	N/A

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10535 - Master

FIRE DETECTION AND ALARM SYSTEM INSTALLATION CERTIFICATE

Details of the Client

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood, Hampshire PostCode: BH24 3AR

Details of the Fire Detection and Alarm System

Address:	Unit 8 Illustrious Tide Bank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent, Hampshire PostCode: PO13 9FX	The system is: New:	✓
		An addition:	×
Extent of system covered by this certificate:	Complete Installation.	An alteration:	×

Inspection and Testing of Wiring System(s)

Tick box or insert N / A (Not Applicable), as appropriate

Wiring has been tested in accordance with the recommendations of Clause 38 of BS 5839-1: 2013.

Insulation resistance tests:		Supply circuit(s) tests:		Test(s) required by manufacturer (if any):	
✓	Between conductors	✓	Earth continuity	N/A	Maximum circuit resistance
✓	Between conductors and Earth	✓	Earth fault loop impedance	N/A	Other tests
✓	Between conductors and screen if any	*Test results recorded on additional numbered page(s) and provided to:			

** The results of all tests must be recorded on additional numbered page(s) and made available to the organisation responsible for the commissioning of the system*

Certificate of Installation

I being the competent person(s) responsible (as indicated by my signature(s) below) for the installation of the fire alarm system, particulars of which are set out above, CERTIFY that the said installation for which I have been responsible complies to the best of my knowledge and belief with the specification described below and with the recommendations of Section 4 of BS 5839-1:2013, except for the variations, if any, stated in this certificate.

Variations from the specification and / or Section 4 of BS 5839-1 (see BS 5839-1, Clause 7):

The extent of liability of the signatory / signatories is limited to the work described above.

For the **INSTALLATION** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Enginee		
Signature:		Date:	30/04/2019	Installer	

The results of the inspection and testing reviewed by the Qualified Supervisor:

Name:	Steve Willcocks	Position:	Qualifying Manager	
Signature:		Date:	30/04/2019	Qualified Supervisor

Particulars of the Contractor

Organisation:	M R Electrical Services Limited		
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH	NICEIC Enrolment Number	23945
		Branch Number (If Applicable)	N/A

Design Specification and Related Reference Documents

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E14	Date Issued:	09/01/2019	Design Certificate No:	10534	Date Issued:	30/04/2019
'As fitted' Drawing Nos:	J6530/E14	Date Issued:	08/04/2019	Other:	N/A	Date Issued:	N/A

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [see clause 36.2m of BS 5839-1:2013].

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Recorded Test Results

1 No. MCP Tested and Signals Fire

2 No. Sounders Beacon tested and work correctly (all areas over 65 DB)

2 No. Smoke Detectors tested and signal fire to panel.

All buttons and lights work on Panel.

Batteries tested.

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MR Electrical Services Ltd

10536 - Master

FIRE DETECTION AND ALARM SYSTEM

COMMISSIONING CERTIFICATE

DETAILS OF THE CLIENT

Client:	Knights Brown Construction Limited
Address:	160 Christchurch Road Ringwood Hampshire PostCode: BH24 3AR

DETAILS OF THE FIRE DETECTION AND ALARM SYSTEM

Address:	Unit 8 Illustrious Tide Bank Daedalus Park New Airfield Perimeter Road Lee-On-The-Solent Hampshire PostCode: PO13 9FX
Extent of system covered by this certificate:	Complete Installation.

The system is:

New:	✓
An addition:	×
An alteration:	×

SYSTEM EXAMINATION AND RECOMMENDATIONS

Tick box of insert N / A (Not Applicable), as appropriate

- ✓ All equipment operates correctly
- ✓ Installation work is, as far as can reasonably be ascertained, of an acceptable standard
- ✓ The entire system has been inspected and tested in accordance with the recommendations of Clause 39.2c of BS 5839-1: 2017

The system performs as required by the specification prepared by: N/A a copy of which I / we have been given

- ✓ Taken into account the guidance contained in Section 3 of BS 5839-1: 2017, I / we have not identified any obvious potential for an unacceptable rate of false alarms.
- ✓ The documentation described in Clause 40 of BS 5839-1: 2017 has been provided to the user.

The following work should be completed before / after (delete as applicable) the system becomes operational:

None

The following potential causes of false alarms should be considered at the time of the next visit.

None

Before the system becomes operational, it should be soak tested in accordance with the recommendations of Clause 35.2.6 of BS 5839-1: 2017 for a period of: N/A Weeks

(Enter a period of either one week, such period as required by the specification, or such period as recommended by the signatory of this certificate, whichever is the greatest, or insert N / A if not applicable.)

CERTIFICATION OF COMMISSIONING

I being the competent person(s) responsible (as indicated by my signature(s) below) for the commissioning of the fire alarm system, particulars of which are set out above, CERTIFY that the said work for which I have been responsible complies to the best of my knowledge and belief with the recommendations of Clause 39 of BS 5839-1: 2017, except for the variations, if any, stated in this certificate.

Variations from the recommendations of Clause 39 of BS 5839-1: 2017 (see BS 5839-1: 2017, Clause 7):

None

The extent of liability of the signatory / signatories is limited to the work described above for the **COMMISSIONING** of the system:

Name:	Charlie Tudor	Position:	Trainee Fire Alarm Engineer	Signature:		Date:	30/04/2019

PARTICULARS OF THE ORGANISATION COMMISSIONING THE SYSTEM

Organisation:	M R Electrical Services Limited
Address:	Unit 1.2 Central Point Kirpal Road Portsmouth PostCode: PO3 6FH

DESIGN SPECIFICATION AND RELATED REFERENCE DOCUMENTS

Design Specification Ref No:	N/A	Date Issued:	N/A	Electrical Installation Certificate No:	N/A	Date Issued:	N/A
Design Drawings Ref Nos:	J6530/E14	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10534	Date Issued:	30/04/2019
'As fitted' Drawings Nos:	J6530/E14	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10535	Date Issued:	30/04/2019

Unless supplied by others, the 'As Fitted' drawings have been supplied to the person responsible for commissioning the system [(see Clause 36.2m) of BS 5839-1: 2017].

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