

ELECTRICAL EQUIPMENT SCHEDULES

10005 - RSTC Dundalk

27-August-2026



PROJECT TITLE: RSTC Dundalk

PROJECT NO.: 10005 CREATED ON: 30/07/2026

DOCUMENT TITLE: Electrical Equipment Schedules

DOCUMENT NO.:

A. Equipment Schedule Notes:

- 1 - This schedule is to be read in conjunction with the lighting drawings.
- 2 - The foregoing is for guidance and general information only.
- 3 - Prior to placing order for accessories and panels the Contractor shall provide technical submittals to the Project Engineer and confirm finish and colour detail with the Interior Designer and Architect.
- 4 - The specific clauses detailing the electrical equipment detailed within this schedule are given in the relevant clauses of the Electrical Services Specification and the accompanying foregoing is for guidance and general info.
- 5 - The Contractor may propose alternative equipment to those specified in the Schedule but must include within the tender return the cost for the specified equipment detailed within all schedules, specification and drawings with the saving associated with the alternate equipment identified separately. Note that any proposed alternative must match the performance and quality of the proposed equipment. Where a Contractor proposes an alternates it shall be their responsibility to complete all calculations required to demonstrate compliance with the required standards, supported by full technical submittal with sample(s).
- 6 - All information given in this Schedule must be checked and verified with the manufacturers. Any discrepancies must be reported to the Contract Administrator and Project Engineer prior to ordering or commencing installation on site.
- 7 - The Contractor shall be responsible for ordering all additional items which are required for a complete and working installation.

The Contractor shall select final equipment based on the subsequent work stages up to and inclusive of the requirements of RIBA stage F2/4C installation design. The Contractor shall satisfy themselves of the site dimensions and relevant installation details for specific items of equipment and interdependencies of plant items. All equipment selected shall be issued as technical submittals for approval by the Engineer. Equipment ordered against Elementa schedules shall be entirely at the Contractor's risk.

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ES05 - SCHEDULE OF DISTRIBUTION BOARDS

General				Dimensions			Electrical Details				
Equipment Reference	Location	Manufacturer	Model	Width (mm)	Depth (mm)	Height (mm)	Supply Cable	Rating (A)	Voltage (V)	Number of Poles	No. of Ways
DB-M1	Loading bay	TBD	TBD	900	260	2100	2 - 5x70sq mm XLPE/SWA	400	400	TPN	12

- NOTES:
1. All Distribution Boards to be provided with Type 1/2 surge protective device.
- 2
- 3
- 4
- 5
- 6

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ES08 - SCHEDULE OF MAIN FUSED ISOLATOR SWITCH									
General			Electrical Details						
Equipment Reference	Location	Manufacturer	Rating (A)	Poles	Frequency	Voltage (V)	Breaking Capacity	IP Rating	Protection Type
DB-M1 ISO SWITCH	Main Switchboard MSB	TBD	400	3	50	400	65kA	IP31	FUSE
PV ISO SWITCH	Main Switchboard MSB	TBD	160	3	50	400	65kA	IP31	FUSE

NOTES:
1. Subject to final amplification requirements by specialist.

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ES11 - SCHEDULE OF ELECTRICAL ENERGY METERS

General		Meter			Hardware			
Equipment Reference	Location	Standalone	Integrated to distribution board/panel	Measurement data	RS485 Modbus Module	Integrate with Ultan software	Modbus to ethernet Gateway	Connect to a Centralised System
M1-ASHP-1	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M2-ASHP-2	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M3-ASHP-3	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M4-ASHP-4	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M5-ASHP-5	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES

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General		Meter			Hardware			
Equipment Reference	Location	Standalone	Integrated to distribution board/panel	Measurement data	RS485 Modbus Module	Integrate with Ultan software	Modbus to ethernet Gateway	Connect to a Centralised System
M6-ASHP-6	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M7-ASHP-7	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M8-ASHP-8	DB-M1	NO	YES	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M9-HPCP-01	DB-M1	YES	NO	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M10-P-DHW-01	DB-M1	YES	NO	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES

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General		Meter			Hardware			
Equipment Reference	Location	Standalone	Integrated to distribution board/panel	Measurement data	RS485 Modbus Module	Integrate with Ultan software	Modbus to ethernet Gateway	Connect to a Centralised System
M11-DATA LOGGER	DB-M1	YES	NO	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M12-PV METER	MSB	YES	NO	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES
M13-DHWC-01	DB-5	YES	NO	Current, Voltage, Active Energy, Peak Demand	YES	YES	YES	YES

Distribution Board Schedule										
PROJECT TITLE:RSTC Dundalk PROJECT NO.:10005 CREATED ON:04/08/2026 DOCUMENT TITLE:Distrbution Board & Cable Schedule DOCUMENT NO.:										
BOARD DATA BOARD REFERENCE:DB-M1MANUFACTURER:Generic BOARD LOCATION:NO. OF WAYS: 444 BOARD RATING:400ASPBREAKER FAULT RATING:65kASPARE WAYS (%):#REF! BOARD SUPPLIED FROM:MSB INCOMER DETAILS DEVICE RATING / TYPE:400A 4Pole Switch Disconnecter DISTRBUTION BOARD NOTES Type 2 Surge protection device integral to distrbution board Each 3P breaker shall be metered. Meters shall be communicate with Ultan technologies platform.										
Way	Phase	Protective Device Type	Protective Device (A)	Cable Size (mm²)	Cable Cores	Cable Type	CPC Size (mm²)	Circuit Type	Circuit Description	Comment
Section 1 - Mechanical Distribution										Metering Yes
M-1	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-1	
	L2									
	L3									
M-2	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-2	
	L2									
	L3									
M-3	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-3	
	L2									
	L3									
M-4	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-4	
	L2									
	L3									
M-5	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-5	
	L2									
	L3									
M-6	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-6	
	L2									
	L3									
M-7	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-7	
	L2									
	L3									
M-8	L1	MCCB - Electronic	40A	10.0mm²	1 x 1 x 5C	Multicore, 70°C thermosetting insulated, armoured LSF Al	10.0mm²	Ring	ASHP-8	
	L2									

WAY	PHASE	PROTECTIVE DEVICE TYPE	PROTECTIVE DEVICE (A)	CABLE SIZE (mm ²)	CABLE CORES	CABLE TYPE	CPC SIZE (mm ²)	CIRCUIT TYPE	CIRCUIT DESCRIPTION	COMMENT
	L3									
M-9	L1	MCCB - Electronic	6A	2.5mm ²	1 x 1 x 3C	Multicore, 70°C thermosetting insulated, armoured LSF Cu	2.5mm ²	Ring	Heat Pump Control Panel	
	L2	-							Spare	
	L3	-							Spare	
M-10	L1	MCCB - Electronic	6A	2.5mm ²	1 x 1 x 3C	Multicore, 70°C thermosetting insulated, armoured LSF Cu	2.5mm ²	Ring	P-DHW-01	
	L2	-							Spare	
	L3	-							Spare	
M-11	L1	MCCB - Electronic	6A	2.5mm ²	1 x 1 x 3C	Multicore, 70°C thermosetting insulated, armoured LSF Cu	2.5mm ²	Ring	Data Logger	
	L2	-							Spare	
	L3	-							Spare	
M-12	L1	-							Spare	
	L2									
	L3									