MR Electrical Services Ltd

10479 - 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 Invincible 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:		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 for N/A minutes.
or N/A ii) transmission of signals to an alarm receiving centre

✓ 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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MR Electrical Services Ltd

10480 - 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 Invincible 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:					The results of the inspection and testing reviewed by the Qualified Supervisor:				
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	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:	10479	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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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10481 - 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 Invincible Tidebank 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:	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:	10479	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E11	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10480	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

10482 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

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

Details of the Fire Detection and Alarm System

Address:	Unit 2 Invincible		The system is:
	Tidebank Daedalus Park	Lee-On-The-Solent	New: ✓
	New Airfield Perimeter Road	PO13 9FX	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:	GAWiggins	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 for N/A minutes.
or N/A ii) transmission of signals to an alarm receiving centre

✓ 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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10483 - 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 Invincible 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:					The results of the inspection and testing reviewed by the Qualified Supervisor:				
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	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:	10482	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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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10484 - 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 Invincible 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:	10482	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E11	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10483	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

10487 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

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

Details of the Fire Detection and Alarm System

Address:	Unit 3 Invincible		The system is:
	Tidebank Daedalus Park	Lee-On-The-Solent	New: ✓
	New Airfield Perimeter Road	PO13 9FX	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:	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 for N/A minutes.
or N/A ii) transmission of signals to an alarm receiving centre

✓ 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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10518 - 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 Invincible 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	Name:	Steve Willcocks	Position:	Qualifying Manager	
Signature:		Date:	29/04/2019	Installer	Signature:	Date:	29/04/2019	Qualified Supervisor

The results of the inspection and testing reviewed by the 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:	10487	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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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MR Electrical Services Ltd

10519 - 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 Invincible 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/E12	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10487	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E12	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10518	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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10492 - 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 Invincible Tidebank 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:	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:	10490	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E12	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10491	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

10490 - 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 Invincible 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:	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 for N/A minutes.
or N/A ii) transmission of signals to an alarm receiving centre

✓ 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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FIRE DETECTION AND ALARM SYSTEM DESIGN
GUIDANCE NOTES FOR RECIPIENTS

This certificate has been issued to confirm that the fire detection and alarm system to which it relates has been **designed** in accordance with the recommendations given in BS 5839-1 *Fire detection and fire alarm systems for buildings* - Part 1: *Code of practice for system design, installation, commissioning and maintenance.*

Persons offering to design, install, commission, accept, verify, modify, maintain or inspect and service fire detection and alarm systems have a duty in law to ensure that all their supervisors and operatives given responsibility for such work are competent. This includes having a full understanding of all the technical and operational requirements relating to fire detection and alarm systems.
This certificate is intended to be issued only for the design work associated with a new fire detection and alarm system or for design work associated with a modification to an existing system.
This certificate consists of at least two pages. It should be read in conjunction with the additional documents identified in *Related Reference Documents* on page 2 of the certificate. It is part of a suite of documentation to be provided to you, the recipient, and it should be passed to the user or purchaser of the system.
You should have received the certificate marked `Master' and the contractor responsible for the design of the fire detection and alarm system should have retained the certificate marked 'Duplicate'. **This certificate is a valuable document and should be retained for future reference as you may, subsequently, rely on this certificate as evidence of compliance with legislation. If you were the person ordering the work but not the user of the system, you should pass this certificate, or a full copy of it including all the related reference documents (see page 2), immediately to the user.**
The `Master' certificate should be retained in a safe place and be shown to persons responsible for installing, commissioning, accepting, verifying, servicing, modifying or using the fire detection and alarm system. If you later vacate the property or building, this design certificate will demonstrate to the new responsible person that the design of the fire detection and alarm system complied with the recommendations of BS 5839-1 (except for any variations noted on the certificate) at the time the certificate was issued.
You should have been provided with sufficient information such that a person who is unfamiliar with the technology of fire alarm systems can limit the occurrence of false alarms.

Page 1

Details of the Client and Details of the Fire Detection and Alarm System
Information presented in the boxes should clearly identify the Client, the location and extent of the fire detection and alarm system and whether the system is new or a modification to an existing system.

Objectives of the Protection Provided
A brief and clear description of the proposed protection should have been given. This may be particularly useful for a submission to an enforcing authority.

Type of Premises and System Category
Information presented should give an accurate description of the premises (such as school, hospital, church hall or office building) and the Category of system proposed.

Description of Areas Protected
A brief description of the areas of the building that are protected by automatic fire detection should have been given

Certification of Design and **Particulars of the Organisation(s) Responsible for the Design** (Page 2)
The designer(s) should have signed and dated the certificate, given their details, and recorded any variations from BS 5839-1.

10491 - 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 Invincible 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:					The results of the inspection and testing reviewed by the Qualified Supervisor:				
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	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:	10490	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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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MR Electrical Services Ltd

10493 - 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 Invincible 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:	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/E13	Date issued:	09/01/2019	Other:		Date issued:	N/A

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10494 - 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 Invincible 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:					The results of the inspection and testing reviewed by the Qualified Supervisor:				
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	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:	10493	Date Issued:	29/04/2019
'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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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10495 - 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 Invincible Tidebank 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:	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/E13	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10493	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E13	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10494	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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10499 - 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 Invincible Tidebank 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

- ✓ 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/E13	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10497	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E13	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10498	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

10497 - Master

FIRE DETECTION AND ALARM SYSTEM DESIGN CERTIFICATE

Details of the Client

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

Details of the Fire Detection and Alarm System

Address:	Unit 6 Invincible		The system is:
	Tidebank Daedalus Park	Lee-On-The-Solent	New: ✓
	New Airfield Perimeter Road	PO13 9FX	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:	GAWiggins	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 for N/A minutes.
or N/A ii) transmission of signals to an alarm receiving centre

✓ 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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10498 - 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 6 Invincible 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:					The results of the inspection and testing reviewed by the Qualified Supervisor:				
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	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:	10497	Date Issued:	29/04/2019
'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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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MR Electrical Services Ltd

10501 - 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 7 Invincible 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:	GAWiggins	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 for N/A minutes.
or N/A ii) transmission of signals to an alarm receiving centre

✓ 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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MR Electrical Services Ltd

10503 - 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 Invincible 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:					The results of the inspection and testing reviewed by the Qualified Supervisor:				
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	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:	10501	Date Issued:	29/04/2019
'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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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10504 - 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 Invincible Tide Bank 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/E14	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10501	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E14	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10503	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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10505 - 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 Invincible Tide Bank 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:	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 for N/A minutes.
or N/A ii) transmission of signals to an alarm receiving centre

✓ 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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MR Electrical Services Ltd

10506 - 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 Invincible
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:	×

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/E14	Date Issued:	09/01/2019	Design Certificate No:	10505	Date Issued:	29/04/2019
'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

DB - Level Readings all reach a minimum requirement of 65 DB in all areas in unit.

2 No. Smoke Detectors tested and signal fire when operated.

2 No. Sounders tested and operated on fire.

1 No. MCP tested and triggers fire at panel.

All panel buttons/lights work.

Batteries tested.

Separate earth for panel.

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10507 - 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 Invincible 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:	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/E14	Date Issued:	09/01/2019	Fire Alarm Design Certificate No:	10505	Date Issued:	29/04/2019
'As fitted' Drawings Nos:	J6530/E14	Date Issued:	08/04/2019	Fire Alarm Installation Certificate No:	10506	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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