

**MK Group  
Limited**  
Milton Keynes

# INSTALLATION CERTIFICATE

Name	Mr Gary McCauley	Name	Mr Dale Steele	Qualified Supervisor
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## PARTICULARS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION

DESIGN (1)	Organisation	M K Group Limited,									
INSPECTION & TESTING	Organisation	M K Group Limited,									
Address	6 Harvard Close, Giffard Park,				Employee No	0	0	0	0	0	1
	Milton Keynes, MK14 5PZ				Branch number	0	0	1			

## SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

(Tick boxes and enter details, as appropriate)

System Type(s)	Number & Type of Live Conductors				Nature of Supply Parameters				Characteristics of Primary Supply Overcurrent Protective Device(s)			
TN-S		a.c		d.c	Nominal voltage(s)	230 V	U <sub>o</sub>	V	BS(EN)	7671		
TN-C-S	✓	1 Phase (2 wire)	1 Phase (3 wire)	✓ 2 pole	Nominal frequency	50 Hz			Type	1		
TN-C		2 Phase (3 wire)		3 pole	Prospective fault current	KA			Nominal current rating	85A		
TT		3 Phase (3 wire)	3 Phase (4 wire)	other	External earth fault loop impedance	Ω			Short-circuit capacity	0.3 kA		
IT		Other (Please state)			Number of supplies							

## PARTICULARS OF INSTALLATION AT THE ORIGIN

(Tick boxes and enter details, as appropriate)

Means of Earthing		Details of Installation Earth Electrode (where applicable)								
Supplier's facility	✓	Type (e.g rod(s) tape etc)				Location				
Installation earth electrode		Electrode resistance, R <sub>A</sub>				Method of measurement				
Main Switch or Circuit-Breaker				Maximum Demand (Load)	A per phase	Method of Protection against Indirect contact				
Type BS(EN)	7671	Voltage rating	240V		Main Protective Conductors					
No of Poles	2	Current rating	85A		Earthing Conductor		Main equipotential bonding conductors		Bonding of extraneous-conductive-parts (✓)	
Supply conductors material	copper	RCD operating current	mA		Conductor material	copper	Conductor material	copper	Water service	✓ Gas service
Supply conductors csa		RCD operating time	mS		Conductor csa	16 mm <sup>2</sup>	Conductor csa	10 mm <sup>2</sup>	Oil service	Structural steel
	25 Mm <sup>2</sup>				Continuity check	✓	Continuity Check	✓	Lightning protection	Other incoming service(s)

**COMMENTS ON EXISTING INSTALLATION** (Enter 'NONE' or where appropriate page no of comments on existing installation)

## NEXT INSPECTION

I/We, the designer(s), RECOMMEND that this installation is further inspected and tested after an interval of not more than

## SCHEDULE OF ITEMS INSPECTED (\*\* See note below)

Methods of protection against electric shock		Prevention of mutual detrimental influence	
a. Protection against both direct and indirect contact:	✓	a. Proximity of non-electrical services and other influences	
✓ (i) SELV		b. Segregation of Band I & Band II circuits or Band II insulation used	

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<input checked="" type="checkbox"/>	(ii) Limitation of discharge of energy		c. Segregation of safety circuits
b. Protection against direct contact:		<b>Identification</b>	
<input checked="" type="checkbox"/>	(i) Insulation of live parts		Presence of diagrams, instructions, circuit charts & similar information
<input checked="" type="checkbox"/>	(ii) Barriers or enclosures		Presence of danger notices and other warning notices
	(iii) Obstacles		Labelling of protective devices, switches and terminals
	(iv) Placing out of reach		Identification of conductors
	(v) PELV	<b>Cables and Conductors</b>	
	(vi) Presence of RCD for supplementary protection		Routing of cables in prescribed zones or within mechanical protection
c. Protection against indirect contact:			Connection of conductors
	(i) EEBAD including:		Erection methods
	Presence of earthing conductor		Selection of conductors for current carrying capacity and voltage drop
	Presence of circuit protective conductors		Presence of fire barriers, suitable seals and protection against thermal effect
	Presence of main equipotential bonding conductors	<b>General</b>	
	Presence of supplementary equipotential bonding conductors		Presence and correct location of appropriate devices for isolation and switching
	Presence of earthing arrangements for combined protective & functional purposes		Adequacy of access to switchgear and other equipment
	Presence of adequate arrangements for alternative source(s), where applicable		Particular protective measures for special installations and locations
	Presence of residual current device		Connection of single-pole devices for protection or switching in phase conductors only
	(ii) Use of Class II equipment or equivalent		Correct connection of accessories and equipment
	(iii) Non conducting location: Absence of protective conductors		Presence of undervoltage protective devices
	(iv) Earth-free equipotential bonding: Presence of Earth-free equipotential bonding conductors		Choice and setting of protective and monitoring devices (for protection against indirect contact and/or overcurrent)
	(v) Electrical Separation		Selection of equipment and protective measures appropriate to external influences
			Selection of appropriate functional switching devices

### SCHEDULE OF ITEMS TESTED (\*\* See note below)

	External earth fault loop impedance, $Z_e$		Protection by separation of circuits
	Installation earth electrode resistance, $R_A$	<input checked="" type="checkbox"/>	Protection against direct contact by barrier or enclosure provided during erection
<input checked="" type="checkbox"/>	Continuity of protective conductors		Insulation of non-conducting floor or walls
<input checked="" type="checkbox"/>	Continuity of ring final circuit conductors	<input checked="" type="checkbox"/>	Polarity
<input checked="" type="checkbox"/>	Insulation resistance between live conductors	<input checked="" type="checkbox"/>	Earth fault loop impedance, $Z_s$
<input checked="" type="checkbox"/>	Insulation resistance between live conductors and earth		Operation of residual current devices
	Site applied insulation		Functional testing of assemblies

**\*\* All boxes must be completed.** '✓' indicates that an inspection or a test was carried out and that the result was **satisfactory**. 'N/A' indicates that an inspection or test was **not applicable** to the particular installation.